SRINIVAS UNIVERSITY

BOS PROCEEDINGS

Si No	Name of the Programmes	Prior to Revision
1.	Institute of Management and Commerce	View Document
2.	Institute of Social science and Humanities	View Document
3.	Institute of Computer science and Information Science	View Document
4.	Institute of Physiotherapy	View Document
5.	Institute of Education	View Document
6.	Institute of Hotel management and catering technology	View Document
7.	Institute of Engineering and Technology	View Document
8.	Institute of Allied Health Sciences	View Document
9.	Institute of Nursing	View Document

PROCEEDINGS OF THE MEETING OF THE BOARD OF STUDIES OF THE COLLEGE OF MANAGEMENT & COMMERCE, SRINIVAS UNIVERSITY HELD On 19.11.2021 AT 3.30 P.M. IN THE CONFERENCE ROOM, 2ND FLOOR, PANDESHWARA CAMPUS, SRINIVAS UNIVERSITY.

Members Present:

Prof Keerthan Raj	Chairperson
Prof. Amith Menezes	Member
Prof. Nelson Periera	Member
Dr. Shailashri V.T	Member
Mr Mudazir	Alumnus
Mr. Navneet	External Member (Industry)
Mr. Arun Salian	External Member (Industry)
Mr. Dharmendra Mehta	External Member (Industry)
Mr. Sanjay Singh	External Member (Industry)

SRINIVAS UNIVERSITY G.H.S. ROAD MANGALORE-575 001

At the outset, Keerthan Raj, Chairperson of the BOS in Commerce & Management, welcomed all the members present, explained the purpose of the meeting as mentioned in the notice and the agenda in brief. Then the agenda was taken up for discussion.

AGENDA 1 Option to pursue complete internship in the BBA Honours Program

Discussion: In Line with the requirements in the Industry and to meet the demands of education with hands-on learning in key domains the board resolved to permit students to take up internships in the BBA Honours as well

RESOLUTION: The board approved the option of Internship to BBA Honours students as well

AGENDA 2 Inclusion and Implementation of NEP 20 Syllabus in the Institute of Management and Commerce

Discussion: The Members discussed the benefits of implementing the NEP 20 Syllabus and stressed the need for experiential learning.

RESOLUTION: The Board stressed the need to implement NEP20 Syllabus

REGISTRAR
SRINIVAS UNIVERSITY

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SRINIVAS NAGAR
MUKKA
SURATHKAL
574 146
MANGALORE

Proposed By : Prof. NelsonPeriera

Seconded By : Prof. Keerthan Raj

At the end, the Chairperson thanked all the members for having spared their valuable time and extended their cooperation.

Keerthan Raj

Chairperson

DEAN
Institute of Management and Commerce
Srinivas University
Mangaluru - 575 001

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G.H.S. ROAD
MANGALORE-575 001

PLACE : Mangaluru

Date : 19/11/2021

SRINIVAS UNIVERSITY
INSTITUTE OF MANAGEMENT AND COMMERCE
BBA DEPARTMENT

The following specific corrections were made in the syllabus

Sl. No.	Semester	Course & Course code	Present Syllabus	Revised Syllabus	Credits
1.	I SEMESTER	Business Communication I Communicative English I	**Module 1 - PROSE** Equipping students to ease their communicative ability through the learning of some of the best prose texts authored by the eminent men of letters like Nora Rossi, George Bernard Shaw and James Thurber. The concepts and ideas hidden between the lines are the areas of profound thoughts. They enable to muster knowledge in creating close knit sentences. The students acquire basics of English language through thought provoked writings. The study of prose also lifts the acumen of students in content writing, critical analysis, copy writing blog writing, business reports and letter writing via e-mail or manual write-ups. Equipping students to ease their communicative ability through the learning of some of the best prose texts authored by the eminent men of letters like Nora Rossi, George Bernard Shaw and James Thurber. The concepts and ideas hidden between the lines are the areas of profound thoughts. They enable to muster knowledge in creating close knit sentences. The	**Module 1- BASICS OF COMMUNICATIVE ENGLISH** An Introduction of the Structures in English Language, Types and Construction of sentences, Usage of Parts of Speech and Linkers, Usage of Idioms and Phrases for Standardizing communication, Accent pronunciation for effective communication - Explicit Comprehensive Exercises, Implicit Comprehensive Exercises, Converting Titles into meaningful passages. **Module 2: FOUNDATIONS OF BUSINESS COMMUNICATION** Dimensions of communication & Direction of communication, Means of communication – Verbal &Non Verbal Communication, Effective Listening, Principles of Effective Communication. **Module 3: ESSENTIALS OF BUSINESS COMMUNICATION** Types of Professional Writing Written Business Communication-	4

			students acquire basics of English language through thought provoked writings. The study of prose also lifts the acumen of students in content writing, critical analysis, copy writing blog writing, business reports and letter writing via e-mail or manual write-ups. **Module 2: POETRY** The study of poetry is envisaged to instil, music, rhythm and flow in the language. Poetry is one of the most powerful vehicles to convey ideas. The students learn the perfect classic touch of John Milton, Romanticism of John Keats and the universality of Alfred Tennyson. Study of English language becomes quite cosy through the study of poems. The students learn the technique of appreciating a given poem. The form—theme—figures of speech—rhyming schemes---meter---parameter of stanzas etc., in the poem delivers a better perception. **Module 3: GRAMMAR** Knowledge of grammar of a particular language elevates the confidence of the speaker. Learning language without linguistics is improper to a student. Through this curriculum the student learns about words---parts of speech---sentences---interchange of sentences---clauses---sentence	Fundamental of Business writing, Format of Business, Types of Business letter, Inquiry letter, complaint letter Persuasive letter, Proposal, Report Writing. Employment Messages Writing Resume, Application letter, Writing the opening paragraph, Writing the closing paragraph, summarizes. **Module 4: COMMUNICATION ESSENTIAL SKILLS** Spoken skills Conducting Presentation, Oral presentation, Debates, Speeches, Interview, Group Discussion, English Pronunciation, Building Vocabulary. Process of Making Effective Presentations - Collaborative Presentations- Online Presentations-Presenting to a Culturally Diverse Audience. **Module 5: COMMUNICATION TECHNOLOGY** Introduction-ClassificationofTechnological ToolsforCommunication–MajorTechnological Tools-Effective Use of Technology for Communication-Communicating Through Social Media - Communicating in Virtual Teams.	

			analysis---synthesis of sentences---using appropriate punctuation and conversion of a given idea into sentences. Students learn the need of attributing tenses with a given situation of talk or write up. **Module 4: FORMAL COMMUNICATION** Formal Communication is the core of business communication. The basic of written language with added pep of grammar enables the student to directly learn formal communication. Formal communication is identical from private correspondence in draft format---dictions used---and lay out. Formal communication include all letters of legal character like the secretarial correspondence---business circulars---replies to the customer's queries--- reply to shareholders---letter to company's solicitors---Letters of complaint and job application are included. Forming newspaper reports is very challenging. Headline---bye line---dateline---condensed paragraph---body---investigative part. **Module 5: INFORMAL COMMUNICATION** The proficiency of the student in outlaying relevant points on a given topic is being taught. Essays, paragraphs, interpretations, comprehensions etc come under this category. Non		

			statutory private reports also fall under this type. Essays---descriptive---Narrative---Argumentative--- and Reflective. Paraphrasing is an informal write up of transcribing a proverb or couplet in the simple English by expanding the central point. The student is taught on Paraphrasing as practice in expression---Paraphrasing as a test---Paraphrasing a verse---Paraphrasing prose.		
2.	I SEMESTER	**Micro Economics** **Managerial Economics**	**Module 1** **Introduction of Micro Economics** Definition and Nature, Scope, Importance and Limitations. Basic Economic Problems, Market forces in solving Economic Problems. **Module 2** **Demand Analysis** Meaning of Demand, Determents of Demand, Law of Demand, Introduction to elasticity of demand, Price Elasticity of Demand, Degree of Price Elasticity of Demand, Measurement of Price elasticity, Income Elasticity of Demand, Kinds of Income Elasticity of Demand. **Module 3** **Supply Analysis** Meaning and Definition, Law of Supply, Factors affecting Supply, Elasticity of Supply, Market Mechanism, Short run Vs. Long run Elasticity's of supply- Price Control	**Module 1** **NATURE AND SCOPE OF BUSINESS ECONOMICS** Nature of Business Economics: Meaning, definitions, nature, scope. Business environment: Internal & External. Business objectives: Economic, Non-Economic. **Module 2** **DEMAND ANALYSIS** Law of diminishing marginal utility: Meaning, Assumptions, Illustration, Exceptions and Uses. Law of demand: Meaning, Demand Function, Exceptions. Determinants of demand. Price elasticity: Meaning, types, Methods of measurement. Factors of determining elasticity demand. Income elasticity, cross elasticity and promotional elasticity. **Module 3**	4

			Module 4 **Cost Analysis** Accounting Costs and Economic Costs, Short Run Cost Analysis - Fixed, Variable, Total Cost Curves, Average and Marginal Costs, Long Run Cost Analysis, The constitutional environment, rationale, and extent of state intervention. **Module 5** **Pricing Under Various Market Conditions** Perfect Competition - Equilibrium of Firm and Industry under Perfect Competition, Monopoly - Price Determination under Monopoly, Monopolistic Competition - Price and Output Determination under Monopolistic Competition.	**SUPPLY COST & REVENUE ANALYSIS** Supply: Meaning, Law of supply, exceptions, determinants. Elasticity of supply: Meaning, types. Cost concepts: Opportunity cost, total cost, variable cost, fixed cost and marginal cost. Cost-output relationships in the short run and long run. Concepts of revenue: Total revenue, average revenue and marginal revenue. **Module 4** **PRODUCTION & REVENUE ANALYSIS** Production analysis: Law of variable proportion and law of returns to scale. Perfect competition: Meaning and features. Monopoly: Meaning, features and price-output determination. Price discrimination: types, price-output determination under discriminating monopoly. Monopolistic competition: Meaning, features and price-output determination under monopolistic competition. Oligopoly: Meaning features and types. Kinked demand curve. **Module 5** **BUSINESS CYCLE ANALYSIS** Business Cycles Analysis: Business Cycles Nature and Phases of a Business Cycle, Game Theory, Information Super Highways, Small-world Model, Theories of Business Cycle – Psychological, Profit, Monetary, Innovation,	

				Cobweb, Samuelson and Hicks Theories.	
3.	I SEMESTER	**Fundamentals of Management**	**MODULE 1** **Introduction:** Definition, Meaning, Nature, Functions, Evolution of Management Thought- Contribution of Fredrick Taylor, Contribution of Henry Fayol. **MODULE 2:** **Planning** Nature, Importance, Process, Types of Plans. Decision making- Meaning, significance, scientific decision-making process, Guidelines for effective decision making. Communication- Process, Types, Barriers of communication, Essentials of Effective communication. **MODULE 3:** **Organising** Principles of organizing, Types of Organization structure, Line organization, Functional Organization, Line and staff organization. Delegation of authority- Barriers to effective delegation- guidelines for making effective delegation. **MODULE 4:** **Staffing** Concept of Staffing, need, Recruitment- Factors, Sources of recruitment, techniques. Selection- Scientific Selection Process. Training and	**MODULE 1:** **INTRODUCTION TO MANAGEMENT** Introduction –Meaning, Evolution Of Management Thought, Pre-Scientific Management Era, Classical Management Era, Neo-Classical Management Era, Modern Management Era; Nature And Characteristics Of Management - Scope And Functional Areas Of Management; Management As A Science, Art Or Profession; Management And Administration; Principles Of Management. **MODULE 2:** **PLANNING & ORGANIZING** Nature, Importance, Process, Types Of Plans. Decision Making- Meaning, Significance, Scientific Decision Making Process, Guidelines For Effective Decision Making. Principles Of Organizing, Types Of Organization Structure, Line Organization, Functional Organization, Line And Staff Organization. Delegation Of Authority- Barriers To Effective Delegation- Guidelines For Making Effective Delegation. **MODULE 3:** **STAFFING** Concept of Staffing, Need, Recruitment- Factors, Sources	4

			Development- Importance, Methods. Performance Appraisal-Objectives, Methods. **MODULE 5:** **Direction and Control** Meaning, Elements. Controlling-Meaning, Importance, Techniques. Motivation- Concept, Importance, Theories- Maslow's Need Hierarchy theory-Herzberg's Hygiene theory- McGregor's Theory X and Y. Leadership Qualities- Leadership Styles.	of Recruitment, Techniques. Selection- Scientific Selection Process. Training and Development- Importance, Methods. **MODULE4:** **DIRECTION, CONTROL AND MANAGEMENT OF CHANGE** Meaning, Elements. Controlling- Meaning, Importance, Techniques. Motivation- Concept, Importance, Theories - Maslow's Need Hierarchy theory- Herzberg's Hygiene theory- McGregor's Theory X and Y. Leadership Qualities- Leadership Styles. Management of Change Concept, nature, process of planned change; Resistance to Change. **MODULE 5:** **BUSINESS SOCIAL RESPONSIBILITY AND MANAGERIAL ETHICS** Business Social Responsibility-Meaning, Arguments for and against Business Social Responsibility; Green management-Meaning ,Green Management Actions; Managerial Ethics – Meaning - Importance of Ethics in Business, Factors that determine Ethical or Unethical behavior.	

4	I SEMESTER	**Organizational Behaviour** **PERSONALITY DEVELOPMENT**	**MODULE 1: Introduction to Organisational Behaviour And Personality:** Introduction- Meaning- Definition- Need and Importance of OB - Historical roots of OB- Nature and Scope of OB- OB Models, S-O-B-C Model. Role of OB in Management of business, Challenges, and opportunities for managers in OB. Personality-Meaning-Definition-Types- factors influencing Personality-Personality Traits-Determinants of Personality-Theories of Personality (Type Theory, Trait Theory, Intrapsychic Theory, Social Learning, and Self Theory) **MODULE 2: Perception, Leadership, and Power:** Meaning- Definition- Factors influencing Perception-Perceptual Process-Attribution- Errors in Perception-Managing perception. Leadership- Meaning-Importance- Leadership Styles-theories of Leadership-leaders Vs managers-Contemporary issues in leadership Power- Definition, types of power- sources of Power-Power Tactics- Power centres. **MODULE 3: Group Dynamics and Attitudes :**	**MODULE 1: INTRODUCTION** Meaning and concept of personality - Dimensions of personality –Theories of Freud & Erickson - Significance of personality development- Concept of success and failure: Hurdles in achieving success-Overcoming hurdles- Factors responsible for success-Failure: Causes of failure-SWOT analysis. **MODULE 2: ATTITUDE & MOTIVATION** Attitude: Concept-Significance-Factors affecting attitudes–Positive attitude - Advantages-Negative Attitude-Disadvantages - Ways to develop positive attitude-Differences between personalities has positive and negative attitude- Motivation: Significance - Internal and External motives – Importance of self-motivation-Factors leading to de-motivation. **MODULE 3: SELF ESTEEM** Term self-esteem - Symptoms - Advantages - Do's and Don’ts to develop positive self-esteem –Low self-esteem -Symptoms-Personality havinglowself-esteem-	4

			Group Dynamics- meaning, features and Importance of Groups- Reasons for formation of group- Types of Groups- group Norms- Group Cohesion. Group Behaviour- Organisation structure. Attitude- meaning, Characteristics- Importance of Attitude in an organization- Components of Attitude- Relationship between Attitude and Behaviour- Barriers to Changing Attitude. **MODULE 4:** **Organisational Culture and Change:** Meaning and nature of Organisational Culture- Functions of Organisational Culture- Types of Culture- Creating and maintaining organizational culture. Organisational Change- Meaning, Definition and Nature of organizational Change, Types of Organisational Change- Kurt Lewin`s three step model- Seven stage model of change- Kotter`s Eight step plan for implementing change- Methods of Implementing Organisational Change. **MODULE 5:** **Practical Component:** 1. Studying organizational structures of any 10 companies and classifying them into different types of organizations which are	Positiveandnegativeself-esteem. Interpersonal Relationships – Defining the difference between aggressive, submissive and assertive behavior–Lateral thinking. **MODULE 4:** **OTHER ASPECTS OF PERSONALITY DEVELOPMENT** Leadership - Qualities of a successful leader - Body language - Problem-solving- ConflictandStressManagement-Decisionmakingskills- Characterbuilding- Teamwork- Timemanagement- Workethics-Good manners and etiquette. **MODULE 5:** **EMPLOYABILITY QUOTIENT** Resume building-The art of participating in Group Discussion– Acing the Personal (HR &Technical) Interview- Frequently asked questions- Psychometric Analysis-Mock interview sessions.	

			studied in Module 2 and justifying why such structures are chosen by those organizations. 2. Preparing the leadership profiles of any 5 business leaders and studying their leadership qualities and behaviours with respects to the trait, behavioural and contingency theories studied. 3. Identifying any five job profiles and listing the various type abilities required for those jobs and also the personality traits/attributes required for the jobs identified.		
5	I SEMESTER	**BUSINESS ACCOUNTING – I** **BUSINESS ACCOUNTING – I**	**MODULE 1:** **Theoretical Framework:** Business Accounting: Nature-scope-limitation- Accounting: Concepts and convention, Accounting standard-significance and importance-IFRS-Needs and procedures, Difference between IAS and AS. **MODULE 2:** **Accounting Process:** Accounting process-Classification of Accounting Transactions and Accounts-Rules of Debit and Credit as Per Double Entry System-Journal Entries- Ledger posting – Subsidiary Books-Cash Book. **MODULE 3:** **Depreciation** :	**MODULE 1:** **INTRODUCTION TO FINANCIAL ACCOUNTING** Introduction– Meaning and Definition–Objectives of Business Accounting–Functions of Accounting–Users of Accounting Information – Limitations of Accounting–Accounting Cycle-Accounting Principles–Accounting - Concepts and convention, Accounting standard - significance and importance- IFRS-Needs and procedures, Difference between IAS and AS – Accounting Standards–objectives- significance of accounting standards. List of Indian Accounting Standards. **MODULE 2:** **ACCOUNTING PROCESS** Accounting process-Classification of Accounting	4

			Deprecation Account- Meaning-Causes- Depreciation V/s Fluctuations, Methods of Depreciation – Problems on Straight line method, written down value method and Annuity Method. **MODULE 4:** **Bank Reconciliation Statement and Rectification of Errors:** Bank Reconciliation: - Meaning, need & importance, preparation & presentation of BRS. Rectification of errors: Classification of errors- before preparing the trial balance after preparing the trial balance and before preparing final accounts. **MODULE 5:** **Final Accounts of Sole Proprietorship :** Final Accounts of sole proprietorship- Preparation of Trading Account, profit and Loss A/C and Balance Sheet (with Basic Adjustments).	Transactions and Accounts- Rules of Debit and Credit as Per Double Entry System- Journal Entries- Ledger posting – Subsidiary Books- Cash Book. **MODULE 3:** **DEPRECIATION** Deprecation Account- Meaning-Causes- Depreciation V/s Fluctuations, Methods of Depreciation – Problems on Straight line method, written down value method and Annuity Method **MODULE 4:** **BANK RECONCILIATION STATEMENT AND RECTIFICATION OF ERRORS** Meaning – Significance – Bank Reconciliation: - Meaning, need & importance, preparation & presentation of BRS. Rectification of errors: Classification of errors- before preparing the trial balance after preparing the trial balance and before preparing final accounts. Bank Reconciliation Statement–Preparation of Bank Reconciliation Statement (Problems on BRS) **MODULE 5:** **FINAL ACCOUNTS OF SOLE PROPRIETORSHIP** Final Accounts of sole proprietorship- Preparation of Trading Account, profit and Loss A/C and Balance Sheet (with Basic Adjustments).	

6	I SEMESTER	**CONSTITUTION OF INDIA & ENVIRONMENTAL STUDIES** **LANGUAGE**	**MODULE 1:** **Introduction** Introduction to the Constitution of India, Nature of the Indian Constitution, Significance of the Indian Constitution, The Making of the Constitution and Salient features of the Constitution, Preamble of the Indian Constitution, Citizenship **MODULE 2:** **Rights and Freedom** Fundamental Rights- Right to Equality, Right to Freedom, Protection of Life and Personal Liberty, Right against Exploitation, Right to Freedom of Religion, Cultural and educational rights and right to Constitutional Remedies. Directive Principles of State Policy & Fundamental Duties, Union Executives – President, Prime Minister and Parliament, State Executives – Governor Chief Minister and State Legislature. **MODULE 3:** **Judicial System:** The Union Judiciary-The supreme court of India, The State Judiciary-The High Court of States. Election Commission of India. The Emergency Provisions and the Amendment of the Constitution. **MODULE 4:** **Introduction to Environment** Environmental Studies-Introduction, Definition,	**Implemented Languages** KANNADA/ HINDI/MALYALAM	3

			Nature, Scope and Importance. Eco System-Concept, Structure, Functions and Components of Eco System. Natural Resources-Forest, Water, Mineral, Food, Energy and Land Resources. **MODULE 5:** **Environmental Issues** Environmental Pollution-Meaning, Definition, Causes, Types: Air Pollution, Water Pollution, Soil Pollution, Marine Pollution, Thermal Pollution and Nuclear hazards. Environmental Issues: Climate Change, Global Warming, Acid Rain, Ozone Layer depletion, Nuclear Accident, Bopal Gas Leakage tragedy and Population Explosion. Legal measures-Environmental Protection Act, Constitutional Provisions and Judicial Remedies.		
7	I SEMESTER	Foundation of IT DIGITAL FLUENCY & EMPLOYABILITY SKILL ENHANCEMENT PROGRAM (ESEP I)	**Information about IT**	**Implemented New subject** **MODULE 1:** **INTRODUCTION TO WINDOWS** Introduction to window - Desktop, icon, task bar, mouse pointer, start button, - Create folders - Copying, moving, renaming and deleting folders - Wall paper setting and screen savers - Working with paint, saving file in folder **MODULE 2:** **MS- OFFICE** Introduction to MS – Office - Part of MS word screen – office button, ribbon, minimize button, maximize button, close button, ruler, status bar, cursor. Typing the text - Saving the file,	2

				creating new file, opening existing file- EXCEL - Power point **MODULE 3:** **INDIAN COMPANY ANALYSIS** How to study secondary reports and publications - independent analysis study - how to write a research paper- citation - publication – IPR	
8	I SEMESTER	Workshop on Indian Company Analysis and Corporate Social Responsibility Health & Wellness – Diet & Nutrition & Emotional Learning	Workshop on Indian Company Analysis and Corporate Social Responsibility	**Implemented New subject** **MODULE 1:** **CONCEPT OF FOOD** Definition of food- food as a source of nutrients; Definition of Health; Dimension of Health – physical, social and mental health; Food – energy giving, body building and protective; Functions of food- physiological, psychological and social; Food pyramid. **MODULE 2:** **BASICS OF NUTRITION** Definition of Nutrition; Group of Nutrients – micro and macro nutrients; Diet – balanced diet, metabolism, malnutrition, under nutrition, over nutrition; Is water a nutrient; Deficiency diseases; Relation between food and nutrition, health and diseases. **MODULE 3:** **EMOTIONAL LEARNING** Emotions - Need for emotions, Brain vs. emotions, components of emotional intelligence, self-awareness - self regulation, self-motivation, empathy, social skills.	2

Sl. No.	Semester	Course & Course -	Present Syllabus	Revised Syllabus	Credits
1.	II SEMESTER	**Business communication- II** **Communicative English II**	**Module 1 PROSE** The following prose lessons authored by the respective writers have been prescribed from the compilation entitled 'College Prose and Poetry'. Voluntary Poverty M.K. Gandhi A Snake in the Grass R.K. Narayan With the Photographer Stephen Leacock **Module 2: POETRY** The following poems penned by the respective poets have been prescribed from the compilation entitled 'Macmillan Prose and Poetry for Colleges'. The Ballad of Father Gilligan W.B. Yeats Anthem for doomed youth Wilfred Owen The Unknown Citizen W.H. Auden **Module 3: GRAMMAR** The following grammar lessons have been prescribed. Transformation of Sentences Synthesis of Sentences Figures of Speech Question Tags **Module 4: FORMAL COMMUNICATIONS** Formal Letter Business Letter Letter of Application Letter to newspaper	**IMPLEMENTED NEW SUBJECT** **Module 1: ART OF COMMUNICATION** Receptive Skills: Reading & Speaking Skills - Definition, need and importance - understanding and demo exercises with activities on reading and speaking skills. **Module 2: VOCABULARY BUILDING** Reading for vocabulary building –synonyms, antonyms, homophones, homonyms, suffixes, prefixes, collocations, words often confused. - Reading passages on specific fields for vocabulary building. **Module 3: LISTENING SKILLS** Barriers for effective listening - Types of Listening - Techniques to improve listening skills. - Listening to pre-recorded audios, movies and other listening activities. **Module 4: PRODUCTIVE SKILLS** Productive Skills: Writing Skills- Drafting Brochure Drafting Leaflet B. Drafting Invitations - Reported Speech - Report drafting –	4

			Bibliography **Module 5: INFORMAL COMMUNICATIONS** Dialogue Writing Autobiography of Inanimate Objects	communicating information downwards - Barriers and how to overcome noise in communication **Module 5: NON- VERBAL COMMUNICATION** Verbal Communication and Non-verbal communication - Summarizing - Speech Writing - Essay Writing - Body Language - Acceptable movements and non verbal communication etiquettes.	
2.	II SEMESTER	**Marco Economics** **Introduction to Stock Markets (oec-1)**	**Module 1: Introduction to Macroeconomics** Definition and Nature, Scope, Importance and Limitations, Types of macroeconomics, Static and dynamic analysis of Macroeconomics, Macroeconomics and business environment. **Module 2: Theories of National Income Determination** Keynes Theory of employment, Consumption Function, Investment Function, Concept of Unemployment, Circular flow of Money. **Module 3: Macro-Economic Environment** Inflation: Meaning, Types, Cause, Effects, Deflation: Meaning and Effects, Financial Market and Types, Business Cycles: Concept, Features, Phases and Effects. **Module 4: Public Finance**	**IMPLEMENTED NEW SUBJECT** **Module 1 BASICS OF INVESTING** Basics of Investment & Investment Environment. Risk and Return, Avenues of Investment- Equity shares, Preference shares, Bonds &Debentures, Insurance Schemes, Mutual Funds Index Funds. Indian Security Markets –Primary Market, Secondary Market and Derivative Market. Responsible Investment. **Module 2: FUNDAMENTAL ANALYSIS** Top down and bottom up approaches, Analysis of international &domestic economic scenario, Industry analysis, Company analysis (Quality of management, financial analysis: Both Annual and Quarterly, Income statement analysis,	

			Meaning of Public Finance, Sources of Revenue: Tax Revenue and Non-Tax Revenue, Public Expenditure: Meaning, Classification and Causes, Public Debt: Concept, Importance and Types **Module 5: India and World Economy** Introduction to India and world Economy, Globalization: Meaning, arguments for and against. Steps in Globalisation, GATT, WTO: Introduction, Objectives, structure and Functions, Impact of WTO on Indian Economy, Make in India Campaign (Introduction)	position statement analysis including key financial ratios, Cash flow statement analysis, Industry market ratios: PE, PEG, Price over sales, Price overbook value, EVA), Understanding Shareholding pattern of the company **Module 3 : TECHNICAL ANALYSIS** Trading rules (credit balance theory, confidence index, filter rules, market breath, advances vs declines and charting (use of historic prices, simple moving average and MACD) basic and advanced interactive charts. Do's & Don'ts of investing in markets. **Module 4: INDIAN STOCK MARKET** Market Participants: Stock Broker, Investor, Depositories, Clearing House, Stock Exchanges. Role of stock exchange, Stock exchanges in India- BSE, NSE and MCX. Security Market Indices: Nifty, Sensex and Sectoral indices, Sources of financial information. Trading in securities: Demat trading, types of orders, using brokerage and analyst Recommendations. **Module 5: INVESTING IN MUTUAL FUNDS** Concept and background on Mutual Funds: Advantages,	

				Disadvantages of investing in Mutual Funds, Types of Mutual funds- Open ended, close ended, equity, debt, hybrid, index funds and money market funds. Factors affecting choice of mutual funds. CRISIL mutual fund ranking And its usage, calculation and use of Net Asset Value.	
3.	II SEMESTER	**Human Resource Management** **Human Resource Management**	**MODULE 1: INTRODUCTION TO HUMAN RESOURCE MANGEMENT** Definition, Meaning of Human Resource Management, Features, Objectives, Scope , Evolution of HRM, Functions – Managerial – Operative, Role of the HR Manager , Qualities of Human Resource Manager. **MODULE 2: JOB ANALYSIS AND HUMAN RESOURCE PLANNING** Job Analysis –Meaning, Job Description- Job specification, Job Design- Techniques, HRP- Meaning, Definition, Objectives, Importance of HRP, Process of HRP, Steps to make HRP Effective. **MODULE 3: RECRUITMENT AND SELECTION** Recruitment – Definition, Meaning, Objectives, Factors affecting Recruitment Sources of Recruitment, Selection- Meaning, Essentials,	**IMPLEMENTED NEW SYLLABUS** **MODULE 1: INTRODUCTION TO HUMAN RESOURCE MANAGEMENT** Meaning and Definition of HRM–Features Objectives, Differences between Human Resource Management and Personnel Management, Importance, Functions and Process of HRM, Role of HR Manager, Trends influencing HR practices. **Module No.2: HUMAN RESOURCE PLANNING, RECRUITMENT & SELECTION** **Human Resource Planning**: Meaning and Importance of Human Resource Planning, Process of HRP **HR Demand Forecasting-** Meaning and Techniques (Meanings Only) and HR supply forecasting. **Succession Planning**– Meaning and Features	4

			Scientific Selection Process, Placement, Induction. **MODULE 4: ABSENTEESIM AND LABOUR TURNOVER** Concept of Absenteeism- Meaning, Causes, Effects, Measures to Reduce Absenteeism. Labour Turnover – Meaning, Causes, Effects, Measures to Reduce Labour Turnover. **MODULE 5: WAGE AND ADMINISTRATION** Compensation Administration- Meaning, Objectives, Factors Influencing wage and salary levels, Methods of Wage Payment-Time Wage Payment, Piece Wage Payment, Concept of Minimum Wages, Fair Wages and Living Wages, Fringe Benefits	**Job Analysis**: Meaning and Uses of Job Analysis, Process of Job Analysis – Job Description, Job Specification**,** Job Enlargement, Job Rotation, Job Enrichment (Meanings Only) **Recruitment**–Meaning, Methods of Recruitment, Factors affecting Recruitment, Sources of Recruitment **Selection**–Meaning,StepsinSelectionProcess,PsychometrictestsforSelection,Barrierstoeffective Selection, Making Selection effective; Placement, Gasification–Meaning and Features. **MODULE 3: INDUCTION, TRAINING AND COMPENSATION** **Induction:** Meaning, Objectives and Purpose of Induction, Problems faced during Induction, Induction Program Planning. **Training**: Need for training, Benefits of training, Assessment of Training Needs and Methods of Training and Development; Kirkpatrick Model; Career Development. **Compensation:** Direct and Indirect forms of Compensation (Meaning Only), Compensation Structure. **MODULE4:**	

				PERFORMANCEAPPRAISAL, PROMOTION & TRANSFERS **Performance appraisal:** Meaning and Definition, Objectives and Methods of Performance Appraisal–Uses and Limitations of Performance Appraisal, Process of Performance Appraisal **Promotion**: Meaning and Definition of Promotion, Purpose of Promotion, Basis of Promotion **MODULE 5: EMPLOYEE ENGAGEMENT AND PSYCHOLOGICAL CONTRACT** **Employee Engagement (EE)**: Meaning and Types of EE, Drivers of Engagement-Measurement of EE, Benefits of EE. **Psychological contract** :Meaning and features	
4	II SEMESTER	**Marketing Management** **Marketing Management**	**MODULE 1: INTRODUCTION TO MARKETING MANAGEMENT** Marketing- Meaning & Definition- Importance & Functions, Concepts of Marketing -Traditional & Modern Concepts, Marketing Management- Meaning, Definition, Importance, Recent trends in Modern Marketing-Electronic Marketing, Social Marketing, Tele-Marketing,	**IMPLEMENTED NEW SYLLABUS** **Module No.1: MARKETING** Meaning and Importance, process, - understanding the market place and customer needs. Designing the customer driven marketing strategy, Market orientation- product concept, selling concept, Marketing concept, societal marketing concept, Holistic	4

			Viral Marketing, Sustainable Marketing, Relationship Marketing, Customer Relationship Marketing (CRM), & Niche Marketing (Meaning Only), Green Marketing-Meaning, Definition, Benefits, Challenges in Going Green. **MODULE 2: MARKETING MIX** Product-Meaning, Product planning-Meaning, Product Mix-Meaning, Product line-Meaning, Branding- Meaning, Functions, Advantages & Classification, Packaging- Meaning & Functions, Labelling-Meaning, Product life cycle- Meaning, Stages & its Strategies, New Product development-Process/Stages, Failure of New Products and its reasons, Pricing-Meaning, Importance, Methods/Types of Pricing (Meaning Only), Distribution-Meaning & definition of channels of distribution & Types of channels, Promotion-Personnel selling, Advertising, Publicity, Public relation (Meaning only), Extended 7 Ps-People, Processes, Physical Evidence (Meaning Only). **MODULE 3: MARKETING SEGMENTATION & CONSUMER BEHAVIOUR** Marketing segmentation: Meaning, Importance, Bases of Market segmentation, Market Targeting-Concentrated, Differentiated & Undifferentiated.	marketing concept. Relationship marketing, Integrated marketing, Internal marketing, - performance marketing (Meaning and significance only) **Module No.2: MARKET SEGMENTATION AND CONSUMER BEHAVIOUR:** Meaning and importance of market segmentation- bases for segmentation- target marketing strategies. – Meaning and importance of consumer behaviour analysis-Buying motives –classification of buying motives- Rational, Inherent Learned, Emotional and patronage- Factors influencing consumer behaviour. - Buying decision process. **Module No. 3: PRODUCT MANAGEMENT:** Product concept – meaning and definition. Product mix decision strategies. Product-Life cycle- meaning and definition- stages of PLC. Factors affecting PLC. New product development - meaning - stages in new product development. Reasons for failure of new products. BIS and AGMARK–meaning and features. FSSAI mark- meaning (Explain this chapter with case study).	

			Consumer Behaviour: Meaning, Definition, Importance, Factors affecting consumer behaviour. **MODULE 4: SERVICE AND RURAL MARKETING** Meaning, Characteristics, Distinction between Marketing of Product & Service, Classification of services (Consumer & Industrial), Rural Marketing: Meaning, significance, Distinction between Rural markets & urban markets, Problems of Rural Marketing. **MODULE 5: SKILL DEVELOPMENT** 1. Conduct an informal Interview of a local retail store owner & Determine what demographic & socio-economic segments the store appears to satisfy. How did the owner select this segment or segments? 2. Real time Analysis of Product Life Cycle. 3. Marketing Exhibitions by Students. 4. Case Studies	**Module No. 4: ADVERTISING AND PERSONAL SELLING** Role of Advertising in Brand building. Media selection - considerations in media selection. New media of Advertising (Online Advertising and Mobile advertising). Advertising copy-Types AIDA and DAGMAR.-Ethics in advertising. Personal selling – an outlet for communicating and delivering value. Nature, significance and scope of personal selling. Role of sales person - Diagnostic, analyst, information provider, strategist, tactician and catalyst. (Explain this chapter with case study). **Module No. 5: NEW HORIZONS IN MARKETING:** **Direct marketing:** Nature scope and advantages-requisites for the success of direct marketing. Forms of direct marketing - database marketing- Tele marketing-Tele shopping - Multi level marketing.(Relevance and significance) **Online and Digital marketing:** Introduction and meaning. Benefits of online marketing to sellers and consumers. Limitations of online marketing. Problems of online marketing in India (Legal , Infrastructural , Commercial and other problems)Digital marketing-concept -role of digital	

				marketing in India **Green-marketing:** Meaning – importance –Fundamental requirements – problems of green marketing. (Explain this chapter with case study)	
5.	II SEMESTER	**Managerial Mathematics and statistics**	**MODULE 1: Assessment of Business Choices:** Meaning and Types of Matrices. Matrix Algebra: Transpose of a matrix, Matrix addition, Matrix subtraction, Scalar multiplication, Matrix multiplication. Inverse of a Matrix. Solving Simultaneous Equations by Matrix Method, Solving Simultaneous Equations by Cramer's Rule: two variables and three variables. **MODULE 2: Arithmetic for Management of Business and Transactions with Banks** Trade Discount and Cash Discount, Simple Interest and Compound Interest. True Discount, Bankers Discount and Bankers Gain **MODULE 3: Introduction to Statistics** Introduction, Application of statistics, scope. Collection of: primary and secondary data, Methods of collection. Presentation of data: Mode of presentation of data, Frequency distribution, Graphic representation of data. **MODULE 4: Quantitative Tools used in Business and Risk Management**	**IMPLEMENTED LANGUAGES** **KANNADA/HINDI/MALAYALAM**	3

			Averages: Meaning and Importance, Arithmetic Mean, Median and Mode: Definition, computation by Direct Method, Deviation Method, Step Deviation Method, Measures of dispersion Range-Quartile deviation- Mean deviation, Standard Deviation: Definition, computation by Direct Method, Deviation method, Step deviation method Co-efficient of Variation **MODULE 5: Business Variables through Correlation and Regression** Introduction, Correlation analysis, Measures of correlation: Scatter diagram, Karl Pearson's Co-efficient of Correlation. Spearman's Rank Correlation. Meaning of Regression Analysis, Regression Lines and Equations.		
6	II SEMESTER	**Accounting using Tally** **Environmental studies & sdg's**	**Accounting using Tally**	**IMPLEMENTED NEW SUBJECT** **Module No.1: INTRODUCTION TO ENVIRONMENT** Environmental Studies- Introduction, Definition, Nature, Scope and Importance. Eco System- Concept, Structure, Functions and Components of Eco System. Natural Resources- Forest, Water, Mineral, Food, Energy and Land Resources.	2

				Module No.2: ENVIRONMENTAL ISSUES Environmental Pollution- Meaning, Definition, Causes, Types: Air Pollution, Water Pollution, Soil Pollution, Marine Pollution, Thermal Pollution and Nuclear hazards. Environmental Issues: Climate Change, Global Warming, Acid Rain, Ozone Layer depletion, Nuclear Accident, Bopal Gas Leakage tragedy and Population Explosion. Legal measures- Environmental Protection Act, Constitutional Provisions and Judicial Remedie **Module No. 3: UNITED NATIONS SUSTAINABLE DEVELOPMENT GOALS 2030** SDG's 2030 **Skill Developments Activities:** 1. Spreading and activity-based learning on environmental conservation. Once activity to be taken up on any one of the 17 SDG's.	
7	II SEMESTER	**Soft skill training and International Company Analysis** **Physical Education-Sports/NSS/ R&R(S&G)/ Cultural (SEC)**	**Soft skill training and International Company Analysis**	**Physical Education-Sports/NSS/R&R(S&G)/Cultural (SEC)**	2

Sl. No.	Semester	Course & Course code	Present Syllabus	Revised Syllabus	Credits
1.	III SEMESTER	**CORPORATE ACCOUNTING**	**UNIT I: COMPANY ACCOUNTS** Redemption of preference shares –legal requirement- Accounting treatment. Redemption of debentures (Sinking Fund Method only) legal requirement- Accounting treatment **UNIT II: VALUATION OF SHARES** Need for valuation of shares- Methods of valuation of shares- Intrinsic value method, Market value method and Fair Value method (Simple problems) **UNIT III: FINAL ACCOUNTS OF COMPANIES** Meaning- preparation of Profit and loss account and Balance sheet of Joint Stock Companies **UNIT IV: FINAL ACCOUNTS OF ELECTRICITY COMPANIES** Preparation of Revenue account, Net Revenue account, capital accounts and balance sheet of Electricity companies **UNIT V: FINAL ACCOUNTS OF BANKING COMPANIES** Meaning- Important terms- Rebate on Bill Discount- Accounting	**Module No 1: VALUATION OF SHARES** Meaning of Valuation of Shares, Need for Valuation of Shares, Problems on Methods of Valuation of Shares: Assets Backing Method or Net Assets Method or Balance Sheet Method or Intrinsic Value Method, Yield Method or Dividend Yield Method or Market Value On Dividend Yield Method, Earning Capacity Method. **Module No 2: VALUATION OF GOODWILL** Definition and Meaning of Goodwill, Characteristics or Features of Goodwill, Factors that should be taken into account in the valuation of goodwill, Problems on Methods of Valuation of Goodwill: Average profits Methods or Simple Profits Method, Super Profits method **Module No 3: HOLDING COMPANIES** Introduction and Meaning of Holding Companies, Problems on Holding company with single subsidiary only **Module No 4: FIRE INSURANCE CLAIMS** Introduction- Meaning- Problems on Loss of Stock only **Module No 5: FINAL ACCOUNTS OF ELECTRICITY COMPANY**	4

			treatment with relevant Schedules.	Introduction- Meaning- Objective- Revenue Account- Net Revenue Account- Capital Account- General Balance sheet.	
	III SEMESTER III SEMESTER	**PRODUCT & BRAND MANAGEMENT** **RETAIL MANAGEMENT**	**UNIT I: PRODUCT MANAGEMENT** Introduction to Product Management, Marketing mix and product mix, the changing dimensions, Product and growth strategies, managing line extension, assessing new competition and strategic response. **UNIT II: MARKET PLANNING** Introduction to Market Planning, components to market planning and competition defined, Competition based and study of competitor, Competitor analysis, customer analysis, market potential and sales forecasting **UNIT III: BRANDING** Introduction of Branding, Concept of Branding, Definition of Brand, Brand name, Image, Identity and leverage, Brand creation and Brand building. **UNIT IV: BRAND IMAGE AND BRAND POSITIONING** Brand image, Dimension of brand image, brand association, corporate image, Brand identity,	**Module No 1: INTRODUCTION TO RETAILING AND RETAIL CONSUMER** Retailing: Definition, Concept of Retailing, Functions of Retailing, Retail formats and types, Importance of Retailing, Retailing Channels, Retail Industry in India - Retail Consumer: Retail consumer behaviour, Factors influencing the Retail consumer, Customer decision making process, Types of decision making, Market research for understanding Retail consumer **Module No 2: RETAIL MARKET SEGMENTATION AND STRATEGIES** Market Segmentation and its benefits, Kinds of markets, Definition of Retail strategy, Strategy for effective, Market Segmentation, Strategies for penetration of new markets, Growth strategies, Retail value chain **Module No 3: RETAIL LOCATION SELECTION AND MERCHANDISE MANAGEMENT** **Retail Location**: Importance of Retail locations, Types of Retail locations, Factors determining the location decision, Steps	4

			composition of brand identity. brand personality. **UNIT V: BRAND POSITIONING AND BRAND EQUITY** Brand positioning introduction, meaning, evaluation and choice of positioning and Brand equity objective, introduction and consequents of brand equity.	involved in choosing a retail location, Measurement of success of location **Merchandise Management:** Meaning of Merchandising, Factors influencing Merchandising, Functions of Merchandising Manager, Merchandise planning, Merchandise buying, Analyzing Merchandise performance **Module No 4: RETAIL OPERATIONS AND RETAIL PRICING** Store administration, Premises management, Inventory Management, Store Management, Receipt Management, Customer service, Retail Pricing, Factors influencing retail prices-Pricing strategies, controlling costs. **Module No 5: RETAIL SPACE MANAGEMENT AND MARKETINGANDEMERGING TRENDS IN RETAILING** **Retail Space Management and Marketing:** Definition of Space Management, Store layout and Design, Visual Merchandising, Promotions Strategy, Relationship Marketing Strategies, CRM, Retail Marketing Mix, Retail Communication Mix, POP Displays.	

	III SEMESTER III SEMESTER	**PRODUCTION AND OPERATIONS MANAGEMENT** **Professional Communication I (AEC)**	**UNIT I: PRODUCTION FUNCTION** An introduction, Historical background of Modern Industry, definition and types of Production systems. Organizational structure and its interaction with other functional departments. The role of operations manager. An introduction to production planning and control. **UNIT II: FACILITY PLANNING** Facilities location decisions, factors affecting facility location decisions and their relative importance for different types of facilities, Facility layout planning. Layout and its objectives for manufacturing operations, warehouse operations, service operations, and office operations, types of plant layouts. Factors influencing layout changes. **UNIT III: MATERIAL REQUIREMENT PLANNING** Dependent inventory models, MRP structure, benefits of MRP. Maintenance Management: Maintenance concept, preventive maintenance, maintaining system reliability. **UNIT IV: JUST-IN-TIME**	**Module No.1: ADVANCED ART OF COMMUNICATION** Communication - definition – meaning – elements - basics of communication - communication process - importance of communication - the seven Cs of communication completeness - conciseness – consideration – concreteness – clarity courtesy and correctness-Barriers to communication - sender-centric – receiver-centric and organizational – socio-cultural - information overload - overcoming communication barriers- **PUBLIC RELATIONS (PR)** Meaning and Need, Significance and Objectives. Image Building - Soft Skills, Personal Skills, Sales skills, Self-Organizing. Handling Rhetoric's Press and Media Briefing, Significance of Press and media, Media and Press Communication essentials, Skills Required. Legal aspects of communication - Need and Significance Practical Scenarios and Cases - Use of mass media for PR, TRP, Coverage, Publicity. Do's and Do nots in PR **Module No. 2: ORAL VERBAL INTERVIEWS AND PRESENTATIONS** Interview Basics and Introduction, Foundations, Mock Interview or Pre-employment testing-Types of	4

			Introduction, Characteristics of JIT, Key Processes to Eliminate Waste, Implementation of JIT, Pre-requisites for implementation, JIT Inventory and inventory management **UNIT V: TOTAL QUALITY MANAGEMENT** Meaning and Dimensions of Quality, Quality Control Techniques, Quality Based Strategy, Total Quality Management (TQM), Towards TQM –ISO 9000 as a Platform – Working with Intranet, Total Productive Maintenance (TPM)	Interviews - Disciplined interviews - Performance Appraisal interviews - Exit interviews -Giving Opinions - Definitions, Importance and features. Professional Discussions, Conflict Resolutions and Negotiations - Significance and Need, Types of Negotiation Strategies - Managing Stage Presentations. Audio-Visual Mediums in communications - Meaning, Significance and Need. ICT (Information & Communication Technologies) in Presentations - Microphones, Pocket Microphones, Amplifier and Sound Systems, LCD Projectors, remote controls, earphones and headphones, walkie-talkie, conference call telephones and screens **Module No. 3: COMPREHENSION AND FREE WRITING** Reading – comprehension-pre-reading-post reading-comprehension questions (multiple choice questions and /or short questions/ open-ended questions)-inductive reading-short narratives and descriptions from newspapers including dialogues and conversations-Paragraph writing- free writing, short narrative descriptions using some suggested vocabulary and structures -prepositions, conjunctions Vocabulary development- guessing meanings of words in context. **PROFESSIONAL MEETINGS AND INTERACTIONS**	

				Meetings (Face to Face and Group) - Need and Significance, Types and Kinds of Meetings-Communicating Minutes and Agenda, Extempore - Meaning, need and significance, Steps in delivery. Oral Commentaries and Narrations, Telephone Conversation Etiquettes - Tone, posture, voice modulation, phone messages, voice mails and calls-Understanding and Importance of Hotlines, Video-Conferencing - Meaning, need and importance, etiquettes, technicalities. Giving introductory welcome and concluding valedictory address.	
	III SEMESTER III SEMESTER	**MANAGEMENT INFORMATION SYSTEMS** **PRODUCT & BRAND MANAGEMENT**	**UNIT I: THE MEANING AND ROLE OF MIS** What is MIS? Decision support systems, systems approach, the systems view of business, MIS Organization within the company. Management Organizational theory and the systems approach: Development of organization theory, management and organizational behaviour. **UNIT II: DATABASE MANAGEMENT** What the Manager Should Know about Computer Systems: Data processing and the computer, Operation of a manual Information System,	**UNIT I: PRODUCT MANAGEMENT** Introduction to Product Management, Marketing mix and product mix, the changing dimensions, Product and growth strategies, managing line extension, assessing new competition and strategic response. **UNIT II: MARKET PLANNING** Introduction to Market Planning, components to market planning and competition defined, Competition based and study of competitor, Competitor analysis, customer analysis, market potential and sales forecasting **UNIT III: BRANDING**	2

			Components of a computer system, Conversion of manual to computer-based system. Database Management: The business settings, Objects of DBMS, Database Technical overview **UNIT III: INFORMATION SYSTEMS FOR DECISION MAKING** Evolution of an information system, Basic Information Systems, decision making and MIS, MIS as a technique for making programmed decisions, decision assisting information systems. Strategic and project planning for MIS: General business planning, appropriate MIS response. **UNIT IV: CONCEPTUAL SYSTEM DESIGN** Define the problems, set system objectives, establish system constraints, determine information needs, determine information sources, develop alternative conceptual designs and select one, document the system concept **UNIT V: IMPLEMENTATION, EVALUATION AND MAINTENANCE OF THE MIS**	Introduction of Branding, Concept of Branding, Definition of Brand, Brand name, Image, Identity and leverage, Brand creation and Brand building. **BRAND IMAGE AND BRAND POSITIONING** Brand image, Dimension of brand image, brand association, corporate image, Brand identity, composition of brand identity. brand personality. **BRAND POSITIONING AND BRAND EQUITY** Brand positioning introduction, meaning, evaluation and choice of positioning and Brand equity objective, introduction and consequents of brand equity.	

			Plan the implementation, acquire floor space and plan space layouts, organize for implementation, develop procedures for implementation, train and operating personnel, computer related acquisitions, develop forms for data collection and information, dissemination, develop the files, test the system, cut over, document the system, evaluate the MIS, control and maintain the system.		
	III SEMESTER	**Cyber Law and Security Analysis** **INDIAN CONSTITUTION**		**Module No 1: INDIAN CONSTITUTION** Government of India Act of 1935 and Indian Independence Act of 1947- Composition of the Constituent Assembly- Composition of the Constituent Assembly- Various Committees of the Constituent Assembly. **INDIAN FEDERALISM** Meaning and Definition of Federalism- Structure and Features of Indian Federalism- Structure and Features of Indian Federalism- Difference between federal and unitary features- Critical Evaluation of the Indian Federal System- Decentralization of Powers **Module No 2: UNION GOVERNMENT** Powers of Indian Parliament- Functions of Rajya Sabha- Functions of Lok Sabha- Powers and Functions of the	2

				President- Comparison of powers of Indian President with the United States- Powers and Functions of the Prime Minister **Module No 3: CHALLENGES TO INDIAN POLITICAL SYSTEM** **CASTE:** A General Overview of the Indian Scenario- The caste issues in the Pre-independence period, Gandhi Ambedkar Debate and the Poona Pact- The Politics of Caste in the post-Independence period, -Mandal Commission report and the subsequent reservation policy in government jobs- The History of Communalism in India, The Pre-Independence period to 1947. **INDIA'S EXTERNAL RELATIONS** **Cold War and Post-Cold War era:** -What is Foreign Policy - Basic Determinates of Foreign Policy- 5.2-Indian and its Neighbours- India's Extended Neighbourhood in West Asia and South East Asia- India's relations with the United States and Russia- India and the World Organisations.	
	III SEMESTER	**Leadership Attitude and Industry Analysis** **BUSINESS ETIQUETTE &**		**Module No.1: BUSINESSE TIQUETTE BASICS** Understanding business etiquette, Minimum standards required by etiquette practice, Example of organizational culture, Knowledge and appreciation of courtesy and good manners at work.	2

		CORPORATE GROOMING		**MODULE NO2: BODY LANGUAGE & MANNERISMS** The importance of how to behave in a professional manner - body language & mannerisms, Meeting protocol, preparation and attendance, Chairing and setting out a meeting agenda, Example of an agenda, Example of minutes from a meeting -Appreciate the issues involved with regard to disability in the workplace, General disability etiquette. **Module No3: EFFECTIVE WRITING&– BUSINESSCORRESPONDENCE** Meaning and objectives of written communication, Business Letter: Essentials of a business letter, layout and parts of a business letter, Report writing – Process of writing, Types of reports, graphical representation of data and interpretation -Trade communication - Trade enquiries, quotations, tenders, placing orders, complaints, claims and adjustments and follow-up, Sales Letters, circular letters, banking and insurance communication. Email writing	

Sl. No.	Semester	Course & Course	Present Syllabus	Revised Syllabus	Credits
1	IV SEMESTER	E-BUSINESS MACRO ECONOMICS	Module-1 **UNIT I: E-BUSINESS FRAMEWORK** Definition, Origin, History of Internet, Working of E-Business, Advantages and Disadvantages, E-Business v/s Traditional Business Mechanism, E-Business opportunities for Business, Goal of E-Business. **UNIT II: E-BUSINESS TECHNOLOGY AND INFRASTRUCTURE** Economic Theories of E-Business, Business -to-consumer (B2C) systems and strategies, Business- to-Business (B2B) models and strategies, Implication of E-Business strategies, Business Applications: Consumer-oriented and Business-oriented E-Business. **UNIT III: E-BUSINESS PAYMENTS** Introduction to Electronic Payment Systems(EPS),	Implemented new subjects **MODULE I: INTRODUCTION TO MACROECONOMICS** Definition and Nature- Scope, Importance and Limitations- Types of macroeconomics - Static and dynamic analysis of Macroeconomics- Macroeconomics and business environment. **MODULE II: THEORIES OF NATIONAL INCOME DETERMINATION** Keynes Theory of employment, Consumption Function, Investment Function, Concept of Unemployment, Circular flow of Money. **MODULE III: MACRO ECONOMIC ENVIRONMENT** Inflation: Meaning, Types, Cause, Effects, Deflation:	4

			Types of E-Payments: Credit Cards Smart cards, E-Cash/ Cyber cash, E-cheque, Micro Payment Systems, Characteristics of Electronic Payment systems, Need of EPS System. **UNIT IV: INTERNET ENVIRONMENT OF E-COMMERCE** Introduction, E-Commerce Security Environment, Security concerns, Types of security vulnerabilities in E-Business, Internet Economy Conceptual Framework, Providers and Vendors of E-Business Software. **UNIT V: E-COMMERCE IN INDIA** State of e-business in India, problems and opportunities in e-commerce in India, legal issues and Challenges in Indian Perspective, Role of e- business in India Scope and future of e-business, Impact of e-business on market and retailers and its social impact	Meaning and Effects, Financial Market and Types, Business Cycles: Concept, Features, Phases and Effects. **MODULE IV: PUBLIC FINANCE** Meaning of Public Finance, Sources of Revenue: Tax Revenue and Non-Tax Revenue, Public Expenditure: Meaning, Classification and Causes, Public Debt: Concept, Importance and Types. **MODULE V: INDIA AND WORLD ECONOMY** Introduction to India and world Economy, Globalization: Meaning, arguments for and against. Steps in Globalisation, GATT, WTO: Introduction, Objectives, structure and Functions, Impact of WTO on Indian Economy, Make in India Campaign (Introduction).	
2	IV SEMESTER	**GLOBAL BUSINESS MANAGEMENT**	**UNIT I: GLOBALIZATION** Emerging global economy-Globalization of production-Drivers of Globalization, advantages and disadvantages of Globalization-	Implemented new subjects **Module No.1: ART OF PROFESSIONAL COMMUNICATION**	3

		PROFESSIONAL COMMUNICATION II	Globalization: policy Issues, Measures towards Globalization, Technology and Global competitiveness. **UNIT II: INTERNATIONAL TRADE AND PAYMENTS** Government influence on international Trade- Foreign Trade Policy- Counter Trade, Global Sourcing- Theories of International Trade- Mercantilism, Theory of Absolute cost advantage, Comparative Cost Advantage Theory, Product Life Cycle theory, global Strategic Rivalry Theory and Porter`s national competitive advantage theory.Balance of payment- Meaning. **UNIT III: MULTILATERAL REGULATIONS AND FOREIGN TRADE PROCEDURES** General Agreement on Tariff and Trade (GATT) - Establishment of WTO- Organization structure of WTO, Uruguay round package. United Nations Conference on trade and Development (UNCTAD), Export Procedures- Import Procedures. **UNIT IV: TRADE BLOCKS AND BUSINESS CENTRES**	Receptive Skills: Reading Skills and Listening Skills; Academic reading, Reference materials, editorials and Brochures; Job-Oriented reading – Applications, Emails, Memos. **ADVANCED COMMUNICATIVE VOCABULARY** Listening to Job Interviews and Conversations; Comprehensive Listening; Listening Principles; Reported Speech **Module No.2: PRODUCTIVE SKILLS** Slogan Writing and Caption Writing; drafting leaflet; drafting invitations; Requests, offering help Congratulating, Enquiries and Seeking permission. Definition, Meaning and Goals of Presentation; Some Useful Expressions while Making Presentations – Opening Remarks, Stating Purposes, Giving an Outline, Giving Preliminary Information and Starting with a Context, Emphasizing Important Points, Drawing Attention to Visuals, Making Recommendation, Keeping Audience Involved, Summarizing and Concluding, Inviting Questions; Presentation in	

			Economic integration- European Union- North American Free Trade Agreement(NAFTA)- The Association of South-East Asian Nations(ASEAN)- European Free Trade Association- South Asian Association for regional cooperation(SAARC) **UNIT V: CONFLICTS, NEGOTIATIONS, CONTROLLING AND EVALUATION OF INTERNATIONAL BUSINESS** Introduction- Factors causing Conflicts- Conflict between Host Country and Transnational Company- Negotiations- Role of International agencies in Conflict Resolution. Control of MNCs.	Practice - Making Welcome Speech, Introducing Guests to Audience, Making Farewell Speech, Proposing Vote of Thanks. **Module No. 3: BOOK READING & REVIEW SKILLS** Go Kiss the World – Subrato Bagchi; You Can Win – Shiv Khera	
3	IV SEMESTER	**RETAIL MANAGEMENT** **BUSINESS INFORMATION**	**UNIT I: INTRODUCTION TO RETAILING AND RETAIL CONSUMER** Retailing: Definition, Concept of Retailing, Functions of Retailing, Retail formats and types, Importance of Retailing, Retailing Channels, Retail Industry in India - Retail Consumer: Retail consumer behaviour, Factors influencing the Retail consumer, Customer decision making process, Types of decision making,	Implemented new subjects **Module No.1: INTRODUCTION TO BUSINESS INFORMATION TECHNOLOGY** Importance and use of technology in business, Purpose, components and issues of business information system Factors influence information system selection,	3

		TECHNOLOGY	Market research for understanding Retail consumer **UNIT II: RETAIL MARKET SEGMENTATION AND STRATEGIES** Market Segmentation and its benefits, Kinds of markets, Definition of Retail strategy, Strategy for effective Market Segmentation, Strategies for penetration of New markets, Growth strategies, Retail value chain. **UNIT III: RETAIL LOCATION SELECTION AND MERCHANDISE MANAGEMENT:** **Retail Location**: Importance of Retail locations, Types of Retail locations, Factors determining the location decision, Steps involved in choosing a retail location, Measurement of success of location- **Merchandise Management:** Meaning of Merchandising, Factors influencing Merchandising, Functions of Merchandising Manager, Merchandise planning, Merchandise buying, Analyzing Merchandise performance. **UNIT IV: RETAIL OPERATIONS AND RETAIL PRICING** Store administration, Premises management, Inventory Management, Store Management, Receipt	Role of information technology in modern business Information and communication technology in business-role, devices, importance. **Module No.2: FUNCTIONAL AND ENTERPRISE SYSTEMS** Management information systems, Types of operating systems - Functional and cross functional systems, organizational sub systems, Transactional processing information systems Accounting and finance systems Marketing and sales system- production and operation management systems HRM systems- E-CRM. **Module No. 3: INTRODUCTION TO E-BUSINESS** Nature and scope of E commerce, Global E-commerce, Electronic business, E-commerce models, Types of E-commerce, Evolution of world wide web (www), Role of Website in Ecommerce, E-mail etiquette and E-mail security.	

			Management, Customer service, Retail Pricing, Factors influencing retail prices-Pricing strategies, controlling costs. **UNIT V: RETAIL SPACE MANAGEMENT AND MARKETINGANDEMERGING TRENDS IN RETAILING** **Retail Space Management and Marketing:** Definition of Space Management, Store layout and Design, Visual Merchandising, Promotions Strategy, Relationship Marketing Strategies, CRM, Retail Marketing Mix, Retail Communication Mix, POP Displays. **Emerging Trends**: Changing nature of Retailing, Organized Retailing, Modern Retail formats, E-tailing, Challenges faced by the retail sector	**ELECTRONIC PAYMENT SYSTEM** Different types of E-payments - E-cash- E-cheques - Credit cards - smart cards - Electronic purses and debit cards, Security issues in E-commerce – digital identity and electronic signature, Encryption and its roles in E-commerce business, E-commerce threats, protection from E-commerce threats.	
4	IV SEMESTER	INTELLECTUAL PROPERTY RIGHTS MINOR PROJECTS		Implemented new subjects sssss Assigning individual project to each students, based on that conducting Viva.	2
5	IV SEMESTER	BUSINESS PROJECT DEVELOPMENT SOCIAL MEDIA		Implemented new subjects Conducting activities related to social media awareness	2

		AWARENESS			
Sl. No.	**Semester**	**Course & Course**	**Present Syllabus**	**Revised Syllabus**	**Credits**
1.	V SEMESTER	**Business strategy and management** **International business**	**Module 1 :** **Introduction to Business Strategy and Business Policy** Business strategy- Introduction, Concept of Business strategy, Need for business strategy, Essentials of effective strategy, Functions of Business Strategies, Business policy- Meaning, Definition, Factors influencing Business policy, Business policy v/s Strategy. **Module 2:** **Introduction to Strategic Management** Strategic Management – Introduction, Meaning, Definition, Need for strategic Management, Benefits of strategic Management, Strategic Management process, Strategic Planning-Meaning, Levels of Strategic Planning, Strategic Decisions- Introduction, Characteristics of Strategic Decisions, Dimensions of strategic Decisions, Strategic B usiness Units. **Module 3:** **Environment Analysis**	**Implemented new subject** **Module 1:** **Introduction to international business** Concept of globalization, factors influencing globalization, global business expansion strategy for emerging market companies, concept of international business, motives for international business expansion, strategy for managing business in the globalization era. **Module 2** **Institutional framework for international business** Understand the significance of institutional framework in international business, international economic institutions under the UN system: World Bank Group, IMF, UNCTAD, WIPO, UNIDO, ADB, and UN-ESCAP etc, International organizations in trade promotion: ITC, Import Promotion Organizations, the institutional framework to facilitate international business, WTO and GATT. **Module 3** **International economic integrations**	4

			Environment Analysis- Introduction, Meaning, Need of Environment Analysis, Components of environment analysis, Environment Scanning- Meaning, Key Sources of information for environment scanning, Techniques of environment scanning- SWOT Analysis, Corporate Audit, ETOP, Forecasting technique, Other techniques, Michael Porter's 5 forces Model. **Module 4** **Strategies** Hierarchical levels of strategy- Corporate level- Meaning, Types- Growth strategies, -Meaning, Types, Stability Strategies- Meaning, Types, Retrenchment strategies- Meaning, Types, Combination strategies- Meaning, Business Strategy- Meaning, Types- Competitive strategy (Porter's Generic Strategy), Cooperative business strategy- Meaning, Types, Functional Strategy- Meaning, Types. **Module 5** **Strategic Implementation and Evaluation and Control** Strategic Implementation – Meaning, Relation between strategy formulation and strategy Implementation, Resource Allocation-	Overview of international economic integration, the theoretical framework of Preferential Trading Agreements, forms of international economic integration, discuss major international economic trade groups, outline India's participation in PTAs, evaluate regional trading agreements under the WTO framework. **Module 4** **Theories of international trade** Implications of trade theories on international business, theories of international trade, theoretical framework for shifting patterns of production and trade, international trade patterns and balance of payments **Module 5** **International finance trade procedures and documentation** Concept of International monetary systems: Gold Standard, Fixed and Floating Exchange Systems, Various theories of Exchange rate systems: PPP theory, Interest rate theories, and Concept of Foreign Exchange Market and Exchange rate quotations, Modes of payment in international trade.Outline the framework of international trade transactions; elucidate the export-import procedures, INCOTERMS, significance of	

			Meaning, Problems in resource allocation, Designing organization structure- Elements, Stragic evaluation and control-Introduction, Importance. Strategic control-Meaning, Techniques for operational control (Meaning Only**)**	documentation in international trade transactions, commercial and regulatory documents used in international trade.	
2.	V SEMESTER	**Security analysis and portfolio managemne t** **Human resource developmen t**	**Module 1** **Investment Management** Introduction-Meaning-Definition- Nature & Scope of Investment Management.Investment and speculation and gambling, Investment avenues, Investment Process.-innovative financial instruments-credit rating of debt instruments **Module 2** **Securities Market** Meaning-definition-Primary Market -, Secondary Market, Functioning of Stock Exchanges, Trading and Settlement Procedures, Leading Stock Exchanges in India.Stock Market Indicators- Types of stock market Indices, Indices of Indian Stock Exchanges **Module 3** **Risk and Return Concepts** Concept of Risk, Types of Risk- Systematic risk,	**Implemented new subject** **Module 1** **HRD-Macro Perspective** HRD Concept- Origin and Need- HRD as a Total System-Approaches to HRD- Human Development and HRD-HRD at Macro and Micro Climate. **Module 2** **Instructional Technology for HRD** Learning and HRD- Models and Curriculum- Principles of Learning - Group and Individual Learning-Transactional Analysis and Assessment Centre-Behaviour Modeling and Self Directed Learning- Evaluating the HRD **Module 3** **Sales Planning** Concept and Importance-Assessing Training Needs-Designing and Evaluating T&D Programmes- Role, Responsibilities and	2

			Unsystematic risk, Calculation of Risk and returns. Portfolio Risk and Return: Expected returns of a portfolio, Calculation of Portfolio Risk and Return. **Module 4** **Valuation of Securities** Introduction -Securities Market Line, Bond- Bond features, Types of Bonds, Determinants of interest rates, Bond Management Strategies, Bond Valuation. Preference Shares- Concept, Features, Yields. Equity shares- Concept, Valuation, Dividend Valuation models **Module 5** **Mutual Funds** Meaning-definition- types-advantages/Benefits-Disadvantages- Performance of Mutual Funds-Role of Association of Mutual Funds in India (AMFI)-AMFI-Functions.	challenges to Training Managers	
3.	V SEMESTER	Competitive Exams training **Right to get Information (RTI)**	Competitive exam training	**Implemented new subject** **Module 1** **Introduction to RTI** Significance, Constitutional basis of RTI, Supreme court on RTI-Romesh Thappar v. State of Madras (1950), State of UP vs Raj Narain(1975), Dinesh Trivedi v. Union of India (1977), SP Gupta & other vs The President of India and others (1982) **Module 2**	2

				RTI ACT Background, Intention and purpose of the Act, Definitions, Appropriate government, Central Information Commission, Central Public Information officer, Chief Information commissioner, Competent authority, Information, Public authority, right to information, Obligations of public authorities, public information officers, Obtaining information under the RTI Act, Exemption from disclosure, disposal of a request **Module 3** **Information commissions** A note on the 2019 RTI Amendment, Power and Functions of the information commissions- Power to receive appeals, Power to receive complaints, Power to conduct inquiry, Powers of civil court, overriding power and functions of the information commissions, Power to ensure compliance with the right to information Act, 2005, Compensation for loss or detriment suffered, Impose penalties, request for information about human rights violation allegations, public interest override, Monitoring implementation of the Act, Promoting the Act	

4	V SEMESTER	**Future study and job Opportunities** **Ethics & Self-Awareness**	**Future study and job Opportunities**	**Implemented new subject** **Module 1** **BASIC INTRODUCTION** Dimensions and Essence of Ethics, Approaches of Ethical Study: Indian Perspective and Western Perspective, Basic concepts: morality and value, Ethics in public life, Ethics in Economic Life, Freedom and Discipline, Duties and Rights, Virtue Ethics, Consequences of Ethics in Human Actions, Values and Ethics in Government: Legislature, Executive and judiciary, Contribution of Family in Value Education, Contribution of Society in Inculcating Values, Role of Educational Institutions in Inculcating Values **Module 2** **HUMAN VALUES** Human Values& Socialization, Individual Personality and Values, Values and Skill, Fundamental and Instrumental Values, Democratic values, Role of Ethical values in governance and society, Significance of values in civil services, Aesthetic values, Values in work life and professional ethics **Module 3** **SELF AWARENESS & STRESS MANAGEMENT** Definition, need for self-awareness; Coping With Stress and Emotions, Human Values, tools and techniques	2

				of SA: questionnaires, journaling, reflective questions, meditation, mindfulness, psychometric tests, feedback, Stress Management: Stress, reasons and effects, identifying stress, stress diaries, the four A's of stress management, techniques, Approaches: action-oriented, emotion oriented, acceptance- oriented, resilience, Gratitude Training,, Coping with emotions: Identifying and managing emotions, harmful ways of dealing, with emotions, PATH method and relaxation techniques.	

Sl. No.	Semester	Course & Course code	Present Syllabus	Revised Syllabus	Credits

1.	VII SEMESTER	**Strategic Management**		**Module 1** **Introduction to strategic management** Introduction, Fundamentals of Strategy, Conceptual Evolution of Strategy; Strategic management – Meaning, Need, Scope, key features and importance of Strategic management; Role of Strategies in Decision Making, Strategies at various management levels, Types of Strategies, Advantages and Limitations of Strategic Management, Strategic management Vs. Operational management **Module 2** **Strategy formulation** Strategy formulation- meaning- Developing Strategic vision and Mission for a Company- Setting Objectives- Balanced Scorecard; Company Goals and Company Philosophy; The hierarchy of Strategic Intent- Merging the strategic Vision, Objectives and strategy into a strategic Plan; Strategic Control, Concept of Synergy and its meaning, Key Stakeholders' Expectations. **Module 3** **Strategic alliances & strategy analysis**	4

				Introduction to Strategic Alliances- Types of Strategic Alliances and Business Decisions, Problems involved in Strategic Alliances; Strategy Analysis- Meaning- and its importance, SWOT Analysis, Value Chain Analysis-Bench marking Competitive Strategies; Environmental Appraisal and Scanning Techniques, Organisational position and Strategic Advantage Profile, Strategic Management Model **Module 4** **Strategies for mnc's** Multinational Corporations (MNCs) – Introduction, Meaning, Definitions, Benefits of MNCs, Limitations of MNCs- Business Strategies of MNCs, Techniques Employed by MNCs by MNCs to manage Markets- MNC, TNC and Global Companies; Business Policies- Importance of business policies, Business Policy Statements, Corporate Culture. **Module 5** **Challenges and recent trends in strategic management** Introduction- Strategic Management as an Organisational Force-	

				Dealing with Strategic Management in Various Situations- Strategic Management Implications and Challenges; Recent Trends in Strategic Management- Introduction, Strategic Thinking, Organisational Culture and its Significance- Organisational Development and Change.Strategic Business Units (SBUs).	
2.	VII SEMESTER	Applied Research and Statistics -1		**Module 1** **Introduction to applied research** Meaning and Types of Research, Objectives Research, Use of Statistics in Applied Research, Differences of applied research and basic research, Methods of applied research, Benefits of applied research, Limitation of applied research.Data: Quantitative and Qualitative, attributes, variables, scale of measurement nominal, ordinal, interval and ratio **Module 2** **Probability and probability distribution** Probability: Introduction, random experiments, sample space, events and algebra of events.Definitions of Probability – classical,	4

				statistical, and axiomatic. Conditional Probability, laws of addition and multiplication, independent events, theorem of total probability, Bayes' theorem and its applications. Random variables: discrete and continuous random variables and properties of random variables, univariate transformations with illustrations.Two dimensional random variables: discrete and continuous type **Module 3** **Introduction to descriptive statistics** Introduction and Application of Descriptive statistics,Collection of primary and secondary data, Methods of collection, Measures of central tendency. **Module 4** **Bivariate data analysis** Definition, scatter diagram, simple, partial and multiple correlation, rank correlation. Simple linear regression, principle of least squares and fitting of polynomials and exponential curves**,** Measures of Dispersion: range, quartile deviation, mean deviation, standard deviation, coefficient of variation, Moments,	

				absolute moments, factorial moments, skewness and kurtosis **Module 5** **Inferential statistics and statistical test** Statistical significance,Type 1 and Type 2 Error, Using of statistical test: Chi-square Test,T-Tests, Anova, Manova	
3.	VII SEMESTER	Global Management		**Module 1** **International Business & Global Management** Meaning, need of international business, meaning of Global Management, Need for Global Management, features and functions of Global Management. Opportunities and challenges in Global Management **Module 2** **Globalization** Meaning, need, Merits and Drawbacks, Opportunities and Challenges in going Global. Features of Globalization. **Module 3** **Business and Global Economy** Concept, scope and importance of global economy, Exchange rates --Fixed Exchange Rates, Floating Exchange Rate, Crawling Exchange Rate,	4

				Tariff Trade Barriers, Non-tariff trade barriers. **Module 4** **Business Models and Disruption** Disruptive Technologies: Understand, Evaluate, Respond, Positive & Negative Effects of Disruptive Technology, Application of various Disruptive technologies in Business **Module 5** **Strategy Focused Organisation** Concept of strategy: Defining strategy, Levels at which strategy operates, Decision Making and Approaches to Strategic Decision making, essence of strategic thinking, replacing planning with strategic thinking, Strategic management process. Mission and Purpose, Objectives and Goals, Strategic Business Units.	
4	VII SEMESTER	Project management		**Module 1** **Introduction to Project Management** Introduction and Fundamentals of Project Management, Introducing Project Management, Project – What is it and its Characteristics, Project Management - Definitions, Terms, The Project Management Process. **Module 2**	4

				Project Environment The Project Environment, Project Lifecycle, Project Managers are Leaders, Organization Structure - The Basic Model, Modifications to the Basic Model, The Organizational Culture and Change. **Module 3** **Project Planning** Initiation and Planning, Initiation, Project Kick-off and Communication, The kick-off meeting, the Project Charter creation, Assigning roles to the team, developing responsibility matrix, Developing the Communication Plan, Project Scope and Priorities, Defining the Scope, Vision Document, Statement of Work, Establishing Project Priorities, The Documents that need to be created, Project Scope and its Management **Module 4** **Project Execution** Executing the Project, Project Work – Execution, Introduction to the process of execution, directing the project work, Assuring Quality, Completing Procurements, Building a High Performance Project Team, Project Team is developed, not acquired – The Project Team	

				Dynamics, Framework for Building a Team. Managing Project Team - How to manage it? **Module 5 Scheduling the Project in a Global Business Environment** Monitoring and Closing the Project in a global business environment, Monitoring and Controlling the Project Work, Monitoring and Controlling the Project Work, Monitoring and Controlling Project Work – The Process: Integrating Change Control and Administering Procurements, Monitoring and Controlling Scope, Schedule and Cost	
5	VII SEMESTER	Intellectual Property Right		**Module 1 Introduction to intellectual property rights** Introduction, types of intellectual property, Evolution of IP acts and treaties, Role and value of IP in international commerce, Issues affecting IP internationally, importance of intellectual property rights. **Module 2 Trade marks and geographical indication of goods** Purpose and function of trademarks, Acquisition of trade mark rights, transfer	2

				of rights, Selecting and evaluating trademark, registration of trademarks, claims. Geographical Indication of Goods: Basic aspects and need for the registration. **Module 3** **Industrial designs and managing, protecting and transferring ip rights** Industrial Designs: Kind of protection provided in Industrial design, Managing IP Rights: Acquiring IP Rights: letters of instruction, joint collaboration agreement, Protecting IP Rights: non-disclosure agreement, cease and desist letter, settlement memorandum.Transferring IP Rights: Assignment contract, license agreement, deed of assignment.	
6	VII SEMESTER	Quality Management		**Module 1** **TQM thought's and Thinkers** Need for quality - Evolution of quality - Definitions of quality, Dimensions of product and service quality - Basic concepts of TQM ,TQM Framework - Contributions of Deming, Juran and Crosby ,Barriers to TQM - Customer focus - Customer orientation,	2

				Customer satisfaction, Customer complaints, Customer retntion **Module 2** **TQM Principles** Leadership - Quality Statements, Strategic quality planning, Quality Councils - Employee involvement - Motivation, Empowerment, Team and Teamwork Recognition and Reward, Performance appraisal - Continuous process improvement - PDCA cycle, 5S, Kaizen - Supplier partnership - Partnering, Supplier selection, Supplier Rating **Module 3** **TQM Tools** Benchmarking: Definition, concepts, benefits, elements, reasons for benchmarking, process of benchmarking, FMEA, Quality Function Deployment (QFD) – House of Quality, QFD Process, Benefits, Taguchi Quality Loss Function, Total Productive Maintenance (TPM) – Concept and need. **Six Sigma**- Features of six sigma, Goals of six sigma, DMAIC, Six Sigma implementation. **Module 4** **TQM Quality System** Introduction—Benefits of ISO Registration—ISO 9000 Series of Standards	

				sector-Specific Standards—AS 9100, TS16949 and TL 9000--ISO 9001 Requirements—Implementation—Documentation—Internal Audits—Registration—ENVIRONMENTAL MANAGEMENT SYSTEM: Introduction—ISO 14000 Series Standards—Concepts of ISO 14001—Requirements of ISO 14001— Benefits of EMS **Module 5** **Statistical Process Control** Central Tendency, The seven tools of quality, Normal curve, Control charts, Process Capability – simple problems on statistical process control.	
7	VII SEMESTER	Minor Project- I		Minor Project- I	2
8	VII SEMESTER	Technology in Research		**Module 1** **Introduction to research** Define research, types, research process,techniques involved in defining the problem, criteria for good research **Module 2** **Method of data collection and analysis** Method of data collection: interviews, focus groups, survey and observation, the internals, research journals,	2

				trade media outlets, libraries, intelligence tools **Module 3** **Data analysis using technology tools** Introduction to spreadsheet and its functions, introduction to filtering, Pivot tables and charts, SPSS tools, data analysis, MS excel, zetero, scopers, quickcalcs, zenodo, endnote, researchgate, google scholar	

Sl. No.	**Semester**	**Course & Course code**	**Present Syllabus**	**Revised Syllabus**	**Credits**

1.	VIII SEMESTER	Accounting for decision making		**Module 1** **Introduction to Management Accounting** Financial and Cost Accounting, Basic Cost Terms and Cost Flow, Costing System, Preparation of Cost Sheet, Costing in Service Industry, Preparation of Cost Sheet Service Industry,Financial, Cost and Management Accounting **Module 2** **Product Costing** Methods of Product Costing, Job Costing, Customer Costing, Process Costing, Treatment of Process Losses, Joint and By-products – problems **Module 3** **Cost Allocation and Activity Based Costing** Indirect Cost, Method of Indirect Cost Allocation, Misallocation of Indirect Costs, Activity-based Costing, Implementation of Activity-based Costing, Activity-based management **Module 4** **Cost Analysis for Decision Making** Absorption vs. Marginal Costing, Behaviour of Costs, Break-even Analysis, BEP in Multiproduct Environment, Pricing Decision, Make or Buy decision, Discontinuing product or closing down divisions, Optimal Product Mix, Operating Leverage **Module 5**	4

				Budgeting Strategic Planning and Budgets, Budgeting Process, Types of Budgets, Benefits of Budgets, Approaches to Budget Preparation, Preparation of Master Budget, Budget Slack	
2.	VIII SEMESTER	Applied research and statistics –II		**Module 1** **Data** Sources of data, methods, of collection; observation interviewing, mailing; tools for collection data; interview schedule, interview guide, questionnaire, rating scale, stoichiometry, check list; pre-testing of tools, pilot study; Processing of data; checking, editing, coding, transcription, tabulation, preparation of tables, graphical representation; Types of Measurement Scales **Module 2** **Sampling** Sampling concepts, Sample v/s Census, Sampling and Non-sampling error, Types of probability and non-probability sampling; Determination of sample size **Module 3** **Probability & theoretical distribution** Introduction to probability and theoretical distribution; Binomial, Poisson and Normal distributions and their relevance; Normal distribution and Standard Normal variate and its applications; Use of	4

				statistical tables. **Module 4** **Hypothesis testing** Types of Hypotheses, Formulation of Hypotheses, Procedure for testing: for mean, proportion, Difference between means, & Variance testing, Types of error, ingredients to statistical test - degree of freedom, significance level, concept of p value, One Tail & two tailed tests **Module 5** **Application of test statistics** Assumption & selection criteria of inferential analysis, Parametric and Non parametric tests, Correlation & Regression, Parametric and Non parametric tests, Correlation & Regression.	
3.	VIII SEMESTER	Academic and corporate research writing		**Module 1** **Introduction to academic and corporate research** Definition and importance of corporate Research and Academic Research- Purpose of research-scope-Types of corporate research: market research, competitor analysis, Product Research and Development (R&D), Consumer Research, Competitive Research, Financial Research, Technological Research, Environmental, and Sustainability Research, Employee Research, Strategic Research; Types of Academic	4

				research- Quantitative research, Descriptive, Correlational, Causal-Comparative/Quasi-Experimental- Ethical considerations in corporate research-Assessing industry trends and dynamics **Module 2** **Identifying research topics and literature review** Sources of Information- Need for a literature review-Strategies for writing literature review-Reviewing skills- Methods of conducting a literature review-Referencing and in-text citation- styles of reference, paraphrasing, and summarising-citing sources-Techniques for identifying relevant research topics-Defining Research problem and its necessity-Developing clear and focused research questions, hypothesis and objectives-formulation of research title **Module 3** **Sampling technique and data collection** Research Design -Features-types-Sampling Techniques - Target audience - Method of Collection- Primary data collection – secondary data collection- Ethical issues in collecting data - Measurement of Scale – Importance of Scaling Technique. **Module 4**	

				Data analysis and interpretation Analysis of data- simple statistical technique and their uses- Graphs and charts - Testing of Hypothesis- Meaning of Interpretation- Techniques of Interpretation- Data Analysis, and Interpretation-Precautions in Interpretation **Module 5** **Writing, refining, and editing the research paper** . Significance of research writing- different steps in Research Writing- Layout of Research Writing, Oral Presentation- Presenting research findings to stakeholders- Mechanics of Research writing- Precautions for Research writing- Style of writing a synoptical outline of chapters- Writing a research proposal-developing objectives of the research topic, developing logical research statements and hypothesis-Editing the research paper- Proofreading Techniques- Revision paper	
4	VIII SEMESTER	Innovation Management		**Module 1** **Innovation & Creativity** Innovation: Meaning, Concept, Characteristics, Importance, Principles of Innovation, Process Of Innovation. Creativity: Meaning, Concept, Importance, Creativity Process, Hurdles	4

				To Creativity, creative Personality and motivation, creative Environment, creative technology, creativity training, puzzles of creativity, spiritual and social roots of creativity, essence, elaborative and expressive creativities **Module 2** **Innovation Management** Concept, Scope, Characteristics, Evolution of Innovation Management, Significance, Factors Influencing Innovation, creative Personality and motivation, creative Environment, creative technology, creativity training, puzzles of creativity, spiritual and social roots of creativity, essence, elaborative and expressive creativities **Module 3** **Tools for Innovation** **Creativity Thinking** Traditional V/S Creative Thinking, Individual Creativity Techniques: Meditation, Self-Awareness, &Creative Focus Group Creative Techniques: Brain Storming, off The Wall Thinking &Thinking Hats Method, Creative intelligence abilities, A model of creative intelligence, convergent thinking ability, traits congenial to creativity, creative personality and	

				forms of creativity, motivation and creativity. **Module 4** **Areas of Innovation** **Product Innovation** Concept, Packaging and Positioning Innovation Process Innovation: Concept, Requirement & Types: Benchmarking-TQM Business Process Reengineering, theories of outsourcing new product development: Transaction cost, resource based, resource dependence, knowledge-based theories. Levels of innovation, incremental Vs. radical innovation, inbound and outbound ideation- open and other innovative ideation methods **Module 5** **Exploring and Exploiting innovations** Exploring Innovations— the processes used to explore innovations along the technology, market and strategy dimensions as the innovation moves from idea to market. Exploiting innovations — the strategies that a firm must consider to most effectively exploit the value of their innovation, including innovation platforms that incorporate multiple product options, portfolios and standards	
5	VIII SEMESTER			**Module 1** **Overview**	2

		Corporate governance		Introduction-Definitions and Importance of Corporate Governance-Reputation, Competition and Corporate Governance-Corporate Ethics-Corporate Governance and Corporate Responsibility-Globalization and Corporate Governance **Module 2** **Models, Mechanisms, Shareholders and Stakeholders** Introduction-Models of Corporate Governance-Mechanisms of Corporate Governance-Shareholder Rights-Equitable Treatment-Responsibilities of Shareholders-Minority Shareholders' Protection-Stakeholder Protection **Module 3** **Board of Directors and Audit Committee** Introduction-Structure and Independence of the Board-Responsibilities and Duties of the Board-Selection, Remuneration and Evaluation of the Board-Board Committees-The Board and the Management-Organization of Audit Committee-Responsibilities of the Audit Committee-Working with Auditors and Management-Blue Ribbon Committee **Module 4** **Banking Corporate Governance**	

				Introduction-Sound Corporate Governance Practices in Banking-The Role of Public Disclosure-Supervisors and Transparency-Recommendations for Enhancing Bank Transparency-Supportive Environment to Corporate Governance **Module 5** **Corporate Responsibility** Corporate Social Responsibility – definition – nature – levels – phases and approaches, principles, Indian models – dimensions. Corporate social reporting - Objectives of Corporate Social Reporting and case studies	
6	VIII SEMESTER	Research ethics and plagiarism		**Module 1** **Research ethics and scientific conduct** What is research, what is Ethics, Importance of Research Ethics, Guidelines for research ethics. The ethics of scientific research: values and principles. **Module 2** **Understanding plagiarism** Meaning and Importance of Plagiarism, Types of Plagiarism, different Plagiarism Detection Software, Ways to avoid Plagiarism **Module 3** **Regulations on plagiarism in india** Laws relating to Plagiarism in India, Plagiarism and	2

				Criminality in India, plagiarism cases and punishments most famous case of plagiarism, Is plagiarism a big crime?	
7	VIII SEMESTER	Minor Project II		Minor Project II	2
8	VIII SEMESTER	Research paper publication		Research paper publication	2

	Semester	Course & Course	Present Syllabus	Revised Syllabus	Credits
1.	I SEMESTER	**Business Communication I**	Module 1: PROSE Equipping students to ease their communicative ability through the learning of some of the best prose texts authored by the eminent men of letters like Nora Rossi, George Bernard Shaw and James Thurber. The concepts and ideas hidden between the lines are the areas of profound thoughts. They enable to muster knowledge in creating close knit sentences. The students acquire basics of English language through thought provoked writings. The study of prose also lifts the acumen of students in content writing, critical analysis, copy writing blog writing, business reports and letter writing via e-mail or manual write-ups. Module 2: POETRY The study of poetry is envisaged to instil, music, rhythm and flow in the language. Poetry is one of the most powerful vehicles to convey ideas. The students learn the perfect classic touch of John Milton, Romanticism of John Keats and the universality of Alfred Tennyson. Study of English language becomes quite cosy through the study of poems. The students learn the technique of appreciating a given poem. The	**Module No.1: BASICS OF COMMUNICATIVE ENGLISH** An Introduction of the Structures in English Language, Types and Construction of sentences, Usage of Parts of Speech and Linkers, Usage of Idioms and Phrases for Standardizing communication, Accent pronunciation for effective communication - Explicit Comprehensive Exercises, Implicit Comprehensive Exercises, Converting Titles into meaningful passages. **Module No.2: FOUNDATIONS OF BUSINESS COMMUNICATION** Dimensions of communication & Direction of communication, Means of communication – Verbal & Non-Verbal Communication, Effective Listening, Principles of Effective Communication. **Module No.3: ESSENTIALS OF**	4

			form—theme—figures of speech—rhyming schemes---meter---parameter of stanzas etc., in the poem delivers a better perception. Module 3: GRAMMAR Knowledge of grammar of a particular language elevates the confidence of the speaker. Learning language without linguistics is improper to a student. Through this curriculum the student learns about words---parts of speech---sentences---interchange of sentences---clauses- --sentence analysis---synthesis of sentences---using appropriate punctuation and conversion of a given idea into sentences. Students learn the need of attributing tenses with a given situation of talk or write up. Module 4: FORMAL COMMUNICATION Formal Communication is the core of business communication. The basic of written language with added pep of grammar enables the student to directly learn formal communication. Formal communication is identical from private correspondence in draft format---dictions used---and lay out. Formal communication include all letters of legal character like the secretarial correspondence---business circulars---replies to the customer's queries--- reply to shareholders---letter to company's solicitors---Letters of complaint and job application are	**BUSINESS COMMUNICATION** Types of Professional Writing Written Business Communication-Fundamental of Business writing, Format of Business, Types of Business letter, Inquiry letter, complaint letter Persuasive letter, Proposal, Report Writing. Employment Messages Writing Resume, Application letter, Writing the opening paragraph, Writing the closing paragraph, summarizes. **Module No. 4: COMMUNICATION ESSENTIAL SKILLS** Spoken skills Conducting Presentation, Oral presentation, Debates, Speeches, Interview, Group Discussion, English Pronunciation, Building Vocabulary. Process of Making Effective Presentations - Collaborative Presentations-Online Presentations-Presenting to a Culturally Diverse Audience. **Module No 5: COMMUNICATION TECHNOLOGY** Introduction-Classification of Technological Tools for Communication–Major Technological Tools-Effective Use of Technology for Communication - Email Etiquette - Communicating Through social media –	

			included. Forming newspaper reports is very challenging. Headline---bye line---dateline---condensed paragraph---body---investigative part. Module 5: INFORMAL COMMUNICATION The proficiency of the student in outlaying relevant points on a given topic is being taught. Essays, paragraphs, interpretations, comprehensions etc come under this category. Non statutory private reports also fall under this type. Essays---descriptive---Narrative---Argumentative--- and Reflective. Paraphrasing is an informal write up of transcribing a proverb or couplet in the simple English by expanding the central point. The student is taught on Paraphrasing as practice in expression---Paraphrasing as a test---Paraphrasing a verse---Paraphrasing prose.	Communicating in Virtual Teams.	
2.	I SEMESTER	Principles of Management	**Module** 1 INTRODUCTION TO MANAGEMENT Definition, Meaning, Nature, Features, Objectives, Functions-Managerial, Evolution of Management Thought-Contribution of Fredrick Taylor, Contribution of Henry Fayol. **Module** 2 PLANNING Nature, Importance, Process, Types of Plans. Decision making-	**Module No.1: INTRODUCTION TO MANAGEMENT** Definition, Meaning, Nature, Features, Objectives, Functions- Managerial Evolution of Management Thought-Contribution of Fredrick Taylor, Contribution of Henry Fayol. **Module No.2: PLANNING** Nature, Importance, Process, Types of	4

			Meaning, significance, scientific decision making process, Guidelines for effective decision making. Communication- Process, Types, Barriers of communication, Essentials of Effective communication. **Module** 3 ORGANISING Principles of organizing, Types of Organization structure, Line organization, Functional Organization, Line and staff organization. Delegation of authority- Barriers to effective delegation- guidelines for making effective delegation. **Module** 4 STAFFING Concept of Staffing, Need, Recruitment- Factors, Sources of Recruitment, Techniques. Selection- Scientific Selection Process. Training and Development- Importance, Methods, Performance Appraisal- Objectives, Methods. Unit 5 DIRECTION AND CONTROL Meaning, Elements. Controlling- Meaning, Importance, Techniques. MotivationConcept, Importance, Theories - Maslow's Need	Plans. Decision making- Meaning, significance, scientific Decision making process, Guidelines for effective decision making. Communication- Process, Types, Barriers of communication, Essentials of Effective communication **Module No.3: ORGANISING** Principles of organizing, Types of Organization structure, Line organization, Functional Organization, Line and staff organization. Delegation of authority- Barriers to effective delegation- guidelines for making effective delegation. **Module No.4: STAFFING** Concept of Staffing, Need, Recruitment- Factors, Sources of Recruitment, Techniques. Selection- Scientific Selection Process. Training and Development- Importance, Methods. **Module No.5: DIRECTION, CONTROL AND MANAGEMENT OF CHANGE** Meaning, Elements. Controlling- Meaning, Importance, Techniques. Motivation- Concept, Importance, Theories - Maslow's Need Hierarchy theory- Herzberg's Hygiene theory- McGregor's Theory	

			Hierarchy theory- Herzberg's Hygiene theory- McGregor's Theory X and Y. Leadership Qualities- Leadership Styles.	X and Y. Leadership Qualities- Leadership Styles. Management of Change Concept, nature, process of planned	
3.	II SEMESTER		Business Communication II	**Business Communication II is removed and replaced by Communicative English II**	
4	II SEMESTER	Marketing Management	UNIT-1: INTRODUCTION TO MARKETING MANAGEMENT Marketing-Meaning & Definition- Importance &Functions, Concepts of Marketing - Traditional &Modern Concepts, Marketing Management- Meaning, Definition, Importance, Recent trends in Modern Marketing-Electronic Marketing, Social Marketing, Tele-Marketing, Viral Marketing, Sustainable Marketing, Relationship Marketing, Customer Relationship Marketing (CRM), & Niche Marketing (Meaning Only), Green Marketing- Meaning, Definition, Benefits, Challenges in Going Green. UNIT-2: MARKETING MIX Product-Meaning, Product planning-Meaning, Product Mix-Meaning, Product line-Meaning, Branding- Meaning, Functions, Advantages & Classification, Packaging-		4

			Meaning & Functions, Labelling-Meaning, Product life cycle- Meaning, Stages& its Strategies, New Product development-Process/Stages, Failure of New Products and its reasons, PricingMeaning, Importance, Methods/Types of Pricing (Meaning Only),Distribution- Meaning & definition of channels of distribution &Types of channels, Promotion-Personnel selling, Advertising, Publicity, Public relation (Meaning only), Extended 7 Ps- People, Processes, Physical Evidence (Meaning Only). UNIT-3: MARKETING SEGMENTATION &CONSUMER BEHAVIOUR Marketing segmentation: Meaning, Importance, Bases of Market segmentation, Market Targeting-Concentrated, Differentiated& Undifferentiated. Consumer Behaviour: Meaning, Definition, Importance, Factors affecting consumer behaviour. UNIT-4: SERVICE AND RURAL MARKETING Service Marketing: Meaning, Characteristics, Distinction between Marketing of Product &Service, Classification of services (Consumer & Industrial), Rural Marketing:		

			Meaning, significance, Distinction between Rural markets &urban markets, Problems of Rural Marketing. UNIT-5: SKILL DEVELOPMENT 1. Conduct an informal Interview of a local retail store owner & Determine what demographic &socio economic segments the store appears to satisfy. How did the owner select this segment or segments? 2. Real time Analysis of Product Life Cycle. 3. Marketing Exhibitions by Students. 4. Case Studies.		
5	II Semester		Cost Accounting	Cost Accounting was removed and replaced by Quantitative Techniques	4
6	II SEMESTER		Tally	Tally replaced by environmental Studies	2
7	II SEMESTER		Fundamentals of IT	Fundamentals of IT replaced by NSS/Cultural/sports	2
8	III SEMESTER		Cost Accounting II	Cost Accounting I was Completely removed	4
9	III SEMESTER		**BUSINESS LAW**	BUSINESS LAW transferred to 4th semester	4
10	III SEMESTER	Financial Accounting III	**PARTNERSHIP FIRMS** **Module 1** Partnership: Meaning-Definition, Admission of a	Financial Accounting Was revised into Corporate Accounting	4

			partner- Revaluation account – sacrifice ratio-gain ratio-treatment of goodwill-readjustment of capital-retirement of a partner: new profit sharing ratio **Module 2** **PARTNERSHIP FIRMS**[Death of a partner- revaluation of asset and liability executors account-joint life policy individual policy- Dissolution of partnership firm: Meaning-accounting treatment – realisation account-settlement account-dissolution with insolvency-insolvency of all partners **Module 3** **PARTNERSHIP FIRM** Piecemeal distribution-sale of partnership-accounting treatment- realisation account distribution of purchase consideration accounting treatment in the books of vendor and purchase **Module 4** **FINAL ACCOUNTS OF BANKING COMPANY** Meaning-rebate on bill discount: meaning and problems-important terms with relevant schedule vertical **Module 5**	**Module 1** **ACCOUNTING FOR SHARE CAPTIAL** Meaning- Issue of share-Types of Shares-Forfeiture of shares and Reissue of Shares, Redemption of Shares with problems Module 2 **ACCOUNTING FOR DEBENTURES** Meaning- Types of Debentures-Issue-Underwriting of Debentures- Redemption of Debentures Sinking Fund Method only Module 3 **VALUATION OF SHARES AND VALUATION OF GOODWILL** Valuation of Shares and Goodwill- Meaning-Methods of Valuation of Shares and Goodwill. Module 4 **ACCOUNTING FOR HOLDING COMPANIES** Calculation of Capital Profit- Revenue Profit- Cost of Control- Minority Interest-Adjustment of	

			FINAL ACCOUNT OF JOINT STOCK COMPANY Preparation of statement of profit and loss-preparation of balance sheet-latest vertical form with relevant note	intercompany transactions-unrealized profit of stock-Preparation of Consolidated Balance Sheet of Holding Company with one subsidiary only Module 5 **FINAL ACCOUNTS OF COMPANIES** Objectives of preparation of final accounts- Preparation of Profit and Loss Account- Profit and Loss Appropriation Account and Balance Sheet in prescribed forms.	
11	IV SEMESTER	Financial Management I	**FINANCIAL MANAGEMENT –AN OVERVIEW** **Module 1** Introduction-Meaning, Definition of Financial Management, Scope of Financial Management-Traditional Approach, Modern Approach, Objectives of Financial Management, Growing Importance of Financial Management, Finance Functions-Financing, Investment, Dividend decisions, Time value of Money-Meaning, Significance **Module 2**	Financial Management I was Completely removed in 2021 and Replaced with EXTERNAL FINANCIAL REPORTING DECISION / PERFORMANCE MANAGEMENT CMA-1 AC Module 1 **FINANCIAL STATEMENTS:** Financial statements and their needs- Identify how various financial transactions affect the elements of each of the financial statements and determine the proper	4

			INVESTMENT DECISIONS Introduction to Investment Decisions, Capital Budgeting-Meaning, Definition, Importance, Types of Capital Budgeting decisions, Process of capital budgeting process, Investment Evaluation Techniques-Pay Back Period Method, Accounting Rate of Return Method, Net present Value Method, Profitability Index Method (Problems), Capital Rationing- Meaning, Process. **Module 3** **COST OF CAPITAL** Cost of capital- Meaning, Definition, Importance, Types, Calculation of cost of debt, preference shares, Equity & Retained earnings, Computation of Weighted Average Cost of Capital, Cost of Equity & CAPM –Meaning Features. **Module 4** **CAPITAL STRUCTURE** Capital structure-Meaning, Components, Determinates, Importance, Leverages-Meaning, Types- Operating Leverage, Financial Leverage, Combined Leverage (Problems)-(No Capital structure theories to be covered) **Module 5** **DIVIDEND POLICIES** Dividend Policies-Meaning,	classification of the transaction Module 2 **RECOGNITION, MEASUREMENT, VALUATION, AND DISCLOSURE:** Accounts receivable, including timing of recognition and estimation of the allowance for credit losses- Demonstrate an understanding of the lower of cost or market rule for LIFO and the retail inventory method and the lower of cost and net realizable value rule for all other inventory methods-Determine the effect on the financial statements of using different depreciation methods Module 3 **COST AND VARIANCE MEASURES** analyze performance against operational goals using measures based on revenue, manufacturing costs, non-manufacturing costs, and profit depending on the type of center or unit being measured- explain the reasons for variances within a performance monitoring system- prepare a performance analysis by comparing actual results to	

			Factors Determining Dividend Policies, Bonus shares- Meaning, Benefits, Valuation of shares & Dividend Models-Walters Model, Gordon Models, Modigliani & Miller- Approaches to theories & Problems.	the master budget, calculate favourable and unfavourable variances from the budget, and provide explanations for variances- calculate and explain a yield variance- analyze variances, identify causes, and recommend corrective actions Module 4 **RESPONSIBILITY CENTERS AND REPORTING SEGMENTS:** Identify and explain the different types of responsibility centers- recommend appropriate responsibility centers given a business scenario- calculate a contribution margin- identify segments that organizations evaluate, including product lines, geographical areas, or other meaningful segment Module 5 **PERFORMANCE MEASURES** Performance evaluation measures- Product profitability, business unit profitability, and customer profitability, including cost measurement, cost allocation, investment measurement, and valuation	

				- Define and calculate return on investment (ROI)	
12	IV SEMESTER		**GST and Stock Market**	GST and stock market was Completely removed	4
13	IV SEMESTER	Corporate Law	**Module 1** **INTRODUCTION TO COMPANY** Introduction- what is Company- Lifting of the Corporate Veil- Classes of Companies under the Companies Act of 2013- Conversion of Public company into a Private Company- When Companies must be Registered- Mode of Registration- Memorandum of Association- Clauses of Memorandum- Alteration of Memorandum- Articles of association- Alteration of Articles- Doctrine of Indoor Management. **Module 2** **PROSPECTUS** Introduction- Prospectus-Meaning and Role- Issue of Securities by the Company- Power of SEBI- Matters to be Stated in Prospectus- Variation in Terms of Contract or Objects in Prospectus- Offer of Sale of Shares by Certain Members of Company-Public Offers of Securities to be in Dematerialised form- Advertisement of Prospectus- Shelf Prospectus- Red Herring Prospectus- Issue of Application Forms for	Corporate Law was revised with Indian Business Law Module 1 **INTRODUCTION** Indian Contract Act of 1872- Meaning of Contract- Essentials of Contract- Types of Contact- Proposal/Offer- Acceptance- Communication of Offer and Acceptance- Revocation of Offer and Acceptance- Consideration- Legal requirements of Consideration-Suit by Third Party-Validity of an Agreement without Consideration **Module 2** **OTHER ELEMENTS OF CONTRACT** Free Consent- General Consequences of Coercion, Fraud, Misrepresentation, Undue Influence and Mistake- Mistake-Capacity to Contract- Lawful Object and Consideration- Unlawful Object-Unlawful	4

			Securities-Liability for mis-statement in Prospectus-Allotment of Securities by the Company-Securities to be dealt in Stock Exchanges-Global Depository Receipts-Membership-Contracts. **Module 3** **SHARE AND SHARE CAPITAL** Concept of Capital-Shares-Variation of Shareholders Rights- Voting Rights of a Member- Further Issue of Capital-Conversion of Shares into Stock-Alteration of Share Capital- Reduction of the Share Capital- Issue of Shares at a Discount- Issue of Sweat Equity Shares- Issue of Securities at a Premium- Share Certificate- Call on Shares-Transfer of Shares-Blank Transfer- Forged Transfer-Transmission of Shares-Forfeiture and Surrender of Shares- Issue of Bonus Shares. **Module 4** **MEETINGS** Introduction-Maintenance of Registers and Returns- Annual General Meeting- Calling of Extra-Ordinary General Meeting- Power of Company Law Board/ Tribunal- Class Meetings Procedure of General Meetings- Notice of Meeting-Voting and the right to Demand- Proxies-Resolution-Minutes-	Consideration- Agreement Expressly Declared as Void Modue 3 **PERFORMANCE OF THE CONTRACT** By Whom a Contract may be Performed- Distinction between Succession and Assignment-Effects of Refusal to Accept Offer of Performance-Effects of a Refusal of a Party to Perform Promise- Liability of Joint Promisor and Promise- Rights of Joint Promises- Time and Place of Performance of the Promise-Performance of Reciprocal Promise-Effects of Failure to Perform-Impossibility of Performance-Appropriation of Payment-Contract Which Need not be Performed-Restoration of Benefit under a Voidable Contract-Discharge of Contract Module 4 **BREACH OF CONTRACT AND SPECIAL CONTRACTS** Anticipatory Breach of Contract- Actual Breach of Contract-Measurement of Damages- Liability of Damages-How to calculate the Damages-	

			Maintenance and Inspection Document in Electronic Form-Report on Annual General Meeting **Module 5** **OTHER LAWS** The Payment of Bonus Act, 1965-Introduction-Applicability of the Act-Definition- Payment of Minimum and Maximum Bonus. The Employees' Provident Funds and Miscellaneous Provisions of the Act, 1952- Introduction-Definition- Employees' provident Fund Scheme-Employees' Pension Scheme 1995- Employees' Deposit-Linked Insurance Scheme-Other Provisions. The Payment of Gratuity Act, 1972-An Introduction- Aims and Objectives of the Act-Extent and Applicability-Important Definitions-Payment of Gratuity-Forfeiture of Gratuity-Compulsory Insurance- Power to Exempt- Nominations for Gratuity- Application for the Payment of Gratuity-Employer's Duty Regarding the Payment- Mode of Payment of Gratuity-Disputes.	Compensation for Breach of Contract. Contingent Contract-Quasi-Contracts- Types of Quasi-Contracts-Contract of Indemnity-Contract of Guarantee-Nature of Surety's Liability- Discharge of Surety-Distinction between Contract of Indemnity and Contract of Guarantee- Bailment-Bailors Right and Duties-Finder of Lost Good- Lien-Pledge-Distinction between Bailment and Pledge. Agency- Mode of Creating Agency-Duties and Obligation of Agent-Rights of an Agent Module 5 **NEGOTIABLE INSTRUMENT ACT, 1881** Introduction- Meaning of Negotiable Instruments-Characteristics of Negotiable Instrument-Definitions- Classification of Instruments-Negotiability vs Assignability- Notice of Dishonour-Noting and Protesting- Presentment of Instruments-Payment and Interest-Different Type of	

				Hundis-Rules of Compensation	
14	IV SEMESTER	Financial Accounting IV	Module 1 ROYALTY ACCOUNTS Entries ledger account in the books of lessor and lessee-Sub lease: entries ledger account in the books of original lessor, sub lessor and lessee. Module 2 BRANCH ACCOUNTS Dependent branches (including hire invoicing)-problems on Debtors methods and stock and debtors method. Independent branches: incorporating entries preparation of columnar trading and profit and loss and consolidated balance sheet Module 3 DEPARTMENT ACCOUNT: Apportionment of department expenses- departmental trading and profit and loss account – consolidated account Module 4 ACCOUNTING OF SHARES: Basic Terminology – Aerodrome Reference Code – Aerodrome Reference Point – Aerodrome Elevation – Aerodrome Reference Temperature –	Financial Accounting IV was Revised as Advanced Corporate Accounting **Module 1** **FIRE INSURANCE CLAIMS** Introduction- Meaning-Problems on Loss of Stock only. **Module 2** **LIQUIDATOR'S FINAL STATEMENT OF ACCOUNTS** Introduction, Meaning of Liquidation, Modes of Liquidation or Winding Up, Format of Liquidators' Final Statement of Accounts, Problem on Liquidation of companies **Module 3** **ACCOUNTING FOR AMALGAMATION AND ABSORPTION** Meaning of Amalgamation, meaning of absorption, Types of Amalgamation, Purchase consideration, Methods of calculating purchase consideration, Problems on amalgamation and absorption	4

			Instrument Runway, Physical Characteristics; Length of Primary / Secondary Runway – Width of Runways – Minimum Distance Between Parallel Runways– Obstacles Restriction. ATC Procedures – Circumstances – Background details – The Human factors – preventive measures – Checklists – Software display. Air Traffic Management-Procedures related to emergencies, communication failure and contingencies-Emergency procedures -Special procedures for in-flight contingencies in oceanic airspace-Air-ground communications failure - Assistance to VFR flights-Other in-flight contingencies-ATC contingencies - Other ATC contingency procedures. Module 5 ACCOUNTING OF DEBENTURE: Visual aids for navigation wind direction indicator – landing direction indicator – location and characteristics of signal area – markings, general requirements – various markings – lights, general requirements – aerodrome beacon, identification beacon – simple approach lighting system and various lighting systems – VASI & PAPI – visual aids for denoting obstacles; object to be marked and lighter – emergency and other services	**Module 4** **RATIO ANALYSIS** Meaning of ratios, Advantages of Ratio analysis, Limitations of accounting ratios, Problems relating to following Ratios: Current Ratio, Liquid Ratio, Stock Turnover Ratio, Gross Profit Ratio, Net Profit Ratio, Debt Equity Ratio, Capital Gearing Ratio, Debtors Turnover Ratio, Creditors Turnover Ratio, Proprietary Ratio, Operating Ratio, Working Capital Ratio **Module 5 FINAL ACCOUNTS OF ELECTRICITY COMPANY** Introduction- Meaning- Objective- Revenue Account-Net Revenue Account- Capital Account- General Balance sheet	

15	V SEMESTER		1. Business Ethics and Governance 2. Electives Financial Accounting V Advanced Financial Accounting II 3. Electives Strategic Management 4. Cabin Crew Management 5. Electives Cost Accounting IV 6. Aviation Law 7. Electives Business taxation III 8. Business Information Technology 9. Airline Finance 10. Financial Management II 11. Electives Entrepreneurship Development Program 12. Workshop On Housekeeping Management 13. Electives Competitive Exam Training I 14. Visit To International Airport and Business Analysis.	**These subjects are replaced by these subjects** 1. Corporate Law 2. Planning Budgeting Forecasting | Technology & Analytics CMA-1 BF 3. Strategic Business Reporting (SBR) 4. International Financial Reporting Standards(IFRS) 5. Strategic Business Leader 6. (SBL) 7. Financial Management 8. Advanced Financial Management (AFM) 9. Entrepreneurship Development 10. Advanced Performance Management 11. Operation Research 12. Management Accounting 13. Consumer Rights 14. Business Ethics.	
16	VI SEMESTER		International Business Financial Accounting VI Strategic Business Reporting (SBR) Business Information Technology Strategic Business Leader (SBL)	**All this subject is replaced by internship**	

			Advanced Banking Practices Advanced Financial Management (AFM) Business taxation IV Advanced Performance Management (APM) Investment Management Certificate programme on E Commerce and digital Marketing Competitive Exam Training II		
17	VII and VIII semester			**Followed NEP** **Subjects enclosed below**	

BCOM SYLLABUS CHANGES

7 Semester

Subject Code	Title of the Course	Category of Courses	Teaching Hours per Week	Credits	Internal Assessment	External Assessment	Total Marks
21BCM71	Strategic Management	DSE	4	4	50	50	100
21BCM72	Applied research and statistics I	DSC	4	4	50	50	100
21BCM73	Global Management	DSC	4	4	50	50	100
21BCM74	Project Management	DSE	4	4	50	50	100
21BCM75	Intellectual Property Rights	DSE	2	2	50	-	50
21BCM76	Quality management	AEC	2	2	50	-	50
21BCM77	Minor Project I	SEC	2	2	50	-	50
21BCM78	Technology in research	VAC	2	2	50	-	50
			24	**24**			**600**

8 Semester

EIGHTH SEMESTER (HONOURS/ CMA/ACCA)							
Subject Code	**Subject**	**Category of Courses**	**Hours/ Week**	**Credits**	**Internal Assessment**	**External Assessment**	**Marks**
21BCM81	Strategic Financial Management	**DSC**	4	4	50	50	100

21BCM82	Applied Research and Statistics II	**DSC**	4	4	50	50	100
21BCM83	Academic and Corporate Research	**DSE**	4	4	50	50	100
21BCM84	Innovation Management	**OEC**	4	4	50	50	100
21BCM85	Investment Management	**AECC**	2	2	50		50
21BCM86	Research Ethics and Plagiarism	**AECC**	2	2	50		50
21BCM87	Minor Project II	**SEC**	2	2	50		50
21BCM88	Research Paper Publication	**VAC**	2	2	50		50
			24	**24**			**600**

The following specific corrections were made in the MBA syllabus-2021-22

Sl. No.	Semester	Course & Course	Present Syllabus	Revised Syllabus	Credits
1.	I SEMESTER	ECONOMIC ANALYSIS FOR BUSINESS DECISIONS	Module 1 Nature, Scope and significance of Business Economics Lecture Concepts: Basic Concepts and principles: Definition, Nature and Scope of Economics-Micro Economics and Macro Economics, Managerial Economics and its relevance in business decisions. Factors Influencing Business Decisions Practice Based Learning: Fundamental Principles of Managerial Economics - Incremental Principle, Marginal Principle, Opportunity Cost Principle, Discounting Principle, Concept of Time Perspective, Equi-Marginal Principle, Utility Analysis, Cardinal Utility and Ordinal Utility. Case Studies Module 2 : Demand and Supply Analysis: Lecture Concepts: Changes in Demand -Factors effecting demand, Factors involved in Forecasting - Techniques of forecasting - Purpose of Forecasting Practice Based Learning: Elasticity of Demand - Measuring Elasticity of Demand - Determinates of	Lecture Concepts: Basic Concepts and principles: Definition, Nature and Scope of Economics-Micro Economics and Macro Economics, Managerial Economics and its relevance in business decisions. Factors Influencing Business Decisions Practice Based Learning: Fundamental Principles of Managerial Economics - Incremental Principle, Marginal Principle, Opportunity Cost Principle, Discounting Principle, Concept of Time Perspective, Equi-Marginal Principle, Utility Analysis, Cardinal Utility and Ordinal Utility Real-world examples of business problem-solving using economic principles, emphasizing the role of economics in achieving organizational efficiency and sustainability. Case Studies Module 2 : Demand and Supply Analysis: Lecture Concepts: Changes in Demand -Factors effecting demand, Factors involved in Forecasting - Techniques of forecasting - Purpose of Forecasting Impact of External Factors on Demand and Supply: Government Policies, Technology, and Global Events	4

			Demand- Demand distinctions. Supply Curves - Factors affecting supply - Elasticity of supply, Case Studies	Practise Based Learning: Elasticity of Demand - Measuring Elasticity of Demand - Determinates of Demand- Demand distinctions. Supply Curves - Factors affecting supply - Elasticity of supply, Case Studies	
2.	I SEMESTER	PRINCIPLES OF MANAGEMENT & ; MANAGERIAL ETHICS	Lecture Concepts: Challenges of Managing Multi Culture; Environment Impact on Business; Easternization of Management- Ethics in Management, Managerial Ethics and Corporate Social Responsibility. Practice Based Learning: Role Play on Ethics in Various Business Sectors; Case Study on Cultural management	Lecture Concepts: Challenges of Managing Multi Culture; Environment Impact on Business; Easternization of Management- Ethics in Management, Managerial Ethics and Corporate Social Responsibility.Models of Ethical Decision-Making Factors Influencing Ethical Decisions in Management Ethical Dilemmas and Conflict Resolution Sustainable Development Goals (SDGs) Role of Ethics in Environmental Responsibility Ethical Challenges in Global Business Practices Practice Based Learning: Role Play on Ethics in Various Business Sectors; Case Study on Cultural management	4
3	1 SEMESTER	LEADERSHIP & ORGANISATIONAL BEHAVIOUR	Module II. Leadership Lecture Concepts: Interpersonal communication and Feedback, Neuro management – an introduction Practice Based Learning: Transactional Analysis (TA);	Lecture Concepts: Interpersonal communication and Feedback, Neuro management – an introduction Autocratic, Democratic, and Laissez-Faire Leadership Transformational and Transactional Leadership Servant Leadership	4

			Johari Window, Psychological components of Leadership	Emotional Intelligence in Leadership Practice Based Learning: Transactional Analysis (TA); Johari Window, Psychological components of LeadershipEthical Leadership and Corporate Social Responsibility Adaptive Leadership in Changing Environments Inclusive Leadership: Diversity, Equity, and Inclusion Digital Leadership and Leading Remote Teams	
4	1 SEMESTER	LEADERSHIP & ORGANISATIONAL	Module V. Dynamics Of Organizational Behavior Lecture Concepts :Organizational Culture & Climate; Organizational change- resistance and management Practise Based Learning :Stress; Work Stressors; Work Life Balancing; Organizational Politics; -, Enhancing interpersonal effectiveness, Leading, Designing, and Aligning Organizations	Lecture Concepts :Definition, Nature, and Importance of OB Key Elements of Organizational Behavior: People, Structure, Technology, and Environment Disciplines Contributing to OB: Psychology, Sociology, Anthropology, and Management Challenges and Opportunities in OBOrganizational Culture & Climate; Organizational change- resistance and management Practise Based Learning :Stress; Work Stressors; Work Life Balancing; Organizational Politics; -, Enhancing interpersonal effectiveness, Leading, Designing, and Aligning Organizations	
5	1 SEMESTER	Practice Based Experiential			

		Learning I – (Compulsory) Workshop on Design Thinking & Innovation **Certificate course**			
6	II SEMESTER	Technology and Operations Management	Production And Supply Chain Management changed to Technology and Operations Management	**Module 1** An introduction, Historical background of Modern Industry, definition and types of Production systems. Organizational structure and its interaction with other functional departments. The role of operations manager. An introduction to production planning and control. Operations Management and Strategy **Module 2** Facilities location decisions, factors affecting facility location decisions and their relative importance for different types of facilities, Facility location models. Facility layout planning. Layout and its objectives for manufacturing operations, warehouse operations, service operations, and office operations, principles, types of plant layouts. Factors influencing layout changes. **Module 3** Dependent inventory models, MRP structure, benefits of MRP. Maintenance Management: Maintenance	4

				concept, preventive maintenance, maintaining system reliability **Module 4** Quality control concept, quality circles & the emerging concepts of total quality control. Control charts X and R charts, P control charts **Module 5** Introduction, Characteristics of JIT, Key Processes to Eliminate Waste, Implementation of JIT, Pre-requisites for implementation, JIT Inventory and inventory management. **Module 6** Concept – SCM; Objectives of SCM; Uses of SCM; Advantages & limitation of SCM; Current trends in SCM; Physical distribution channels and its roles in organization	
7	II SEMESTER	Decision Science	Operations Research changed to Decision Scince	**Module 1** Introduction to DS, Basic concepts of DS, Definitions, Optimization, Techniques of OR. Models of DS, Advantages, Classifications. Phases of DS. Applications and Limitations of DS. **Module 2** Concept of Linear Programming and formulation of L.P. models **Module 3** Analysis of transportation problems, Basic feasible solutions	4

				Module 4 Network construction Critical Path Method Program Evaluation & Review Technique (PERT) **Module 5** Introduction & Assumptions in a game. Pay-off matrix and types of games, Pure strategy games, Games without saddle points. Introduction, Types of decision Making, Decision making under certainty. Decision making under uncertainty, Decision making under risk (EMV, EOL, EVPI) **Module 6** Replacement of items that deteriorates with time (Case I).Replacement of items that deteriorates with time (Case II).Optimum replacement policy.Replacement of items that fails suddenly, Types of simulation, Monte-Carlo method, random number generation.	
8	II SEMESTER			Work shop on ABCD Analysis Framework Practice based Experiential learning II Certificate course	
	3 SEMESTER	Innovation and Strategic Management	Management Information System and analytics changed to Innovation and Strategic Management	**Module 1** Innovation management, Classes of Decisions; Levels of Strategy; Core Competence.Strategic management process; Benefits and relevance of strategic	4

				management.Mission & vision; elements of mission statement; mission &strategy.Objectives, Goals & Targets; Importance, Hierarchy, Classification and factors affecting objectives. SWOT Analysis; techniques of environmental analysis; TOWS Matrix. **Module 2** Innovation as a business strategy, Steps in strategy implementation. Approaches to strategy implementation.Organisational structure; Types; strategy-structure relationship. Factors influencing organisation structure. 7-S Framework; Strategic Leadership **Module 3** Operational control; types; preventive control.Essential features of an effective evaluation & control system.Strategic control standards. Benchmarking, PIMS Program **Module 4** Growth and Stability Strategies. Retrenchment and Combination Strategies- Corporate Restructuring. Business Portfolio Analysis; BCG Matrix, GE Multifactor portfolio matrix and other portfolio models **Module 5** Competitor analysis: value chain; Generic competitive strategies, Porters Competitive	

				strategies & Competitive advantage. Globalisation; factors favouring & strategies. Operations and Marketing strategies, HRM, Finance and Purchasing strategies **Module 6** Corporate Governance; importance; prerequisites. Corporate Social Responsibility, Business Ethics. Social Audit; need, scope & objectives . Types of Social Audit.	
	3 SEMESTER			Workshop on Ideal Business Model Practice based experimental Learning III Certification	
	4 SEMESTER		International Business Environment **Module 1: Introduction to International Business** Importance, nature and scope of International business; modes of entry into International Business, internationalization process and managerial implications, Approaches to international business, Trade Theories **Practice based learning:** Modes of entry into international business.**Lecture Concepts:** **Module 2: International Business Environment** Framework for analyzing international business	**Module 1: Introduction to International Business** Importance, nature and scope of International business; modes of entry into International Business, internationalization process and managerial implications, Approaches to international business, Trade Theories **Practice based learning:** Modes of entry into international business.**Lecture Concepts:** **Module 2: International Business Environment** Framework for analyzing international business environment – Domestic, foreign and global environments and their impact	4

			environment – Domestic, foreign and global environments and their impact on international business decisions. Global Trading Environment: World trade in goods and services – Major trends and developments; World trade and protectionism – Tariff and non-tariff barriers; Counter trade **Practice based learning:** International Business analysis frameworks. **Module 3: International Financial Environment** **Lecture Concepts:** Foreign investments-Pattern, Structure and effects; Movements in foreign exchange and interest rates and then impact on trade and investment flows. Capital flows, foreign investment flow and barriers: FDI and FIIs **Practice Based learning:** Practical case study learnings on International **Module 4: International Economic Environment** **Lecture Concepts:** World Economic and Trading Situation; International Economic Institution and Agreements; WTO, IMF, World Bank UNCTAD, Agreement on Textiles and Clothing (ATC), GSP, GSTP and other International agreements; International commodity trading and	on international business decisions. Global Trading Environment: World trade in goods and services – Major trends and developments; World trade and protectionism – Tariff and non-tariff barriers; Counter trade **Practice based learning:** International Business analysis frameworks. **Module 3: International Financial Environment** **Lecture Concepts:** Foreign investments-Pattern, Structure and effects; Movements in foreign exchange and interest rates and then impact on trade and investment flows. Capital flows, foreign investment flow and barriers: FDI and FIIs **Practice Based learning:** Practical case study learnings on International **Module 4: International Economic Environment** **Lecture Concepts:** World Economic and Trading Situation; International Economic Institution and Agreements; WTO, IMF, World Bank UNCTAD, Agreement on Textiles and Clothing (ATC), GSP, GSTP and other International agreements; International commodity trading and agreements. BRICS and BRICS Bank International Financial Environment,International Economic Institutions,Foreign	

			agreements. BRICS and BRICS Bank **Practice based learning:** Analysis of impact of various ecocnomic agencies through immersive learning. **Module 5: Regional Economic Groupings** Regionalism vs. multilateralism, Structure and functioning of EC and NAFTA; Regional economic cooperation Issues in foreign investments, MNCs and host and home country relations; technology transfer, Global Operations-need and importance of outsourcing, advantages of outsourcing to India, Global manufacturing system and practices-Current issues and future developments. Global competitiveness; Indicators of competitiveness – competitive advantages of nations. **Practice based learning:** Current issues and future developments. Global competitiveness - immersive learnings and activities Module 6: Multinational Corporations and their involvement in International Business	Direct Investment (FDI) and Multinational Enterprises (MNEs),Macroeconomic Factors in the Global Economy,Contemporary Issues in the International Economic Environment Practice based learning: **Practice based learning:** Analysis of impact of various ecocnomic agencies through immersive learning. **Module 5: Regional Economic Groupings** Regionalism vs. multilateralism, Structure and functioning of EC and NAFTA; Regional economic cooperation Issues in foreign investments, MNCs and host and home country relations; technology transfer, Global Operations-need and importance of outsourcing, advantages of outsourcing to India, Global manufacturing system and practices-Current issues and future developments. Global competitiveness; Indicators of competitiveness – competitive advantages of nations. **Practice based learning:** Current issues and future developments. Global competitiveness - immersive learnings and activities Module 6: Multinational Corporations and their	

			Issues in foreign investments, MNCs and host and home country relations; technology transfer, Global Operations-need and importance of outsourcing, advantages of outsourcing to India, Global manufacturing system and practices-Current issues and future developments. Global competitiveness; Indicators of competitiveness – competitive advantages of nations. Practice based learning: Current issues and future developments. Global competitiveness - immersive learnings and activities	involvement in International Business MNC operations and their global impact. introduction to MNCs, their characteristics, and their role in the global economy. Topics include organizational structures, international market entry strategies, global supply chain management, and the economic impact of MNCs on host and home economies. challenges such as political and economic risks, ethical dilemmas, and the need for corporate social responsibility (CSR) and sustainability. Strategic management areas like international marketing, financial management, and risk mitigation are explored, alongside the role of MNCs in globalization and balancing global and local operations. It examines international regulations, trade agreements, and taxation issues while highlighting emerging trends like digital transformation, geopolitical challenges, and global crises. Case studies and practical applications are included to provide insights into real-world MNC operations and strategies.	
	4 SEMESTER			Swayam MOOC 1 Swayam MOOC 2 Certification course	

SRINIVAS UNIVERSITY
INSTITUTE OF HOTEL MANAGEMENT AND TOURISM

PROCEEDINGS OF THE MEETING OF BOARD OF STUDIES HELD ON

20th November 2021 AT 2.00 P.M.

Members Present:

Prof. Swaminathan S- Dean/ Chairperson

Mr. Padmanabha K – Member

Mr. Sreejith O V- Member

Members Absent

1. Mr. Rajesh Kumar – represented by Mr Subrat Saraf
2. Mr. Naren Thimmaiah – represented by Mr. Prashant Prabhu

The chairperson of the BOS in Hotel Management welcomed all the members present. He explained the agenda of the meeting in brief. Then the agenda was taken up for discussion.

- Amendment in the syllabus of B. Sc. ID Programme of Srinivas University for the fresh admission of 2021-2022.
- Review of upcoming events and activities for the fresh batch of 2021-2022.
- Introducing specialised subject for BSCHM Aviation and Revised Curriculum for Final year BSCHM.
- Date and time of the next BOS Meeting.

Agenda 1

This is regarding the notification from the Registrar SU/REG/AFF/2021-22/08 dated 19-07-2021 that the admission of the fresh batch BHMCT/ BSCHM program under Srinivas University will commence in 2021.

As per the protocol, the institution's vision and mission were drafted, along with program-specific objectives for inclusion in the syllabus.

The following general corrections were made in the syllabus:

- Some subjects are shifted between the first, second, third, fourth, fifth & seventh semesters.
- Language was added to Third and Fourth semesters.

The following specific corrections were made in the syllabus:

Sl. No.	SEMESTER	Course	Present Syllabus	Revised Syllabus	% change in the syllabus
	I SEMESTER		Accommodation and Front Office Operation -I 17/HM4/14 17/HM3/14- was renamed	Room Division TH & PR. 21BHMCT15/18 Open Elective subject added colour concepts in Interior 21BSCID108 (Subject offered to BSCID Hygiene and food safety 21BHMCT19/21BSCHM19)	
	II SEMESTER		Accommodation and Front Office Operation -II 17/HM4/24 17/HM3/24- was renamed	Room Division TH & PR. 21BSCHM25/28, 21BHMCT25/28 Open Elective subject added Landscaping 21BSCID208 (Subject offered to BSCID Food & Beverage Etiquette 21BHMCT29/21BSCHM29)	
	III SEMESTER		Accommodation and Front Office Operation -III 17/HM4/32 17/HM3/32- was renamed	Second Language Communicative Hindi 21BHMCT32/ 21BSCHM32 was added Room Division TH & PR. 21BSCHM35/38, 21BHMCT35/38 Open Elective subject added Art & Craft 21BSCID308 (Subject offered to BSCID Introduction to Hospitality Industry 21BHMCT39/21BSCHM39) Mixology (TH. & PR.) 21BHMCT40/ 21BSCHM40 Subject added Physical Education 21BHMCT301/ 21BSCHM301 Subject was added	

	IV SEMESTER		Food Science Nutrition Th. 17/HM4/43 17/HM3/43 Hotel Accounting & Statistics Th.17/HM4/44 17/HM3/44 Organizational Behaviour Th. 17/HM4/47 17/HM3/47 – shifted to VII Semester Carving Pr. 17/HM4/48 17/HM3/48	Communicative English – II 21BHMCT41/ 21BSCHM41 Communicative Hindi -II 21BHMCT42/21BSCHM42 Subject were added Open Elective subject added Home Automation 21BSCID408 (Subject offered to BSCID Food Science & Nutrition 21BHMCT49/21BSCH49 Constitution of India 21BHMCT50/21BSCHM50 new subject was added ESEP 21BHMCT401/21BSCHM401 new subject was added	
	V SEMESTER		Event Management 17/HM4/53 17/HM3/53-Shifted to VII Semester Hotel Law 17/HM4/54 17/HM3/54 Mixology 17/HM4/58 17/HM358 was shifted to III Semester	Room Division TH & PR. 21BHMCT53/54 21BSCHM53/54 Travel & Tourism Management 21BHMCT58 21BSCHM58 Cost Accounting 21BHMCT59 21BSCHM59 ESEP (Mock Interview) 21BHMCT501 21BSCHM501 Following Subjects were added	
	VII SEMESTER		Culinary Management Th. & Pr. 17/HM4/71 subject name changed Tourism & Cultural Heritage of India 17/HM4/72 Economics 17/HM4/73 Safety, Security and Travel Documentation 17/HM4/74 Financial Management 17/HM4/75 Corporate Communication & Personality Development 17/HM4/76 Field Study- Tourist Destination 17/HM4/78 following subjects were removed	Food Production Th. & Pr. 21BHMCT71P/ 21BHMCT72P Subject renamed Hospitality Marketing 21BHMCT73 Human Resource Management 21BHMCT74 Organizational Behavior 21BHMCT75 Research Methodology 21BHMCT77 Entrepreneurship Development 21BHMCT78 ESEP (Swot Presentation Mock) 21BHMCT79 following subjects were added	

	VIII SEMESTER		Culinary Mgt TH. & PR. / F & B Service Mgt. TH. & PR. Rooms Division Mgt. TH.& PR 17/HM4/81, 17/HM4/85 Subjects shifted to I to V Semester Hospitality Marketing 17/HM4/82 Human Resource Mgt. 17/HM4/83 Entrepreneurship Development & Development Business Strategies 17/HM4/84 Both subjects are shifted to VII Semester	Research on the core area (Specialization training with field study Project) 21BHMCT81 Student sent to on job training	

Agenda 2

Review of upcoming events and activities for the fresh batch of 2021-2022.

The events for the new batch of BHMCT/ B. Sc.HM October 2021 were proposed & passed in the meeting by all the members to get the approval from the Registrar (Academics).

Agenda 3

Introducing specialised subject for BSCHM Aviation and Revised Curriculum for Final year BSCHM.

The specialised subject for B. Sc.HM Aviation and revised curriculum for BSCHM are effective immediately and will be implemented in the upcoming academic semester.

The following faculties were presents.

1. Prof. Swaminathan - Chairman/Dean
1. Mr. Padmanabha K - Member
2. Mr. Sreejith OV - Member
3. Mr. Subrat Saraf - Representative
4. Mr. B. Prashanth Prabhu. - Representative

Prof. Swaminathan S

Chairman

Mr. Padmanabha K

Member

Mr. Sreejith O V

Member

Mr. B. Prashanth Prabhu

(Representative)

Mr. Subrat Saraf

(Representative)

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SRINIVAS UNIVERSITY

INSTITUTE OF MANAGEMENT AND COMMERCE- B.SC. ID

PROCEEDINGS OF THE MEETING OF BOARD OF STUDIES HELD ON

6th August 2021 AT 2.00 P.M.

Members Present:

Prof. Swaminathan S- Dean/ Chairperson

Mrs. Yogeetha Pai – Member

Mr. Bhavani Shankar- Member

Members online Present

1. Ar. Gulshan Roy, Principal Architecture, Gulshan Roy Architecture Inc. Mangaluru
2. Ar. Vasudev N Shet HOD& Professor, Srinivas School of Architecture Valachil,

The chairperson of the BOS in Interior Design welcomed all the members present. He explained the agenda of the meeting in brief. Then the agenda was taken up for discussion.

The BOS discussed the following agenda:

- Amendment in the syllabus of B. Sc. ID Programme of Srinivas University for the fresh admission of 2021-2022.
- Review of upcoming events and activities for the fresh batch of 2021-2022.
- New BOS Members formulated including subject experts from other colleges.
- Date and time of the next BOS Meeting.

Agenda 1

This is regarding the notification from the Registrar SU/REG/AFF/2021-22/08 dated 19-07-2021 that the admission of the fresh batch B.SC. ID. program under Srinivas University will commence in 2021.

As per the protocol, the institution's vision and mission were drafted, along with program-specific objectives for inclusion in the syllabus.

The following general corrections were made in the syllabus:

- Some subjects are shifted between the first, second, third and fourth semesters.
- Second language were added to first, second, third and fourth semesters.

The following specific corrections were made in the syllabus

Sl. No.	Semester	Course	Present Syllabus	Revised Syllabus	% change in the
	I SEMESTER		Previously subject was Engineering Materials 17/BID/102	Second language Hind, Kannada, Malayalam, Other were added (21BSCID102K, 21BSCID102H, 21BSCID102M 21BSCID102O) Subject name was changed to Construction Materials 21BSCID104	
			Free hand Drawing 17/BID/104	Merged with Fundamentals of Design Pr. 21BSCID105	
			Building Service Components 17/BID/105	Merged with Construction Materials Pr. 21BSCID106	
				Open Elective subject added to other courses Color concept in Interior 21BSCID108 (Subject offered to BSCID – Hygiene & Food Safety 21BHMCT19	
	II SEMESTER			Second language Hind, Kannada, Malayalam, Other were added (21BSCID202K, 21BSCID202H, 21BSCID202M 21BSCID202O)	
				Subject added Ergonomics 21BSCID203/ 205(Th. & Pr.)	
				Subject added Computer Aided Design Pr. 21BSCID207	
				Open Elective subject added to other courses Landscaping 21BSCID208 (Subject offered to BSCID – FOOD & Beverages Etiquette 21BHMCT29	
			Site Survey	Adjusted with Construction Material Pr. 21BSCID206	
	III SEMESTER			Second language Hind, Kannada, Malayalam, Other were added (21BSCID302K, 21BSCID302H, 21BSCID302M 21BSCID302O)	

			Art & Architecture 17/BID/301, Landscaping 17/BID/302, Furniture Design 17/BID/303 Design Studio-II 17/BID/305- were renamed and merged Computer Aided Design shifted to II Semester	Introduced new subject like space planning in Interiors (TH & PR.) 21BSCID303, 21BSCID305 Building Service Lighting (21BSCID304/ 306) Computer Aided Modelling added Open Elective subject added to other courses Art & Craft 21BSCID308 (Subject offered to BSCID – Introduction to Hospitality Industry 21BHMCT39 Geometrical Modeling changed to Model Making 21BSCID309	
	IV Semester		Project Management, 17/BID/401 Building & Interior Service 17/BID/403, Interior Perspective- 17/BID/405, Design Studio -III 17/BID/405, Soft Furnishing & Fittings 17/BID406 – were renamed and merged Electrical and Plumbing shifted to III Semester PR.	Second language Hind, Kannada, Malayalam, Other were added (21BSCID402K, 21BSCID402H, 21BSCID402M 21BSCID402O) Introduced new subject like space History of Interiors (TH & PR.) 21BSCID403, 21BSCID405 Construction Detailing Th. & Pr. (21BSCID404/ 406) Interior Design- Residence Pr. 21BSCID407 Open Elective subject added to other courses Home Automation 21BSCID408 (Subject offered to BSCID – Food Science & Nutrition 21BHMCT49	
	V Semester		Cost Accounting 17/BID/503, Presentation Techniques 17/BID/504, Material Collection & Seminar 17/BID/506 Project-I 17/BID/507- were renamed and merged Computer Aided Modeling Shifted to III Semester	Introduced new subject like space Specification, Estimation & Costing (TH & PR.) 21BSCID501, 21BSCID503 Building Services- Plumbing & Sanitation Th. & Pr. (21BSCID502/504) Interior Design- Retail Pr. 21BSCID505	

Agenda 2

Review of upcoming events and activities for the fresh batch of 2021-2022.

The events for the new batch of B. Sc.ID October 2021 were proposed & passed in the meeting by all the members to get the approval from the Registrar (Academics).

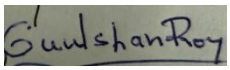
Agenda 3

New BOS Members formulated including subject experts from other colleges.

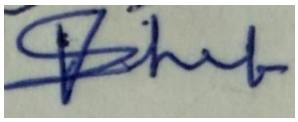
1. Ar. Gulshan Roy, Principal Architecture, Gulshan Roy Architecture Inc. Mangaluru
2. Ar. Vasudev N Shet HOD& Professor, Srinivas School of Architecture Valachil,

It was unanimously accepted by all members to nominate Ar. Gulshan Roy and Ar.Vasudev N Shet as BOS – two external members.

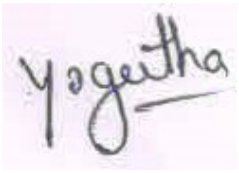
Prof. Swaminathan S
Dean/Chairman



Ar. Gulshan Roy
External member



Ar. Vasudev N Shet
External member



Mrs. Yogeetha Pai
Member

Mr. Bhavani Shankar
Member

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SRINIVAS UNIVERSITY

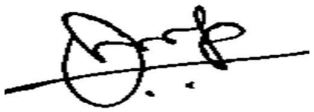
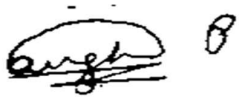
City Office : G.H.S. Road, MANGALURU - 575 001. Karanataka State, INDIA.
Phone No.:0824-2425966, 2444891, Fax : 0824 - 2442766
E-mail:info@srinivasuniversity.edu.in website:www.srinivasuniversity.edu.in

DEPARTMENT : INSTITUTE OF ENGINEERING & TECHNOLOGY

Discipline / Department: Engg & Technology/AIML **Date:** 21.04.2021 **Time:** 2.00 PM

Venue: Board Room SUIET

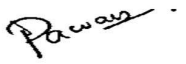
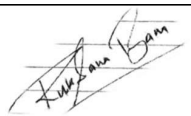
Internal Members

Sl No.	Name of the BoS Members	Designation	Contact Number	Signature
1	Dr. Naveen Kumar J.R.	HOD & Chairman	9341861864	
2	Prof. Anantharama H.	Member	984489887	
3	Prof. Om Prakash V. Bhat	Member	9964025922	
4	Prof. Krishna Kaushik P.	Member	9880243369	

Industry Experts

	Name of the BoS Members	Designation	Contact Numbers	Signature
1	Mr. GK Bhat, CEO, Kakunje Software Mangaluru	Member	8951526765	
2	Mr. Harish Kumar, Accolade Tech Solutions Mangaluru	Member	9900448554	

Alumni Representative

Sl No.	Name of the BoS Members	Designation	Contact Numbers	Signature
1	Mr. Pawan S	Member	9449388474	
2	Ms. Ruksana Banu	Member	8618858266	

SRINIVAS UNIVERSITY

INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Artificial Intelligence & Machine Learning

PROCEEDINGS OF THE MEETING OF BOARD OF STUDIES HELD ON 21st APRIL 2021 @ 1.00 PM.

Members present:

1. Dr. Naveen Kumar J.R. (HOD & Chairman BOS)
2. Prof. Anantharama H. (Member)
3. Prof. Om Prakash V. Bhat (Member)
4. Prof. Krishna Kaushik P. (Member)

The BoS discussed the following agenda:

- Amendment of changes in the syllabus for 2021 Scheme
- Preparation of Board of Examiners list
- Any other specific matter related to the Department activities

Agenda No.1

The Chairman of BOS proposed that in order to enrich the Knowledge and Skills of the students, and to implement the NEP 2020 for the 2021 batch, and set the syllabus accordingly as per the latest industry requirements and orientation towards the skill and employability. It is decided to consider the stakeholders feedback during setting of syllabus, to enhance the level of Knowledge & Skills of B. Tech Artificial Intelligence & Machine Learning Engineering students. Furthermore, inclusion of value-added courses (Employability Skill Enhancement Program, two technical internships and a social internship) and soft skill training was proposed. Hence, it was proposed in the meeting that the syllabus of Scheme 2021 will be forwarded to the Registrar (Academics) for the necessary approval.

Agenda No.2

The Chairman of BoS resolved to approve the Members of BoE and Panel of Examiners for the B. Tech Artificial Intelligence & Machine Learning Examination for approval from the Registrar (Evaluation).

As there was no other matter to be discussed, the meeting was concluded at 2.15 pm.

Dr. Naveen Kumar JR.
Chairperson,BoS

SRINIVAS UNIVERSITY

City Office : G.H.S. Road, MANGALURU - 575 001. Karanataka State, INDIA.
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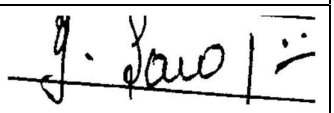
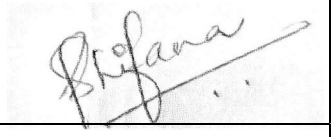
E-mail:info@srinivasuniversity.edu.in website:www.srinivasuniversity.edu.in

DEPARTMENT : INSTITUTE OF ENGINEERING & TECHNOLOGY

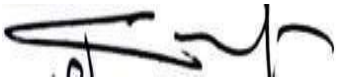
Discipline / Department: Engg & Technology/ CSE **Date:** 21.04.2021 **Time:** 1.00 PM

Venue: Board Room SUIET

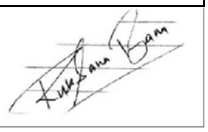
Internal Members

Sl No.	Name of the BoS Members	Designation	Contact Number	Signature
1	Prof. Sarojini Y	Chairperson	9787893935	
2	Mrs. Shifana Begum	Member	8050370428	
3	Prof. Swarna H. R	Member	9844623432	
4	Prof. Santhosh	Member	9740844792	

Industry Experts

	Name of the BoS Members	Designation	Contact Numbers	Signature
1	Mr. GK Bhat, CEO, Kakunje Software Mangaluru	Member	8951526765	
2	Mr. Harish Kumar, Accolade Tech Solutions Mangaluru	Member	9900448554	

Alumni Representative

Sl No.	Name of the BoS Members	Designation	Contact Numbers	Signature
1	Mr. Pawan S	Member	9449388474	
2	Ms. Ruksana Banu	Member	8618858266	

SRINIVAS UNIVERSITY

INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Computer Science & Engineering

PROCEEDINGS OF THE MEETING OF BOARD OF STUDIES HELD ON 21st APRIL 2021 @ 1.00 PM.

Members present:

1. Prof. Sarojini Y : Chairperson
2. Prof. Shifana Begum : Member
3. Prof. Swarna H.R : Member
4. Prof. Santhosh : Member

The BoS discussed the following agenda:

- Amendment of changes in the syllabus for 2021 Scheme
- Preparation of Board of Examiners list
- Any other specific matter related to the Department activities

Agenda No.1

The Chairman of BoS proposed that in order to enrich the Knowledge and Skills of the students and to implement the NEP 2020 for the 2021 Batch and set the syllabus accordingly as per the latest industry requirements and orientation towards the skill and employability. It is decided to consider the stakeholders feedback during setting of syllabus. It is also discussed and decided to incorporate the Value-Added Subjects (Employability Skill Enhancement Programmes-ESEP and Social Internship) like Soft Skill Training to enhance the level of Knowledge & Skills of B. Tech and M. Tech in Computer Science and Engineering. The Chairman and the members of BoS emphasized the need for the preparation of the Scheme and syllabus for the first year and also the remaining years as per the NEP 2020 requirements and specifications of AICTE and UGC in accordance to fulfill the graduates' attributes required for the B. Tech and M. Tech in Computer and Engineering Aspirants. The members of the BoS agreed propose to introduce Global Certificate for all the students and project/mini project for all the courses.

Agenda No.2

The Chairman of BoS resolved to approve the Members of BoE and Panel of Examiners for the B. Tech and M. Tech in Computer and Engineering Examination for approval from the Registrar (Evaluation).

As there was no other matter to be discussed, the meeting was concluded at 2.15 pm.

Prof. Sarojini Y
Chairperson, BoS

SRINIVAS UNIVERSITY
INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, UGC New Delhi & Govt. of Karnataka)
Mukka, Surathkal, Mangaluru—574 146

MECHANICAL ENGINEERING

The following specific corrections were made in the syllabus

<table>
<tr><th>Semester</th><th>Present Subjects</th><th>Revised Subjects</th></tr>
<tr><td>3</td><td>

Sl. No	Subject Code	Title
1	17SME31	Engineering Mathematics-III
2	17SME32	Basic Thermodynamics
3	17SME33	Mechanics of Materials
4	17SME34	Manufacturing Process-I
5	17SME35	Material Science & Metallurgy
6	17SME36	Computer Aided Machine Drawing
7	17SMEL37	Material Testing Lab
8	17SMEL38	Machine Shop Lab

</td><td>

Sl. No.	Subject Code	Title
1	21SMA31	Engineering Statistics
2	21SME32	Engineering Thermodynamics
3	21SME33	Engineering Mechanics
4	21SME34	Manufacturing Processes
5	21SME35	Computer Aided Machine Drawing
6	21SMEL36	Material Testing Lab
7	21SMEL37	Casting Simulation Lab
8	21SQA38	Employability Skills Enhancement Programme 1 (ESEP 1)
9	21SME30	International Certification Course on Current Trends - 1

</td></tr>
<tr><td></td><td>Note:</td><td>

Subject 1: The subject Engineering Statistics is introduced as subject 1 to inculcate the knowledge of statistics like Probability and statistical methods.
Subject 4: Instead of Manufacturing Process -I, the subject name is given as Manufacturing Processes with inclusion of Powder Metallurgy.
Subject 5: Subject 5 in 2017 has removed and 6th subject is shifted as 5th subject.
Subject 6: Subject 7 is shifted as 6th in 2021 with inclusion of creep test on Lead-Tin alloy
Subject 7: New Lab, Casting Simulation Lab is introduced as subject 7 to gain knowledge on casting of machine components.

</td></tr>
</table>

		➢ **Subject 8:** New course Employability Skills Enhancement Programme-I is introduced as subject 8, to inculcate the knowledge of aptitude tests for various exams. ➢ **Subject 9:** New course International Certification Course on Current Trends is introduced as subject 9, to build the students industry ready.

Semester	Present Subjects	Revised Subjects
4		

Sl. No	Subject Code	Title
1	17SME41	Engineering Mathematics-IV
2	17SME42	Applied Thermodynamics
3	17SME43	Kinematics of Machines & Simulations
4	17SME44	Fluid Mechanics
5	17SME45	Mechanical Measurement And Metrology
6	17SME46	Manufacturing Process-II
7	17SMEL47	Foundry Lab
8	17SME4L8	Mechanical Measurement and Metrology Lab

Sl. No.	Subject Code	Title
1	21SMA41	Numerical Techniques & Integral Transforms
2	21SME42	Applied Thermal Engineering
3	21SME43	Fluid Mechanics
4	21SME44	Advanced Manufacturing Processes
5	21SME45	Mechatronics
6	21SMEL46	Fluid Machinery Lab
7	21SMEL47	Mechatronics & 3D Printing Lab
8	21SQA48	Employability Skills Enhancement Programme 2 (ESEP 2)
9	21SME40	International Certification Course on Current Trends - 2

	Note:	➢ **Subject 1:** The subject Numerical Techniques and Integral Transforms has been introduced as subject 1 to inculcate the knowledge of solving Laplace transforms and ordinary differential equations of first and second order using numerical techniques approach. ➢ **Subject 3:** Subject 4 is shifted to subject 3 (Fluid Mechanics). ➢ **Subject 4:** Subject 6 is shifted to subject 4 (Advanced Manufacturing Processes) with inclusion of Lathe machines.

		➢ **Subject 5:** Subject 5 in 2017 is removed and new subject Mechatronics has been introduced . ➢ **Subject 6:** Subject 6 is shifted to 4th in 2021 and new subject Fluid Machinery Lab has been introduced. ➢ **Subject 7:** New subject, Mechatronics and 3D Printing Lab is introduced as subject 7 to provide knowledge on Sensors and Actuators. ➢ **Subject 8:** New course Employability Skills Enhancement Programme-II has been introduced as subject 8, to inculcate the knowledge of aptitude tests for various exams. ➢ **Subject 9:** New course International Certification Course on Current Trends 2 is introduced as subject 9, to prepare the students industry ready.	

<table>
<tr><th>Semester</th><th>Present Subjects</th><th>Revised Subjects</th></tr>
<tr><td>5</td><td>
<table>
<tr><th>Sl. No</th><th>Subject Code</th><th>Title</th></tr>
<tr><td>1</td><td>17SME51</td><td>Management and Economics</td></tr>
<tr><td>2</td><td>17SME52</td><td>Design of Machine Elements-I</td></tr>
<tr><td>3</td><td>17SME53</td><td>Dynamics of Machines</td></tr>
<tr><td>4</td><td>17SME54</td><td>Turbo Machine</td></tr>
<tr><td>5</td><td>17SME55</td><td>Finite Element Method</td></tr>
<tr><td>6</td><td>17SME56</td><td>Energy Engineering</td></tr>
<tr><td>7</td><td>17SMEL57</td><td>Fluid Mechanics & Machines Lab</td></tr>
<tr><td>8</td><td>17SMEL58</td><td>Energy Conversion Engg. Lab</td></tr>
</table>
</td><td>
<table>
<tr><th>Sl. No.</th><th>Subject Code</th><th>Title</th></tr>
<tr><td>1</td><td>21SME51</td><td>Design of Machine Elements</td></tr>
<tr><td>2</td><td>21SME52</td><td>Turbo Machines</td></tr>
<tr><td>3</td><td>21SME53</td><td>Simulation of Kinematic Mechanisms</td></tr>
<tr><td>4</td><td>21SME54</td><td>Renewable Energy Sources</td></tr>
<tr><td>5</td><td>21SME55</td><td>Finite Element Analysis</td></tr>
<tr><td>6</td><td>21SMEL56</td><td>CIM & CNC Lab</td></tr>
<tr><td>7</td><td>21SMEL57</td><td>Energy Conversions Lab</td></tr>
<tr><td>8</td><td>21SME58</td><td>Internship – 1</td></tr>
<tr><td>9</td><td>21SQA58</td><td>Employability Skills Enhancement Programme 3 (ESEP 3)</td></tr>
<tr><td>10</td><td>21SMES01</td><td>MOOC -1 (Department Specific)</td></tr>
<tr><td>11</td><td>21SME50</td><td>International Certification Course on Current Trends - 3</td></tr>
</table>
</td></tr>
<tr><td></td><td>Note:</td><td>

Subject 1: Subject 2 is shifted to subject 1 (Design of Machine Elements)
Subject 2: Subject 4 is shifted to subject 2 (Turbo Machines)
Subject 3: New subject Simulation of Kinematic Mechanisms is introduced instead of Dynamic of machines (to understand the basic concepts of Mechanical Engineering)
Subject 4: New subject is introduced as Renewable Energy Sources (to understand the core concepts of Energy Engineering)
Subject 6: New lab CIM and CNC lab has been introduced instead of theory subject.
Subject 7: Subject 8 lab has been shifted to subject 7 lab.
Subject 8: Internship 1 has been introduced to get industrial exposure
Subject 9: New subject Employability Skills Enhancement Programme 3 is introduced to inculcate the knowledge of aptitude tests for various exams.

</td></tr>
</table>

		➢ **Subject 10**: MOOC-1 has been introduced to get to gain extra knowledge. ➢ **Subject 11**: New course International Certification Course on current trends is introduced as subject 11 to build the industry ready. .	

Semester	Present Subjects	Revised Subjects	
6			

Sl. No	Subject Code	Title
1	17SME61	Advanced Finite Element Analysis
2	17SME62	Design of Machine Elements-II
3	17SME63	Heat & Mass Transfer
4	17SME64X	Professional Elective -1
5	17SME65X	Professional Elective- 2
6	17SME66X	Open Elective- I
7	17SMEL67	Heat & Mass Transfer Lab
8	17SMEL68	Computer Integrated Manufacturing Lab
9	17SME69L	Mini Project

Sl. No.	Subject Code	Title
1	21SME61	Fundamentals of IoT
2	21SME62	Heat & Mass Transfer
3	21SME63X	Core Elective-1
4	21SME64X	Core Elective -2
5	21SBM65X	Open Elective
6	21SMEL66	Heat Transfer Lab
7	21SMEL67	IoT & Automation Lab
8	21SQA68	Employability Skills Enhancement Programme 4 (ESEP 4)
9	21SMES02	MOOC – 2 (Department Specific)
10	21SME60	International Certification Course on Current Trends - 4

Note:

- Subject 1: New course Fundamentals of IOT is introduced as subject 1 to inculcate the knowledge of IOT in Mechanical Engineering.
- Subject 2: Subject 3 is shifted to subject 2 (Heat and Mass Transfer)
- Core elective 1 is introduced as subject 3 (to understand the core concepts of Mechanical Engineering)
- Core elective 2 is introduced as subject 4 (to understand the core concepts of Mechanical Engineering)
- Open elective is introduced as subject 5 (aim to incorporate interdisciplinary knowledge in approach)

Semester	Present Subjects	Revised Subjects
7	<table><tr><th>Sl. No</th><th>Subject Code</th><th>Title</th></tr><tr><td>1</td><td>17SME71</td><td>Mechanical Vibrations</td></tr><tr><td>2</td><td>17SME72</td><td>Computer Aided Manufacturing</td></tr><tr><td>3</td><td>17SME73X</td><td>Professional Elective- 3</td></tr><tr><td>4</td><td>17SME74X</td><td>Professional Elective- 4</td></tr><tr><td>5</td><td>17SME75X</td><td>Open Elective- II</td></tr><tr><td>6</td><td>17SMEL76</td><td>Design and Experimental Stress Analysis Lab</td></tr><tr><td>7</td><td>17SMEL77</td><td>MAT Lab</td></tr><tr><td>8</td><td>17SME78L</td><td>Project Work – Phase I</td></tr></table>	<table><tr><th>Sl. No.</th><th>Subject Code</th><th>Title</th></tr><tr><td>1</td><td>21SME71</td><td>Control Engineering</td></tr><tr><td>2</td><td>21SME72</td><td>Electric Vehicle Technology</td></tr><tr><td>3</td><td>21SME73</td><td>Automation in Manufacturing</td></tr><tr><td>4</td><td>21SME74X</td><td>Core Elective – 3</td></tr><tr><td>5</td><td>21SME75</td><td>Composite Materials</td></tr><tr><td>6</td><td>21SMEL76</td><td>Computer Aided Manufacturing Lab</td></tr><tr><td>7</td><td>21SME77</td><td>Mini Project</td></tr><tr><td>8</td><td>21SME78</td><td>Internship – 2</td></tr><tr><td>9</td><td>21SQA79</td><td>Employability Skill Enhancement Programme (ESEP) - Patent Filing & IPR</td></tr><tr><td>10</td><td>21SSI01</td><td>Social Internship</td></tr></table>
	Note:	1. Mechanical Vibrations ➢ 2017 Scheme (17SME): 17SME71 - Mechanical Vibrations ➢ Focus: Vibration analysis in mechanical systems (machines, vehicles). ➢ 2021 Scheme (21SME): No equivalent course. 2. Computer Aided Manufacturing (CAM) ➢ 2017 Scheme (17SME): 17SME72 - Computer Aided Manufacturing ➢ Focus: Theoretical and practical aspects of CAM, CNC systems, and machine tools. ➢ 2021 Scheme (21SME): 21SMEL76 - Computer Aided Manufacturing Lab ➢ Focus: Practical lab work on CAM software, CNC machining, and automation. 3. Electric Vehicle Technology ➢ 2017 Scheme (17SME): No equivalent course. ➢ 2021 Scheme (21SME): 21SME72 - Electric Vehicle Technology ➢ Focus: Electric vehicle systems, batteries, motors, and charging technologies. 4. Automation in Manufacturing ➢ 2017 Scheme (17SME): No equivalent course. ➢ 2021 Scheme (21SME): 21SME73 - Automation in Manufacturing ➢ Focus: Robotics, automation systems, IoT, and smart manufacturing techniques. 5. Composite Materials

- 2017 Scheme (17SME): No equivalent course.
- 2021 Scheme (21SME): 21SME75 - Composite Materials
- Focus: Advanced materials like carbon fiber, polymers, and composite structures.

6. Core Elective
   - 2017 Scheme (17SME):
   - 17SME73X - Professional Elective-3 Focus: Specialized elective chosen from a professional list.
   - 17SME74X - Professional Elective-4 Focus: Another specialized elective option.
   - 2021 Scheme (21SME): 21SME74X - Core Elective
   - Focus: Specialized elective course chosen from a predefined list.
7. Open Elective
   - 2017 Scheme (17SME): 17SME75X - Open Elective-II
   - Focus: Elective from non-core areas, possibly from other engineering disciplines.
   - 2021 Scheme (21SME): No equivalent course.
8. Project Work
   - 2017 Scheme (17SME): 17SME78L - Project Work – Phase I
   - Focus: A larger, ongoing project with an emphasis on research or design.
   - 2021 Scheme (21SME): 21SME77 - Mini Project
   - Focus: A small project applying practical concepts to real-world problems.
9. Internship
   - 2017 Scheme (17SME): No equivalent course.
   - 2021 Scheme (21SME): 21SME78 - Internship
   - Focus: Industry experience, typically for a few months.
10. Skill Enhancement
    - 2017 Scheme (17SME): No equivalent course.
    - 2021 Scheme (21SME): 21SQA79 - Employability Skill Enhancement Programme (ESEP) - Patent Filing & IPR

		➢ Focus: Skills in intellectual property, patent filing, and innovation. 11. Social Responsibility ➢ 2017 Scheme (17SME): No equivalent course. ➢ 2021 Scheme (21SME): 21SSI01 - Social Internship ➢ Focus: Working on projects that benefit society.

Semester	Present Subjects	Revised Subjects
8	<table><tr><th>Sl. No</th><th>Subject Code</th><th>Title</th></tr><tr><td>1</td><td>17SME81</td><td>Control Engineering</td></tr><tr><td>2</td><td>17SME82X</td><td>Professional Elective- 5</td></tr><tr><td>3</td><td>17SME83X</td><td>Open Elective-III</td></tr><tr><td>4</td><td>17SME84L</td><td>Project Work – Phase II</td></tr><tr><td>5</td><td>17SME85L</td><td>Technical Seminar</td></tr><tr><td>6</td><td>17SME86L</td><td>Internship</td></tr></table>	<table><tr><th>Sl. No.</th><th>Subject Code</th><th>Title</th></tr><tr><td>1</td><td>21SME81</td><td>Technical Seminar</td></tr><tr><td>2</td><td>21SMES03</td><td>MOOC-3</td></tr><tr><td>3</td><td>21SME82</td><td>Project (With Patent Application)</td></tr></table>
	Note:	**Common Subjects:** • Technical Seminar (17SME81 / 21SME81) appears in both schemes with the same credit (1 credit). **New Subjects in the Second Scheme (21 Series):** • 21SME82: This appears to be a Project with Patent Application, which is a significant change compared to Professional Elective-5 in the first scheme. • 21SMES03: This is MOOC-3, which doesn't exist in the 2017 scheme.

Srinivas University
College of Engineering &Technology, Mukka

Department of Electronics and Communication Engineering

Board of Studies Proceeding

Proceedings of the Meeting of the Board of Studies in Electronics and Communication Engineering held on 22nd April, 2017, 2.00 PM at Seminar Hall, Main Building, Srinivas University, Mangalore.

At the outset, Prof. Nagaraja N S, Chairperson of the BOS in Electronics and Communication Engineering applauded all the members present, explained the purpose of the meeting and the agenda in brief. Then the agenda was taken up for discussion.

Agenda-1: **Introduction** of **Graduate program in Electronics and Communication Engineering and preparation of scheme of instruction, scheme of examination and detailed Curriculum**.

The Chairperson explained briefly about the establishment of SRINIVAS University and the programs being introduced under SRINIVAS University. He said that the university is intending to start other B Tech program in various branches of engineering. He also explained the features of CBCS/CAGP education in the University which has been committed to follow since its inception itself.

Herewith, He provided the draft syllabus of the said programs prepared by the Faculty of SRINIVAS UNIVERSITY and also explained the commitment of the University in adopting CBCS-CAGP pattern of education and gave an overview of SRINIVAS University Regulations for CBCS-CAGP and requested the Board to discuss on the issue and take appropriate decision and help the university to start the said programs from the academic year 2017-18.

The BOS members discussed the agenda in detail and drafted the course curriculum including the scheme of instruction, eligibility criteria, etc. for B Tech in Electronics and Communication Engineering and resolved as under.

Resolution:

The Board unanimously resolved to recommend to the University to introduce B Tech in Electronics and Communication Engineering program in Srinivas University from the Academic Year 2017-18 and also recommended to adopt the Scheme of Instruction, scheme of examination and detailed Curriculum for B Tech in Electronics and Communication Engineering drafted as per CBCS and CAGP regulations (Annexure-I, II and III).

Agenda 2: Preparation of Scheme of Examination and Pattern of Question Papers

The Chairperson explained the guidelines relating to scheme of examination /and pattern of question papers and requested the Board to work out the Scheme of Examination and decide about the pattern of question papers to be adopted for the said programs. Accordingly, the Board went through the guidelines of the Scheme of Examination provided to the board and prepared the detailed scheme of examination and pattern of question papers for B Tech in Electronics and Communication Engineering and resolved as under.

Board resolved to recommend to the University to accept the pattern of question papers prepared by this BOS for B Tech in Electronics and Communication Engineering and to adopt the same in Srinivas University from the academic year 2017-18.

Agenda-3: Preparation of Panel of Examiners

The Chairperson requested the Board Members to prepare the Panel of Examiners for the 1st and 2nd Semester Examination for the B Tech in Electronics and Communication Engineering.

Resolution:

The Board prepared the Panel of Examiners (internal and external) for the 1st and 2nd Semester end Examination for the B Tech in Electronics and Communication Engineering and resolved to recommend the same to the University.

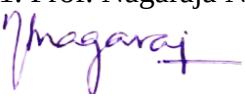
Agenda -4: Other topics discussed with the permission of the chair.

- BOS Members recommended introducing Seminar in all Semesters
- BOS Members recommended introducing industrial training (internship) in 4th Semester
- BOS members recommended giving flexibility to select soft core subjects and also give scope for fast learners.
- BOS members recommended reducing class room teaching and increasing laboratory component in curriculum.

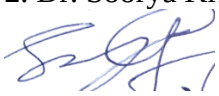
At the end, the Chairperson thanked all the members for having spared their valuable time and extended their cooperation.

Members present along with their signature

1. Prof. Nagaraja N. S.



2. Dr. Soorya Krishna K



3. Prof. B. Shree Ganesha Kedilaya

4. Prof. Gourish Hegde

5. Prof. Omprakash P Bhat

6. Prof. Krishna Kaushik

7. Prof. Ananthram H

Srinivas University
Institute of Engineering &Technology, Mukka

Department of Electronics and Communication Engineering

Board of Studies Proceeding

Proceedings of the meeting of board of studies held on 21st April 2021 @ 1.00 pm.

The BoS discussed the following agenda:

- Amendment of changes in the syllabus for 2021 Scheme
- Preparation of Board of Examiners list
- Any other specific matter related to the Department activities

Agenda No.1

The Chairman of BoS proposed that in order to enrich the Knowledge and Skills of the students and to implement the NEP 2020 for the 2021 Batch and set the syllabus accordingly as per the latest industry requirements and orientation towards the skill and employability. It is decided to consider the stakeholders feedback during setting of syllabus. It is also discussed and decided to incorporate the Value-Added Subjects (Employability Skill Enhancement Programmes-ESEP and Social Internship) like Soft Skill Training to enhance the level of Knowledge & Skills of B. Tech Electronics and Communication Engineering students. The Chairman and the members of BoS emphasized the need for the preparation of the Scheme and syllabus for the first year and also the remaining years as per the NEP 2020 requirements and specifications of AICTE and UGC in accordance to fulfil the graduates' attributes required for the B. Tech Electronics and Communication Engineering Aspirants. The members of the BoS agreed the proposal.

Agenda No.2

The Chairman of BoS resolved to approve the Members of BoE and Panel of Examiners for the B. Tech Electronics and Communication Engineering Examination for approval from the Registrar (Evaluation).

As there was no other matter to be discussed, the meeting was concluded at 2.15 pm.

Internal Members

Prof. Vijayalatha: Chairperson

Prof. Omprakash P Bhat: Member

Prof. Krishna Kaushik: Member

Prof. Ananthram H: Member

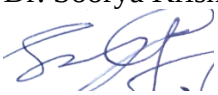
Industry Experts

Er. Mahesh Kumar

Er. Praveen Krishnamurthy

External Members

Dr. Soorya Krishna K



Prof. Gourish Hegde

Alumni Members

Ms. Ananya

Ms. Lavanya

Srinivas University
Institute of Engineering &Technology, Mukka

Department of Electronics and Communication Engineering

The following changes were made to the 2021 syllabus in comparison to the 2017 regulations:

Present Subjects

SL. No	Subject code	Title
1.	17SEC31	Engineering Mathematics -III
2.	17SEC32	Analog Electronics Circuit
3.	17SEC33	Computer Organization
4.	17SEC34	Digital Logic Design
5.	17SEC35	Microprocessors
6.	17SEC36	Signals and Systems
7.	17SECL37	Analog Electronics Lab
8.	17SECL38	Digital Electronics and Microprocessor Lab

Revised Subjects

SL. No	Subject Code	Title
1	21SMA31	Engineering Statistics
2	21SEC32	Analog & Digital Electronics Circuit Analysis
3	21SEC33	Computer Architecture Design
4	21SEC34	Signals and Systems
5	21SEC35	Digital System Design Using HDL
6	21SECL36	Analog & Digital Electronics Circuit Analysis Lab
7	21SECL37	Digital System Design Using HDL Lab
8	21SQA38	Employability Skills Enhancement Programme 1 (ESEP 1)
9	21SEC30	International Certification Course on Current Trends - 1

Changes Made in the 2021 Syllabus Compared to the 2017 Regulations:

Subject 1:
- Engineering Statistics introduced, replacing Engineering Mathematics.
- Syllabus content changed by 80%.

Subject 2:
- Analog and Digital Electronics Circuit Analysis introduced, replacing Analog Electronics Circuit.
- Syllabus content changed by 100%.

Subject 3:
- Computer Architecture introduced, replacing Computer Organization.
- Syllabus content changed by 80%.

Subject 4:
- Digital System Design Using HDL introduced, replacing Microprocessor.
- Syllabus content changed by 100%.

Additional Enhancements in the 2021 Scheme:
- Inclusion of an Employability Skills Enhancement Programme.
- Addition of an International Certificate Course on Current Trends.

Structural Change:
- Reduced the number of theory subjects from 6 to 5.

SL.No	Subject code	Title
1.	17SMA41	Engineering Mathematics-IV
2.	17SEC42	Design and Analysis of Algorithms
3.	17SEC43	Linear ICs and Circuit Analysis
4.	17SEC44	Object Oriented Concepts
5.	17SEC45	Data Communication
6.	17SEC46	Principles of Communication Systems
7.	17SECL47	Data structures and Algorithms Lab
8.	17SECL48	Linear ICs and Analog Communication Lab

Sl. No.	Subject Code	Title
1	21SMA41	Numerical Techniques and Integral Transforms
2	21SEC42	Communication System
3	21SEC43	VLSI Architecture
4	21SEC44	Information Theory and Coding
5	21SEC45	Computer Networks
6	21SECL46	Communication System Lab
7	21SECL47	Computer Networks Lab
8	21SQA48	Employability Skills Enhancement Programme – 2 (ESEP – 2)
9	21SEC40	International Certification Course on Current Trends - 2

Changes Made in the 2021 Syllabus Compared to the 2017 Regulations:

Subject 1:

- Numerical Techniques and Integral Transforms introduced, replacing Engineering Mathematics IV.
- Syllabus content changed by 60%.

Subject 2:

- Communication Systems introduced, replacing Design and Analysis of Algorithms.
- Syllabus content changed by 100%.

Subject 3:

- VLSI Circuits from the 6th semester shifted to the 4th semester and renamed VLSI Architecture.

Subject 4:

- Information Theory and Coding introduced, replacing Object-Oriented Concepts.
- Syllabus content changed by 100%.

Subject 5:

- Data Communication renamed and modified into Computer Networks.

Additional Enhancements in the 2021 Scheme:

- Inclusion of an Employability Skills Enhancement Programme.
- Addition of an International Certificate Course on Current Trends.

Structural Change:

- Reduced the number of theory subjects from 6 to 5.

SL.No	Subject code	Title
1	17SEC51	Management & Entrepreneurship
2	17SEC52	Electromagnetic Waves and Propagation
3	17SEC53	Digital Signal Processing
4	17SEC54	Microcontrollers & Embedded Systems
5	17SEC55	Operating System
6	17SEC56	Instrumentation and Control Systems
7	17SECL57	Signals and EM Waves Lab
8	17SECL58	Embedded System Design Lab

SL. No	Subject Code	Title
1	21SEC51	Digital Signal Processing
2	21SEC52	Sensors and Actuators
3	21SEC53	Microcontrollers and Embedded System
4	21SEC54	Introduction to Artificial Intelligence
5	21SEC55	Virtual Reality
6	21SECL56	Artificial Intelligence Lab
7	21SECL57	Microcontroller and Embedded System Lab
8	21SEC58	Internship -1
9	21SQA58	Employability Skills Enhancement Programme 3 (ESEP 3)
10	21SECS01	MOOC – 1
11	21SEC50	International Certification Course on Current Trends - 3

Changes Made in the 2021 Syllabus Compared to the 2017 Regulations:

Subject Reordering:

- The 3rd subject was shifted to the 1st subject.
- The 4th subject was shifted to the 3rd subject.

Subject 2:

- Sensors and Actuators introduced, replacing Electromagnetic Waves and Propagation.
- Syllabus content changed by 100%.

Subject 4:

- Introduction to Artificial Intelligence introduced, replacing Operating System.
- Syllabus content changed by 100%.

Subject 5:

- Virtual Reality introduced, replacing Instrumentation and Control Systems.
- Syllabus content changed by 100%.

Additional Enhancements in the 2021 Scheme:

- Introduction of MOOCs (Massive Open Online Courses).
- Inclusion of an Employability Skills Enhancement Programme.
- Addition of an International Certificate Course on Current Trends.

Structural Change:

- Reduced the number of theory subjects from 6 to 5.

SL.No	Subject code	Title
1	17SEC61	Advanced communication
2	17SEC62	VLSI Circuits
3	17SEC63	System Verilog
4	17SEC64X	Professional Elective –1
5	17SEC65X	Professional Elective - 2
6	17SEC66	Open Elective - I
7	17SECL67	DSD and VLSI Lab
8	17SECL68	Advanced Communication Lab
9	17SECP69	Mini Project

Sl. No.	Subject Code	Title
1	21SEC61	Antenna and Wave Propagation
2	21SEC62	Digital Image Processing in AI using Python
3	21SEC63X	Core Elective - 1
4	21SEC64X	Core Elective - 2
5	21SBM65X	Open Elective
6	21SECL66	DSP and Antenna Design Simulation Lab
7	21SECL67	Digital Image Processing using Python Lab
8	21SQA68	Employability Skills Enhancement Programme 4 (ESEP – 4)
9	21SECS02	MOOC – 2
10	21SEC60	International Certification Course on Current Trends – 4

Changes Made in the 2021 Syllabus Compared to the 2017 Regulations:

Subject Shifts and Modifications:

- Electromagnetic Waves and Propagation (5th semester subject) shifted to the 6th semester and renamed Antenna Wave Propagation.

Subject 2:

- Digital Image Processing in AI Using Python introduced as a new subject.
- Syllabus content changed by 100%.

Elective Introductions:

- Core Elective 1 introduced as Subject 3 to enhance understanding of core concepts in Electronics and Communication Engineering.
- Core Elective 2 introduced as Subject 4 to deepen knowledge of core concepts in Electronics and Communication Engineering.
- Open Elective introduced as Subject 5, aimed at incorporating interdisciplinary knowledge.

Additional Enhancements in the 2021 Scheme:

- Introduction of MOOCs (Massive Open Online Courses).
- Inclusion of an Employability Skills Enhancement Programme.
- Addition of an International Certificate Course on Current Trends.

Structural Change:

Reduced the number of theory subjects from 6 to 5.

SL. No	Subject code	Title
1	17 SEC71	Wireless Communication and Networks
2	17SEC72	Power Electronics
3	17SEC73X	Professional Elective -C
4	17SEC74X	Professional Elective - D
5	17SEC75X	Open Elective - II
6	17SECL76	Data Communication Lab
7	17SECL77	Power Electronics lab
8	17SEC78	Main Project Phase - I

SL. No	Subject Code	Title
1	21SEC71	Bio Medical Instrumentation
2	21SEC72	Computer Vision
3	21SEC73	Introduction to Information Security
4	21SEC74 X	Core Elective – 3
5	21SEC75	Fundamentals of Industrial IOT System
6	21SECL76	Industrial IOT Lab
7	21SECL77	Mini Project
8	21SEC78	Internship – 2
9	21SQA79	ESEP: Patent Filing & IPR
10	21SSI01	Social Internship

Subject Introductions and Replacements:

Subject 1:

- Biomedical Instrumentation introduced as a new subject, replacing Wireless Communication and Networks.
- Syllabus changed by 100%.

Subject 2:

- Computer Vision introduced as a new subject, replacing Power Electronics.
- Syllabus changed by 100%.

Subject 3:

- Introduction to Information Security introduced as a new subject.
- Syllabus changed by 100%.

Subject 5:

- Fundamental Industrial IoT Systems introduced as a new subject.
- Syllabus changed by 100%.

Elective Enhancements:

- Core Elective 3 introduced as Subject 3 to deepen knowledge of core Electronics and Communication Engineering concepts.

Additional Curriculum Enhancements:

- Included an Employability Skills Enhancement Programme related to Patent Filing and Intellectual Property Rights (IPR).
- Mini Project introduced to provide hands-on experience and practical application of core concepts.

Internship Modifications:

- Internship related to core subjects shifted from the 8th semester to the 7th semester.

SL.No	Subject code	Title
1	17 SEC81	Optical Fiber and Networks
2	17SEC82X	Professional Elective - E
3	17SEC83X	Open Elective - III
4	17SECP84	Main Project Phase -II
5	17SEC85	Technical Seminar
6	17SEC86	Internship

Sl. No.	Subject Code	Title
1	21SEC81	Technical Seminar
2	21SEC82	Project Work (With Option of Patent Application)
3	21SECS03	MOOC – 3 – (Research Methodology)

Updates in the 2021 Syllabus Compared to the 2017 Regulations (8th Semester)

Removed Theory Subjects:

- All theory subjects have been removed from the 8th semester.

Focus on Project Work:

- The entire semester is now allocated exclusively for Project Work.

Introduction of MOOC-3:

- Massive Open Online Course (MOOC-3) introduced to enhance interdisciplinary knowledge and keep students updated on current trends.

Internal Members

Prof. Vijayalatha: Chairperson

Prof. Omprakash P Bhat: Member

Prof. Krishna Kaushik: Member

Prof. Ananthram H: Member

Industry Experts

Er. Mahesh Kumar

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External Members

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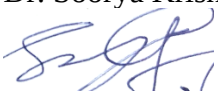

Prof. Gourish Hegde

Alumni Members

Ms. Ananya

Ms. Lavanya

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

The following specific corrections were made in the syllabus

<table>
<tr><th>Sl. No.</th><th>Semester</th><th>Course & Course code</th><th colspan="2">Present Syllabus (2017)</th><th colspan="3">Revised Syllabus (2021)</th><th>Credits</th></tr>
<tr><td rowspan="8"></td><td rowspan="8"></td><td rowspan="8"></td><td colspan="2">Scheme of Evaluation (17)</td><td colspan="3">Scheme of Evaluation (21)</td><td rowspan="8"></td></tr>
<tr><td>Phase I</td><td>40 marks</td><td>Phase I</td><td>Phase II</td><td>Phase III</td></tr>
<tr><td>Phase II</td><td>40 marks</td><td>Assignment
5 marks</td><td>MCQ
2 marks</td><td>MCQ
1 mark</td></tr>
<tr><td>Phase III</td><td>40 marks</td><td>MCQ
2 marks</td><td>Test
10 marks</td><td>Seminar/ Mini Project
15 marks</td></tr>
<tr><td>Average</td><td>40 marks</td><td>Test
10 marks</td><td></td><td></td></tr>
<tr><td rowspan="2">Assignment</td><td rowspan="2">10 marks</td><td>Weightage=17 marks</td><td>Weightage =12 marks</td><td>Weightage =16 marks</td></tr>
<tr><td colspan="2">Attendance</td><td>5 marks</td></tr>
<tr><td>Total</td><td>50 marks</td><td colspan="2">Total</td><td>50 marks</td></tr>
<tr><td></td><td></td><td colspan="2">Total Credits of 2017 Scheme =190</td><td colspan="3">Total Credits of 2021 Scheme=180</td><td></td></tr>
<tr><td></td><td></td><td colspan="2"></td><td colspan="3">Employability Skills Enhancement Programme (ESEP) & International Certification Course on Current Trends (Global Certification Course) are added in 2021 Scheme</td><td></td></tr>
</table>

1.	**III Semester**	**Data Structures**	**Module 1** **1.1 Introduction:** Data Structures, Classifications (Primitive & Non-Primitive), Data structure Operations, Review of Arrays, Structures, Self-Referential Structures, and Unions. Pointers and Dynamic Memory Allocation Functions. Representation of Linear Arrays in Memory, dynamically allocated arrays. **1.2 Array Operations:** Traversing, inserting, deleting, searching, and sorting. Multidimensional Arrays, Polynomials and Sparse Matrices. **1.3 Strings:** Basic Terminology, Storing, Operations, Programming Examples. **Module 2:** **2.1 Stacks**: Definition, Stack Operations, Array Representation of Stacks, Stacks using Dynamic Arrays, Stack Applications: Polish notation, Infix to postfix conversion, evaluation of postfix expression **2.2 Recursion**: Factorial, GCD, Fibonacci Sequence, Tower of Hanoi, Ackerman\'s function. **2.3 Queues**: Definition, Array Representation, Queue Operations, Circular Queues, Circular queues using Dynamic arrays, Dequeues, Priority Queues. Programming Examples. **Module 3** **3.1 Linked Lists:** Definition, Representation of linked lists in Memory, Memory allocation; Garbage Collection. Linked list operations: Traversing, Searching, Insertion, and Deletion. Doubly	**Module 1** **No changes in the Module contents** . **Module 2:** **No changes in the Module contents**	4

			Linked lists, Circular linked lists, and header linked lists. Linked Stacks and Queues. Applications of Linked lists – Polynomials, Sparse matrix representation. Programming Examples **Module 4** **4.1 Trees**: Terminology, Binary Trees, Properties of Binary trees, Array and linked Representation of Binary Trees, Binary Tree Traversals - Inorder, postorder, preorder; Additional Binary tree operations. Threaded binary trees, Binary Search Trees – Definition, Insertion, Deletion, Traversal, Searching, Application of Trees- Evaluation of Expression, Programming Examples **Module 5** **5.1 Graphs:** Definitions, Terminologies, Matrix and Adjacency List Representation Of Graphs, Elementary Graph operations **5.2 Traversal methods:** Breadth First Search and Depth First Search. **5.3 Sorting and Searching:** Insertion Sort, Radix sort, Address Calculation Sort. **5.4 Hashing:** Hash Table organizations, Hashing Functions, Static and Dynamic Hashing. **5.5 Files and Their Organization**: Data Hierarchy, File Attributes, Text Files and Binary Files, Basic File Operations, File Organizations and Indexing	**Module 3** **No changes in the Module contents** **Module 4** **No changes in the Module contents** **Module 5:** **No changes in the Module contents**	

2.	III SEMESTER	**Computer Organization/Computer Architecture and Design**	**Module 1** **1.1 Basic Structure of Computers:** Basic Operational Concepts, Bus Structures, Performance – Processor Clock, Basic Performance Equation, Clock Rate, Performance Measurement. **1.2 Machine Instructions and Programs:** Memory Location and Addresses, Memory Operations, Instructions and Instruction Sequencing, Addressing Modes, Assembly Language, Basic Input and Output Operations, Stacks and Queues, Subroutines **Module 2** **2.1 Input/Output Organization:** Accessing I/O Devices, Interrupts– Interrupt Hardware, Enabling and Disabling Interrupts, Handling Multiple Devices, Controlling Device Requests, Exceptions, Direct Memory Access, Buses. . **Module 3** **3.1 Memory System:** Basic Concepts, Semiconductor RAM Memories, Read Only Memories, Speed, Size, and Cost, Cache Memories – Mapping Functions, Virtual Memories, Secondary Storage.	**Module 1** **1.1 The Basic Gates**: Review of Basic Logic gates, Positive and Negative Logic, Introduction to HDL. **1.2 Combinational Logic Circuits:** Sum-of-Products Method, Truth Table to Karnaugh Map, Pairs Quads, and Octets, Karnaugh Simplification, Don't-care Conditions, Product-of-sums Method, Product-of-sums simplifications, Simplification by Quine-McClusky Method, HDL Implementation Models. **Module 2** **2.1 Data-Processing Circuits:** Multiplexers, Demultiplexers, 1-of-16 Decoder, BCD to Decimal Decoders, Encoders, Exclusive-OR Gates, Programmable Logic Devices, HDL Implementation of Data Processing Circuits. **2.2 Flip- Flops:** RS Flip-Flops, Gated Flip-Flops, Edge-triggered RS FLIP-FLOP, Edge-triggered D FLIP-FLOPs, Edge-triggered JK FLIP-FLOPs. FLIP-FLOP Timing, JK Master-slave FLIP-FLOP, Switch Contact Bounce Circuits, HDL Implementation **Module 3** **3.1 Registers:** Types of Registers, Serial In - Serial Out, Serial In - Parallel out, Parallel In - Serial Out, Parallel In - Parallel Out, Universal Shift Register, Applications of Shift Registers, Register implementation in HDL. **Counters:** Asynchronous Counters, Decoding Gates, Synchronous Counters, Decade Counters, Counter Design as a	

			Module 4 **4.1 Arithmetic:** Numbers, Arithmetic Operations and Characters, Addition and Subtraction of Signed Numbers, Design of Fast Adders, Multiplication of Positive Numbers, Signed Operand Multiplication, Integer Division. **Module 5** **5.1 Basic Processing Unit:** Some Fundamental Concepts, Execution of a Complete Instruction, Multiple Bus Organization, Hard-wired Control, Micro programmed Control. **5.2 Embedded Systems and Large Computer Systems:** Examples of Embedded Systems, Processor chips for embedded applications. **5.3 The structure of General-Purpose Multiprocessors** .	Synthesis, A Digital Clock, Counter Design using HDL. **Module 4** **4.1 Basic Structure of Computers:** Basic Operational Concepts, Bus Structures, Performance -Processor Clock, Basic Performance Equation, Clock Rate, Performance Measurement. Machine Instructions and Programs: Memory Location and Addresses, Memory Operations, Instructions and Instruction Sequencing, Addressing Modes, Assembly Language, Basic Input and Output Operations, Additional Instructions, Encoding of Machine Instructions. **Module 5** **5.1 Arithmetic:** Numbers, Arithmetic Operations and Characters, Addition and Subtraction of Signed Numbers, Design of Fast Adders, Multiplication of Positive Numbers, Signed Operand Multiplication, Integer Division. **5.2 Basic Processing Unit:** Some Fundamental Concepts, Execution of a Complete Instruction, Multiple Bus Organization, Hard-wired Control, Micro programmed Control. **5.3 Pipelining:** Basic concepts of pipelining.	
3.	**III Semester**	**Microprocessor**	**MODULE 1** The x86 microprocessor: Brief history of the x86 family, Inside the 8088/86, Introduction to assembly programming, The Stack, Flag register, x86 Addressing Modes. Assembly language programming:	**MODULE 1:** 8085 Architecture: Introduction to microprocessors and microcontrollers, 8085 Processor Architecture, Internal operations, Instructions and timings, Programming the 8085 – Introduction to 8085 instructions, addressing modes and Programming techniques with Additional instruction.	

			Directives & a Sample Program, Assemble, Link & Run a program, Control Transfer Instructions. **MODULE 2:** x86: Instructions sets description, Arithmetic and logic instructions and programs: Unsigned Addition and Subtraction, Unsigned Multiplication and Division, Logic Instructions, BCD and ASCII conversion, Rotate Instructions. INT 21H and INT 10H Programming: Bios INT 10H Programming , DOS Interrupt 21H. **MODULE 3:** Signed Numbers and Strings: Signed number Arithmetic Operations, String operations. Memory and Memory interfacing: Memory address decoding, data integrity in RAM and ROM, 16-bit memory interfacing. 8255 I/O programming: I/O addresses MAP of x86 PC's, programming and interfacing the 8255. **MODULE4:** Microprocessors versus Microcontrollers, Difference between RISC and CISC. Embedded System Hardware, Embedded System Software, ARM Processor Fundamentals: Registers, Current Program Status Register, Pipeline, Exceptions, Interrupts, and the Vector Table.	**MODULE 2:** **2.1 Stacks and subroutines, interfacing peripherals**: Basic interfacing concepts, interfacing output displays, interfacing input keyboards. Interrupts - 8085 Interrupts, Programmable Interrupt Controller (8259A). Direct Memory Access (DMA) – DMA Controller (Intel 8257), Interfacing 8085 with Digital to Analog and Analog to Digital converters. **MODULE 3:** Programmable peripheral interface (Intel 8255A), Programmable communication interface (Intel 8251), Programmable Interval timer (Intel 8253 and 8254), Programmable Keyboard / Display controller (Intel 8279). Serial and parallel bus standards RS 232 C, IEEE 488. **MODULE4:** **4.1 Introduction to Microcontrollers**: 8051 Architecture – Instruction set, Addressing modes and Programming Techniques. Comparison of various families of 8-bit micro controllers. System Design Techniques Interfacing of LCD, ADC, Sensors, Stepper motor, keyboard and DAC using microcontrollers Communication standards – serial RS232 and USB. **MODULE 5** Microprocessor Applications and trends in microprocessor Technology: 8-bit, 16-bit and 32-bit microprocessors. Advanced Processor Architecture – Register structure, Instruction set, Addressing modes of 8086.Features of advanced microprocessors.80386, 80486, Pentium and Multi-Core Processors.	

			MODULE 5 Introduction to the ARM Instruction Set: Data Processing Instructions, Branch Instructions, Software Interrupt Instructions, Program Status Register Instructions.		
4.	**III Semester**	**Data Structure Using C Lab**	**1. Design, Develop and Implement a menu driven Program in C for the following** Array operations a. Creating an Array of N Integer Elements b. Display of Array Elements with Suitable Headings c. Inserting an Element (ELEM) at a given valid Position (POS) d. Deleting an Element at a given valid Position (POS) e. Exit. Support the program with functions for each of the above operations **2. Design, Develop and Implement a menu driven Program in C for the following operations on STACK of Integers (Array Implementation of Stack with maximum size MAX)** a. Push an Element on to Stack b. Pop an Element from Stack c. Demonstrate Overflow and Underflow situations on Stack d. Display the status of Stack e. Exit	**NO CHANGES IN CONTENTS**	

			Support the program with appropriate functions for each of the above Operations **3. Design, Develop and Implement a Program in C for converting an Infix Expression to Postfix** Expression. Program should support for both parenthesized and free parenthesized expressions with the operators: +, -, *,/, %(Remainder), ^(Power) and alphanumeric operands. **4. Design, Develop and Implement a Program in C for the following Stack Applications** a. Evaluation of Suffix expression with single digit operands and operators: +, -, *, /, %, ^ b. Solving Tower of Hanoi problem with n disks **5. Design, Develop and Implement a menu driven Program in C for the following operations on Circular QUEUE of Characters (Array Implementation of Queue with maximum size MAX)** a. Insert an Element on to Circular QUEUE b. Delete an Element from Circular QUEUE c. Demonstrate *Overflow* and *Underflow* situations on Circular QUEUE d. Display the status of Circular QUEUE e. Exit Support the program with appropriate functions for each of the above Operations		

			6. Design, Develop and Implement a menu driven Program in C for the following operations on Singly Linked List (SLL) of Student Data with the fields: *USN, Name, Branch, Sem, PhNo* a. Create a SLL of N Students Data by using *front insertion* b. Display the status of SLL and count the number of nodes in it c. Perform Insertion and Deletion at End of SLL d. Perform Insertion and Deletion at Front of SLL e. Exit **7. Design, Develop and Implement a menu driven Program in C for the following operations on Doubly Linked List (DLL) of Employee Data with the fields: *SSN, Name, Dept, Designation, Sal, PhNo*** a. Create a DLL of N Employees Data by using *end insertion* b. Display the status of DLL and count the number of nodes in it c. Perform 3Insertion and Deletion at End of DLL d. Perform Insertion and Deletion at Front of DLL e. Demonstrate how this DLL can be used as Double Ended Queue f. Exit **8. Design, Develop and Implement a menu driven Program in C for the following operations on Binary Search Tree (BST) of Integers** a. Create a BST of N Integers: 6, 9, 5, 2, 8, 15, 24, 14, 7, 8, 5, 2		

			b. Traverse the BST in Inorder, Preorder and Post Order c. Search the BST for a given element (KEY) and report the appropriate message d. Exit **9. Design, Develop and Implement a Program in C for the following operations on Graph(G) of Cities** a. Create a Graph of N cities using Adjacency Matrix. b. Print all the nodes reachable from a given starting node in a digraph using BFS method c. Check whether a given graph is connected or not using DFS method **10. Given a File of N employee records with a set K of Keys(4-digit) which uniquely determine the records in file F. Assume that file F is maintained in memory by a Hash Table(HT) of m memory locations with L as the set of memory addresses (2-digit) of locations in HT. Let the keys in K and addresses in L are Integers. Design and develop a Program in C that uses Hash function H: K →L as H(K)=K mod m (remainder method), and implement hashing technique to map a given key K to the address** space **L. Resolve the collision (if any) using linear probing.**		
5.	**IV Semester**	**Design Analysis of Algorithms**	**MODULE 1** **1.1 Introduction:** What is an Algorithm?, Algorithm Specification Analysis Framework, Performance Analysis: Space complexity, Time complexity. Asymptotic Notations: Big-Oh notation (O), Omega notation (Ω), Theta notation (Q), and Little-oh	**MODULE 1** **NO CHANGES IN MODULE CONTENTS**	

			notation (o), Mathematical analysis of non-recursive and recursive Algorithms with Examples **1.2 Important Problem Types:** Sorting, Searching, String processing, Graph Problems, Combinatorial Problems. Fundamental Data Structures: Stacks, Queues, Graphs, Trees, Sets and Dictionaries. **MODULE 2** **2.1 Divide and Conquer:** General method, Binary search, Recurrence equation for divide and conquer, Finding the maximum and minimum (T2:3.1, 3.3, 3.4), Merge sort, Quick sort (T1:4.1, 4.2), Strassen's matrix multiplication (T2:3.8), Advantages and Disadvantages of divide and conquer. Decrease and Conquer Approach: Topological Sort. (T1:5.3) **MODULE 3** **3.1 Greedy Method:** General method, Coin Change Problem, Knapsack Problem, Job sequencing with deadlines (T2:4.1, 4.3, 4.5). Minimum cost spanning trees: Prim's Algorithm, Kruskal's Algorithm (T1:9.1, 9.2). Single source shortest paths: Dijkstra's Algorithm (T1:9.3). **3.2 Optimal Tree problem:** Huffman Trees and Codes (T1:9.4). Transform and Conquer Approach: Heaps and Heap Sort (T1:6.4).	**MODULE 2** **NO CHANGES IN MODULE CONTENTS** **MODULE 3** **NO CHANGES IN MODULE CONTENTS**	

			MODULE 4 **4.1 Dynamic Programming**: General method with Examples, Multistage Graphs (T2:5.1, 5.2). Transitive Closure: Warshall's Algorithm, All Pairs Shortest Paths: Floyd's Algorithm, Optimal Binary Search Trees, Knapsack problem ((T1:8.2, 8.3, 8.4), Bellman-Ford Algorithm (T2:5.4), Travelling Sales Person problem (T2:5.9), Reliability design (T2:5.8). **MODULE 5** **5.1 Backtracking:** General method (T2:7.1), N-Queens problem (T1:12.1), Sum of subsets problem (T1:12.1), Graph coloring (T2:7.4), Hamiltonian cycles (T2:7.5). Branch and Bound: Assignment Problem, Travelling Sales Person problem (T1:12.2), 0/1 Knapsack problem (T2:8.2, T1:12.2): LC Branch and Bound solution (T2:8.2), FIFO Branch and Bound solution (T2:8.2). NP-Complete and NP-Hard problems: Basic concepts, nondeterministic algorithms, P, NP, NP Complete, and NP-Hard classes (T2:11.1).	**MODULE 4** **NO CHANGES IN MODULE CONTENTS** **MODULE 5** **NO CHANGES IN MODULE CONTENTS**	
6.	**IV Semester**	**Computer Graphics and Visualization**	**MODULE 1** **1.1 Overview:** Computer Graphics and OpenGL: Computer Graphics: Basics of Computer graphics, Application of Computer Graphics, Video Display Devices: Random Scan and Raster Scan displays, color CRT monitors, Flat panel displays. Raster-scan systems:	**MODULE 1** **(SHIFTED TO 5TH SEM)**	

			video controller, raster scan Display processor, graphics Workstations and viewing systems, Input devices, graphics networks, graphics on the internet, graphics software. OpenGL: Introduction to OpenGL coordinate reference frames, specifying two-dimensional world coordinate reference frames in OpenGL, OpenGL point functions, OpenGL line functions, point attributes, line attributes, curve attributes, OpenGL point attribute functions, OpenGL line attribute functions, Line drawing algorithms(DDA, Bresenham's), circle generation algorithms (Bresenham's)**.** **MODULE 2** Fill area Primitives, 2D Geometric Transformations and 2D viewing: Fill area Primitives: Polygon fill-areas, OpenGL polygon fill area functions, fill area attributes, general scan line polygon fill algorithm, OpenGL fill-area attribute functions. 2DGeometric Transformations: Basic 2D Geometric Transformations, matrix representations and homogeneous coordinates. Inverse transformations, 2D Composite transformations, other 2D transformations, raster methods for geometric transformations, OpenGL raster transformations, OpenGL geometric transformation's function, 2D viewing: 2D viewing pipeline, OpenGL 2D viewing functions. **MODULE 3** Clipping,3D Geometric Transformations, Color and Illumination Models: Clipping:	**NO CHANGES IN MODULE CONTENTS** **MODULE 2** **NO CHANGES IN MODULE CONTENTS** **MODULE 3**	

			clipping window, normalization and viewport transformations, clipping algorithms,2D point clipping, 2D line clipping algorithms: Cohen Sutherland line clipping only -polygon fill area clipping: Sutherland-Hodgeman polygon clipping algorithm only.3DGeometric Transformations: 3D translation, rotation, scaling, composite 3D transformations, other 3D transformations, affine transformations, OpenGL geometric transformations functions. Color Models: Properties of light, color models, RGB and CMY color models. Illumination Models: Light sources, basic illumination models-Ambient light, diffuse reflection, specular and Phong model, Corresponding openGL functions. **MODULE 4** 3D Viewing and Visible Surface Detection: 3DViewing:3D viewing concepts, 3D viewing pipeline, 3D viewing coordinate parameters , Transformation from world to viewing coordinates, Projection transformation, orthogonal projections, perspective projections, The viewport transformation and 3D screen coordinates. OpenGL 3D viewing functions. Visible Surface Detection Methods: Classification of visible surface Detection algorithms, back face detection, depth buffer method and OpenGL visibility detection functions. **MODULE 5** Input& interaction, Curves and Computer Animation: Input and Interaction: Input devices, clients	Clipping,3D Geometric Transformations, Color and Illumination Models: Clipping: clipping window, normalization and viewport transformations, clipping algorithms,2D point clipping, 2D line clipping algorithms: Cohen Sutherland line clipping only -polygon fill area clipping: Sutherland-Hodgeman polygon clipping algorithm only.3DGeometric Transformations: 3D translation, rotation, scaling, composite 3D transformations, other 3D transformations, affine transformations, OpenGL geometric transformations functions. Color Models: Properties of light, color models, RGB and CMY color models. Illumination Models: Light sources, basic illumination models-Ambient light, diffuse reflection, specular and Phong model, Corresponding openGL functions, basic illumination models-Ambient light, diffuse reflection, specular and Phong model, Corresponding openGL functions. **MODULE 4** **NO CHANGES IN MODULE CONTENTS** **MODULE 5**	

			and servers, Display Lists, Display Lists and Modelling, Programming Event Driven Input, Menus Picking, Building Interactive Models, Animating Interactive programs, Design of Interactive programs, Logic operations, curved surfaces, quadric surfaces, OpenGL Quadric-Surface and Cubic-Surface Functions, Bezier Spline Curves, Bezier surfaces, OpenGL curve functions. Corresponding openGL functions.	**NO CHANGES IN MODULE CONTENTS**	
7.	**V Semester**	**Database Management System**	**MODULE 1** **1.1 Introduction to Databases:** Introduction, Characteristics of database approach, Advantages of using the DBMS approach, History of database applications. **1.2 Overview of Database Languages and Architectures:** Data Models, Schemas, and Instances. Three schema architecture and data independence, database languages, and interfaces, The Database System environment. **1.3 Conceptual Data Modelling using Entities and Relationships:** Entity types, Entity sets, attributes, roles, and structural constraints, Weak entity types, ER diagrams, examples, Specialization and Generalization. **MODULE 2** **2.1 Relational Model**: Relational Model Concepts, Relational Model Constraints and relational database schemas, Update operations, transactions, and dealing with constraint violations. **2.2 Relational Algebra:** Unary and Binary relational operations, additional relational operations	**MODULE 1** **(SHIFTED TO 4TH SEM)** **NO CHANGES IN MODULE CONTENTS** **MODULE 2**	

			(aggregate, grouping, etc.) Examples of Queries in relational algebra. **2.3 Mapping Conceptual Design into a Logical Design:** Relational Database Design using ER-to-Relational mapping. **SQL:** SQL data definition and data types, specifying constraints in SQL, retrieval queries in SQL, INSERT, DELETE, and UPDATE statements in SQL, Additional features of SQL. **MODULE 3** **3.1 SQL: Advances Queries:** More complex SQL retrieval queries, Specifying constraints as assertions and action triggers, Views in SQL, Schema change statements in SQL. **3.2 Database Application Development:** Accessing databases from applications, An introduction to JDBC, JDBC classes and interfaces, SQLJ, Stored procedures, Case study: The internet Bookshop. **3.3 Internet Applications:** The three-Tier application architecture, The presentation layer, The Middle Tier. **MODULE 4** **4.1 Normalization: Database Design Theory** – Introduction to Normalization using Functional and Multivalued Dependencies: Informal design guidelines for relation schema, Functional Dependencies, Normal Forms based on Primary Keys, Second and Third Normal Forms, Boyce-Codd Normal Form, Multivalued Dependency and Fourth Normal Form, Join Dependencies and Fifth Normal Form. **4.2 Normalization Algorithms:** Inference Rules, Equivalence, and	**NO CHANGES IN MODULE CONTENTS** **MODULE 3** **NO CHANGES IN MODULE CONTENTS** **MODULE 4**	

			Minimal Cover, Properties of Relational Decompositions, Algorithms for Relational Database Schema Design, Nulls, Dangling tuples, and alternate Relational Designs, Further discussion of Multivalued dependencies and 4NF, Other dependencies and Normal Forms. **MODULE 5** **5.1 Transaction Processing:** Introduction to Transaction Processing, Transaction and System concepts, Desirable properties of Transactions, Characterizing schedules based on recoverability, Characterizing schedules based on Serializability, Transaction support in SQL. **5.2 Concurrency Control in Databases:** Two-phase locking techniques for Concurrency control, Concurrency control based on Timestamp ordering, Mult version Concurrency control techniques, Validation Concurrency control techniques, Granularity of Data items and Multiple Granularity Locking. **5.3 Introduction to Database Recovery Protocols:** Recovery Concepts, NO-UNDO/REDO recovery based on Deferred update, Recovery techniques based on immediate update, Shadow paging, Database backup and recovery from catastrophic failures.	**NO CHANGES IN MODULE CONTENTS** **MODULE 5** **NO CHANGES IN MODULE CONTENTS**	
8.	**V Semester**	**Programming the World Wide Web**	**MODULE 1** Introduction to HTML, What is HTML and Where did it come from? HTML Syntax, Semantic Markup, Structure of HTML Documents, Quick Tour of HTML Elements, HTML5 Semantic Structure Elements, Introduction to CSS, What is CSS, CSS Syntax, Location of	**MODULE 1** **(SHIFTED TO 6TH SEM)** **NO CHANGES IN MODULE CONTENTS**	

			Styles, Selectors, The Cascade: How Styles Interact, The Box Model, CSS Text Styling. **MODULE 2** HTML Tables and Forms, Introducing Tables, Styling Tables, Introducing Forms, Form Control Elements, Table and Form Accessibility, Microformats, Advanced CSS: Layout, Normal Flow, Positioning Elements, Floating Elements, Constructing Multicolumn Layouts, Approaches to CSS Layout, Responsive Design, CSS Frameworks. **MODULE 3** JavaScript: Client-Side Scripting, What is JavaScript and What can it do?, JavaScript Design Principles, Where does JavaScript Go?, Syntax, JavaScript Objects, The Document Object Model (DOM), JavaScript Events, Forms, Introduction to Server-Side Development with PHP, What is Server-Side Development, A Web Server's Responsibilities, Quick Tour of PHP, Program Control, Functions. **MODULE 4** PHP Arrays and Super globals, Arrays, $_GET and $_POST Super global Arrays, $_SERVER Array, $_Files Array, Reading/Writing Files, PHP Classes and Objects, Object-Oriented Overview, Classes and Objects in PHP, Object Oriented Design, Error Handling and Validation, what are Errors and Exceptions? PHP Error Reporting, PHP Error and Exception Handling. **MODULE 5**	**MODULE 2** **NO CHANGES IN MODULE CONTENTS** **MODULE 3** **NO CHANGES IN MODULE CONTENTS** **MODULE 4** **NO CHANGES IN MODULE CONTENTS**	

			Managing State, The Problem of State in Web Applications, Passing Information via Query Strings, Passing Information via the URL Path, Cookies, Serialization, Session State, HTML5 Web Storage, Caching, Advanced JavaScript and jQuery, JavaScript Pseudo-Classes, jQuery Foundations, AJAX, Asynchronous File Transmission, Animation, Backbone MVC Frameworks, XML Processing and Web Services, XML Processing, JSON, Overview of Web Services.	**MODULE 5** **NO CHANGES IN MODULE CONTENTS**	
9.	**V Semester**	**Operating System**	**MODULE 1** Introduction to operating systems, System structures: What operating systems do; Computer System organization; Computer System architecture; Operating System structure; Operating System operations; Process management; Memory management; Storage management; Protection and Security; Distributed system; Special-purpose systems; Computing environments. Operating System Services; User - Operating System interface; System calls; Types of system calls; System programs; Operating system design and implementation; Operating System structure; Virtual machines; Operating System generation; System boot. **MODULE 2** Process Management Process concept; Process scheduling; Operations on processes; Inter process communication. Multi-threaded Programming: Overview; Multithreading models; Thread Libraries; Threading issues. Process Scheduling: Basic concepts; Scheduling Criteria; Scheduling Algorithms; Multiple-processor scheduling; Thread scheduling. Process Synchronization: Synchronization: The critical section problem; Peterson's	**MODULE 1** **NO CHANGES IN MODULE CONTENTS** **MODULE 2** **NO CHANGES IN MODULE CONTENTS**	

			solution; Synchronization hardware; Semaphores; Classical problems of synchronization; Monitors. **MODULE 3** Deadlocks: Deadlocks; System model; Deadlock characterization; Methods for handling deadlocks; Deadlock prevention; Deadlock avoidance; Deadlock detection and recovery from deadlock. Memory Management: Memory management strategies: Background; Swapping; Contiguous memory allocation; Paging; Structure of page table; Segmentation. **MODULE 4** Virtual Memory Management: Background; Demand paging; Copy-on-write; Page replacement; Allocation of frames; Thrashing. File System, Implementation of File System: File system: File concept; Access methods; Directory structure; File system mounting; File sharing; Protection: Implementing File system: File system structure; File system implementation; Directory implementation; Allocation methods; Free space management. **MODULE 5** Secondary Storage Structures, Protection: Mass storage structures; Disk structure; Disk attachment; Disk scheduling; Disk management; Swap space management. Protection: Goals of protection, Principles of protection, Domain of protection, Access matrix, Implementation of access matrix, Access control, Revocation of access rights, Capability- Based systems. Case Study: The Linux Operating System: Linux history; Design principles; Kernel modules; Process management; Scheduling;	**MODULE 3** **NO CHANGES IN MODULE CONTENTS** **MODULE 4** **NO CHANGES IN MODULE CONTENTS**	

			Memory Management; File systems, Input and output; Inter-process communication.	**MODULE 5** **NO CHANGES IN MODULE CONTENTS**	
10.	**V Semester**	**Theory of Computation**	**MODULE 1** **1.1 Why study the Theory of Computation, Languages and Strings**: Strings, Languages. A Language Hierarchy, Computation. 1.2 Finite **State Machines (FSM)**: Deterministic FSM, Regular languages, Designing FSM, Nondeterministic FSMs, From FSMs to Operational Systems, Simulators for FSMs, Minimizing FSMs, Canonical form of Regular languages, Finite State Transducers, Bidirectional Transducers. **MODULE 2** **2.1 Regular Expressions (RE):** what is a RE?, Kleene's theorem, Applications of REs, Manipulating and Simplifying REs. Regular Grammars: Definition, Regular Grammars and Regular languages. Regular Languages (RL) and Nonregular Languages: How many RLs, To show that a language is regular, Closure properties of RLs, to show some languages are not RLs. **MODULE 3** **3.1 Context-Free Grammars (CFG):** Introduction to Rewrite Systems and Grammars,	**MODULE 1** **NO CHANGES IN MODULE CONTENTS** **MODULE 2** **NO CHANGES IN MODULE CONTENTS**	

			CFGs and languages, designing CFGs, simplifying CFGs, proving that a Grammar is correct, Derivation and Parse trees, Ambiguity, Normal Forms. **3.2 Pushdown Automata (PDA):** Definition of non-deterministic PDA, Deterministic and non-deterministic PDAs, Non-determinism and Halting, alternative equivalent definitions of a PDA, alternatives that are not equivalent to PDA. **MODULE 4** **4.1 Context-Free and Non-Context-Free Languages:** Where do the Context-Free Languages (CFL) fit, showing a language is context-free, Pumping theorem for CFL, Important closure properties of CFLs, Deterministic CFLs. Algorithms and Decision Procedures for CFLs: Decidable questions, Un-decidable questions. **4.2 Turing Machine:** Turing machine model, Representation, Language acceptability by TM, design of TM, Techniques for TM construction. **MODULE 5** Variants of Turing Machines (TM), The model of Linear Bounded automata: Decidability: Definition of an algorithm, decidability, decidable languages, Undecidable languages, halting problem of TM, Post correspondence problem. Complexity: Growth rate of functions, the classes of P and NP, Quantum Computation: quantum computers, Church-Turing thesis.	**MODULE 3** **NO CHANGES IN MODULE CONTENTS** **MODULE 4** Introduction: Issues related to programming Language Design; Issues related to Finite-State Machines, Phases of Compiler Design, Lexical Analysis, Error Detection and Recovery. **MODULE 5** Top-Down Parsing, Bottom-up Parsing: LL(1) Grammars, Recursive Descent Parsers, LR	

				Grammars – Concepts and Terminology, LR(O) Parsers, SLR(1) Parsers, Canonical LR(1) Parsers, LALR(1) Parsers, using ambiguous grammar. Attributed Translation Grammar, L-Attributed Translation Grammar.	
11.	**V Semester**	**Data Base Management Systems Laboratory**	**1. Consider the following schema for a Library Database: BOOK(Book_id, Title, Publisher_Name, Pub_Year) BOOK_AUTHORS(Book_id, Author_Name) PUBLISHER(Name, Address, Phone) BOOK_COPIES(Book_id, Branch_id, No-of_Copies) BOOK_LENDING(Book_id, Branch_id, Card_No, Date_Out, Due_Date) LIBRARY_BRANCH(Branch_id, Branch_Name, Address)** Write SQL queries to a. Retrieve details of all books in the library – id, title, name of publisher, authors, number of copies in each branch, etc. b. Get the particulars of borrowers who have borrowed more than 3 books, but from Jan 2017 to Jun 2017. c. Delete a book in BOOK table. Update the contents of other tables to reflect this data manipulation operation. d. Partition the BOOK table based on year of publication. Demonstrate its working with a simple query. e. Create a view of all books and its number of copies that are currently available in the Library. **2. Consider the following schema for Order Database:SALESMAN(Salesman_id, Name, City, Commission) CUSTOMER(Customer_id, Cust_Name, City, Grade, Salesman_id) ORDERS(Ord_No, Purchase_Amt, Ord_Date, Customer_id, Salesman_id)** Write SQL queries to a. Count the customers with grades above Bangalore's average. b. Find the name and numbers of all salesman who had more than one customer.	**(SHIFTED TO 4TH SEM)** **1. Consider the following schema for a Library Database: BOOK(Book_id, Title, Publisher_Name, Pub_Year) BOOK_AUTHORS(Book_id, Author_Name) PUBLISHER(Name, Address, Phone) BOOK_COPIES(Book_id, Branch_id, No-of_Copies) BOOK_LENDING(Book_id, Branch_id, Card_No, Date_Out, Due_Date) LIBRARY_BRANCH(Branch_id, Branch_Name, Address)** Write SQL queries to 1. Retrieve details of all books in the library – id, title, name of publisher, authors, number of copies in each branch, etc. 2. Get the particulars of borrowers who have borrowed more than 3 books, but from Jan 2017 to Jun2017. 3. Delete a book in BOOK table. Update the contents of other tables to reflect this data manipulation operation. 4. Partition the BOOK table based on year of publication. Demonstrate its working with a simple query. 5. Create a view of all books and its number of copies that are currently available in the Library. **2. Consider the following schema for Order Database: SALESMAN(Salesman_id, Name, City, Commission) CUSTOMER(Customer_id, Cust_Name, City, Grade, Salesman_id) ORDERS(Ord_No, Purchase_Amt, Ord_Date, Customer_id, Salesman_id)** Write SQL queries to 1. Count the customers with grades above Bangalore's average. 2. Find the name and numbers of all salesman who had more than one customer. 3. List all the salesman and indicate those who have and don't have customers in their cities (Use UNION operation.) 4. Create a view that finds the salesman who has the customer with the highest order of a day.	

			c. List all the salesman and indicate those who have and don't have customers in their cities (Use UNION operation.) d. Create a view that finds the salesman who has the customer with the highest order of a day. e. Demonstrate the DELETE operation by removing salesman with id 1000. All his orders must also be deleted. **3. Consider the schema for College Database:STUDENT(USN, SName, Address, Phone, Gender) SEMSEC(SSID, Sem, Sec) CLASS(USN, SSID) SUBJECT(Subcode, Title, Sem, Credits) IAMARKS(USN, Subcode, SSID, Test1, Test2, Test3, FinalIA)** Write SQL queries to a. List all the student details studying in fourth semester 'C' section. b. Compute the total number of male and female students in each semester and in each section. c. Create a view of Test1 marks of student USN '1BI15CS101' in all subjects. d. Calculate the Final IA (average of best two test marks) and update the corresponding table for all students. e. Categorize students based on the following criterion: If FinalIA = 17 to 20 then CAT = 'Outstanding' If FinalIA = 12 to 16 then CAT = 'Average' If FinalIA< 12 then CAT = 'Weak' Give these details only for 8th semester A, B, and C section students. **4. Consider the schema for Company Database:EMPLOYEE(SSN, Name, Address, Sex, Salary, SuperSSN, DNo) DEPARTMENT(DNo, DName, MgrSSN, MgrStartDate) DLOCATION(DNo,DLoc) PROJECT(PNo, PName, PLocation, DNo) WORKS_ON(SSN, PNo, Hours)** Write SQL queries to	5. Demonstrate the DELETE operation by removing salesman with id 1000. All his orders must also be deleted. **3. Consider the schema for Movie Database: ACTOR(Act_id, Act_Name, Act_Gender) DIRECTOR(Dir_id, Dir_Name, Dir_Phone) MOVIES(Mov_id, Mov_Title, Mov_Year, Mov_Lang,Dir_id) MOVIE_CAST(Act_id, Mov_id,Role) RATING(Mov_id, Rev_Stars)** Write SQL queries to 1. List the titles of all movies directed by 'Hitchcock'. 2. Find the movie names where one or more actors acted in two or more movies. 3. List all actors who acted in a movie before 2000 and also in a movie after 2015 (use JOIN operation). 4. Find the title of movies and number of stars for each movie that has at least one rating and find the highest number of stars that movie received. Sort the result by movie title. 5. Update rating of all movies directed by 'Steven Spielberg' to department number and the number of its employees who are making more than Rs. 6,00,000. **4. Consider the schema for College Database: STUDENT(USN, SName, Address, Phone, Gender) SEMSEC(SSID, Sem, Sec) CLASS(USN, SSID) SUBJECT(Subcode, Title, Sem, Credits) IAMARKS(USN, Subcode, SSID, Test1, Test2, Test3, FinalIA)** Write SQL queries to 1. List all the student details studying in fourth semester 'C'section. 2. Compute the total number of male and female students in each semester and in each section. 3. Create a view of Test1 marks of student USN '1BI15CS101' in all subjects.	

			a. Make a list of all project numbers for projects that involve an employee whose last name is 'Scott', either as a worker or as a manager of the department that controls the project. b. Show the resulting salaries if every employee working on the 'IoT' project is given a 10 percent raise. c. Find the sum of the salaries of all employees of the 'Accounts' department, as well as the maximum salary, the minimum salary, and the average salary in this department d. Retrieve the name of each employee who works on all the projects controlledby department number 5 (use NOT EXISTS operator). e. For each department that has more than five employees, retrieve the**,** **PART B** 1. Write a JavaScript that calculates the squares and cubes of the numbers from 0 to 10 and outputs HTML text that displays the resulting values in an HTML table format. 2. Develop and demonstrate a HTML5 file that includes JavaScript script that uses functions for the following problem: a. Parameter: A string b. Output: The position in the string of the left-most vowel 3. Design an XML document to store information about a student in an engineering college affiliated to VTU. The information must include USN, Name, and Name of the College, Branch, Year of Joining, and email id. Make up sample data for 3 students. Create a CSS style sheet and use it to display the document. 4. Write a PHP program to keep track of the number of visitors visiting the web page and to display this count of visitors, with proper headings. 5. Write a PHP program to display a digital clock which displays the current time of the server.	4. Calculate the FinalIA (average of best two test marks) and update the corresponding table for all students. 5. Categorize students based on the following criterion: If FinalIA = 17 to 20 then CAT ='Outstanding' If FinalIA = 12 to 16 then CAT = 'Average' If FinalIA< 12 then CAT = 'Weak' Give these details only for 8th semester A, B, and C section students. **5. Consider the schema for Company Database:** **EMPLOYEE(SSN, Name, Address, Sex, Salary, SuperSSN, DNo)** **DEPARTMENT(DNo, DName, MgrSSN MgrStartDate) DLOCATION(DNo,DLoc)** **PROJECT(PNo, PName, PLocation, DNo) WORKS_ON(SSN, PNo, Hours)** Write SQL queries to 1. Make a list of all project numbers for projects that involve an employee whose last name is 'Scott', either as a worker or as a manager of the department that controls the project. 2. Show the resulting salaries if every employee working on the 'IoT' project is given a 10 percent raise. 3. Find the sum of the salaries of all employees of the 'Accounts' department, as well as the maximum salary, the minimum salary, and the average salary in this department 4. Retrieve the name of each employee who works on all the projects controlled by department number 5 (use NOT EXISTS operator). 5. For each department that has more than five employees, retrieve the department number and the number of its employees who are making more than Rs.6,00,000.	

			6. Write a PHP program to sort the student records which are stored in the database using selection sort.		
12.	**V Semester**	**System Software & Operating System Laboratory**	1. Write a LEX program to recognize valid ***arithmetic expression.*** Identifiers in the expression could be only integers and operators could be + and *. Count the identifiers & operators present and print them separately. 2. Write YACC program to evaluate ***arithmetic expression*** involving operators: +, -,*, and / 3. Develop, Implement and Execute a program using YACC tool to recognize all strings ending with ***b*** preceded by ***n a's*** using the grammar ***anb*** (note: input ***n*** value) 4. Design, develop and implement YACC/C program to demonstrate ***Shift Reduce Parsing*** technique for the grammar rules: ***E → E+T | T, T → T*F | F, F → (E) | id*** and parse the sentence: ***id + id * id***. 5. Design, develop and implement a C/Java program to generate the machine code using ***Triples*** for the statement ***A = -B * (C +D)*** whose intermediate code in three-address form: ***T1 = -B*** ***T2 = C + D*** ***T3 = T1 + T2*** ***A = T3*** 6. Write a LEX program to eliminate ***comment lines*** in a ***C*** program and copy the resulting program into a separate file. 7. Write YACC program to recognize valid ***identifier, operators and keywords*** in the given text (*C program*) file. 8. Design, develop and implement a C/C++/Java program to simulate the working of Shortest remaining	1. i. Write a shell script program to find the Maximum three numbers. ii. Write a shell script program for comparison of strings 2. i. Perform Arithmetic operation using CASE iii. Write a program to draw a Pascal's Triangle 3. i. Calculate the factorial value of a number using shell script . ii. To write a shell program to generate Fibonacci series. 4. i. Write a program to demonstrates a one-way pipe between two Process. ii. Write a program to illustrate IPC through pipe and fork system calls – Printing only odd numbers. 5. i. To write a program to create a process in LINUX. ii. To study Dinning Philosophers Problem. 6. Write a program to implement the following process scheduling algorithms i. First Come First Serve ii. Shortest Remaining Job First iii. Round Robin 7. Write a program To simulate banker's algorithm for deadlock avoidance. 8. Write a program To Page replacement algorithm for FIFO. 9. Write a program To Page replacement algorithm for LRU . 10. Write a program To Page replacement algorithm for LFU .	

			time and Round Robin (RR) scheduling algorithms. Experiment with different quantum sizes for RR algorithm. 9. Design, develop and implement a C/C++/Java program to implement Banker's algorithm. Assume suitable input required to demonstrate the results. 10. Design, develop and implement a C/C++/Java program to implement page replacement algorithms LRU and FIFO. Assume suitable input required to demonstrate the results.		
13.	**VI Semester**	**Software Engineer**	**MODULE 1** Introduction: Software Crisis, Need for Software Engineering. Professional Software Development, Software Engineering Ethics. Case Studies. Software Processes: Models: Waterfall Model (Sec 2.1.1), Incremental Model (Sec 2.1.2) and Spiral Model (Sec 2.1.3). Process activities. Requirements Engineering: Requirements Engineering Processes (Chap 4). Requirements Elicitation and Analysis (Sec 4.5). Functional and non - functional requirements (Sec 4.1). The software Requirements Document (Sec 4.2). Requirements Specification (Sec 4.3). Requirements validation (Sec 4.6). Requirements Management (Sec 4.7). **MODULE 2** **2.1 System Models:** Context models (Sec 5.1). Interaction models (Sec 5.2). Structural models (Sec 5.3). Behavioral models (Sec 5.4). Model-driven engineering (Sec 5.5).	**MODULE 1** **(SHIFTED TO 4TH SEM)** **NO CHANGES IN MODULE CONTENTS** **MODULE 2**	

			2.2 Design and Implementation: Introduction to RUP (Sec 2.4), Design Principles (Chap 17). Object-Oriented design using the UML (Sec 7.1). Design patterns (Sec 7.2). Implementation issues (Sec 7.3). Open-source development (Sec 7.4).	**NO CHANGES IN MODULE CONTENTS**	
			MODULE 3 Software Testing: Development testing (Sec 8.1), Test-driven development (Sec 8.2), Release testing (Sec 8.3), User testing (Sec 8.4). Test Automation (Page no 42, 70,212, 231,444,695). Software Evolution: Evolution processes (Sec 9.1). Program evolution dynamics (Sec 9.2). Software maintenance (Sec 9.3). Legacy system management (Sec 9.4)	**MODULE 3** **NO CHANGES IN MODULE CONTENTS**	
			MODULE 4 Project Planning: Software pricing (Sec 23.1). Plan-driven development (Sec 23.2). Project scheduling (Sec 23.3): Estimation techniques (Sec 23.5). Quality management: Software quality (Sec 24.1). Reviews and inspections (Sec 24.3). Software measurement and metrics (Sec 24.4). Software standards (Sec 24.2)	**MODULE 4** **NO CHANGES IN MODULE CONTENTS**	
			MODULE 5 Agile Software Development: Coping with Change (Sec 2.3), The Agile Manifesto: Values and Principles. Agile methods: SCRUM (Ref "The SCRUM Primer, Ver 2.0") and Extreme Programming (Sec 3.3). Plan-driven and agile development (Sec 3.2). Agile project management (Sec 3.4), Scaling agile methods (Sec 3.5):	**MODULE 5** **NO CHANGES IN MODULE CONTENTS**	

13.	**VI Semester**	**Computer Network Laboratory**	**PART A** 1. Implement three nodes point – to – point network with duplex links between them. Set the queue size, vary the bandwidth and find the number of packets dropped. 2. Implement transmission of ping messages/trace route over a network topology consisting of 6 nodes and find the number of packets dropped due to congestion. 3. Implement an Ethernet LAN using n nodes and set multiple traffic nodes and plot congestion window for different source / destination. 4. Implement simple ESS and with transmitting nodes in wire-less LAN by simulation and determine the performance with respect to transmission of packets. 5. Implement and study the performance of GSM on NS2/NS3 (Using MAC layer) or equivalent environment. 6. Implement and stud y the performance of CDMA on NS2/NS3 (Using stack called Call net) or equivalent environment. **PART B** Implement the following using any programming language: 7. Write a program for error detecting code using CRC-CCITT (16- bits). 8. Write a program to find the shortest path between vertices using bellman-ford algorithm. 9. Using TCP/IP sockets, write a client – server program to make the client send the file name and to make the server send back the contents of the requested file if present.	**(SHIFTED TO 4TH SEM)** **NO CHANGES IN CONTENTS**	

			10. Write a program on datagram socket for client/server to display the messages on client side, typed at the server side. 11. Write a program for simple RSA algorithm to encrypt and decrypt the data. 12. Write a program for congestion control using leaky bucket algorithm.		

2017			2021		
SEM	**SUBJECT CODE**	**TITLE**	**SEM**	**SUBJECT CODE**	**TITLE**
III	**17SMA31**	**Engineering Mathematics-III**	**III**	**21SMA31**	**Engineering Statistics**
III	**17SCS32**	**Data Structures**	**III**	**21SCS32**	**Data Structure and its Applications using C** (no changes in module content)
III	**17SCS33**	**Computer Organization**	**III**	**21SCS33**	**Computer Architecture and Design** (changes in module content)
III	**17SCS34**	**Digital Logic Design** (Advanced Concepts are included in 2021 scheme)	**III**	**21SCS34**	**Object Oriented Programming Using Java** (new subject added)
III	**17SCS35**	**Microprocessors** (shifted to 5th Sem in 2021 scheme)	**III**	**21SCS35**	**Information to Bioinformatics** (new subject added)
III	**17SCS36**	**Discrete Mathematical Structures**	**III**	**21SCSL36**	**Data Structures Using C Lab** (no changes in module content)
III	**17SCSL37**	**Data Structures Using C Laboratory**	**III**	**21SCSL37**	**OOPS using JAVA lab** (new subject added)
III	**17SCSL38**	**Digital Logic Design & Microprocessors Laboratory** (Advanced Concepts are included in 2021 scheme)	**III**	**21SQA38**	**Employability Skills Enhancement Programme – 1 (ESEP 1)**
			III	**21SCS30**	**International Certification Course on Current Trends - 1**

IV	**19SCS41**	**Discrete Mathematical Structures and Graph Theory**	**IV**	**21SCS41**	**Discrete Mathematical Structures and Graph Theory**
IV	**17SCS42**	**Design and Analysis of Algorithms**	**IV**	**21SCS42**	**Design and Analysis of Algorithms** **(**no changes in module content)
IV	**17SCS43**	**Computer Graphics and Visualization** (shifted to 5th Sem in 2021 scheme)	**IV**	**21SCS43**	**Database Management System** **(**no changes in module content)
IV	**17SCS44**	**Object Oriented Concepts** (Advanced Concepts are included in 2021 scheme)	**IV**	**21SCS44**	**Software Engineering** **(**no changes in module content)
IV	**17SCS45**	**Data Communication** (Advanced Concepts are included in 2021 scheme)	**IV**	**21SCS45**	**Computer Network** (new subject added)
IV	**17SCS46**	**Unix and Shell Programming** (Advanced Concepts are included in 2021 scheme)	**IV**	**21SCSL46**	**Database Management Systems lab** (changes in module content)
IV	**17SCSL47**	**Computer Graphics And Visualization Laboratory** (Advanced Concepts are included in 2021 scheme)	**IV**	**21SCSL47**	**Computer Network Lab** (new subject added)
			IV	**21SQA48**	**Employability Skills Enhancement Programme – 2 (ESEP 2)**
			IV	**21SCS40**	**International Certification Course on Current Trends - 2**

V	**17SCS51**	**Management & Entrepreneurship** (Advanced Concepts are included in 2021 scheme)	**V**	**21SCS51**	**Operating Systems** **(**no changes in module content)
V	**17SCS52**	**Data Base Management Systems**	**V**	**21SCS52**	**Microprocessor and Interfacing Techniques** (changes in module content)
V	**17SCS53**	**Programming the World Wide Web**	**V**	**21SCS53**	**Introduction to AI & ML** (new subject added)
V	**17SCS54**	**System Software** (Advanced Concepts are included in 2021 scheme)	**V**	**21SCS54**	**Theory of Computations and Complier Design** **(**no changes in module content)
V	**17SCS55**	**Operating System**	**V**	**21SCS55**	**Computer Graphics** (new subject added)
V	**17SCS56**	**Theory Of Computation**	**V**	**21SCSL56**	**Microprocessor and Interfacing Lab** (new subject added)
V	**17SCSL57**	**Data Base and Web Applications Laboratory** (shifted to 4th Sem in 2021 scheme)	**V**	**21SCSL57**	**Operating Systems Lab** (changes in module content)
V	**17SCSL58**	**System Software and Operating System Laboratory**	**V**	**21SQA58**	**ESEP -3**
			V	**21SCSS01**	**MOOC -1**
			V	**21SCS59**	**Internship – 1**

			V	**21SCS50**	**International Certification Course on Current trends- 3**
			VI	**21SCS61**	**Web Technology** (no changes in module content)
VI	**17SCS61**	**Advanced JAVA and J2EE** (Advanced Concepts are included in 2021 scheme)	**VI**	**21SCS62**	**Fundamental of IOT** (new subject added)
VI	**17SCS62**	**Compiler Design** (Advanced Concepts are included in 2021 scheme)	**VI**	**21SCS63X**	**Core elective-1**
VI	**17SCS63**	**Software Engineering**	**VI**	**21SCS64X**	**Core elective -2**
VI	**17SCS64X**	**Professional Elective-1**	**VI**	**21SCS65X**	**Open elective -1**
VI	**17SCS65X**	**Professional Elective-2**	**VI**	**21SCSL66**	**Web Technology Lab** (new subject added)
VI	**17SCS66X**	**Open Elective-1**	**VI**	**21SCSL67**	**Fundamental of IoT Lab** (new subject added)
VI	**17SCS67**	**Java Programming Laboratory** (Advanced Concepts are included in 2021 scheme)	**VI**	**21SCSS02**	**MOOC-2**
VI	**17SCS68**	**Computer Networks Laboratory** (shifted to 4th Sem in 2021 scheme)	**VI**	**21SQA68**	**ESEP4**
VI	**17SCSP69**	**Mini -Project**	**VI**	**21SCS60**	**International Certification course on Current trends- 4**

			VII	**21SCS71**	**Cloud Computing** (new subject added)
			VII	**21SCS72**	**Data Science** (new subject added)
VII	**17SCS71**	**Management and Analysis of Big Data** (Advanced Concepts are included in 2021 scheme)	**VII**	**21SCS73**	**Information Security** (new subject added)
VII	**17SCS72**	**Python Programming** (Advanced Concepts are included in 2021 scheme)	**VII**	**21SCS74X**	**Core Elective – 3**
VII	**17SCS73X**	**Professional Elective-3**	**VII**	**21SCS75**	**Big Data Analytics** (new subject added)
VII	**17SCS74X**	**Professional Elective-4**	**VII**	**21SCSL76**	**Cloud Computing Lab** (new subject added)
VII	**17SCS75X**	**Open Elective - 2**	**VII**	**21SCS77**	**Mini-Project**
			VII	**21SQA79**	**ESEP: Patent Filing & IPR**
VII	**17SCSL76**	**Big Data Analytics Laboratory** (Advanced Concepts are included in 2021 scheme)	**VII**	**21SCS78**	**Internship-2**
VII	**17SCSL77**	**Python Programming Laboratory** (Advanced Concepts are included in 2021 scheme)	**VII**	**21SSI01**	**Social Internship**

VII	**17SCSP78**	**Project Phase - I**	**VIII**	**21SCS81**	**Technical Seminar**
			VII	**21SCSS03**	**MOOC-3 (Research Methodology)**
VIII	**17SCS81**	**Advanced Computer Architecture** (Advanced Concepts are included in 2021 scheme)	**VIII**	**21SCS82**	**Project (With Patent Application)**
VIII	**17SCS82X**	**Professional Elective-5**			
VIII	**17SCS83X**	**Open Elective - 3**			
VIII	**17SCST84**	**Technical Seminar**			
VIII	**17SCSP85**	**Major Project Phase-2**			
VIII	**17SCSI86**	**Internship**			

The sample format to be attached along with BOS proceedings of 2021-22. Changes made in the syllabus should be highlighted in yellow colour in the table.

The following specific corrections were made in the syllabus

<table>
<tr><th>Sl. No.</th><th>Semester</th><th>Course &Course code</th><th colspan="2">Present Syllabus (2019)</th><th colspan="3">Revised Syllabus (2021)</th><th>Credits</th></tr>
<tr><td rowspan="8"></td><td rowspan="8"></td><td rowspan="8"></td><td colspan="2">Scheme of Evaluation (19)</td><td colspan="3">Scheme of Evaluation (21)</td><td rowspan="8"></td></tr>
<tr><td>Phase I</td><td>40 marks</td><td>Phase I</td><td>Phase II</td><td>Phase III</td></tr>
<tr><td>Phase II</td><td>40 marks</td><td>Assignment
5 marks</td><td>MCQ
2 marks</td><td>MCQ
1 mark</td></tr>
<tr><td>Phase III</td><td>40 marks</td><td>MCQ
2 marks</td><td>Test
10 marks</td><td>Seminar/ Mini Project
15 marks</td></tr>
<tr><td>Average</td><td>40 marks</td><td>Test
10 marks</td><td></td><td></td></tr>
<tr><td>Assignment</td><td>10 marks</td><td>Weightage=17 marks</td><td>Weightage=17 marks</td><td>Weightage =16 marks</td></tr>
<tr><td colspan="2">Attendance</td><td>5 marks</td></tr>
<tr><td>Total</td><td>50 marks</td><td colspan="2">Total</td><td>50 marks</td></tr>
<tr><td></td><td></td><td></td><td colspan="2">Total Credits of 2019 Scheme =190</td><td colspan="3">Total Credits of 2021 Scheme=180</td><td></td></tr>
</table>

1.	**III Semester**	**Data Structures**	**Module 1** **1.1 Introduction:** Data Structures, Classifications (Primitive & Non-Primitive), Data structure Operations, Review of Arrays, Structures, Self-Referential Structures, and Unions. Pointers and Dynamic Memory Allocation Functions. Representation of Linear Arrays in Memory, dynamically allocated arrays. **1.2 Array Operations:** Traversing, inserting, deleting, searching, and sorting. Multidimensional Arrays, Polynomials and Sparse Matrices. **1.3 Strings:** Basic Terminology, Storing, Operations, Programming Examples. **Module 2:** **2.1 Stacks**: Definition, Stack Operations, Array Representation of Stacks, Stacks using Dynamic Arrays, Stack Applications: Polish notation, Infix to postfix conversion, evaluation of postfix expression **2.2 Recursion**: Factorial, GCD, Fibonacci Sequence, Tower of Hanoi, Ackerman\\'s function. **2.3 Queues**: Definition, Array Representation, Queue Operations, Circular Queues, Circular queues using Dynamic arrays, Dequeues, Priority Queues. Programming Examples. **Module 3** **3.1 Linked Lists:** Definition, Representation of linked lists in Memory, Memory allocation; Garbage Collection. Linked list	**Module 1** **No changes in the Module contents** . **Module 2:** **No changes in the Module contents**	4

			operations: Traversing, Searching, Insertion, and Deletion. Doubly Linked lists, Circular linked lists, and header linked lists. Linked Stacks and Queues. Applications of Linked lists – Polynomials, Sparse matrix representation. Programming Examples **Module 4** **4.1 Trees**: Terminology, Binary Trees, Properties of Binary trees, Array and linked Representation of Binary Trees, Binary Tree Traversals - Inorder, postorder, preorder; Additional Binary tree operations. Threaded binary trees, Binary Search Trees – Definition, Insertion, Deletion, Traversal, Searching, Application of Trees-Evaluation of Expression, Programming Examples **Module 5** **5.1 Graphs:** Definitions, Terminologies, Matrix and Adjacency List Representation Of Graphs, Elementary Graph operations **5.2 Traversal methods:** Breadth First Search and Depth First Search. **5.3 Sorting and Searching:** Insertion Sort, Radix sort, Address Calculation Sort. **5.4 Hashing:** Hash Table organizations, Hashing Functions, Static and Dynamic Hashing. **5.5 Files and Their Organization**: Data Hierarchy, File Attributes, Text Files and Binary Files, Basic File	**Module 3** **No changes in the Module contents** **Module 4** **No changes in the Module contents** **Module 5:** **No changes in the Module contents**	

			Operations, File Organizations and Indexing		

2.	**III Semester**	**Data Structure Using C Lab**	**1. Design, Develop and Implement a menu driven Program in C for the following** Array operations a. Creating an Array of N Integer Elements b. Display of Array Elements with Suitable Headings c. Inserting an Element (ELEM) at a given valid Position (POS) d. Deleting an Element at a given valid Position (POS) e. Exit. Support the program with functions for each of the above operations **2. Design, Develop and Implement a menu driven Program in C for the following operations on STACK of Integers (Array Implementation of Stack with maximum size MAX)** a. Push an Element on to Stack b. Pop an Element from Stack c. Demonstrate Overflow and Underflow situations on Stack d. Display the status of Stack e. Exit Support the program with appropriate functions for each of the above Operations **3. Design, Develop and Implement a Program in C for converting an Infix Expression to Postfix Expression. Program should**	**NO CHANGES IN CONTENTS**	

			support for both parenthesized and free parenthesized expressions with the operators: +, -, *,/, %(Remainder), ^(Power) and alphanumeric operands. **4. Design, Develop and Implement a Program in C for the following Stack Applications** a. Evaluation of Suffix expression with single digit operands and operators: +, -, *, /, %, ^ b. Solving Tower of Hanoi problem with n disks **5. Design, Develop and Implement a menu driven Program in C for the following operations on Circular QUEUE of Characters (Array Implementation of Queue with maximum size MAX)** a. Insert an Element on to Circular QUEUE b. Delete an Element from Circular QUEUE c. Demonstrate *Overflow* and *Underflow* situations on Circular QUEUE d. Display the status of Circular QUEUE e. Exit Support the program with appropriate functions for each of the above Operations **6. Design, Develop and Implement a menu driven Program in C for the following operations on Singly Linked List (SLL) of Student**		

			Data with the fields: *USN, Name, Branch, Sem, PhNo* a. Create a SLL of N Students Data by using *front insertion* b. Display the status of SLL and count the number of nodes in it c. Perform Insertion and Deletion at End of SLL d. Perform Insertion and Deletion at Front of SLL e. Exit **7. Design, Develop and Implement a menu driven Program in C for the following operations on Doubly Linked List (DLL) of Employee Data with the fields: *SSN, Name, Dept, Designation, Sal, PhNo*** a. Create a DLL of N Employees Data by using *end insertion* b. Display the status of DLL and count the number of nodes in it c. Perform 3Insertion and Deletion at End of DLL d. Perform Insertion and Deletion at Front of DLL e. Demonstrate how this DLL can be used as Double Ended Queue f. Exit **8. Design, Develop and Implement a menu driven Program in C for the following operations on Binary Search Tree (BST) of Integers** a. Create a BST of N Integers: 6, 9, 5, 2, 8, 15, 24, 14, 7, 8, 5, 2		

			b. Traverse the BST in Inorder, Preorder and Post Order c. Search the BST for a given element (KEY) and report the appropriate message d. Exit **9. Design, Develop and Implement a Program in C for the following operations on Graph(G) of Cities** a. Create a Graph of N cities using Adjacency Matrix. b. Print all the nodes reachable from a given starting node in a digraph using BFS method c. Check whether a given graph is connected or not using DFS method **10. Given a File of N employee records with a set K of Keys(4-digit) which uniquely determine the records in file F. Assume that file F is maintained in memory by a Hash Table(HT) of m memory locations with L as the set of memory addresses (2-digit) of locations in HT. Let the keys in K and addresses in L are Integers. Design and develop a Program in C that uses Hash function H: K →L as H(K)=K mod m (remainder method), and implement hashing technique to map a given key K to the address** space **L. Resolve the collision (if any) using linear probing.**		
3.	**IV Semester**	**Design Analysis of Algorithms**	**MODULE 1** **1.1 Introduction:** What is an Algorithm?, Algorithm Specification Analysis Framework, Performance Analysis: Space complexity, Time complexity. Asymptotic Notations: Big-Oh notation (O),	**MODULE 1**	

			Omega notation (Ω), Theta notation (Q), and Little-oh notation (o), Mathematical analysis of non-recursive and recursive Algorithms with Examples **1.2 Important Problem Types:** Sorting, Searching, String processing, Graph Problems, Combinatorial Problems. Fundamental Data Structures: Stacks, Queues, Graphs, Trees, Sets and Dictionaries. **MODULE 2** **2.1 Divide and Conquer:** General method, Binary search, Recurrence equation for divide and conquer, Finding the maximum and minimum (T2:3.1, 3.3, 3.4), Merge sort, Quick sort (T1:4.1, 4.2), Strassen's matrix multiplication (T2:3.8), Advantages and Disadvantages of divide and conquer. Decrease and Conquer Approach: Topological Sort. (T1:5.3) **MODULE 3** **3.1 Greedy Method:** General method, Coin Change Problem, Knapsack Problem, Job sequencing with deadlines (T2:4.1, 4.3, 4.5). Minimum cost spanning trees: Prim's Algorithm, Kruskal's Algorithm (T1:9.1, 9.2). Single source shortest paths: Dijkstra's Algorithm (T1:9.3). **3.2 Optimal Tree problem:** Huffman Trees and Codes (T1:9.4). Transform and	**NO CHANGES IN MODULE CONTENTS** **MODULE 2** **NO CHANGES IN MODULE CONTENTS** **MODULE 3**	

			Conquer Approach: Heaps and Heap Sort (T1:6.4). **MODULE 4** **4.1 Dynamic Programming**: General method with Examples, Multistage Graphs (T2:5.1, 5.2). Transitive Closure: Warshall's Algorithm, All Pairs Shortest Paths: Floyd's Algorithm, Optimal Binary Search Trees, Knapsack problem ((T1:8.2, 8.3, 8.4), Bellman-Ford Algorithm (T2:5.4), Travelling Sales Person problem (T2:5.9), Reliability design (T2:5.8). **MODULE 5** **5.1 Backtracking:** General method (T2:7.1), N-Queens problem (T1:12.1), Sum of subsets problem (T1:12.1), Graph coloring (T2:7.4), Hamiltonian cycles (T2:7.5). Branch and Bound: Assignment Problem, Travelling Sales Person problem (T1:12.2), 0/1 Knapsack problem (T2:8.2, T1:12.2): LC Branch and Bound solution (T2:8.2), FIFO Branch and Bound solution (T2:8.2). NP-Complete and NP-Hard problems: Basic concepts, nondeterministic algorithms, P, NP, NP Complete, and NP-Hard classes (T2:11.1).	**NO CHANGES IN MODULE CONTENTS** **MODULE 4** **NO CHANGES IN MODULE CONTENTS** **MODULE 5** **NO CHANGES IN MODULE CONTENTS**	
4.	**IV Semester**	**Computer Graphics and Visualization**	**MODULE 1** **1.1 Overview:** Computer Graphics and OpenGL: Computer Graphics: Basics of Computer graphics, Application of Computer Graphics, Video Display Devices: Random Scan and Raster Scan displays, color CRT	**MODULE 1** **(SHIFTED TO 5TH SEM)**	

			monitors, Flat panel displays. Raster-scan systems: video controller, raster scan Display processor, graphics Workstations and viewing systems, Input devices, graphics networks, graphics on the internet, graphics software. OpenGL: Introduction to OpenGL coordinate reference frames, specifying two-dimensional world coordinate reference frames in OpenGL, OpenGL point functions, OpenGL line functions, point attributes, line attributes, curve attributes, OpenGL point attribute functions, OpenGL line attribute functions, Line drawing algorithms(DDA, Bresenham's), circle generation algorithms (Bresenham's)**.** **MODULE 2** Fill area Primitives, 2D Geometric Transformations and 2D viewing: Fill area Primitives: Polygon fill-areas, OpenGL polygon fill area functions, fill area attributes, general scan line polygon fill algorithm, OpenGL fill-area attribute functions. 2DGeometric Transformations: Basic 2D Geometric Transformations, matrix representations and homogeneous coordinates. Inverse transformations, 2D Composite transformations, other 2D transformations, raster methods for geometric transformations, OpenGL raster transformations, OpenGL geometric transformation's function, 2D viewing: 2D viewing pipeline, OpenGL 2D viewing functions.	**NO CHANGES IN MODULE CONTENTS** **MODULE 2** **NO CHANGES IN MODULE CONTENTS**	

			MODULE 3 Clipping,3D Geometric Transformations, Color and Illumination Models: Clipping: clipping window, normalization and viewport transformations, clipping algorithms,2D point clipping, 2D line clipping algorithms: Cohen Sutherland line clipping only -polygon fill area clipping: Sutherland-Hodgeman polygon clipping algorithm only.3DGeometric Transformations: 3D translation, rotation, scaling, composite 3D transformations, other 3D transformations, affine transformations, OpenGL geometric transformations functions. Color Models: Properties of light, color models, RGB and CMY color models. Illumination Models: Light sources, basic illumination models-Ambient light, diffuse reflection, specular and Phong model, Corresponding openGL functions. **MODULE 4** 3D Viewing and Visible Surface Detection: 3DViewing:3D viewing concepts, 3D viewing pipeline, 3D viewing coordinate parameters , Transformation from world to viewing coordinates, Projection transformation, orthogonal projections, perspective projections, The viewport transformation and 3D screen coordinates. OpenGL 3D viewing functions. Visible Surface Detection Methods: Classification of visible surface Detection algorithms, back face	**MODULE 3** Clipping,3D Geometric Transformations, Color and Illumination Models: Clipping: clipping window, normalization and viewport transformations, clipping algorithms,2D point clipping, 2D line clipping algorithms: Cohen Sutherland line clipping only -polygon fill area clipping: Sutherland-Hodgeman polygon clipping algorithm only.3DGeometric Transformations: 3D translation, rotation, scaling, composite 3D transformations, other 3D transformations, affine transformations, OpenGL geometric transformations functions. Color Models: Properties of light, color models, RGB and CMY color models. Illumination Models: Light sources, basic illumination models-Ambient light, diffuse reflection, specular and Phong model, Corresponding openGL functions, basic illumination models-Ambient light, diffuse reflection, specular and Phong model, Corresponding openGL functions. **MODULE 4** **NO CHANGES IN MODULE CONTENTS** **MODULE 5**	

			detection, depth buffer method and OpenGL visibility detection functions. **MODULE 5** Input& interaction, Curves and Computer Animation: Input and Interaction: Input devices, clients and servers, Display Lists, Display Lists and Modelling, Programming Event Driven Input, Menus Picking, Building Interactive Models, Animating Interactive programs, Design of Interactive programs, Logic operations, curved surfaces, quadric surfaces, OpenGL Quadric-Surface and Cubic-Surface Functions, Bezier Spline Curves, Bezier surfaces, OpenGL curve functions. Corresponding openGL functions.	**NO CHANGES IN MODULE CONTENTS**	
5.	**V Semester**	**Foundation of AI**	**MODULE 1** History of AI: early history of AI, Middle Ages of AI development, dark ages of AI research and AI renaissance. Intelligence: animal intelligence, subjective intelligence and comparative intelligence. Alan Turing and the Turing Test, technological drivers of modern AI and structure of AI. **MODULE 2** Data: Data basics, types of data, big data – volume, velocity and variety, databases and other tools, data process: business understanding, data understanding and data preparation. Ethics and	**MODULE 1** **(SHIFTED TO 3rd SEM)** **NO CHANGES IN MODULE CONTENTS** **MODULE 2** **NO CHANGES IN MODULE CONTENTS**	

			governance, data need for AI, and data terms and concepts. **MODULE 3** Machine learning: standard deviation, the normal distribution, Bayes' theorem, correlation, feature extraction and applications of machine learning. Machine learning process, applying algorithms - supervised learning, unsupervised learning, reinforcement learning and semi-supervised learning and common types of machine learning algorithms. **MODULE 4** Deep learning: difference between deep learning and machine learning, brain and deep learning, Artificial Neural Networks (ANNs), Backpropagation, Neural Networks: Recurrent Neural Network, Convolutional Neural Network (CNN) and Generative Adversarial Networks (GANs). Deep learning applications: detecting Alzheimer's disease, energy, earthquakes, and radiology. Deep learning hardware, when to use deep learning and drawbacks with deep learning. **MODULE 5** Natural Language Processing (NLP): Challenges of NLP, understanding how AI translates language, Voice Recognition, NLP applications: improving sales, fighting depression, content creation and body language. Voice commerce,	**MODULE 3** **NO CHANGES IN MODULE CONTENTS** **MODULE 4** **NO CHANGES IN MODULE CONTENTS** **MODULE 5** **NO CHANGES IN MODULE CONTENTS**	

			virtual assistants, chatbots and future of NLP.		
6.	**V Semester**	**Database Management System**	**MODULE 1** **1.1 Introduction to Databases:** Introduction, Characteristics of database approach, Advantages of using the DBMS approach, History of database applications. **1.2 Overview of Database Languages and Architectures:** Data Models, Schemas, and Instances. Three schema architecture and data independence, database languages, and interfaces, The Database System environment. **1.3 Conceptual Data Modelling using Entities and Relationships:** Entity types, Entity sets, attributes, roles, and structural constraints, Weak entity types, ER diagrams, examples, Specialization and Generalization. **MODULE 2** **2.1 Relational Model**: Relational Model Concepts, Relational Model Constraints and relational database schemas, Update operations, transactions, and dealing with constraint violations. **2.2 Relational Algebra:** Unary and Binary relational operations, additional relational operations (aggregate, grouping, etc.) Examples of Queries in relational algebra. **2.3 Mapping Conceptual Design into a Logical Design:** Relational Database Design using ER-to-Relational mapping. **SQL:** SQL data definition and data types, specifying constraints in SQL,	**MODULE 1** **(SHIFTED TO 4TH SEM)** **NO CHANGES IN MODULE CONTENTS** **MODULE 2** **NO CHANGES IN MODULE CONTENTS**	

			retrieval queries in SQL, INSERT, DELETE, and UPDATE statements in SQL, Additional features of SQL. **MODULE 3** **3.1 SQL: Advances Queries:** More complex SQL retrieval queries, Specifying constraints as assertions and action triggers, Views in SQL, Schema change statements in SQL. **3.2 Database Application Development:** Accessing databases from applications, An introduction to JDBC, JDBC classes and interfaces, SQLJ, Stored procedures, Case study: The internet Bookshop. **3.3 Internet Applications:** The three-Tier application architecture, The presentation layer, The Middle Tier. **MODULE 4** **4.1 Normalization: Database Design Theory** – Introduction to Normalization using Functional and Multivalued Dependencies: Informal design guidelines for relation schema, Functional Dependencies, Normal Forms based on Primary Keys, Second and Third Normal Forms, Boyce-Codd Normal Form, Multivalued Dependency and Fourth Normal Form, Join Dependencies and Fifth Normal Form. **4.2 Normalization Algorithms:** Inference Rules, Equivalence, and Minimal Cover, Properties of Relational Decompositions, Algorithms for Relational Database Schema	**MODULE 3** **NO CHANGES IN MODULE CONTENTS** **MODULE 4** **NO CHANGES IN MODULE CONTENTS**	

			Design, Nulls, Dangling tuples, and alternate Relational Designs, Further discussion of Multivalued dependencies and 4NF, Other dependencies and Normal Forms. **MODULE 5** **5.1 Transaction Processing:** Introduction to Transaction Processing, Transaction and System concepts, Desirable properties of Transactions, Characterizing schedules based on recoverability, Characterizing schedules based on Serializability, Transaction support in SQL. **5.2 Concurrency Control in Databases:** Two-phase locking techniques for Concurrency control, Concurrency control based on Timestamp ordering, Mult version Concurrency control techniques, Validation Concurrency control techniques, Granularity of Data items and Multiple Granularity Locking. **5.3 Introduction to Database Recovery Protocols:** Recovery Concepts, NO-UNDO/REDO recovery based on Deferred update, Recovery techniques based on immediate update, Shadow paging, Database backup and recovery from catastrophic failures.	**MODULE 5** **NO CHANGES IN MODULE CONTENTS**	
7.	**V Semester**	**Data Base Management Systems Laboratory**	**1. Consider the following schema for a Library Database:** **BOOK(Book_id, Title, Publisher_Name, Pub_Year)** **BOOK_AUTHORS(Book_id, Author_Name)** **PUBLISHER(Name, Address, Phone)**	**(SHIFTED TO 4TH SEM)**	

			BOOK_COPIES(Book_id, Branch_id, No-of_Copies) **BOOK_LENDING(Book_ id, Branch_id, Card_No, Date_Out, Due_Date)** **LIBRARY_BRANCH(Br anch_id, Branch_Name, Address)** Write SQL queries to 1. Retrieve details of all books in the library – id, title, name of publisher, authors, number of copies in each branch, etc. 2. Get the particulars of borrowers who have borrowed more than 3 books, but from Jan 2017 to Jun2017. 3. Delete a book in BOOK table. Update the contents of other tables to reflect this data manipulation operation. 4. Partition the BOOK table based on year of publication. Demonstrate its working with a simple query. 5. Create a view of all books and its number of copies that are currently available in the Library. **2. Consider the following schema for Order Database:** **SALESMAN(Salesman_id , Name, City, Commission)** **CUSTOMER(Customer_id, Cust_Name, City, Grade, Salesman_id)** **ORDERS(Ord_No, Purchase_Amt, Ord_Date, Customer_id, Salesman_id)** Write SQL queries to 1. Count the customers with grades above Bangalore's average. 2. Find the name and numbers of all salesman	**NO CHANGES IN PROGRAM CONTENTS** .	

			who had more than one customer. 3. List all the salesman and indicate those who have and don't have customers in their cities (Use UNION operation.) 4. Create a view that finds the salesman who has the customer with the highest order of a day. 5. Demonstrate the DELETE operation by removing salesman with id 1000. All his orders must also be deleted. **3. Consider the schema for Movie Database:** **ACTOR(Act_id, Act_Name, Act_Gender)** **DIRECTOR(Dir_id, Dir_Name, Dir_Phone)** **MOVIES(Mov_id, Mov_Title, Mov_Year, Mov_Lang,Dir_id)** **MOVIE_CAST(Act_id, Mov_id,Role)** **RATING(Mov_id, Rev_Stars)** Write SQL queries to 1. List the titles of all movies directed by 'Hitchcock'. 2. Find the movie names where one or more actors acted in two or more movies. 3. List all actors who acted in a movie before 2000 and also in a movie after 2015 (use JOIN operation). 4. Find the title of movies and number of stars for each movie that has at least one rating and find the highest number of stars that movie received. Sort the result by movie title. 5. Update rating of all movies directed by 'Steven Spielberg' to 5.		

			‘Outstanding’ If FinalIA = 12 to 16 then CAT = ‘Average’ If FinalIA< 12 then CAT = ‘Weak’ Give these details only for 8th semester A, B, and C section students. **4. Consider the schema for College Database:** **STUDENT(USN, SName, Address, Phone, Gender)** **SEMSEC(SSID, Sem, Sec)** **CLASS(USN, SSID)** **SUBJECT(Subcode, Title, Sem, Credits)** **IAMARKS(USN, Subcode, SSID, Test1, Test2, Test3, FinalIA)** Write SQL queries to 1. List all the student details studying in fourth semester ‘C’section. 2. Compute the total number of male and female students in each semester and in each section. 3. Create a view of Test1 marks of student USN ‘1BI15CS101’ in all subjects. 4. Calculate the FinalIA (average of best two test marks) and update the corresponding table for all students. 5. Categorize students based on the following criterion: If FinalIA = 17 to 20 then CAT =‘Outstanding’ If FinalIA = 12 to 16 then CAT = ‘Average’ If FinalIA< 12 then CAT = ‘Weak’ Give these details only for 8th semester A, B, and C section students. **5.Consider the schema for Company Database:** **EMPLOYEE(SSN, Name, Address, Sex, Salary, SuperSSN, DNo)**		

			DEPARTMENT(DNo, DName, MgrSSN, MgrStartDate) **DLOCATION(DNo,DLoc)** **PROJECT(PNo, PName, PLocation, DNo)** **WORKS_ON(SSN, PNo, Hours)** Write SQL queries to 1. Make a list of all project numbers for projects that involve an employee whose last name is 'Scott', either as a worker or as a manager of the department that controls the project. 2. Show the resulting salaries if every employee working on the 'IoT' project is given a 10 percent raise. 3. Find the sum of the salaries of all employees of the 'Accounts' department, as well as the maximum salary, the minimum salary, and the average salary in this department 4. Retrieve the name of each employee who works on all the projects controlled by department number 5 (use NOT EXISTS operator). 5. For each department that has more than five employees, retrieve the department number and the number of its employees who are making more than Rs.6,00,000.		
8.	**V Semester**	**Computer Network Laboratory**	**PART A** 1. Implement three nodes point – to – point network with duplex links between them. Set the queue size, vary the bandwidth and find the number of packets dropped.	**(SHIFTED TO 4TH SEM)**	

			2. Implement transmission of ping messages/trace route over a network topology consisting of 6 nodes and find the number of packets dropped due to congestion. 3. Implement an Ethernet LAN using n nodes and set multiple traffic nodes and plot congestion window for different source / destination. 4. Implement simple ESS and with transmitting nodes in wire-less LAN by simulation and determine the performance with respect to transmission of packets. 5. Implement and study the performance of GSM on NS2/NS3 (Using MAC layer) or equivalent environment. 6. Implement and stud y the performance of CDMA on NS2/NS3 (Using stack called Call net) or equivalent environment. **PART B** Implement the following using any programming language: 7. Write a program for error detecting code using CRC-CCITT (16- bits). 8. Write a program to find the shortest path between vertices using bellman-ford algorithm. 9. Using TCP/IP sockets, write a client – server program to make the client send the file name and to make the server send back the contents of the requested file if present. 10. Write a program on datagram socket for client/server to display the messages on client side, typed at the server side.	**(1 to 3 from part A and 7 to 11 from part B)**	

			11. Write a program for simple RSA algorithm to encrypt and decrypt the data. 12. Write a program for congestion control using leaky bucket algorithm.		
9.	**V Semester**	**Artificial Intelligence Laboratory**	**Practicing Problems in Python** 1. *Write a python program to print the multiplication table for the given number *Write a python program to check whether the given number is prime or not? *Write a python program to find factorial of the given number? 2. *Write a python program to implement List operations (Nested List, Length, Concatenation, Membership, Iteration, Indexing and Slicing) *Write a python program to implement List methods (Add, Append, Extend & Delete). 3. Write a python program to implement simple Chatbot with minimum 10 conversations 4. Write a python program to Illustrate Different Set Operations 5. *Write a python program to implement a function that counts the number of times a string(s1) occurs in another string(s2) *Write a program to illustrate Dictionary operations([],in, traversal)and methods: keys(),values(),items() **AI Problems to be implemented in Python** 1. Implement and Demonstrate Depth First Search Algorithm on Water Jug Problem 2. Implement and Demonstrate Best First Search Algorithm on any AI problem 3. Implement AO* Search algorithm. 4. Solve 8-Queens Problem with suitable assumptions	**NO CHANGES IN PROGRAM CONTENTS**	

			5. Implementation of TSP using heuristic approach 6. Implementation of the problem-solving strategies: either using Forward Chaining or Backward Chaining 7. Implement resolution principle on FOPL related problems 8. Implement any Game and demonstrate the Game playing strategies		
10.	**VI Semester**	**Fundamentals of Machine Learning**	**MODULE 1** History: History of AI and machine learning, exploring what machine learning can do for AI, goals of machine learning, defining machine learning limits based on hardware, overcoming AI fantasies, relationship between AI and machine learning, AI and machine learning specifications. **MODULE 2** Machine learning essentials: defining big data, sources of big data: building a new data source, using existing data sources and locating test data sources. Role of statistics in machine learning, understanding the role of algorithms and defining what training means. **MODULE 3** Demystifying the math behind machine learning, working with data, probabilities: overview, operating on probabilities, conditioning chance by Bayes' theorem, use of statistics, different kinds of learning, learning process and optimizing with big data. **MODULE 4** Validating machine learning: use of example data, checking out-of-sample errors, training, validating, and testing.	**(SHIFTED TO 4TH SEM)** **MODULE 1** **NO CHANGES IN MODULE CONTENTS** **MODULE 2** **NO CHANGES IN MODULE CONTENTS** **MODULE 3** **NO CHANGES IN MODULE CONTENTS** **MODULE 4**	

			Optimizing by cross-validation, avoiding sample bias and leakage traps. **MODULE 5** Data: preprocessing data, gathering and cleaning data, repairing missing data, transforming distributions, creating own features, delimiting anomalous data, measuring similarity between vectors and utilizing distances to locate clusters.	**NO CHANGES IN MODULE CONTENTS** **MODULE 5** **NO CHANGES IN MODULE CONTENTS**	
11.	**VI Semester**	**Machine Learning Laboratory**	1. Implement and demonstrate the FIND-S algorithm for finding the most specific hypothesis based on a given set of training data samples. Read the training data from a .CSV file. 2. For a given set of training data examples stored in a .CSV file, implement and demonstrate the Candidate-Elimination algorithm to output a description of the set of all hypotheses consistent with the training examples. 3. Write a program to demonstrate the working of the decision tree based ID3 algorithm. Use an appropriate data set for building the decision tree and apply this knowledge to classify a new sample. 4. Build an Artificial Neural Network by implementing the Backpropagation algorithm and test the same using appropriate data sets. 5. Write a program to implement the naïve Bayesian classifier for a sample training data set stored as a .CSV file. Compute the accuracy of the classifier, considering few test data sets. 6. Assuming a set of documents that need to be classified, use the naïve Bayesian Classifier model to perform this task. Built-in Java classes/API can be used to write the program.	**NO CHANGES IN PROGRAM CONTENTS**	

			Calculate the accuracy, precision, and recall for your data set. 7. Write a program to construct a Bayesian network considering medical data. Use this model to demonstrate the diagnosis of heart patients using standard Heart Disease Data Set. You can use Java/Python ML library classes/API. 8. Apply EM algorithm to cluster a set of data stored in a .CSV file. Use the same dataset for clustering using k-Means algorithm. Compare the results of these two algorithms and comment on the quality of clustering. You can add Java/Python ML library classes/API in the program. 9. Write a program to implement k-Nearest neighbor algorithm to classify the iris data set. Print both correct and wrong predictions. Java/Python ML library classes can be used for this problem. 10. Implement the non-parametric Locally Weighted Regression algorithm in order to fit data points. Select appropriate data set for your experiment and draw graphs.		
12.	**VII Semester**	**Foundation Of Deep Learning**	**MODULE 1** Deep learning: introducing deep learning, the model of a neuron, the perceptron learning algorithm. Shallow networks: the input-to-hidden layer, the hidden-to-hidden layer, the hidden-to-output layer. Deep networks and the importance of deep learning Teaching Methodology: Chalk and talk using PPT and Demo to explain the concept. **MODULE 2** Preparing data: binary data and binary classification, categorical	**(SHIFTED TO 6TH SEM)** **MODULE 1** **NO CHANGES IN MODULE CONTENTS** **MODULE 2**	

			data and multiple classes, real-valued data and univariate regression, altering the distribution of data, data augmentation data dimensionality reduction and ethical implications of manipulating data **MODULE 3** Learning from data: learning for a purpose, measuring success and error, identifying overfitting and generalization, the art behind learning and ethical implications of training deep learning algorithms **MODULE 4** Training a Single Neuron: The perceptron model: The visual concept and Tensor operations. The perceptron learning algorithm: PLA in Python. A perceptron over non-linearly separable data: Convergence on linearly separable data and Convergence on non-linearly separable data. **MODULE 5** Training Multiple Layers of Neurons: The MLP model. Minimizing the error: Initialization, the forward pass, Calculating loss and the backward pass. Finding the best hyperparameters.	**NO CHANGES IN MODULE CONTENTS** **MODULE 3** **NO CHANGES IN MODULE CONTENTS** **MODULE 4** **NO CHANGES IN MODULE CONTENTS** **MODULE 5** **NO CHANGES IN MODULE CONTENTS**	
13.	**VII Semester**	**Cloud Computing Laboratory**	1. Install VirtualBox/VMware Workstation with different Flavors of Linux or windows OS on top of windows7 or 8. 2. Install a C compiler in the virtual machine created using virtual box and execute Simple Programs 3. Install Google App Engine. Create hello world app and		

			other simple web applications using python/java. 4. Use GAE launcher to launch the web applications. 5. Simulate a cloud scenario using Cloud Sim and run a scheduling algorithm that is not present in Cloud Sim. 6. Find a procedure to transfer the files from one virtual machine to another virtual machine. 7. Find a procedure to launch virtual machine using try stack (Online OpenStack Demo Version) 8. Install Hadoop single node cluster and run simple applications like wordcount.	**NO CHANGES IN PROGRAM CONTENTS**	

2019			2021		
SEM	**SUBJECT CODE**	**TITLE**	**SEM**	**SUBJECT CODE**	**TITLE**
III	**19SMA31**	**Numerical Techniques and Integral Transforms**	**III**	**21SMA31**	**Engineering Statistics**
III	**19SAL32**	**Data structures and Applications**	**III**	**21SAL32**	**Data Structure and its Applications using C** (no changes in module content)
III	**19SAL33**	**Analog & Digital Electronic Circuits** (Advanced Concepts are added in 2021 Scheme)	**III**	**21SAL33**	**Computer Architecture and Design**
III	**19SAL34**	**Microprocessors & Embedded Systems** (Advanced Concepts are added)	**III**	**21SAL34**	**Object Oriented Programming Using Java**
III	**19SALL35**	**Analog & Digital Electronics Lab** (Advanced Concepts are added in 2021 Scheme)	**III**	**21SAL35**	**Foundations of Artificial Intelligence** (no changes in module content)
III	**19SALL36**	**Data structures lab**	**III**	**21SALL36**	**Data Structures Using C Lab** (no changes in module content)
III	**19SALL37**	**Microprocessors Lab** (Advanced Concepts are added in 2021 Scheme)	**III**	**21SALL37**	**OOPS using JAVA lab**
III	**19SAL38**	**ESEP-Circuit Analysis Simulation and Debugging**	**III**	**21SQA38**	**Employability Skills Enhancement Programme 1 (ESEP 1)**
III	**19SQA39**	**Part-A: Employability Skills Enhancement Programme 1 (ESEP 1)**	**III**	**21SAL30**	**International Certification Course on Current Trends - 1**

		Part-B: International Certification Course on Current Trends - 1			
IV	**19SAL42**	**Design and Analysis of Algorithms**	**IV**	**21SAL42**	**Design and Analysis of Algorithms** (no changes in module content)
IV	**19SAL43**	**Object Oriented Concepts** (Advanced Concepts are added in 2021 Scheme)	**IV**	**21SAL43**	**Database Management System** **(**no changes in module content)
IV	**19SAL44**	**Computer Graphics and Visualization**	**IV**	**21SAL44**	**Computer Network**
IV	**19SALL45**	**Design and Analysis of Algorithms Lab** (Advanced Concepts are added in 2021 Scheme)	**IV**	**21SAL45**	**Fundamentals of Machine Learning** (no changes in module content)
IV	**19SALL46**	**Basic Communications Lab** (Advanced Concepts are added in 2021 Scheme)	**IV**	**21SALL46**	**Database Management Systems lab** (no changes in module content)
IV	**19SALL47**	**Computer Graphics and Visualization Laboratory** (Advanced Concepts are added in 2021 Scheme)	**IV**	**21SALL47**	**Computer Network Lab** (no changes in module content)
IV	**19SAL48**	**ESEP-Introduction to emerging technologies**	**IV**	**21SQA48**	**Employability Skills Enhancement Programme – 2 (ESEP – 2)**
IV	**19SQA49**	**Part-A: Employability Skills Enhancement Programme 2 (ESEP 2)** **Part-B: International Certification Course on Current Trends - 2**	**IV**	**21SAL40**	**International Certification Course on Current Trends - II**

V	**19SAL51**	**Foundations of Artificial Intelligence**	**V**	**21SAL51**	**Operating Systems** (new subject added)
V	**19SAL52**	**Data Base Management Systems**	**V**	**21SAL52**	**Microprocessor and Interfacing Techniques**
V	**19SAL53X**	**Core Elective – 1**	**V**	**21SAL53**	**Introduction to Artificial Neural network** (new subject added)
V	**19SAL54X**	**Optional/Soft Elective**	**V**	**21SAL54**	**Introduction to Natural Language Processing**
V	**19SALL55**	**Artificial Intelligence Laboratory**	**V**	**21SAL55**	**Computer Graphics**
V	**19SALL56**	**Data Base Management Systems Laboratory**	**V**	**21SALL56**	**Operating Systems Lab** (new subject added)
V	**19SALL57**	**Computer Networks Laboratory**	**V**	**21SALL57**	**Artificial Intelligence Lab** (no changes in program content)
V	**19SAL58**	**ESEP - MOOC**	**V**	**21SQA58**	**Employability Skills Enhancement Programme 3 (ESEP 3)**
V	**19SQA59**	**Part-A: Employability Skills Enhancement Programme 3 (ESEP 3)** **Part-B: International Certification Course on Current Trends - 3**	**V**	**21SCF59**	**Internship – I**
			V	**21SALS01**	**MOOC – 1 (Department Specific)**
			V	**21SAL50**	**International Certification Course on Current Trends - 3**

VI	**19SAL61**	**Fundamentals of Machine Learning**	**VI**	**21SAL61**	**Web Technology**
VI	**19SAL62**	**System Software and Compiler Design** (Advanced Concepts are added in 2021 Scheme)	**VI**	**21SAL62**	**Foundations of Deep Learning** (no changes in module content)
VI	**19SAL63X**	**Core Elective – 2**	**VI**	**21SAL63X**	**Core elective -1**
VI	**19SAL64X**	**Open Elective -1**	**VI**	**21SAL64X**	**Core elective -2**
VI	**19SALL65**	**Machine Learning Laboratory**	**VI**	**21SAL65X**	**Open Elective -1**
VI	**19SALL66**	**System Software and Compiler Design Laboratory** (Advanced Concepts are added in 2021 Scheme)	**VI**	**21SALL66**	**Machine Learning Lab** (no changes in module content)
VI	**19SALL67**	**Python Programming Laboratory** (Advanced Concepts are added in 2021 Scheme)	**VI**	**21SALL67**	**Fundamental of IOT Lab**
VI	**19SAL68**	**ESEP – Mini Project**	**VI**	**21SQA68**	**Employability Skills Enhancement Programme 4 (ESEP – 4)**
VI	**19SQA69**	**Part-A: Employability Skills Enhancement Programme 4 (ESEP 4)** **Part-B: International Certification Course on Current Trends - 4**	**VI**	**21SALS02**	**MOOC – 2 (Department Specific)**
			VI	**21SQA60**	**International Certification Course on Current Trends – 4**
VII	**19SAL71**	**Foundations of Deep Learning**	**VII**	**21SAL71**	**Cloud Computing**

VII	**19SAL72X**	**Core Elective – 3**	**VII**	**21SAL72**	**Data Science** (new subject added)
VII	**19SAL73X**	**Core Elective – 4**	**VII**	**21SAL73**	**Information Security** (new subject added)
VII	**19SAL74X**	**Open Elective -2**	**VII**	**21SAL74X**	**Core Elective - 3**
VII	**19SALL75**	**Internet of Things Laboratory** (Advanced Concepts are added in 2021 Scheme)	**VII**	**21SAL75**	**Big Data Analytics**
VII	**19SALL76**	**Cloud Computing Laboratory**	**VII**	**21SALL76**	**Cloud Computing Lab** (no changes in module content)
VII	**19SALL77**	**Project Phase I**	**VII**	**21SAL77**	**Mini Project**
VII	**19SAL78**	**ESEP – MOOC**	**VII**	**21SAL78**	**Internship – II**
VII	**19SQA79**	**ESEP - Employability Skill Enhancement Programme - Patent Filing & IPR**	**VII**	**21SAL79**	**ESEP: Patent Filing & IPR**
VII	**19SAL81**	**Technical Seminar**	**VII**	**21SSI01**	**Social Internship**
VIII	**19SAL82**	**Internship**	**VIII**	**21SAL81**	**Technical Seminar**
			VIII	**21SALS03**	**MOOC – 3 – (Research Methodology)**
VIII	**19SAL83**	**Project Work (With Option of Patent Application)**	**VIII**	**21SAL82**	**Project Work (With Option of Patent Application)**

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Date: 09.08.2021

NOTIFICATION

Sub: Re-constitution of Board of Studies in Physiotherapy for Srinivas University, Mangalore.

The Board of Studies in Institute of Physiotherapy is constituted with immediate effect and until further orders.

1.	Dr. Rajasekar S. Dean, Institute of Physiotherapy, Srinivas University, Mangalore deanphysiotherapy@srinivasuniversity.edu.in	Chairperson
2.	Dr. Ajay Kumar Professor, Institute of Physiotherapy, Srinivas University drajay@srinivasuniversity.edu.in	Internal Member
3.	Dr. Thrishala Noronha Associate Professor Institute of Physiotherapy, Srinivas University thrish22.cp@srinivasuniversity.edu.in.	Internal Member (Secretary)
4.	Dr. N Mageswaran Associate Professor Institute of Physiotherapy, Srinivas University mageshnbpt@gmail.com	Internal Member
5.	Dr. Pathak Anupama Assistant Professor Institute of Physiotherapy, Srinivas University pathakanupama29@gmail.com	Internal member
6.	Dr. K Vijay Kumar Department of Physiotherapy KMC, Mangalore. vijay.kk@manipal.edu	External member (Industry expert)
7.	Dr. M Premkumar Director Abhinav Pain & Neuro Rehabilitation Centre, Madurai, Tamilnadu 80pk.2009@gmail.com	External member (Industry expert)
8.	Dr. Bhargav Dave Founder, MyraGe Scientific laboratory, Texas USA bhargavvihangdave1988@gmail.com	External member (Alumni)

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Dr. Rajasekar S
Chairperson BOS

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COLLEGE OF PHYSIOTHERAPY

BOS MINUTES OF THE MEETING

A meeting of BOS of College of Physiotherapy, Srinivas University was held in Dean's chamber of College of Physiotherapy, City campus, Pandeshwar on **15.11.2021**.

The following members were present:

Dr. Rajasekar S	-	Chairperson
Dr. Ajay Kumar	-	Member
Dr. Thrishala Noronha	-	Member
Dr. N. Mageswaran	-	Member
Dr. Pathak Anupama	-	Member
Dr. Premkumar M	-	Member (External industry expert)

Leave of absence:

Leave of absence was granted to

Dr. Bhargav Dave- Member (Alumni) and

Dr. K. Vijay Kumar – Member (External industry expert)

The Chairman welcomed all the members who were present for the meeting. The meeting was thereafter deliberated by Dr. Thrishala Noronha on agenda items as had been approved by the Chairperson.

AGENDA

1. **Confirmation of minutes of last meeting of the Board of Studies held on 22.02.2021.**
2. **To consider and approve the revised Curriculum and syllabus for BPT according to NEP 2020.**
3. **To consider and approve the revised curriculum and syllabus for MPT 2021 batch.**
4. **Planning the academic calendar for BPT and MPT for the academic year 2021-22.**

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1. **Confirmation of minutes of last meeting of the Board of Studies held on 22.02.2021.**
   - The minutes of the BOS meeting held on 22nd February 2021 was circulated among the BOS members. Since no comment has been received, this BOS has approved the minutes of the meeting.

2. **To consider and approve the Curriculum and syllabus for BPT according to NEP 2020.**
   -The Chairperson informed the house that the based on the feedback received from the stakeholders regarding the curriculum, changes have been made and syllabus for BPT for the batch of 2021 has been structured according to NEP 2020 and is ready for approval.
   -Resolution: The members considered the curriculum and syllabus for BPT and discussed different issues. Finally, it was approved and recommended to the Academic Council for further approval. It was also decided that the course can be introduced under College of Physiotherapy, Srinivas University from 2021 batch onwards. The structuring and changes made are as follows:

Sl. No	Semester	Course and Course Code	Present syllabus	Revised syllabus	Credits
1.	I	Psychology and Sociology 21BPTDSC01	Both psychology and sociology were separate courses. Psychology-5 modules Sociology- 5 modules	Both psychology and sociology modules is merged and made into one course. Psychology content is merged and made into 3 modules. Sociology content is merged and made into 2 modules.	4
2.	I	Human Anatomy-I 21BPTDSC02	Human Anatomy-I Theory and Human Anatomy-I practical were separate courses Module 1- Histology Module 2- Embryology Module 3- Thorax Module 4-Introduction to musculoskeletal anatomy Human Anatomy-I Theory module 5, lower extremity anatomy was not there.	Human Anatomy-I Theory and Practical course modules are merged and made as one course. Module 1 and 2 merged into single module 1 Module 3 changed module 2 Module 4 changed to module 3 Lower Extremity Anatomy added under module 4: Osteology- Hip bone, femur, tibia, fibula, patella, tarsals, metatarsals and phalanges; Soft parts; Gluteal region, front and back of the thigh (Femoral triangle, femoral canal and inguinal canal), medial side of the thigh (Adductor canal), lateral side of the thigh,	6

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				popliteal fossa, anterior and posterior compartments of leg, sole of the foot, lymphatic drainage of lower limb, venous drainage of the lower limb, arterial supply of the lower limb, arches of foot, skin of foot; Joints: Hip joint, Knee joint, Ankle joint, joints of the foot.	
			Module 5: Upper extremity anatomy	Module 5 practical content added: Histology- Elementary tissue including surface Anatomy; Embryology. Embryology- models, charts & X-rays Upper extremity including surface Anatomy, Demonstration of movements in important joints, Identification of body prominences on inspection and by palpation, Points of palpation of nerves and arteries. Lower extremity including surface Anatomy, Demonstration of movements in important joints, Identification of body prominences on inspection and by palpation, Points of palpation of nerves and arteries. Thorax including surface anatomy, demonstration of bones, joints, organs in thorax in a cadaver; surface making of the lung, pleura, fissures and lobes of lungs, heart.	
3.	I	Human Physiology-I 21BPTDSC03	Human Physiology-I Theory and Human Physiology-I practical were separate courses.	Human Physiology-I Theory and Practical course units are merged and made as one course.	6
			Human Physiology-I Theory Module 1- General physiology Module 2- Blood	Module 1 and 2 merged.	
			Module 3- Nerve muscle physiology	Changed to module 2	
			Module 4- cardiovascular system	Changed to module 3	
			Module 5- Respiratory system.	Changed to module 4	
			Human Physiology-I practical was separate course	Human Physiology-I practical added as Module 5 in the merged syllabus.	
			Human Physiology-I	Under module 5 elaborated as:	

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			practical Module 2- Clinical examination: examination of radial pulse. B.P. recording Examination of CVS; examination of RS	Examination of peripheral arterial pulses: Brachial pulse, Radial and ulnar pulse, Femoral and popliteal pulse, Anterior and posterior tibial pulse, Dorsalis pedis pulse. Blood pressure recording. Examination of Cardiovascular and Respiratory System: Auscultation and percussion points; Normal breath sounds; Normal heart sounds; ECG: Calculation of heart rate.	
4.	I	Kannada-I for non-Kannadigas 21BPTAECC02(NK)	Not there	New course introduced as per NEP.	1
5.	I	Kannada-I for Kannadigas 21BPTAECC02(K)	Not there	New course introduced as per NEP.	1
6.	I	Introduction to basic skills in patient care-I 21BPTSEC01	Non-credit course	Converted to credit course carrying 2 credits.	2
7.	I	NSS/Cultural/sports 21BPTSEC02	Not there	Value based course added as per NEP.	2
8.	II	Human Anatomy-II 21BPTDSC04	Human Anatomy-II Theory and Human Anatomy-I practical were separate courses. Module 2- lower extremity anatomy Module 3- trunk anatomy Module 4- Head and neck anatomy Human Anatomy-II practical was separate course	Human Anatomy-II Theory and Practical course modules are merged and made as one course. Module 2 changed to trunk anatomy as lower extremity anatomy was shifted to I semester. Module 3- head and neck anatomy Module 4- Neuroanatomy Human Anatomy-II practical syllabus added as Module 5 in the merged syllabus. Practical content added: Abdomen & Pelvis: Organs in abdomen & pelvis in a cadaver, points of palpation of nerves& arteries. Head, neck, Spinal cord and Brain: Surface anatomy, cranial nerves, vertebrae, spinal nerves and important blood vessels; Palpation points and identification of various structures of the brain and spinal cord, nerves and arteries.	6

SRINIVAS UNIVERSITY
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9.	II	Human Physiology-II 21BPTDSC05	Human Physiology-II theory and Human Physiology-II Practical were separate courses. Module 2- Endocrine system Module 3- Reproductive system Module 4- Special senses Module 5- Nervous system Human Physiology-II practical was a separate course Human Physiology-II practical Module 2- Clinical examination: Examination of sensory system, examination of motor system, examination of reflexes and cranial nerve examination.	Human Physiology-II Theory and Practical course modules are merged and made as one course. Endocrine system merged into module 1. Changed to module 2 Changed to module 3 Changed to module 4 Human Physiology-I practical added as Module 5 in the merged syllabus. Under module 5 elaborated as-Clinical Examination: Examination of Sensory System: Superficial, deep and cortical sensations; Examination of Motor System; Examination of reflexes: Superficial and deep tendon jerks; Examination of cranial nerves: Cranial nerve I to XII	6
	II	Biochemistry for Physiotherapists 21BPTDSC06	Was there in III semester	Shifted to II semester.	3
10.	II	Kannada-II for non-Kannadigas 21BPTAECC02(NK)	Not there	New course introduced as per NEP.	1
11.	II	Kannada-II for Kannadigas 21BPTAECC02(K)	Not there	New course introduced as per NEP.	1
12.	II	Environmental Sciences 21BPTAECC05	Not there	New course introduced as per NEP under Ability enhancement courses	3
13.	II	Basic Nursing and First Aid 21BPTSEC03	Non-credit course Module 2- Lifting and transporting patients Module 3- surgical dressing Module 4-	Converted as credit based course carrying 2 credits. Removed Module 3- new topic of Care of Rubber Goods: Observation, Reporting and Recording temperature, Respiration and pulse, simple aseptic technique, sterilization and disinfection introduced. Module 4 changed to surgical dressing;	2

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			Introduction to first Aid Module 4- Introduction to first aid and module 5 procedures	Observation of dressing procedures. Merged into single module number 5.	
14.	II	Introduction to basic skills in patient care-II 21BPTSEC04	Non-credit course	Converted to credit course carrying 2 credits.	2
15.	III	Pathology and Microbiology 21BPTDSC07	Pathology for Physiotherapists course was in III semester and Microbiology for Physiotherapists course was in IV semester	Both course content merged into one course and reintroduced as a core course under 5 modules.	3
16.	III	Exercise Therapy-I 21BPTDSC08	Exercise Therapy-I theory and practical were separate courses.	Theory and Practical course modules are merged and made as one course and distributed under 7 modules.	6
17.	III	Biomechanics and Kinesiology-I 21BPTDSC09	Biomechanics and Kinesiology-I theory and practical were separate courses.	Theory and Practical course modules are merged and made as one course, distributed under 5 modules.	6
18.	III	French-I 21BPTAECC06	Not there	New course introduced as per NEP.	3
19.	III	Sanskrit/Hindi 21BPTAECC07(S)/ 21BPTAECC07(H)	Not there	New elective language courses introduced as per NEP.	1
20.	III	Basic Life Support (BLS) 21BPTSEC05	Not there	Introduced as per NEP as a skill enhancement course.	2
21.	III	Basic skills in patient care-I 21BPTSEC06	Non-credit course	Changed to credit course carrying 2 credits.	2
22.	III	Professional ethics 21BPTSEC07	Was in VII semester	Value based course shifted from VII semester to III semester as per NEP structure.	2
23.	IV	Exercise Therapy-II 21BPTDSC10	Exercise Therapy-II theory and practical were separate courses (8 modules). Module 5- Mat activities, walking aids Module 6-	Theory and Practical course modules are merged and made as one course, distributed under 7 modules. Both modules merged and comes under module 5.	6

SRINIVAS UNIVERSITY
G.H.S. ROAD
MANGALURU-575 001

			Individual, group and mass exercises.		
24.	IV	Biomechanics and Kinesiology-II 21BPTDSC11	Biomechanics and Kinesiology-II theory and practical were separate courses.	Theory and Practical course modules are merged and made as one course, distributed under 5 modules.	6
25.	IV	Electro Physical Agents I and II 21BPTDSC12	Electrotherapy I in III semester and Electrotherapy II in IV semester	Course name changed to Electro Physical Agents, and I and II which were in III and IV semesters separately, have been merged into one course in IV semester. This is to fulfill the curriculum structure of NEP.	6
26.	IV	French-II 21BPTAECC08	Not there	New language course introduced as per NEP.	3
27.	IV	Arabic/German 21BPTAECC09(A)/ 21BPTAECC09(G)	Not there	New language courses introduced as per NEP.	1
28.	IV	Indian Constitution 21BPTAECC10	Non-credit course	Converted to credit course carrying 2 credits.	2
29.	IV	Basic skills in patient care-II 21BPTSEC08	Non-credit course	Converted to credit course carrying 2 credits.	2
30.	V	Medicine and Surgery 21BPTDSC13	General Medicine and General Surgery were separate courses and were 15 modules.	Both courses merged and made into one course and course name changed to Medicine and Surgery and concised to 12 modules.	4
31.	V	21BPTDSC14	Obstetrics and Gynaecology for Physiotherapy and Clinical Paediatrics for Physiotherapy were separate courses with 11 modules. Module 2 Paediatrics- High risk pregnancy and high risk infants Module 3- Community programmes, infant feeding, child and nutrition	Both courses merged and made into one course and renamed as OBG and Paediatrics. Both modules merged under module 2 of Paediatrics section.	4
32.	V	Pharmacology for Physiotherapists 21BPTDSE01	In IV semester	Now introduced as discipline specific elective course in V semester for standardization of credits and NEP structure.	3
33.	V	Fitness Training 21BPTVOC01	Not there	New vocational course introduced in V semester as per NEP.	3
34.	V	Mobilizations and Manipulations (peripheral and spinal joints) 21BPTSEC09	Not there	New Skill Enhancement course introduced as per NEP.	3

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35.	V	Clinical training-I 21BPTSEC10	Not there	New Skill Enhancement course introduced as per NEP	4
36.	V	Yoga 21BPTSEC11	Non-credit course	Changed to credit based course. Entire content changed as per the latest updates in Yoga practice.	3
37.	VI	Women's Health for Physiotherapists 21BPTDSE02	Physiotherapy in Obstetrics and Gynaecology theory and practical were separate courses.	Introduced as single discipline specific elective course in VI semester and course name changed to Women's Health for Physiotherapists.	4
38.	VI	Hospital Administration 21BPTVOC02	Non-credit course	Converted to credit course carrying 3 credits.	3
	VI	Clinical training-II 21BPTSEC12	Not there	New Skill Enhancement course introduced as per NEP	4
39.	VI	NSS/Cultural/sports 21BPTSEC13	Not there	Value based course added in as per NEP.	2
40.	VII	Physiotherapy in Orthopaedics and Sports 21BPTDSC19	Physiotherapy in Orthopaedics and Sports Theory and practical were separate courses.	Merged into one single course, distributed under 6 modules.	6
41.	VII	Physiotherapy in Neurosciences 21BPTDSC20	Physiotherapy in Neurosciences Theory and practical were separate courses.	Merged into one single course, distributed under 7 modules.	6
42.	VII	Evidence Based Practice in Physiotherapy 21BPTDSC21	Ethics and Evidence based practice in Physiotherapy was together.	Ethics shifted to III semester	2
43.	VII	Electro diagnosis for Physiotherapists 21BPTDSE03	Not there	Introduced as discipline specific elective course.	2
44.	VII	Dry Needling 21BPTDSE04	Not there	Introduced as discipline specific elective course.	3
45.	VII	Research Methodology and Biostatistics	In VIII semester	Shifted to VII semester	3
46.	VII	Essentials of Orthotics and Prosthetics 21BPTVOC03	Not there	Introduced as vocational course as per NEP.	2
47.	VII	Clinical training-III 21BPTSEC14	Clinical training-I	Title changed to clinical training-III	4
48.	VII	Cardiopulmonary resuscitation-CPR Theory (Elective)	Choice based subject	Removed.	-
49.	VII	Cardiopulmonary resuscitation-CPR Practical (Elective)	Choice based subject	Removed.	-
50.	VII	Sports Physiotherapy Theory (Elective)	Choice based subject	Removed.	-
51.	VII	Sports Physiotherapy	Choice based subject	Removed.	-

SRINIVAS UNIVERSITY G.H.S. ROAD MANGALURU-575 001

		Practical (Elective)			
52.	VIII	Physiotherapy in Cardiopulmonary and General conditions 21BPTDSC22	Physiotherapy in Cardiopulmonary and General conditions Theory and Practical were separate courses.	Merged into one course, distributed under 8 modules.	6
53.	VIII	Community Based Rehabilitation (CBR) 21BPTDSC23	Community Based Rehabilitation (CBR) Theory and Practical were separate courses.	Merged into one course, distributed under 8 modules.	5
54.	VIII	Vestibular Rehabilitation 21BPTDSE06	Vestibular Rehabilitation Theory and practical were separate courses and given as choice based.	Merged into one course and introduced as a discipline specific elective course of 5 modules.	3
55.	VIII	ICU monitoring and Management 21BPTDSE07	Not there	Introduced as discipline specific elective course of 5 modules.	3
56.	VIII	Manual Therapy Theory (Elective)	Choice based subject	Removed	-
57.	VIII	Manual Therapy Practical (Elective)	Choice based subject	Removed	-
58.	VIII	Research Project 21BPTDSE08	In internship	Introduced as per NEP in VIII semester.	4
59.	VIII	Medical coding 21BPTVOC04	Not there	New vocational course introduced as per NEP.	2
60.	VII	Clinical training-IV 21BPTSEC14	Clinical training-II	Title changed to clinical training-IV	4

3. To consider and approve the revised curriculum and syllabus for MPT 2021 batch.

- It was proposed by Dr. Rajasekar S and seconded by Dr. Thrishala Noronha that the curriculum and syllabus for MPT for the batch of 2021 be revised wherever necessary as per the latest trends in industry.

-Resolution: The members considered the curriculum and syllabus for BPT and discussed the necessary changes. Finally, it was approved and recommended to the Academic Council for further approval. It was also decided that the course can be introduced under College of Physiotherapy, Srinivas University from 2021 batch onwards. The structuring and changes made are as follows:

Sl. No	Semester	Course Name and Course Code	Present syllabus	Revised Syllabus	Credits
1.	I	Research Methodology and Biostatistics for Physiotherapists 21MPT101	In module 3, handling SPSS was not there. In module 5, writing	In module 3, handling SPSS added under processing and analysis of data. In module 5, writing references in	4

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			references in research was not there.	research added under format of scientific documents.	
2.	I	Evidence Based Practice in Physiotherapy 21MPT103	Evidence Based Practice in Physiotherapy and Ethics in Physiotherapy were combined courses. Previous credits combined was 4.	Now separated into 2 courses to increase the credit value. Revised as 4 credits.	4
3.	I	Ethics in Physiotherapy 21MPT104	Evidence Based Practice in Physiotherapy and Ethics in Physiotherapy were combined courses. Previous credits combined was 4.	Now separated into 2 courses to increase the credit value. Revised as 2 credits.	2
4.	I	Yoga 21MPT105	Not there	New course introduced for enhancing skills and application in physiotherapy.	2
5.	I	Clinical Training-I 21MPT107	Not there	Introduced as a skill enhancement course for giving more consideration and credits to skill based training.	6
6.	II	Electrophysiology and Functional Diagnosis (Theory) 21MPT202	In module 1, 'Neurobiology of pain and pain modulations'	Withdrawn.	4
7.	II	Pain Science and Management 21MPT206	Not there	New course added with 2 credits.	2
8.	II	Clinical Training-II 21MPT208	Not there	Added for skill based training.	5
9.	III	Physiotherapeutics-I (Theory) 21MPT3G1	Pain science and management in module Credits-2	Topic withdrawn. Credits revised from 2 to 4.	4
10.	III	Physiotherapeutics-I (Practical) 21MPT3G2	Pain science and management in module	Topic withdrawn.	1
11.	III	Advanced Assessment in Musculoskeletal and Sports Physiotherapy-I (Theory) 21MPT311	Module 1- History taking. Module 5 'Manual therapy concepts'	Content modified. Replaced with 'Clinimetric properties of functional outcome measures.'	4

SRINIVAS UNIVERSITY
G.H.S. ROAD
MANGALURU-575 001

			Module 6 not there.	New module 6 added.	
12.	III	Advanced Musculoskeletal and Sports Goal Planning and Rehabilitation-I (Theory) 21MPT312	Module 6-Physiotherapy management of locomotor disorders Module 6- common drugs used in musculoskeletal conditions and their effect on orthopaedic rehabilitation not there	Topic withdrawn. Added	4
13.	III	Musculoskeletal and Sports Physiotherapy Assessment and Management-I (Practical) 21MPT313	In module 1, clinical reasoning in clinical practice not there. Module 4- Manual therapy concepts	Added. Withdrawn.	2
14.	III	Entrepreneurship for Physiotherapists 21MPT3G3	Not there	New course added	2
15.	III	Clinical Training-III 21MPT315, 21MPT325, 21MPT335, 21MPT345, 21MPT355, 21MPT365	Not there	New SEC added for skill based training across all electives.	5
16.	IV	Physiotherapeutics-II (Theory) 21MPT4G1	Module 5-yogasanas and pranayama	Withdrawn.	2
17.	IV	Physiotherapeutics-II (Practical) 21MPT4G2	Module 5-yogasanas and pranayama	Withdrawn.	1
18.	IV	Advanced Assessment in Musculoskeletal and Sports Physiotherapy-II (Theory) 21MPT411	Module 1 manual therapy concepts Kinesiotaping and sports taping	Content modified. Content withdrawn.	4
19.	IV	Advanced Musculoskeletal and Sports Goal Planning and Rehabilitation-II (Theory) 21MPT412	Module 2- wrist, elbow, ankle not there. Module 3 Taping for acute and overuse injuries was not there.	Added. New topics added and outdated topics withdrawn. Topic added.	4
20.	IV	Musculoskeletal and Sports Physiotherapy Assessment and Management-II (Practical) 21MPT413	Module 1- manual therapy concepts modified. Module 2- Kinesiotaping and sports taping. Module 6- Head and neck: Headaches (Tension type,	Contents modified. Content withdrawn. Module 6 modified under	2

SRINIVAS UNIVERSITY G.H.S. ROAD MANGALURU-575 001

			cluster, swimmer's), cervical facet syndrome	headaches (cervicogenic, tension-type, cluster, migraine), cervicogenic dizziness, cervical IVDP.	
21.	IV	Kinetic control 21MPT416	Therapeutic taping choice based course	Replaced with kinetic control course as a choice based course.	2
22.	IV	Clinical Training-IV 21MPT419/428/438/448/458/468	Not there	New SEC added separately for skill based training across all electives.	5
23.	III	Paediatric Sciences &Rehabilitation Assessment-I (Theory) 21MPT351	Module 2, 3, 4	New content added and modules modified.	4
24.	III	Paediatric Sciences &Rehabilitation Goal Planning and Management-I (Theory) 21MPT352	Module 1 Module 2 Module 6- Indian Public health initiatives not there.	New content added Content modified Topic added.	4
25.	IV	Paediatric Sciences &Rehabilitation Assessment-II (Theory) 21MPT451	Module 1	New content added	4
26.	IV	Paediatric Sciences &Rehabilitation Goal Planning and Management-II (Theory) 21MPT452	Module 1- ICF model and SMART goals. Module 2 Module 5 and 6 not there	Topic withdrawn. Content modified Module 5 and 6 added.	4
27.	IV	Paediatric Rehabilitation Assessment & Management-II (Practical) 21MPT453	Module 5 and 6 not there	Module 5 and 6 added.	2
28.	III	Obstetrics and Gynaecology Physiotherapy Assessment I (Theory) 21MPT361	Module 1 and 5 Module 6- not there.	Content modified. Added.	4
29.	III	Obstetrics and Gynaecology Physiotherapy Goal Planning and Management-I (Theory) 21MPT362	Module 5 and 6 not there.	Added.	4

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30.	III	Obstetrics and Gynaecology Physiotherapy Assessment and Management-I (Practical) 21MPT363	Module 5 Module 6 not there.	Content modified. Added.	2
31.	IV	Obstetrics and Gynaecology Physiotherapy Assessment II (Theory) 21MPT461	Module 5- newborn examination topic not there.	Content added.	4
32.	IV	Obstetrics and Gynaecology Physiotherapy Goal Planning and Management-II (Theory) 21MPT462	Module 5 and 6 not there.	Added module 5- Gynaecological and breast cancer rehabilitation Module 6- Lymphedema and physiotherapy management.	4
33.	IV	Obstetrics and Gynaecology Physiotherapy Assessment and Management-II (Practical) 21MPT463	Module 6- Fitness assessment and obesity exercise prescription.	Content modified- Fitness assessment and obesity exercise prescription; Yoga for Women's health	2

4. Planning the academic calendar for BPT and MPT for the academic year 2021-22.

-Chairperson, Dr. S. Rajasekar requested that the academic calendar for the odd semesters of BPT and MPT be planned for the year 2021-22 (November 2021- April 2022).

-Resolution: The members discussed and structured the academic calendar for the academic year 2021-22 of odd semesters of BPT and MPT, and recommended to the Academic Council for further approval.

The meeting started at 09.30 am and ended at 01.00 pm with Thanks to the Chair.

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Dr. Rajasekar S
CHAIRPERSON (BOS)
COLLEGE OF PHYSIOTHERAPY

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PROCEEDINGS OF THE MEETING OF BOARD OF STUDIES HELD ON 24th FEBRUARY 2021 AT 2.00 P.M.

Members present:

Dr. Jayashree.K	Dean
Dr. Vijayalakshmi Naik	Chairman
Dr. Joshna Rao	External member
Mrs. Reshma M.Y	Member

The BOS discussed the following agenda:

- Amendment in the syllabus of two year B.Ed. Programme of Srinivas University for the fresh admission in March 2021
- 30% revision has been carried out in the syllabus during the academic year, 30% percentage of content replaced. Increasing the units of the subjects from 4 to 5 units in 100 marks paper.
- Calendar of Events drafted for the fresh batch of March 2021.
- Decision regarding the commencement of M.A. in Education.

Agenda No.1

With respect to the notification from the Registrar SU/REG/AFF/2020-21 dated 19-09-2020 that the admission of fresh batch B.Ed programme under Srinivas University will commence from March 2021. Further progress of events we are unable to follow the syllabus of 2020 framed for the last batch, as in the second semester the students have to go to schools for practice teaching.

Hence it unanimously proposed in the meeting that the syllabus of second and third semester has to be interchanged for the batch of March 2021 and it was passed on to get approval from the Registrar (Academics).

Agenda No.2

As per the SU norms it was suggested to have 5 units in each 100 marks subject & 3 units in the 50 marks subject of theory papers. Increasing the units of the subjects from 4 to 5 units in 100 marks paper. **Hence, 30% percentage of content replaced the necessary changes in the B.Ed. syllabus was discussed and proposed in the meeting and it was passed to get the approval from the Registrar (Academics).**

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Agenda No.3

The calendar of events for the new batch of B.Ed. March 2021 was proposed & passed in the meeting by all the members to get the approval from the Registrar (Academics).

Agenda No.4

It was unanimously accepted by all members of the BOS that since there was no sufficient number of aspirants for M.A. in Education, the commencement of the course has to be postponed to the next academic session.

Dr. Vijayalakshmi Naik
Member

Dr. Joshna Rao
External member

Mrs. Reshma M.Y
Member

Dr. Jayashree.K
Dean/ Chairman

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PROCEEDINGS OF THE MEETING OF BOARD OF STUDIES HELD ON 5th JANUARY 2022 AT 2.00 P.M.

Members present:

Dr. Jayashree.K	Dean
Dr. Vijayalakshmi Naik	Chairman
Dr. Joshna Rao	External member
Dr. Padmanabha C.H	Member
Mrs. Reshma M.Y	Member
Mrs. Seema P.V	Member
Mrs. Shakeela K	Member

The BOS discussed the following agenda:

- Amendment in the syllabus of two year B.Ed. Programme of Srinivas University for the fresh admission of 2022-2023
- 25% revision has been carried out in the syllabus during the academic year, 25% percentage of content replaced.
- Calendar of Events drafted for the fresh batch of 2022-2023
- New BOE members formulated with two external members

Agenda No.1

With respect to the notification from the Registrar SU/REG/AFF/2021-22 dated 08-07-2021 that the admission of fresh batch B.Ed programme under Srinivas University will commence from January 2022.

As per the protocol, the vision & mission of the institution was drafted along with Programme specific objectives were to be included in the syllabus.

It has been unanimously proposed that the syllabus of B.Ed. 2022 with 25% changes with updated information was passed on by all the members in the meeting to get approval from the Registrar (Academics).

Agenda No.3

The calendar of events for the new batch of B.Ed. January 2022 was proposed & passed in the meeting by all the members to get the approval from the Registrar (Academics).

Agenda No.4

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It was unanimously accepted by all members to nominate Mrs. Shakeela K as BOE – Chairman with two external members as follows.

1. Mrs. Shakeela K - Chairman
2. Mr. Padmanabha C.H - Member
3. Mrs. Reshma. M.Y - Member
4. Mrs. Vidyashree. P. - External Member Faculty, S.D.M. College of Education Ujire.
5. Mrs. Mallika - External Member
Faculty, Gokarnatheshwara College of Education,
Kudroli, Mangalore.

Dr. Vijayalakshmi Naik
Chairman

Dr. Joshna Rao
External member

Mrs. Reshma M.Y
Member

Dr. Padmanabha C.H
Member

Mrs. Shakeela. K
Member

Mrs. Seema. P.V
Member

Dr. Jayashree.K
Dean/ Chairman

****

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HELD ON 10/04/2021 AT 2PM IN THE CONFERENCE ROOM CITY CAMPUS -SU

The meeting of the ***Board of Studies (BOS) for UG & PG Courses of the College of Computer Science & Information Science*** was held on **10/04/2021 at 2 PM** in SU City Campus - Conference Room, which was presided over by Prof. Subrahmanaya Bhat – Dean of the College.

Sitting Members: -

(1) Prof. Subrahmanya Bhat	-	Chairman
(2) Prof. P. Sridhara Acharya	-	Member
(3) Prof. Vaikunth Pai	-	Member
(4) Prof. Panchajanyeshwari Achar	-	Member
(5) Prof.Krishnaprasad K	-	Member
(6) Prof. Mangesh Nayak	-	Member
(7) Mr. Shylesh S, SCDCC Bank, Mangaluru	-	External Member
(8) Mr. Srinivas Rao, Software Administrator, Diya Systems, Mangalore	-	External Member

Agenda

- **UG Courses and Syllabus**
- **PG Courses and Syllabus**
- **BOE for UG**
- **BOE for PG**
- **Any Other Matter**

The Gist of the meeting proceedings are as follows: -

Prof. Subrahmanya Bhat convened the meeting, welcomed all the sitting members, and addressed a few factors on action plans for the academic year 2021-22.

Resolution – 1:

Starting of new Credit based – Three-year (6 semesters) **BCA** program for the academic year 2021-22. Specialized subjects like Artificial Intelligence and Virtual Reality and Cloud Computing, Ethical Hacking, and Cyber Security and Data Science and Mobile Application related subjects were identified for each of the programs every semester and its detailed syllabus has been finalized after a thorough discussion with all the sitting members of BOS.

The existing BCA course syllabus also has been revised by considering the requirements of IT industries. Two courses each of 1 credit have been included in order to improve the employability skills among the students. The finalized syllabus has been sent to the registrar for final approval.

The new BCA course from the academic year 2021-22 has been updated according to NEP Syllabus in the following aspects compared to its previous year.

- 100 percent modification in the syllabus according to NEP Syllabus.
- The entire course syllabus is modified according to the credit-based system.
- According to NEP each semester contains 3 subject-oriented core subjects and 3 skill-enhanced subjects and 2 language subjects.

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The NEP based syllabus for BCA 2021-22

Sl. No	Subject Code	Subject Name	Modification
1.	21CAC-1	Problem-solving using c	The focus is given to problem-solving methodology.
2	21CAC-2	Foundation of information technology	Unit III is modified modifying the concept of based programming language
3	21CAC-3	Basics of internet and web design	New subject.
4	21CAC-1P	LAB on Problem Solving using C	All programs changed.
5	21CAC-2P	Lab on the foundation of information systems	All exercises are modified.
6	21CAE-1	Information systems	The Unit IV having Advanced Written Communication is modified Research topics Journal writing Introduced
7	21CAC-4	Object-oriented programming	Only OOP Concepts are retained.
8	21CAC-5	Database management and MySQL	Relational data model is introduced

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9	21CAC-6	Computer organization	Computer registers and counters
10	21CAC-4P	ab on object-oriented programming using c++	Quick sort is modified.
11	21CAC-5P	lab database management and MySQL	All programs changed.
12	21CAE-2	Introduction to electronic commerce	The basics of SDLC is introduced.
13	21CAC-7/SD	Programming in Core Java	The web interface for Servletsis modified.
14	21CAC-8/SD	HTML, VB Script and Java Script	Introduction to different types of Servers.
15	21CAC-9	Operating Systems	Kernel Architecture is modified
16	21CAC-7P	Lab on Programming in Core Java	All programs changed.
17	21CAC-8P	Lab on HTML, VB Script and Java Script	All programs changed.
18	21CAE-3	Open Elective-3	New subject introduced
19	21CAL1-3	English	New subject introduced
20	21CAL2/L3-3	Kannada/Hindi/French/ Malayalam	New subject Introduced
21	21CAC10/	Advanced Java Programming	Web interface for Servlets is introduced.
22	1CAC11/SD	Web Technology	Importance of C# in programming
23	21CAC12/SD	E-Commerce	Introduction to Firewall is withdrawn. Different types of E payment
24	1CAC10P/SD	Lab on Advanced Java Programming	All programs changed.
25	21CAC11P/SD	Lab on Web Technology	Web interface for Servlets is modified.
26	21CAE-4	Open Elective-4	New subject introduced
27	21CAL1-4	English	New subject introduced
28	21CAL2/L3-4	Kannada/Hindi/French/Malayalam	New subject introduced
29	1CAC13/SD	Linux Environment	Monitor and Audit log is modified in cloud security
30	1CAC14/SD	Distributed Computing	SDLC need of SDLC, components, structure are introduced.
31	1CAC15/SD	Principles of TCP/IP	Comparison between IPv4 and IPv6
32	1CAC13P/SD	Lab on Linux Environment	All programs modified
33	21CAC14P/SD	Lab on Distributed Computing	All programs modified

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34	21CAE-5	CA Elective-1	New subject introduced
35	21CAV-3	Vocational - 1	New subject introduced
36	1CAC 16/S D	LAMPTechnology	Apache Web Server Web based PHP database is introduced
37	21CAC 17/ SD	Application Programming in R	Software Configuration Management is introduced.
38	21CAC 18/ SD	Data Mining	Monitor and Audit log is modified in cloud security
39	16	Lab on LAMPTechnology	All programs modified
40	21CAC 17P/SD	Lab on Application Programming in R	All programs modified
41	21CAE-6	CA Elective-2	New subject introduced
42	21CAV-5	Vocational - 2	New subject introduced

Total Number of Papers in BCA 42

Total modifications are done **All subjects are modified according to NEP Syllabus.**
Percentage of Modifications **100%**

Resolution – 2:
Based on the feedback from various stakeholders of the institution, the existing MCA course syllabus has been revised for the academic year 2021-22, by considering the requirements of IT industries. Specialized courses were identified for these programs every semester and its detailed syllabus has been finalized after a thorough discussion with all the sitting members of BOS. It has been decided tocall industry experts in order to deliver some identified courses of MCA. Two courses each of 1 credit have been included in order to improve the employability skills among the students. The finalized syllabus has been sent to the registrar for final approval.

The new MCA course from the academic year 2021-22 has been updated in the following aspects compare to its previous year.

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MCA 2021-22

Sl. No	Subject Code	Subject Name	Modification
1.	21MCA13	Web Frameworks	Angular and node JS included in III and IV unit
2.	21MCA151	Statistics for Data Science	The application part of statistics is introduced in the V unit
4.	21MCA142	Introduction to Cyber Security and Cyber Law	Disaster Recovery, Personnel Security topics are included in the IVunit
5.	21MCA153	Ethical Hacking	Hacking Mobile Platforms, Android Hacking, and Mobile Device Management topics are included in the V unit
6.	21MCA242	Network and Web Application Security	The DevOps Approach topic isincluded in V unit
7.	21MCA252	Cryptography Blockchain technology	Blockchain technology topics are included in IV and V unit
8.	21MCA383	Cyber Forensics	Case studies are updated in IV unit
9.	21MCA353	Security Incident and Compliance Management	Vendor Risk Management, Reporting topics are included in V unit

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15

Total Number of Papers in MCA: 32
Total modifications are done in terms of paper 28%
Approximate Percentage of Modifications:

Resolution – 4:

Nomination to Member for BOE-UG

The following members have been nominated as members of BOE in UG, for the academic year 2021-2022.

(1) Prof. Netravathi P S
(2) Ms. Anusha Rai

Members of BOE - UG

Academic (internal):

(1)	Mr. Mangesh Nayak	- Chairman
(2)	Prof. Subrahmanya Bhat	- Member
(3)	Prof. Vaikunta Pai	- Member
(4)	Prof. Sridhara Acharya	- Member
(5)	Panchajanyeshwari Achar	- Member
(6)	Prof. Krishnaprasad K	- Member
(7)	Mr. Shylesh S	- Member
(8)	Mrs. Chaitra B S	- Member
(9)	Mr. Pradeep M D	- Member
(10)	Mr. Varun Shenoy	- Member
(11)	Mrs. Pavitra Kumari	- Member
(12)	Prof. Netravathi P S	- Member
(13)	Ms. Anusha Rai	- Member

Resolution – 5:

Nomination to Members for BOE-PG

Following member have been nominated as members of BOE in PG, for the academic year 2021-2022.

(1) Prof. Netravathi P S

Members of BOE - PG

Academic (internal):

(1)	Prof. Vaikunta Pai	- Chairman
(2)	Prof. Subrahmanya Bhat	- Member
(3)	Prof. Panchajanyeshwari Achar	- Member
(4)	Prof. Sridhara Acharya	- Member
(5)	Dr. Krishnaprasad K	- Member
(6)	Mr. Shylesh	- Member
(8)	Mr. Pradeep M D	- Member
(9)	Mr. Varun Shenoy	- Member
(10)	Prof. Netravathi P S	- Member

In addition, it has been decided to call identified industry experts also as examiners for some courses in **MCA & BCA**

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Resolution – 6:

Non-credit certificate courses for BCA and MCA programs: Based on request and demand from the student side department is decided to start a certification program for BCA and MCA programs. For BCA we plan to start a certification program entitled Hardware and Networking and for MCA we plan to start a certification program entitled Data Science Using Python.

Resolution – 7:

Other Related Matters

The members also discussed various other related matters about the forthcoming Academic Examinations, the Scheme of Valuation and Question Bank, and starting non-credit certification programs for BCA and MCA, etc. The meeting ended after a detaileddiscussion, questions & answers including certain clarifications on the above points and finally, a vote ofthanks to all present was extended by Prof. PSA.

cc: Vice Chancellor, Srinivas University
Registrar, Srinivas University
Registrar (Evaluation), Srinivas University

Prof.Subrahmanya Bhat

Prof. Sridhara Acharya

Prof.Vaikunth Pai

Prof. Panchajanyeshwari Achar

Prof. Krishnaprasad K

Mr. Shylesh

Mr. Srinivas Rao

Mr. G.K Bhat

Mr. Mangesh Nayak

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COLLEGE OF COMPUTER SCIENCE & INFORMATION SCIENCE
MINUTES OF THE BOARD OF STUDIES (BOS) MEETINGS
UG & PG COURSES

HELD ON 15/10/2021 AT 2PM IN THE CONFERENCE ROOM
CITY CAMPUS -SU

The meeting of the ***Board of Studies (BOS) for UG & PG Courses of the College of Computer Science & Information Science*** was held on **15/11/2021 at 2 PM** in SU City Campus - Conference Room, which was presided over by Prof. Subrahmanay Bhat – Dean of the College.

Sitting Members: -

(1) Prof. Subrahmanya Bhat	-	Chairman
(2) Prof. P. Sridhara Acharya	-	Member
(3) Prof. Vaikunth Pai	-	Member
(4) Prof. Panchajanyeshwari Achar	-	Member
(5) Prof.Krishnaprasad K	-	Member
(6) Dr. Netravathi P S	-	Member
(7) Prof. Mangesh Nayak	-	Member
(7) Mr. Shylesh S, SCDCC Bank, Mangaluru	-	External Member
(8) Mr. Srinivas Rao, Software Administrator, Diya Systems, Mangalore	-	External Member
(9) Mr. Praveen Kalbavi – CEO, Novigo Solutions Mangaluru	-	External Member
(10) Mr. Krishnaraja – CEO, Vidita Solutions Mangaluru	-	External Member

Agenda

- **BOE for UG**
- **Any Other Matter**

The Gist of the meeting proceedings are as follows: -

Prof. Subrahmanya Bhat convened the meeting, welcomed all the sitting members, and addressed a fewfactors on action plans for the academic year 2021-22.

Resolution – 7:

Amendment for BOE - UG

With regard to the nomination for the new Chairman & Members of the **BOE–UG,** the members nominated the following member with roles specified below.

Academic:

(1)	Prof. Sridhara Acharya	- Chairman
(2)	Prof. Subrahmanya Bhat	- Member
(3)	Prof. Vaikunta Pai	- Member
(4)	Dr. Krishnaprasad	- Member
(5)	Panchajanyeshwari Achar	- Member
(6)	Prof. Vikranth K	- Member
(7)	Mrs. Harshitha	- Member

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(8)	Mrs. Priyadarshini	- Member
(9)	Mr. Pradeep M D	- Member
(10)	Mr. Varun Shenoy	- Member
(11)	Mrs. Pavitra Kumari	- Member
(12)	Prof. Netravathi P S	- Member
(13)	Ms. Anusha Rai	- Member
(14)	Mr. Vittal Shenoy	- Member
(15)	Mrs. Jitha	- Member

In addition, it has been decided to call identified industry experts also as examiners for some courses in **BCA**, MCA

Resolution – 8: Amendment for BOE - PG

The following member has been nominated as members of BOE in PG, for the academic year 2021-2022.

Academic

(1)	Prof. Vaikunta Pai	- Chairman
(2)	Prof. Subrahmanya Bhat	- Member
(3)	Prof. Panchajanyeshwari Achar	- Member
(4)	Prof. Sridhara Acharya	- Member
(5)	Dr. Krishnaprasad K	- Member
(6)	Dr. Netravathi P S	- Member
(8)	Mr. Pradeep M D	- Member
(9)	Mr. Varun Shenoy	- Member

In addition, it has been decided to call identified industry experts also as examiners for the **MCA course**.

Resolution – 9: Other Related Matters

The members also discussed various other related matters about the forthcoming Academic Examinations, the Scheme of the Valuation Question Bank, etc. The meeting ended after a detailed discussion, questions & answers including certain clarifications on the above points and finally, a vote of thanks to all present was extended by Prof. Vaikunth Pai.

cc: Vice Chancellor, Srinivas University
Registrar, Srinivas University
Registrar (Evaluation), Srinivas University

Prof.Subrahmanya Bhat | **Prof. Sridhara Acharya** | **Prof.Vaikunth Pai**

Prof. Netravathi PS | **Prof. Krishnaprasad K** | **Mr. Shylesh**

Mr. Srinivas Rao | **Mr. Praveen Kalbavi** | **Mr. Krishnaraja**

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COLLEGE OF COMPUTER SCIENCE & INFORMATION SCIENCE
MINUTES OF THE BOARD OF STUDIES (BOS) MEETINGS
UG & PG COURSES

HELD ON 20/11/2021 AT 2PM IN THE CONFERENCE ROOM
CITY CAMPUS -SU

The meeting of the ***Board of Studies (BOS) for UG & PG Courses of the College of Computer Science & Information Science*** was held on **20/10/2021 at 2PM** in SU City Campus - Conference Room, which was presided over by Prof. Subrahmanaya Bhat – Dean of the College.

Sitting Members: -

(1) Prof. Subrahmanya Bhat	-	Chairman
(2) Prof. P. Sridhara Acharya	-	Member
(3) Prof. Vaikunth Pai	-	Member
(4) Prof. Panchajanyeshwari Achar	-	Member
(5) Prof.Krishnaprasad K	-	Member
(6) Dr. Netravathi P S	-	Member
(7) Prof. Mangesh Nayak	-	Member
(7) Mr. Shylesh S, SCDCC Bank, Mangaluru	-	External Member
(8) Mr. Srinivas Rao, Software Administrator, Diya Systems, Mangalore	-	External Member
(9) Mr. Praveen Kalbavi – CEO, Novigo Solutions Mangaluru	-	External Member
(10) Mr. Krishnaraja – CEO, Vidita Solutions Mangaluru	-	External Member

Agenda

- **Restructuring the UG programs for the academic year 2021-22 as per NEP 2020 policy.**
- **Any Other Matter**

The Gist of the meeting proceedings are as follows: -

Prof. Subrahmanya Bhat convened the meeting, welcomed all the sitting member,s and addressed fewfactors on restructuring UG programs for the academic year 2021-22 under NEP 2020 policy.

Resolution – 10:

The UG program BCA was restructured according to the new education policy NEP 2020. Henceforth, the university will be offering BCA honours degrees including of total **208** credits. The first year of UG programs has been designed with a total of **56 credits**, where Students are given the exit option with a **Certificate program** on **Computer Application/Science**.

The second year of UG programs has been designed with a total of **56 credits**, where Students are given the exit option after completing two years of UG programs with a **Diploma Certificate** on **Computer Application/Science** having total **112 credits.**

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The Third year of UG programs has been designed with a total **50 credits**, where in Students are given the exit option after completing three years of UG programs with a Degree **Bachelor of Computer Application/Science** having total **162 credits**.

The Fourth year of UG programs has been designed with a total **46 credits**, where in Students after completing Four years of UG programs will be awarded a Honer's Degree in **Bachelor of Computer Application/Science** having total **208 credits**.

Various committees were formed to finalize Core courses, Open Electives, and Computer Application Electives ALONG WITH Base courses as per NEP policy, and its syllabus contents were finalized to submit to the Registrar's office for approval.

Resolution – 11:
Other Related Matters

The members discussed Language courses to be considered in different semesters of UG programs as per NEP 2020 and finalized. The detailed syllabus of UG courses was finalized after mutual discussions. The finalized course structure and syllabus have been sent in a separate document for the Registrar's office to get approval. Also discussed other related matters about the forthcoming Academic Examinations, Scheme of Valuation Question Bank, etc.

The meeting ended after a detailed discussion, questions & answers including certain clarifications on the above points and finally a vote of thanks to all present was extended by Dr. Netravathi PS.

cc: Vice Chancellor, Srinivas University
Registrar, Srinivas University
Registrar (Evaluation), Srinivas University

Prof.Subrahmanya Bhat	**Prof. Sridhara Acharya**	**Prof.Vaikunth Pai**
Prof. Netravathi PS	**Prof. Krishnaprasad K**	**Mr. Shylesh**
Mr. Srinivas Rao	**Mr. Praveen Kalbavi**	**Mr. Krishnaraja**

Referred will be put up in the next Academic council

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Subject wise Modification Table:

Sl. No	Subject Code	Subject Name	Modification
1.	18BCASD14	Basic Programming Language using C++	Completely modified and importance is given only to basic programming than object orientation-All 5 Units
2.	18BCASD24	Object Oriented Programming Language using C++	Only Object, Class, inheritance, overloading and OOP concepts are considered.-All 5 Units
3.	18BCASD27	Lab on OOPs	Practical on OOPs are considered
4.	18BCASD31	Data Structure	Data Structure using C++ is introduced. .-All 5 Units
5.	18BCASD36	Lab on DS	Practicals on DS is considered instead of JAVA Lab.-All 5 Units
6.	18BCASD41	Programming on Core JAVA	Basics of JAVA is considered in detail-All 5 Units
7.	18BCASD52	Programming in Advance JAVA	Topics on Advanced JAVA are introduced in details-All 5 Units

Total Number of Papers in BCA 25

Total modifications done 35

Percentage of Modifications 28%

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Department: Institute of Engineering and Technology

Proceedings of the Meeting of the Board of Studies in Artificial Intelligence and Machine Learning Engineering held on 22nd April, 2019, 2.00 PM at Seminar Hall, Main Building, Srinivas University, Mangalore

Members Present:

1. Dr. Kishore Baglodi
2. Mr. Krishnaraj Rao
3. Mr. Santhosh S.
4. Mr. Sudesh Rao
5. Ms. Preethi Salian
6. Ms. Vidya Kamath

At the outset, Dr. Kishore Baglodi, Chairperson of the BOS in Artificial Intelligence and Machine Learning Engineering applauded all the members present, explained the purpose of the meeting and the agenda in brief. Then the agenda was taken up for discussion.

Agenda-1: Introduction of Graduate program in Artificial Intelligence and Machine Learning Engineering and preparation of scheme of instruction, scheme of examination and detailed Curriculum.

The Chairperson explained briefly about the establishment of SRINIVAS University and the programs being introduced under SRINIVAS University. He said that the university is intending to start other B Tech program in various branches of engineering. He also explained the features of CBCS/CAGP education in the University which has been committed to follow since its inception itself.

Herewith, He provided the draft syllabus of the said programs prepared by the Faculty of SRINIVAS UNIVERSITY and also explained the commitment of the University in adopting CBCS-CAGP pattern of education and gave an overview of SRINIVAS University Regulations for CBCS-CAGP and requested the Board to discuss on the issue and take appropriate decision and help the university to start the said programs from the academic year2019-20.

The BOS members discussed the agenda in detail and drafted the course curriculum including the scheme of instruction, eligibility criteria, etc. for B Tech in Artificial Intelligence and Machine Learning Engineering and resolved as under.

Resolution:

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The Board unanimously resolved to recommend to the University to introduce B Tech in Artificial Intelligence and Machine Learning Engineering program in Srinivas University from the Academic Year 2019-20 and also recommended to adopt the Scheme of Instruction, scheme of examination and detailed Curriculum for B Tech in Artificial Intelligence and Machine Learning Engineering drafted as per CBCS and CAGP regulations (Annexure-I, IIand III).

Agenda 2: Preparation of Scheme of Examination and Pattern of Question Papers

The Chairperson explained the guidelines relating to scheme of examination land pattern of question papers and requested the Board to work out the Scheme of Examination and decide about the pattern of question papers to be adopted for the said programs. Accordingly the - Board went through the guidelines of the Scheme of Examination provided to the board and prepared, the detailed scheme of examination and pattern of question papers for B Tech in Artificial Intelligence and Machine Learning Engineering and resolved as under.

Resolution: The Board resolved to recommend to the University to accept the pattern of question papers prepared by this BOS for B Tech in Artificial Intelligence and Machine Learning Engineering and to adopt the same in Srinivas University from the academic year 2019-20.

Agenda-3: Preparation of Panel of Examiners

The Chairperson requested the Board Members to prepare the Panel of Examiners for the 1st and 2nd Semester Examination for the B Tech in Artificial Intelligence and Machine Learning Engineering.

Resolution: The Board prepared the Panel of Examiners (internal and external) for the 1st and 2nd Semester end Examination for the B Tech in Artificial Intelligence and Machine Learning Engineering and resolved to recommend the same to the University.

Agenda -4: Other topics discussed with the permission of the chair.

- BOS Members recommended introducing Seminar in all Semesters
- BOS Members recommended introducing industrial training (internship) in 4th Semester
- BOS members recommended giving flexibility to select soft core subjects and also give scope for fast learners.
- BOS members recommended reducing class room teaching and increasing laboratory component in curriculum.

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At the end, the Chairperson thanked all the members for having spared their valuable time and extended their cooperation.

Dr. Kishore Baglodi.

Chairperson

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Department: Institute of Engineering and Technology

Computer Science and Engineering

PROCEEDINGS OF THE MEETING OF BOARD OF STUDIES HELD ON 21st APRIL 2021 @ 1.00 PM.

Members present:

1. Prof. Sarojini Y : Chairperson
2. Prof. Shifana Begum : Member
3. Prof. Swarna H.R : Member
4. Prof. Santhosh : Member

The BoS discussed the following agenda:

- Amendment of changes in the syllabus for 2021 Scheme
- Preparation of Board of Examiners list
- Any other specific matter related to the Department activities

Agenda No.1
Amendment of changes in the syllabus for 2021 Scheme

Resolution
Resolved with following discussions

The Chairman of BoS proposed that in order to enrich the Knowledge and Skills of the students and to implement the NEP 2020 for the 2021 Batch and set the syllabus accordingly as per the latest industry requirements and orientation towards the skill and employability. It is decided to consider the stakeholders feedback during setting of syllabus. It is also discussed and decided to incorporate the Value-Added Subjects (Employability Skill Enhancement Programmes-ESEP and Social Internship) like Soft Skill Training to enhance the level of Knowledge & Skills of B. Tech and M. Tech in Computer Science and Engineering.The Chairman and the members of BoS emphasized the need for the preparation of the Scheme and syllabus for the first year and also the remaining years as per the NEP 2020 requirements and specifications of AICTE and UGC in accordance to fulfill the graduates' attributes required for the B. Tech and M. Tech in Computer and Engineering Aspirants. The members of the BoS agreed propose to introduce Global Certificate for all the students and project/mini project for all the courses.

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Agenda No.2

Preparation of Board of Examiners list
Resolution
Resolved with following discussions

The Chairman of BoS resolved to approve the Members of BoE and Panel of Examiners for the B. Tech and M. Tech in Computer and Engineering Examination for approval from the Registrar (Evaluation).

As there was no other matter to be discussed, the meeting was concluded at 2.15 pm.

New Courses lists are attached in Annexure

Pro. Sarojini Y
Chairperson, BoS

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Proceedings of the Meeting of the Board of Studies (BOS) in Civil Engineering held on 4th October, 2021 at 11.00 am at the Office of Civil Engg HoD, Srinivas University, Mukka, Mangaluru.

Members Present:

- Dr. Ramakrishna Hegde (HOD and Chairman BOS)
- Mr. Shrinath Rao K. (Member)
- Mrs. Shilpa S.
- Mr. Prasanna P. Rao
- Mr. Deekshith K.

Members Absent:

- Dr. K S Babunarayan
- Mr. Shyam Bhat M

Agenda: Modification in the syllabus of B.Tech programme as per NEP 2020 and Review of Scheme for B.Tech Civil Engineering.

1. Discussed about the possibilities of modifying the contents of Scheme and Syllabus for B.Tech Civil Engineering programme as per the requirements of NEP 2020 and also to cater the needs of the industry. It was decided to further communicate with industrial experts regarding the same.
2. The Scheme and Syllabus of B.Tech Civil Engineering programme was discussed and few changes were suggested by the Chairperson of BOS to improve the quality of the proposed programme in line with the guidelines of NEP 2020.
3. It was also suggested to incorporate hand-on based Certification Courses, Swayam etc for the 3rd and 4th year students.

As there were no other points to be discussed, the meeting was concluded at 12.15 pm.

Dr. Ramakrishna Hegde,
Chairperson

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Department: Institute of Engineering and Technology

Electronics and Communications

PROCEEDINGS OF THE MEETING OF BOARD OF STUDIES HELD ON 21st APRIL 2021 @ 1.00 PM.

Members present:

Prof. Vijayalatha	:	Chairperson
Prof. Omprakash P Bhat	:	Member
Prof. Krishna Kaushik	:	Member
Prof. Ananthram H	:	Member

The BoS discussed the following agenda:

Amendment of changes in the syllabus for 2021 Scheme

- Preparation of Board of Examiners list
- Any other specific matter related to the Department activities

Agenda No.1

The Chairman of BoS proposed that in order to enrich the Knowledge and Skills of the students and to implement the NEP 2020 for the 2021 Batch and set the syllabus accordingly as per the latest industry requirements and orientation towards the skill and employability. It is decided to consider the stakeholders feedback during setting of syllabus. It is also discussed and decided to incorporate the Value-Added Subjects (Employability Skill Enhancement Programmes-ESEP and Social Internship) like Soft Skill Training to enhance the level of Knowledge & Skills of B. Tech Electronics and Communication Engineering students. The Chairman and the members of BoS emphasized the need for the preparation of the Scheme and syllabus for the first year and also the remaining years as per the NEP 2020 requirements and specifications of AICTE and UGC in accordance to fulfil the graduates' attributes required for the B. Tech Electronics and Communication Engineering Aspirants. The members of the BoS agreed the proposal.

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Agenda No.2

The Chairman of BoS resolved to approve the Members of BoE and Panel of Examiners for the B. Tech Electronics and Communication Engineering Examination for approval from the Registrar (Evaluation).

As there was no other matter to be discussed, the meeting was concluded at 2.15 pm.

New Courses lists are given in Annexure

Prof. Vijayalatha Devadiga
Chairperson, BoS

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Department: Institute of Engineering and Technology

Mechanical Engineering

PROCEEDINGS OF THE MEETING OF BOARD OF STUDIES HELD ON 21st APRIL 2021 @ 1.00 PM.

Members present:

Dr. Shreeprakash B	:	Chairperson
Dr. Thomas Pinto	:	Member
Mr. Raghavendra E H	:	Member
Mr. Amruth C H	:	Member
Mr. Vishwas C Shetty	:	Member

The BoS discussed the following agenda:

- Amendment of changes in the syllabus for 2021 Scheme
- Preparation of Board of Examiners list
- Any other specific matter related to the Department activities

Agenda No.1

The Chairman of BoS proposed that in order to enrich the Knowledge and Skills of the students and to implement the NEP 2020 for the 2021 Batch and set the syllabus accordingly as per the latest industry requirements and orientation towards the skill and employability. It is decided to consider the stakeholders feedback during setting of syllabus. It is also discussed and decided to incorporate the Value Added Subjects (Employability Skill Enhancement Programmes-ESEP and Social Internship) like Soft Skill Training to enhance the level of Knowledge & Skills of B.Tech Mechanical Engineering students. The Chairman and the members of BoS emphasised the need for the preparation of the Scheme and syllabus for the first year and also the remaining years as per the NEP 2020 requirements and specifications of AICTE and UGC in accordance to fulfil the graduates attributes required for the B.Tech Mechanical Engineering Aspirants. The members of the BoS agreed the proposal.

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Agenda No.2

The Chairman of BoS resolved to approve the Members of BoE and Panel of Examiners for the B.Tech Mechanical Engineering Examination for approval from the Registrar (Evaluation).

As there was no other matter to be discussed, the meeting was concluded at 2.15 pm.

Dr. Shreeprakash B
Chairperson, BoS

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Annexure

New Courses Added during 2021-22 in Engineering Curriculum

Si No	Programme Name	Name of the New Course	Course Code
	Bachelor of Technology - Civil Engineering	Activity on Social Responsibility	21SAS19/29
	Bachelor of Technology - Civil Engineering	ADDITIONAL MATHEMATICS - I	21SMADIP301
	Bachelor of Technology - Civil Engineering	ADDITIONAL MATHEMATICS - II	21SMADIP401
	Bachelor of Technology - Mechanical Engineering	ADVANCED GEOTECHNICAL ENGINEERING	21SCV62
	Bachelor of Technology - Mechanical Engineering	Advanced Manufacturing Process	19SME44
	Bachelor of Technology - Civil Engineering	ADVANCED SURVEYING AND ARIAL PHOTOGRAMMETRY	21SCV44
	Bachelor of Technology - Civil Engineering	ADVANCED SURVEYING LAB	21SCVL49
	Bachelor of Technology - Electronics and communication	Analog Electronics Circuit	17SEC32
	Bachelor of Technology - Electronics and communication	Analog Electronics Lab	17SECL37
	Bachelor of Technology - Civil Engineering	Applied Quantitative Techniques–I/ II	21SMA 14/24
	Bachelor of Technology - Electronics and communication	Basics of Electrical Engineering	17SEL13/23
	Bachelor of Technology - Civil Engineering	BUILDING MATERIALS AND SMART MATERIALS	21SCV35
	Bachelor of Technology - Civil Engineering	C Programming Laboratory/ Python Programming Laboratory	21SCSL12/
	Bachelor of Technology - Civil Engineering	C Programming/ Python Programming	21SCS12/
	Bachelor of Technology - Civil Engineering	Certification Course	21SCP27
	Bachelor of Technology - Civil Engineering	CIVIL ENGINEERING SURVEYING LABORATORY	21SCVL39

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	Bachelor of Technology - Civil Engineering	COMPUTER AIDED DESIGN LAB	21SCVL36
	Bachelor of Technology - Civil Engineering	COMPUTER AIDED DESIGN OF STRUCTURES LAB	21SCVL56
	Bachelor of Technology - Civil Engineering	Computer Aided Engineering Drawing	21SME16/26
	Bachelor of Technology - Computer Science and Engineering	Computer Aided Engineering Drawing Lab	19SMEL16/26
	Bachelor of Technology - Mechanical Engineering	Computer Aided Machine Drawing	19SME37
	Bachelor of Technology - Electronics and communication	Computer Concepts and C Programming	17SCP15/25
	Bachelor of Technology - Electronics and communication	Computer Concepts and C Programming Laboratory	17SCL17/27
	Bachelor of Technology - Computer Science and Engineering	Computer Graphics and Visualization Laborator	19SCSL46
	Bachelor of Technology - Electronics and communication	Computer Organization	17SEC33
	Bachelor of Technology - Computer Science and Engineering	Computer Software Concept & Programming	19SCS12/22
	Bachelor of Technology - Civil Engineering	CONCRETE & HIGHWAY MATERIAL TESTING LAB	21SCVL57
	Bachelor of Technology - Civil Engineering	CONCRETE TECHNOLOGY AND GREEN MATERIALS	21SCV45
	Bachelor of Technology - Computer Science and Engineering	Constitution & Professional Ethics	19SCP 19/29
	Bachelor of Technology - Electronics and communication	Constitution of India and Professional Ethics	17SCI 19/29
	Bachelor of Technology - Civil Engineering	Constitution, Professional Ethics and Human Values	21SCP18/28
	Bachelor of Technology - Electronics and communication	Data Communication	17SEC45
	Bachelor of Technology - Electronics and communication	Data structures and Algorithms Lab	17SECL47
	Bachelor of Technology - Computer Science and Engineering	Data Structures and its Applications	19SCS32
	Bachelor of Technology - Computer Science and Engineering	Data Structures Laboratory	19SCSL37
	Bachelor of Technology - Civil Engineering	DESIGN & DRAWING OF RCC STRUCTURES	21SCV61

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	Bachelor of Technology - Electronics and communication	Design and Analysis of Algorithm	17SEC42
	Bachelor of Technology - Computer Science and Engineering	Design and Analysis of Algorithm laboratory	19SCSL45
	Bachelor of Technology - Computer Science and Engineering	Design and Analysis of Algorithms	19SCS42
	Bachelor of Technology - Civil Engineering	DESIGN OF RCC STRUCTURES	21SCV53
	Bachelor of Technology - Electronics and communication	Digital Logic Design	17SEC34
	Bachelor of Technology - Electronics and communication	Digital Electronics and Microprocessor Lab	17SECL38
	Bachelor of Technology - Computer Science and Engineering	Digital System Design	19SCS33
	Bachelor of Technology - Computer Science and Engineering	Discrete Mathematical Structures And Graph Theory	19SCS41
	Bachelor of Technology - Civil Engineering	EARTH SCIENCE LAB	21SCVL46
	Bachelor of Technology - Civil Engineering	Electrical & Electronics	21SEC13/23
	Bachelor of Technology - Civil Engineering	Electrical & Electronics Laboratory	21SECL13/23
	Bachelor of Technology - Electronics and communication	Elements of Electronics Engineering	17SEC13/23
	Bachelor of Technology - Electronics and communication	Elements of Civil Engineering	17SCV14/24
	Bachelor of Technology - Computer Science and Engineering	Elements of Electrical & Electronics	19SEC13/23
	Bachelor of Technology - Electronics and communication	Elements of Engineering Graphics	17SEG15/25
	Bachelor of Technology - Civil Engineering	Elements of Mechanical and Civil Engineering	21SMC13/23
	Bachelor of Technology - Computer Science and Engineering	Elements of Mechanical and Civil Engineering	19SMC13/23
	Bachelor of Technology - Electronics and communication	Elements of Mechanical Engineering	17SME14/24
	Bachelor of Technology - Civil Engineering	EMPLOYABILITY SKILLS ENHANCEMENT PROGRAMME - 1	21SQA38
	Bachelor of Technology - Civil Engineering	Employability Skills Enhancement Programme - 2	21SQA48
	Bachelor of Technology - Electronics and communication	Employability Skills Enhancement Programme 2 (ESEP 2)	19SQA49

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	Bachelor of Technology - Civil Engineering	Employability Skills Enhancement Programme 3	21SQA58
	Bachelor of Technology - Electronics and communication	Engineering Chemistry	17SCH12/22
	Bachelor of Technology - Electronics and communication	Engineering Physics	17SPH12/22
	Bachelor of Technology - Civil Engineering	Engineering Chemistry	21SCH11/21
	Bachelor of Technology - Civil Engineering	Engineering Chemistry Laboratory	21SCHL11/21
	Bachelor of Technology - Electronics and communication	Engineering Chemistry Laboratory	17SCH16/26
	Bachelor of Technology - Computer Science and Engineering	Engineering Chemistry of Materials	19SCH11/21
	Bachelor of Technology - Electronics and communication	Engineering Mathematics -I	17SMA11
	Bachelor of Technology - Electronics and communication	Engineering Mathematics -III	17SEC31
	Bachelor of Technology - Electronics and communication	Engineering Mathematics-IV	17SMA41
	Bachelor of Technology - Mechanical Engineering	Engineering Mechanics	19SME33
	Bachelor of Technology - Civil Engineering	Engineering Physics	21SPH11/21
	Bachelor of Technology - Electronics and communication	Engineering Physics Laboratory	17SPH16/26
	Bachelor of Technology - Civil Engineering	Engineering Physics Laboratory	21SPHL11/21
	Bachelor of Technology - Computer Science and Engineering	Engineering Physics of Materials	19SPH11/21
	Bachelor of Technology - Civil Engineering	ENGINEERING STATISTICS	21SMA31
	Bachelor of Technology - Civil Engineering	ENGINEERING SURVEYING	21SCV34
	Bachelor of Technology - Civil Engineering	Environmental Studies and Sustainable Development Goals	21SES16/26
	Bachelor of Technology - Computer Science and Engineering	ESEP – Troubleshooting	19SCS38
	Bachelor of Technology - Computer Science and Engineering	ESEP- Hands-on training on Unix and Shell Programming	19SCS48
	Bachelor of Technology - Mechanical Engineering	ESEP-Xlanz	19SXX39
	Bachelor of Technology - Civil Engineering	FLUID MECHANICS	21SCV33
	Bachelor of Technology - Mechanical Engineering	Fluid Mechanics	19SME43

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	Bachelor of Technology - Civil Engineering	FLUID MECHANICS LAB	21SCVL47
	Bachelor of Technology - Mechanical Engineering	Foundry and Sand Testing Lab	19SMEL36
	Bachelor of Technology - Civil Engineering	GEOTECHNICAL ENGINEERING	21SCV52
	Bachelor of Technology - Civil Engineering	HYDRAULICS AND HYDRAULIC MACHINES	21SCV43
	Bachelor of Technology - Civil Engineering	HYDROLOGY AND IRRIGATION ENGINEERING	21SCV55
	Bachelor of Technology - Civil Engineering	ICCT/	21SCS17/
	Bachelor of Technology - Computer Science and Engineering	Information Communication & Computation Technology	19SIS12/22
	Bachelor of Technology - Civil Engineering	Innovation and Design Thinking	21SID18/28
	Bachelor of Technology - Computer Science and Engineering	International Certificate Course on Current Trends	
	Bachelor of Technology - Civil Engineering	INTERNATIONAL CERTIFICATION COURSE ON CURRENT TRENDS	21SQA30
	Bachelor of Technology - Civil Engineering	INTERNATIONAL CERTIFICATION COURSE ON CURRENT TRENDS	21SQA40
	Bachelor of Technology - Civil Engineering	INTERNSHIP - 1	21SCV58
	Bachelor of Technology - Computer Science and Engineering	Java Programming Laboratory	19SCSL47
	Bachelor of Technology - Civil Engineering	Kannada Kali - I Kannada Manasu – I	21SKK10
	Bachelor of Technology - Civil Engineering	Kannada Kali- II Kannada Manasu – II	21SKK20
	Bachelor of Technology - Computer Science and Engineering	Kannada/ Co-curricular Activities/Sports (ESEP)	19SKM10/20 19SKK10/20
	Bachelor of Technology - Computer Science and Engineering	Lab on Computer Programming	19SCSL17/27
	Bachelor of Technology - Computer Science and Engineering	Lab on Engineering Physics of Materials	19SPHL 15/25
	Bachelor of Technology - Computer Science and Engineering	Lab on Spreadsheet Programming	19SCPL 17/27

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	Bachelor of Technology - Electronics and communication	Linear ICs and Circuit Analysis	17SEC43
	Bachelor of Technology - Computer Science and Engineering	Logic Design and Analog Circuits Laboratory	19SCSL35
	Bachelor of Technology - Mechanical Engineering	Machine Shop	19SMEL46
	Bachelor of Technology - Mechanical Engineering	Manufacturing Process	19SME34
	Bachelor of Technology - Mechanical Engineering	Material Testing Lab	19SMEL35
	Bachelor of Technology - Mechanical Engineering	Measurements and Metrology Lab	19SMEL45
	Bachelor of Technology - Mechanical Engineering	Mechanical Behaviour of Materials	19SMEL38
	Bachelor of Technology - Mechanical Engineering	Mechatronics	19SMEL48
	Bachelor of Technology - Computer Science and Engineering	Microprocessor and Embedded Systems	19SCS34
	Bachelor of Technology - Computer Science and Engineering	Microprocessor Laboratory	19SCSL36
	Bachelor of Technology - Civil Engineering	MOOC	21SCVS01
	Bachelor of Technology - Civil Engineering	NTERNATIONAL CERTIFICATION COURSE 3	21SCV50
	Bachelor of Technology - Computer Science and Engineering	Object Oriented Concepts	19SCS43
	Bachelor of Technology - Electronics and communication	Object Oriented Concepts	17SEC44
	Bachelor of Technology - Electronics and communication	Personality Development and Communication	17SPD18/28
	Bachelor of Technology - Electronics and communication	Principles of Communication Systems	17SEC46
	Bachelor of Technology - Electronics and communication	Principles of Environmental Studies	17SES18/28
	Bachelor of Technology - Computer Science and Engineering	Principles of Environmental Studies	19SES19/29
	Bachelor of Technology - Mechanical Engineering	Probability Theory & Statistical Method	19SMA41
	Bachelor of Technology - Computer Science and Engineering	Professional English(ESEP – Xlenz)	19SPE 18/28
	Bachelor of Technology - Computer Science and Engineering	Project on Business Plan- EAEP IV	21MBA45
	Bachelor of Technology - Computer Science and Engineering	Quantitative Techniques in Engineering –I/ II	19SMA 14/24

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	Bachelor of Technology - Mechanical Engineering	Simulation of Kinematic Mechanism	19SME47
	Bachelor of Technology - Civil Engineering	SMART MATERIAL TESTING LAB	21SCVL37
	Bachelor of Technology - Computer Science and Engineering	Software Engineering	19SCS44
	Bachelor of Technology - Civil Engineering	STRENGTH OF MATERIALS	21SCV32
	Bachelor of Technology - Civil Engineering	STRUCTURAL ANALYSIS -I	21SCV42
	Bachelor of Technology - Civil Engineering	STRUCTURAL ANALYSIS- II	21SCV51
	Bachelor of Technology - Civil Engineering	Technical English/ Professional English (ESEP)	21STE15/
	Bachelor of Technology - Mechanical Engineering	Thermodynamics - Basics	19SME32
	Bachelor of Technology - Mechanical Engineering	Thermodynamics - Applications	19SME42
	Bachelor of Technology - Civil Engineering	TRANSPORTATION ENGINEERING	21SCV54
	Bachelor of Technology - Civil Engineering	Vocational - 1	21CAV-3
	Bachelor of Technology - Electronics and communication	Workshop Practice	17SWS17/27

Dr Thomas Pinto

Dean - SUIET

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MINUTES OF THE BOS MEETING HELD ON 18 MARCH 2020

MEMBERS PRESENT

1. PROF. SWAMINATHAN S
2. PROF. PADMANABHA K
3. PROF. SREEJITH O V
4. PROF. SUBRAT SARAF
5. PROF. PRASHANTH PRABHU

VENUE: DEAN'S CHAMBER
TIME: 4.15 PM

THE BOS MEETING WAS CONDUCTED IN ORDER TO DISCUSS ABOUT THE FOLLOWING AGENDA

1. ADDING ONE MORE TRAINING SESSION FOR A SEMESTER
2. INTRODUCTION OF NEW COURSE – B.SC-HM AVIATION, TRAVEL & TOURISM
3. CHANGE IN SYLLABUS PATTERN

Agenda: 1 Prof. Swaminathan proposed that the pattern of BHMCT need to be changed and the students should be provided with additional training for on semester. The advantage of this system is that the students will get more exposure in the specialized area, especially the students belonging to the eighth semester. The initial training in the Fifth semester will be called Industrial Exposure Training and the second training in Eighth semester will be On the Job Training. Prof Padmanabha backed this suggestion.

Agenda:2 Prof. Swaminathan proposed that a new courseB.SC-HM with AVIATION, TRAVEL & TOURISM may be added as per the suggestion from Management. The following were the subjects suggested for the same. Airline Industry – Introduction, Aviation Law and Aircraft Rules and Regulation, Transportation, Safety and Security, Principles of Airport Management, Airline Catering Practical, Cabin Crew Service Practical, Bakery Practical

Agenda:3 The members suggested the following changes to be made in the syllabus

1. The syllabus of third, fourth and fifth semesters need to be combined and distributed in Third and Fourth semesters respectively for Food & Beverage Service and Food Production(Theory & Practical)
2. Regular B.SC-HM students will have the following subjects – F&B Service(T). F&B Production(T), Event Management, Hotel Law, Economics, Hotel Marketing, Mixology(p), Bakery (p).
3. – F&B Service(Theory and Practical) to be added instead of Introduction to Hospitality in the First semester of BHMCT and B.SC-HM. By adding the Practical, the students Credits will be increased. BHMCT -Total modifications done 13,Percentage of Modifications 23%
   B.sc-HM Total modifications are done 14, Percentage of Modifications 28%

Members Present

1. **Prof. Swaminathan S (Chairperson)**
2. **Prof Padmanabha K**
3. **Mr. Sreejith O. V.**
4. **Mr. Subrat Saraf**
5. **Mr. Prashanth Prabhu**

Dean
College of [illegible] & Tourism
Srinivas University

Prof. Swaminathan
Chairperson
BOS in Hotel Management

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Proceedings of the meeting of the Board of Studies in Hotel Management held on 20th of November 2021, 2.00p.m at college Meeting room, Srinivas University, Mangalore.

Members Present

1. Prof. Swaminathan S
2. Prof Padmanabha P.
3. Mr. Sreejith O. V.

Members Absent

1. Mr. Rajesh Kumar – represented by Mr Subrat Saraf
2. Mr. Naren Thimmaiah – represented by Mr. Prashant Prabhu

The chairperson of the BOS in Hotel Management welcomed all the members present. He explained the agenda of the meeting in brief. Then the agenda was taken up for discussion.

Agenda I- Execution of industrial training for VI ,& VII sem

Mr Sreejith O V, Member, proposed to commence the Industrial training for VI sem BHMCT/BScHM & VII sem BHMCT from 13th of December with a cushion gap of 10 days tentatively between their last exam and commencement of training program. As decided in the previous BOS meeting, the students of forthcoming VIII sem BHMCT were also covered under the training programme. The proposal was accepted by Chairperson and instructions were given for implementation.

Agenda II- Implementation of New Education Policy 2021

Mr Swaminathan S, Chairperson proposed to implement NEP-2021 to current first year fresher students of BHMCT, BSC HM first semester, to which all the members agreed. According to the structure of NEP for courses under Hotel management related higher education sent by Government of Karnataka (HEC-Higher Education Council), the programme structure was discussed and framed (Annexure-I) and forwarded to the higher authorities of the University for approval. **The syllabus change was 100% for all courses.**

Members Present

1. Prof. Swaminathan S (Chairperson)
2. Prof Padmanabha K
3. Mr. Sreejith O. V.
4. Mr. Subrat Saraf
5. Mr. Prashanth Prabhu

Prof. Swaminathan
Chairperson
BOS in Hotel Management

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PROCEEDINGS OF THE MEETING OF THE BOARD OF STUDIES OF THE COLLEGE OF MANAGEMENT & COMMERCE, SRINIVAS UNIVERSITY HELD On 16.07.2021 AT 3.30 P.M. IN THE CONFERENCE ROOM, 2ND FLOOR, PANDESHWARA CAMPUS, SRINIVAS UNIVERSITY.

Members Present:

Prof Keerthan Raj	Chairperson
Prof. Amith Menezes	Member
Dr. Sonia Noronha	Member
Mr. Dharmendra Mehta	External Member (Industry)
Mr. Sanjay Singh	External Member (Industry)
Mr. Daniel Perrera	External Member (Industry)

Members Absent:

Mr. Navneet	External Member (Industry)
Mr. Arun Salian	External Member (Industry)
Prof. Nelson Periera	Member
Dr. Shailashri V.T	Member

At the outset, Keerthan Raj, Chairperson of the BOS in Commerce & Management, welcomed all the members present, explained the purpose of the meeting as mentioned in the notice and the agenda in brief. Then the agenda was taken up for discussion.

AGENDA 1: Continuation of existing programs and academic calendar for the academic year.

Discussion : The board met to resolve the academic calendar and continuance of existing programs.

RESOLUTION : The Board approved the academic calendar for the new academic year which was delayed due to covid pandemic.

AGENDA 2: NEP clarifications

Discussion : The members discussed on various aspects of implementation of NEP and

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deliberated to seek guidance and go with the suggestions of the academic council for the new syllabus structure to be adopted.

RESOLUTION : The board resolved to await guidelines from the academic council on NEP implementation.

New Courses list is attached as Annexure

Proposed By : Prof. Nelson Periera

Seconded By : Prof. Amith Menezes

At the end, the Chairperson thanked all the members for having spared their valuable time and extended their cooperation.

Keerthan Raj

Chairperson

TRUE COPY

PLACE : Mangaluru

Date : 16.07.2021

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Institute of management and Commerce

List of New courses Introduced during 2021-22

Annexure - I

Si no	Name of the Programme	Name of the New Course	Course Code
1.	Master of Business Administration	Accounting for Decision making	21MBA33
2.	Bachelor of Commerce	Business Economics	21BCMHN14-E2
3.	Bachelor of Business Administration	Business Accounting II	21BBAHN21
4.	Master of Business Administration	Business Research Methods	21MBA26
5.	Master of Business Administration	Business Statistics and Analytics	21MBA12
6.	Master of Business Administration	Case Development on CEO Analysis - EAEP III	21MBA38
7.	Master of Business Administration	Case Development on Industry Analysis – (EAEP 1)	21MBA17
8.	Master of Business Administration	Certificate Course in Statistical Analysis - ESEP III	21MBA 37
9.	Bachelor of Commerce	Communicative English I	21BCMHN15
10.	Bachelor of Business Administration	Communicative English II	21BBAHN25
11.	Bachelor of Commerce	Communicative English II	21BCMHN25
12.	Bachelor of Business Administration	Customer Relationship Management	21BBAHN22 E-1
13.	Bachelor of Commerce	Cyber Security & Ethics	21BCMHN14-E3
14.	Bachelor of Business Administration	Decision Analysis & Investment Decision (CMA)- 2 CE	21BBAHN22 E-4
15.	Bachelor of Commerce	Decision Analysis & Investment Decision (CMA)- 2 CE	21BCMHN22-E2
16.	Master of Business Administration	Decision Science	21MBA24

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17.	Bachelor of Business Administration	Digital Fluency & Employability Skill Enhancement Project – ICA	21BBAHN17
18.	Bachelor of Commerce	Digital Fluency & Employability Skill Enhancement Project - ICA	21BCMHN17
19.	Master of Business Administration	Dissertation and viva voce	21MBAP46
20.	Master of Business Administration	Dual Elective 1	21MBADE36*
21.	Master of Business Administration	Dual Elective 2	21MBADE45*
22.	Master of Business Administration	Economic Analysis for Business Decisions	21 MBA11
23.	Master of Business Administration	Elective 1	21MBAE34*
24.	Master of Business Administration	Elective 2	21MBAE35*
25.	Master of Business Administration	Elective 3	21MBAE43*
26.	Master of Business Administration	Elective 4	21MBAE44*
27.	Master of Business Administration	Entrepreneurship and New venture creation	21MBA32
28.	Bachelor of Business Administration	Environmental Studies & SDGS'S	21BBAHN27
29.	Bachelor of Commerce	Environmental Studies & SDGS'S	21BCMHN27
30.	Bachelor of Commerce	Financial Accounting I	21BCMHN11
31.	Bachelor of Commerce	Financial Accounting II	21BCMHN21
32.	Master of Business Administration	Financial Management	21MBA23
33.	Master of Business Administration	Financial Reporting and Cost Control	21MBA15
34.	Bachelor of Commerce	Financial Statement Analysis & Risk Management (CMA)	21BCMHN12-E2
35.	Bachelor of Business Administration	Health & Wellness - Diet & Nutrition & Emotional Learning	21BBAHN18
36.	Bachelor of Commerce	Health & Wellness - Diet & Nutrition & Emotional Learning	21BCMHN18
37.	Bachelor of Commerce	Hindi	21BCMHN16H

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38.	Bachelor of Commerce	Hindi	21BCMHN26H
39.	Bachelor of Business Administration	Hospital Planning	21BBAHN22 E-3
40.	Bachelor of Commerce	Human Resource Management	21BCMHN24-E1
41.	Master of Business Administration	Human Resource Management and Audit	21MBA25
42.	Bachelor of Business Administration	Human Resources Management	21BBAHN23
43.	Bachelor of Commerce	Information System	21BCMHN14-E1
44.	Master of Business Administration	Innovation & Strategic Management	21MBA31
45.	Master of Business Administration	International Business Environment	21MBA42
46.	Bachelor of Commerce	Journalism & Mass Communication	21BCMHN24-E4
47.	Bachelor of Commerce	Kannada	21BCMHN16K
48.	Bachelor of Commerce	Kannada	21BCMHN26K
49.	Bachelor of Business Administration	Language II	21BBAHN16
50.	Bachelor of Business Administration	Language II	21BBAHN26
51.	Master of Business Administration	Leadership &Organizational Behavior	21MBA14
52.	Master of Business Administration	Legal Systems in Business	21MBA16
53.	Bachelor of Commerce	Malyalam	21BCMHN16M
54.	Bachelor of Commerce	Malyalam	21BCMHN26M
55.	Master of Business Administration	Management Information System and analytics	21MBA41
56.	Master of Business Administration	Managerial Personality Development - ESEP 2	21MBA28
57.	Bachelor of Business Administration	Maritime Law	21BBAHN22 E-2
58.	Bachelor of Business Administration	Marketing Management	21BBAHN22
59.	Bachelor of Commerce	Marketing Management	21BCMHN23
60.	Master of Business Administration	Marketing Management	21MBA21
61.	Bachelor of Commerce	NSS /R&R(S&G) /Cultural/ Physical Education/Sports	21BCMHN28

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62.	Master of Business Administration	Practice based Experiential learning II	21MBA30
63.	Master of Business Administration	Practice Based Experiential-Learning I – (Compulsory)	21MBA19
64.	Master of Business Administration	Practice based experimental Learning III	21MBA40
65.	Bachelor of Commerce	Principles of Management	21BCMHN13
66.	Master of Business Administration	Principles of Management &Managerial Ethics	21MBA13
67.	Master of Business Administration	Project on Indian Company Analysis & Publication – EAEP 2	21MBA27
68.	Master of Business Administration	Publication & IPR - ESEP IV	21MBA47
69.	Master of Business Administration	Publication & IPR - ESEP IV	21MBA44
70.	Bachelor of Commerce	Quantitative Techniques I	21BCMHN12-E1
71.	Bachelor of Commerce	Quantitative Techniques II	21BCMHN22-E1
72.	Master of Business Administration	Spreadsheet Modelling - (ESEP 1)	21MBA18
73.	Bachelor of Commerce	Stock Markets	21BCMHN24-E2
74.	Bachelor of Business Administration	Stock markets /	21BBAHN24
75.	Master of Business Administration	Swayam MOOC 1	21MBA 49
76.	Master of Business Administration	Swayam MOOC 1	21MBA 42
77.	Master of Business Administration	Swayam MOOC 2	21MBA50
78.	Master of Business Administration	Swayam MOOC 2	21MBA43
79.	Master of Business Administration	Technology & Operations Management	21MBA22
80.	Bachelor of Commerce	Tourism & Travel Management	21BCMHN24-E3
81.	Master of Business Administration	Work shop on ABCD Analysis Framework	21MBA29

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82.	Master of Business Administration	Workshop on Design Thinking &Innovation	21MBA20
83.	Master of Business Administration	Workshop on Ideal Business Model	21MBA39

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INSTITUTE OF NURSING SCIENCES

Ref: SUCON-4/OCT/2022 Date: 4/10/2022

Minutes of the meeting of BOS (UG) Nursing Faculty:-

A meeting of the BOS (UG) nursing faculty was held on 4/10/22 and the following academic matters were discussed. The meeting started at 10 AM and the following members were present.

SL.No	NAME	DESIGNATION
1.	Dr.N M Jose	M.Sc(N) Medical Surgical Nursing(PhD),Dean
2	Mrs. Rosita Martha Rosario	M.Sc(N) Mental Health Nursing, Asst professor
3	Mrs. Florin Lavina Lasrado	M.Sc(N) Child Health Nursing , Asst professor
4	Mrs.Maria	M.Sc(N) Community Health Nursing ,Professor
5	Mrs.Rajini	M.Sc(N) Community Health Nursing, Asst Professor

Subjects to taught in I semester

1. General science-physics chemistry biology -80hrs
2. Communicative English 40 hrs
3. Anatomy and physiology -100hrs
4. Sociology and psychology -100hrs
5. Nursing foundation I-120 hrs
6. Nursing foundation practical -80hrs

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7. Nursing foundation clinics 160 hrs

AGENDA DISCUSSED:

- Implementation of the new B.sc Nursing syllabus guidelines.
- Discussed first and second semester syllabus of theory and practical.
- The exam will be in every 6 months and it is a semester system course as per INC guidelines.

Regarding first semester:

- First semester syllabus includes,
    1. General Science, having Physics ,Chemistry , Biology and Communicative English ,
    2. Applied Anatomy and Applied Physiology ,
    3. Applied Sociology and ,Applied Psychology ,
    4. Nursing Foundations, Theory And Practical.

- Semester end exam will not be there for General Science and Communicative English.
- There will be college exam only for these two subjects. 2 theory papers will have first semester end exam.
- The practical and theory internal exams marks of Nursing Foundation - I will be added to Nursing Foundation- II in the second semester, and university exam will be in the second semester.
- As Usual there will be 25 internal marks for subsidiary subjects as well as for the main subjects.
- The university exam will have 75 marks each in Applied Anatomy and Physiology and Applied Sociology and Applied Psychology.

Regarding II semester:

Subjects to be taught

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1. Biochemistry
2. Nutrition
3. Nursing foundation II
4. Introduction to community health nursing theory
5. Nursing foundation lab 120 hrs
6. Nursing foundation clinics 320 hrs.
7. Introduction to community health nursing clinics 80 hrs

- There are 2 university examination papers in the second semester end they are,
    1. Applied Biochemistry And Applied Nutrition.
    2. Nursing Foundation I and II both Theory And Practical.
- Theory and practical papers will have 25 marks as internal assessment marks and university exam will be for 75 marks
- Introduction to Community Health Nursing will be college exam for 25 marks making a total of 50 marks.
- Nursing Foundation university exam will be for 50 marks with 25 marks internal assessments in first semester and 25 marks in second semester making total of 100 marks.
- The meeting concluded that there will be only two university exam in the Ist semester
- 1.Applied anatomy and Physiology
- Applied Sociology and Psychology and
- In the second semester there will be two university examination papers in theory and practical
    1. Biochemistry and Nutrition.
    2. Nursing Foundation theory and practical.

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INSTITUTE OF NURSING SCIENCES

Ref: SUCON-5/APRIL/2022 Date: 5/04/2022

Sub: Minutes of the meeting of BOS (UG) Nursing Faculty:-

A meeting of the BOS (UG) nursing faculty was held on 5/04/22 and the following academic matters were discussed. The meeting started at 10 AM and the following members were present.

SL.No	NAME	DESIGNATION
1.	Dr.N M Jose	M.Sc(N) Medical Surgical Nursing(PhD) Dean
.2	Mrs. Rosita Martha Rosario	M.Sc(N) Mental Health Nursing, Asst professor.
.3	Mrs. Florin Lavina Lasrado	M.Sc(N) Child Health Nursing Asst professor
4	Mrs .Maria	M.Sc(N) Community Health Nursing Professor.
5	Mrs.Rajini	M.Sc(N) Community Health Nursing Asst professor.

Regarding 3rd semester

Subjects taught in 3rd semester

1. Microbiology and infection control 40hrs
2. Pharmacology I -20hrs
3. Pathology 1 -20hrs
4. Medical surgical nursing I -120hrs

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5. Professionalism and ethics -20hrs
6. Medical surgical nursing lab -40hrs
7. Microbiology - practical 40 hrs.
8. Medical surgical nursing clinical 480 hrs.

AGENDA DISCUSSED:

The main subjects to be taught in the 3rd semester.

1. Applied Microbiology and Infection control
2. Pharmacology I and Pathology II
3. Medical Surgical Nursing I

   Examination papers are

   1. Applied Microbiology And Infection Control
   2. Medical Surgical Nursing Both Theory And Practical

- Pharmacology I And Pathology I ,will have college exam in 4th semester
- Professionalism and Ethics ,will have college exam each university exam subjects carries 25 internal marks and 75 external marks in theory
- Practical marks will have 50 marks internal and 50 marks external exam making it 100 marks.

Regarding IV semester:

Subjects taught in 4th semester .

1. Pharmacology II-40hrs
2. Pathology and genetics -20hrs
3. Medical surgical nursing 120hrs
4. Educational technology 40hrs

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5. Medical surgical nursing clinics -480hrs
6. Educational technology practical -40hrs
7. Medical surgical nursing practical -40hrs

- There will be 3 university examination papers and 1 university practical examination.
  1. Medical surgical nursing II both theory and practical.
  2. Pharmacology and pathology 1 and 2
  3 .Education technology.
- No carry over examination to next semester and no college exam.
- Practical exam internal marks will be in 50 and theory university exams will be out of 75 in each three papers.

Regarding 5th semester

Subjects taught in 5thrd semester :

1. Child health nursing -80hrs
2. Mental health nursing -80hrs
3. Nursing management 60hrs
4. Nursing research and statistics -40hrs
5. Health informatics
6. Forensic nursing and Indian laws 20hrs
7. Child health nursing practical 40 hrs
8. Child health nursing clinics 160hrs
9. Mental health nursing clinics 80 hrs

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10.Nursing management clinics 80 hrs

, 11.Nursing research project 80hrs.

- There will be total 6 papers out of which two subjects are having college exam. They are ,
  1. Health and Nursing Informatics,
  2 .Forensic Nursing and Indian Laws.
- There will be 2 university theory examinations,
  1. Nursing management and Leadership
  2. Nursing research for 75 marks each and internal 25 marks each.
- Child Health Nursing and Mental Health Nursing exam will be carried out in 6th semester, both theory and practical.

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Ref: SUCON-2/FEB /2022 Date: 2/FEB /2022

Sub: Minutes of the meeting of BOS (UG) Nursing Faculty:-

A meeting of the BOS (UG) nursing faculty was held on 2/FEB /22 and the following academic matters were discussed. The meeting started a 10 am .and the following members were present.

SL.No	NAME	DESIGNATION
1.	Dr.N M Jose	M.Sc(N) ,Ph.D,Dean
2.	Mrs. Rosita Martha Rosario	M.Sc(N) Mental Health Nursing, Asst professor
3.	Mrs. Florin Lavina Lasrado	M.Sc(N) Child Health Nursing ,Asst professor
4.	Mrs .Maria	M.Sc(N) Community Health Nursing Professor
5	Mrs.Rajini	M.Sc(N)Community Health Nursing Asst professor.

Regarding 6th semester:

Subjects taught in 6th semester

1. Child health nursing 20hrs
2. Mental health 20hrs
3. Community health nursing 100hrs
4. Midwifery 40hrs
5. Child health clinics 80hrs
6. Mental health clinics
7. Community clinics 160hrs

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8. Midwifery 160hrs
9. Midwifery lab 40hrs

- There will not be any end semester college exam .There will be both university theory and practical exam in Child Health Nursing And Mental Health Nursing.
- Community Health Nursing and Midwifery Theory and Practical exam will be in the 7th semester.

Regarding 7th semester :

Subjects taught in 7th semester

1. Community 40hrs
2. Community clinics 80hrs
3. Midwifery 80hrs
4. Midwifery lab 40hrs
5. Midwifery clinics 560hrs

- There will not be any semester end and college exams. but there will university theory and practical exam for community health nursing and midwifery .

Regarding 8th semester:

Internship hours in 8th semester

1. Community health nursing 4 weeks
2. Medical surgical nursing 6 weeks
3. Child health 4 weeks
4. Mental health nursing 4 weeks
5. Midwifery 4 weeks

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- 100 marks meant for Competency Assessment in internal and another 100 in university level.
- There will be 22 weeks of internship including 4 weeks in community, 6 weeks in medical surgical,4 weeks in child health nursing, 4 weeks in mental health nursing, and 4 weeks in midwifery
- One credit theory is considered as 1 hour /week/semester
- One credit practical /lab is considered as 2 hours /week/semester
- One credit clinical is considered as 4 hours /week/semester
- Total credits are 160.
- Total hours 6,606 .

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BOS MINUTES OF THE MEETING

The 10th meeting of BOS of College of Physiotherapy, Srinivas University was held in Dean's chamber of College of Physiotherapy, City campus, Pandeshwar on **15.11.2021**.

The following members were present:

Dr. Rajasekar S	-	Chairperson
Dr. Ajay Kumar	-	Member
Dr. Thrishala Noronha	-	Member
Dr. N. Mageswaran	-	Member
Dr. Pathak Anupama	-	Member

Leave of absence:

Leave of absence was granted to

Dr. Bhargav Dave (External member) and

Dr. K. Vijay Kumar (External member) by the Chairperson. Board of Studies.

The Chairman welcomed all the members who were present for the meeting. The meeting was thereafter deliberated by Dr. Thrishala Noronha on agenda items as had been approved by the Chairperson.

AGENDA

1. **Confirmation of minutes of last meeting of the Board of Studies held on 22.02.2021.**
2. **To consider and approve the Curriculum and syllabus for BPT according to NEP 2020.**
3. **To consider and approve the revised curriculum and syllabus for MPT 2021 batch.**
4. **Planning the academic calendar for BPT and MPT for the academic year 2021-22.**
5. **Formation of Board of Examiners (BOE) for BPT and MPT program examination for 2021-22.**
6. **Preparation of Panel of examiners/gradation list.**

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1. **Confirmation of minutes of last meeting of the Board of Studies held on 22.02.2021.**

- The minutes of the BOS meeting held on 22nd February 2021 was circulated among the BOS members. Since no comment has been received, this BOS has approved the minutes of the meeting.

2. **To consider and approve the Curriculum and syllabus for BPT according to NEP 2020.**

-The Chairperson informed the house that the curriculum and syllabus for BPT for the batch of 2021 was structured according to NEP 2020 and ready for approval.

-Resolution: The members considered the curriculum and syllabus for BPT and discussed different issues. Finally, it was approved and recommended to the Academic Council for further approval. It was also decided that the course can be introduced under College of Physiotherapy, Srinivas University from 2021 batch onwards. The structuring and changes made are as follows:

Sl. No	Course Code	Course Name	Modification
1.	21BPTDSC01	Psychology and Sociology	Both psychology and sociology which were separate courses earlier are now merged and made into one.
2.	21BPTDSC02	Human Anatomy-I	Human Anatomy-I Theory and Practical course units are merged and made as one course.
3.	21BPTDSC03	Human Physiology-I	Human Physiology-I Theory and Practical course units are merged and made as one course. Also, practical syllabus has been fine-tuned with introduction of new practical components based on the skill requirements.
4.	21BPTAECC02(NK)	Kannada-I for non-Kannadigas	New course introduced as per NEP.
5.	21BPTAECC02(K)	Kannada-I for Kannadigas	New course introduced as per NEP.
6.	21BPTSEC01	Introduction to basic skills in patient care-I	Converted from non-credit to credit course carrying 2 credits.
7.	21BPTSEC02	NSS/Cultural/sports	Value based course added as per NEP.
8.	21BPTDSC04	Human Anatomy-II	Human Anatomy-II Theory and Practical course units are merged and made as one course.
9.	21BPTDSC05	Human Physiology-II	Human Physiology-II Theory and Practical course units are merged and made as one course.
10.	21BPTAECC02(NK)	Kannada-II for non-Kannadigas	New course introduced as per NEP.
11.	21BPTAECC02(K)	Kannada-II for Kannadigas	New course introduced as per NEP.
12.	21BPTSEC03	Basic Nursing and First Aid	Earlier a non-credit course has been now introduced as credit based course carrying 2 credits.
13.	21BPTSEC04	Introduction to basic skills in patient care-II	Converted from non-credit to credit course carrying 2 credits.
14.	21BPTDSC07	Pathology and Microbiology	Both psychology and sociology which were separate courses earlier are now merged and

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			made into one.
15.	21BPTDSC08	Exercise Therapy-I	Theory and Practical course modules are merged and made as one course.
16.	21BPTDSC09	Biomechanics and Kinesiology-I	Theory and Practical course modules are merged and made as one course.
17.	21BPTAECC06	French-I	New course introduced as per NEP.
18.	21BPTAECC07(S)/ 21BPTAECC07(H)	Sanskrit/Hindi	New language courses introduced as per NEP.
19.	21BPTSEC05	Basic Life Support (BLS)	Theory and Practical course modules are merged and made as one course.
20.	21BPTSEC06	Basic skills in patient care-I	Converted from non-credit to credit course carrying 2 credits.
21.	21BPTSEC07	Professional ethics	Value based course introduced in 3rd semester instead of 7th semester as per NEP structure.
22.	21BPTDSC10	Exercise Therapy-II	Theory and Practical course modules are merged and made as one course.
23.	21BPTDSC11	Biomechanics and Kinesiology-II	Theory and Practical course modules are merged and made as one course.
24.	21BPTDSC12	Electro Physical Agents I and II	Earlier course name 'Electrotherapy' changed to Electro Physical Agents, and I and II which were in 3rd and 4th semesters separately have been merged into one course in 4th semester. This is to fulfill the curriculum structure of NEP.
25.	21BPTAECC08	French-II	New language course introduced as per NEP.
26.	21BPTAECC09(A)/ 21BPTAECC09(G)	Arabic/German	New language courses introduced as per NEP.
27.	21BPTAECC10	Constitution of India	Converted from non-credit to credit course carrying 2 credits.
28.	21BPTSEC08	Basic skills in patient care-II	Converted from non-credit to credit course carrying 2 credits.
29.	21BPTDSC13	General Medicine and Surgery	Separate courses earlier are now merged and made into one course.
30.	21BPTDSC14	OBG and Paediatrics	Separate courses earlier are now merged and made into one course.
31.	21BPTDSE01	Pharmacology	Earlier in 4th semester is now introduced as discipline specific elective course in 5th semester.
32.	21BPTVOC01	Fitness Training	New vocational course introduced in 5th semester as per NEP.
33.	21BPTSEC09	Mobilizations and Manipulations (peripheral and spinal joints)	New SEC course introduced as per NEP.
34.	21BPTSEC11	Yoga	Theory and Practical course modules are merged and made as one course.
35.	21BPTDSE02	Women's Health for Physiotherapists	Introduced as discipline specific elective course in 6th semester.
36.	21BPTVOC02	Hospital Administration	Converted from non-credit to credit course carrying 3 credits.
37.	21BPTSEC13	NSS/Cultural/sports	Value based course added in 6th semester as per NEP.
38.	21BPTDSE03	Electro diagnosis for Physiotherapists	Introduced as discipline specific elective course in 7th semester.
39.	21BPTDSE04	Dry Needling	Introduced as discipline specific elective course in 7th semester.
40.	21BPTVOC03	Essentials of Orthotics and Prosthetics	New vocational course introduced in 7th semester as per NEP.
41.	21BPTDSE07	ICU monitoring and	Introduced as discipline specific elective course

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		Management	in 8th semester.
42.	21BPTDSE08	Research Project	Introduced in 8th semester as per NEP.
43.	21BPTVOC04	Medical coding	New vocational course introduced in 8th semester as per NEP.

Total Number of Papers in BPT: 41
Total modifications done: 43
Percentage of Modifications: 60% (approx.)

3. **To consider and approve the revised curriculum and syllabus for MPT 2021 batch.**

- It was proposed by Dr. Rajasekar S and seconded by Dr. Thrishala Noronha that the curriculum and syllabus for MPT for the batch of 2021 be revised wherever necessary as per the latest trends in industry.

-Resolution: The members considered the curriculum and syllabus for BPT and discussed the necessary changes. Finally, it was approved and recommended to the Academic Council for further approval. It was also decided that the course can be introduced under College of Physiotherapy, Srinivas University from 2021 batch onwards. The structuring and changes made are as follows:

Sl. No	Course Code	Course Name	Modification
1.	21MPT101	Research Methodology and Biostatistics for Physiotherapists	In module 3, handling SPSS added under processing and analysis of data. In module 5, writing references in research added under format of scientific documents.
2.	21MPT103	Evidence Based Practice in Physiotherapy	Both parts which were in one course, have been now separated into 2 courses to increase the credit value.
3.	21MPT104	Ethics in Physiotherapy	
4.	21MPT105	Yoga Therapy	New course introduced for enhancing skills and application in physiotherapy carrying 2 credits.
5.	21MPT107	Clinical Training-I	Earlier the clinical training which was merged with other practical courses, is now separately put as a skill enhancement course for giving more consideration and credits to skill based training.
6.	21MPT202	Electrophysiology and Functional Diagnosis (Theory)	In module 1, 'Neurobiology of pain and pain modulations' withdrawn.
7.	21MPT206	Pain Science and Management	New course added with 2 credits.
8.	21MPT208	Clinical Training-II	New SEC added separately for skill based training.
9.	21MPT3G1	Physiotherapeutics-I (Theory)	Pain science and management topic withdrawn.
10.	21MPT3G2	Physiotherapeutics-I (Practical)	Pain assessment and management topic withdrawn.
11.	21MPT311	Advanced Assessment in Musculoskeletal and Sports Physiotherapy-I (Theory)	In module 1, history taking modified. Module 5 'Manual therapy concepts' replaced with 'Clinimetric properties of functional outcome measures.' New module 6 added.
12.	21MPT312	Advanced Musculoskeletal and Sports Goal Planning and Rehabilitation-I (Theory)	Under module 6, Physiotherapy management of locomotor disorders topic withdrawn and common drugs used in musculoskeletal conditions and their

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			effect on orthopaedic rehabilitation added.
13.	21MPT313	Musculoskeletal and Sports Physiotherapy Assessment and Management-I (Practical)	In module 1, clinical reasoning in clinical practice added. Module 4, manual therapy concepts withdrawn.
14.	21MPT3G3	Entrepreneurship for Physiotherapists	New course added in 3rd semester carrying 2 credits.
15.	21MPT315-21MPT365	Clinical Training-III	New SEC added separately for skill based training across all electives.
16.	21MPT4G1	Physiotherapeutics-II (Theory)	Module 5 yogasanas and pranayama withdrawn.
17.	21MPT4G2	Physiotherapeutics-II (Practical)	Module 5 yogasanas and pranayama withdrawn.
18.	21MPT411	Advanced Assessment in Musculoskeletal and Sports Physiotherapy-II (Theory)	Module 1 manual therapy concepts modified; Kinesiotaping and sports taping withdrawn.
19.	21MPT412	Advanced Musculoskeletal and Sports Goal Planning and Rehabilitation-II (Theory)	Module 2 modified. Module 3 modified, new topics added and outdated topics withdrawn: Taping for acute and overuse injuries added.
20.	21MPT413	Musculoskeletal and Sports Physiotherapy Assessment and Management-II (Practical)	Module 1 manual therapy concepts modified. In module 2, Kinesiotaping and sports taping withdrawn. Module 5 and 6 modified.
21.	21MPT416	Kinetic control	Therapeutic taping replaced with kinetic control course.
22.	21MPT419/428/438/448/458/468	Clinical Training-IV	New SEC added separately for skill based training across all electives.
23.	21MPT351	Paediatric Sciences &Rehabilitation Assessment-I (Theory)	Module 2 added; module 3 and 4 modified.
24.	21MPT352	Paediatric Sciences &Rehabilitation Goal Planning and Management-I (Theory)	Module 1 newly added; module 2 modified; in module 6 Indian Public health initiatives added.
25.	21MPT451	Paediatric Sciences &Rehabilitation Assessment-II (Theory)	Module 1 newly added
26.	21MPT452	Paediatric Sciences &Rehabilitation Goal Planning and Management-II (Theory)	ICF model and SMART goals withdrawn; module 2 modified; module 5 and 6 added.
27.	21MPT453	Paediatric Rehabilitation Assessment & Management-II (Practical)	Module 5 and 6 added.
28.	21MPT361	Obstetrics and Gynaecology Physiotherapy Assessment I (Theory)	Module 1 and 5 modified; module 6 added.
29.	21MPT362	Obstetrics and Gynaecology Physiotherapy Goal Planning and Management-I (Theory)	Module 5 and 6 added.
30.	21MPT363	Obstetrics and Gynaecology Physiotherapy Assessment and	Module 5 modified; module 6 added.

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		Management-I (Practical)	
31.	21MPT461	Obstetrics and Gynaecology Physiotherapy Assessment II (Theory)	Module 5, newborn assessment added.
32.	21MPT462	Obstetrics and Gynaecology Physiotherapy Goal Planning and Management-II (Theory)	Module 5 and 6 added.
33.	21MPT463	Obstetrics and Gynaecology Physiotherapy Assessment and Management-II (Practical)	Module 6 modified.

Total Number of Papers in MPT: 18
Total modifications done: 33
Percentage of Modifications: 40% (approx.)

4. **Planning the academic calendar for BPT and MPT for the academic year 2021-22.**
-Chairperson, Dr. S. Rajasekar requested that the academic calendar for the odd semesters of BPT and MPT be planned for the year 2021-22 (November 2021- April 2022).
-Resolution: The members discussed and structured the academic calendar for the academic year 2021-22 of odd semesters of BPT and MPT, and recommended to the Academic Council for further approval.

5. **Formation of Board of Examiners (BOE) for BPT and MPT program examination for 2021-22.**
-The Chairperson explained the criteria related to the selection of BOE members and requested the Board to suggest names.
-Resolution: The Board prepared the list of BOE members in the Physiotherapy programmes for the academic year 2021-22 and resolved to recommend the same to the University.

6. **Preparation of Panel of examiners/gradation list.**
-The Chairperson requested the Board members to prepare the panel of examiners for the odd semester end examination of BPT and MPT programs.
-Resolution: The Board members prepared the panel of exmainers for the odd semester end examination of BPT and MPT, and resolved to recommend the same to the University and send the panel of examiners list in a sealed cover to Registrar (Evaluation).

The meeting started at 09.00 am and ended at 01.00 pm with Thanks to the Chair.

Dean
Institute of Physiotherapy
Srinivas University
Srinivas Campus
Pandeshwar, Mangaluru - 575 001

. Rajasekar S
AIRPERSON (BOS)

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(PRIVATE UNIVERSITY ESTABLISHED UNDER KARNATAKA STATE ACT NO.42 OF 2013)
Corporate Office: G.H.S.Road MANGALURU - 575 001. Karnataka State, INDIA.
Phone No.: 0824 - 2425966, 2444891, Fax: 0824-2442766
E-mail: info@srinivasgroup.com Website: www.srinivasuniversity.edu.in

BOS MINUTES OF THE MEETING

A meeting of BOS of College of Physiotherapy, Srinivas University was held in Dean's chamber of College of Physiotherapy, City campus, Pandeshwar on **18.07.2022**.

The following members were present:

Dr. Rajasekar S	-	Chairperson
Dr. Thrishala Noronha	-	Member
Dr. Pathak Anupama	-	Member

Leave of absence:

Leave of absence was granted to

Dr. Ajay Kumar (Member)

Dr. Bhargav Dave (External member) and

Dr. K. Vijay Kumar (External member) by the Chairperson, Board of Studies.

The Chairman welcomed all the members who were present for the meeting. The meeting was thereafter deliberated by Dr. Thrishala Noronha on agenda items as had been approved by the Chairperson.

AGENDA

1. **Addition of open electives for the BPT course.**
2. **Revision of credits and exam scheme.**

1. Addition of open electives for the BPT course.

- Open electives for the BPT course offered by other departments have been specified and added under the semester tables.

Sl. No	Course Code	Course Name	Modification
1.	21BHMCT19	Food and Beverage etiquette	Added under the first semester table. Exam scheme – IA – 50 marks Credits – 2
2.	21BSW13 (B)	Youth development through social work	Added under the first semester table. Exam scheme – IA – 50 marks Credits – 2

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3.	21BAJ23 (A)	Disaster Management	Added under the second semester table. Exam scheme – IA – 50 marks University exam - 50 marks Credits - 3.
4.	21BCMHN34-E3	Event Management	Added under the second semester table. Exam scheme – IA – 50 marks University exam - 50 marks Credits - 3.
5.	21BAJ03 (A)	Early childhood development	Added under the third semester table. Exam scheme – IA – 50 marks University exam - 50 marks Credits - 3.
6.	21BBAHN14	Personality Development-	Added under the third semester table. Exam scheme – IA – 50 marks University exam - 50 marks Credits – 3
7.	21BHMCT29	Food science and nutrition	Added under the fourth semester table. Exam scheme – IA – 50 marks University exam - 50 marks Credits – 3
8.	21BSW33 (B)	E-Business	Added under the fourth semester table. Exam scheme – IA – 50 marks University exam - 50 marks Credits – 3
9.	21BBAHN44	Personal wealth management	Added under the fourth semester table. Exam scheme – IA – 50 marks University exam - 50 marks Credits – 3

2. Revision of credits and exam scheme of courses from 2nd through 8th semester.

- Since certain courses' exam scheme and credits had to be revised as per the UGC recommendation and changes are as follows.

-Resolution: The members considered the curriculum and syllabus for BPT and discussed different issues. Finally, it was approved and recommended to the Academic Council for further approval.

Sl. No	Course Code	Course Name	Modification
1.	21BPTAECC05	Environmental sciences	Exam scheme IA- 50 marks Credits - 2
2.	21BPTSEC03	Basic nursing and first aid	Exam scheme IA- 50 marks
3.	Second semester total credits revised from 26 to 28		
4.	21BPTDSC07	Pathology and microbiology for physiotherapist	Credits changed from 4 to 3
5.	21BPTSEC05	Basic life support (BLS)	Exam scheme IA- 50 marks

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6.	21BPTSEC07	Professional ethics	Exam scheme IA- 50 marks
7.	Third semester total credits revised from 26 to 28		
8.	21BPTDSC12	Electro physical agents I and II	Credits changed from 6 to 5
9.	Fourth semester total credits revised from 26 to 28		
10.	21BPTSEC09	Mobilizations and manipulations (peripheral and spinal joints)	Credits changed from 2 to 3
11.	21BPTSEC10	Clinical training – I	Exam scheme IA- changed from 50 to 100
12.	21BPTSEC11	Yoga	Credits changed from 2 to 3
13.	Fifth semester total credits revised from 26 to 28		
14.	21BPTDSE02	Women's health for physiotherapists	Credits changed from 3 to 4
15.	21BPTSEC12	Clinical training – II	Exam scheme IA- changed from 50 to 100
16.	Sixth semester total credits revised from 24 to 25		
17.	21BPTDSC21	Evidence based practice in physiotherapy	Exam scheme IA- 50 only Credits – changed from 3 to 2
18.	21BPTDSE03	Electrodiagnosis for physiotherapists	Exam scheme IA- 50 only
19.	21BPTDSE05	Research methodology and biostatistics	Credits changed from 2 to 3
20.	21BPTVOC03	Essentials of orthotics and prosthetics	Exam scheme IA- 50 only
21.	21BPTSEC14	Clinical training – III	Exam scheme IA- changed from 50 to 100
22.	21BPTDSC23	Community based rehabilitation (CBR)	Credits changed from 4 to 5
23.	21BPTDSE08	Research project	Exam scheme IA – 50 Exam – 50 (viva)
24.	21BPTSEC15	Clinical training – IV	Exam scheme IA- changed from 50 to 100
25.	Eighth semester total credits revised from 26 to 27		

The meeting started at 09.00 am and ended at 10:30 am with Thanks to the Chair.

Dr. Rajasekar S
CHAIRPERSON (BOS)

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Srinivas University

College of Social Science and Humanities

From,

Dr. Laveena D'Mello
Dean,
College of Social Sciences and Humanities,
Srinivas University, City Campus,
Pandeshwar, Mangaluru- 575001.

To,

Dr. Meena Montheiro,
Dean, Research Council,
School of Social Work,
Roshni Nilaya, Mangaluru- 575001.

Sub: To participate in BOS meeting of CSSH.

Greetings from College of Social Sciences and Humanities!
We would like to request you to participate in our Board of Studies meeting which will be conducted on **March 8th Monday 2021 at 10.30** am at room no 6, at College of Social Sciences, Srinivas University. Kindly find the attached agenda below.

Agenda

1. To approve the MSW Syllabus with changes made for the academic year 2021.
2. To Approve the new Course
3. Identifying the subjects.
4. Value added courses
5. The syllabus
6. Rules and regulation
7. Academic calendar and exams
8. Internal and External Paper setters
9. Valuation
10. Any other matter

Your participation will be highly appreciable.

Thanking you.

Yours Sincerely,

08/03/2021

Dr. Laveena D'Mello

REGISTRAR
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SRINIVAS NAGAR MUKKA SURATHKAL 574 146 MANGALORE

Srinivas University

College of Social Science and Humanities

From,

Dr. Laveena D'Mello
Dean,
College of Social Sciences and Humanities,
Srinivas University, City Campus,
Pandeshwar, Mangaluru- 575001.

To,

Dr. Swetha K.T.
Director, Anirveda, Pump well
Mangaluru- 575002.

Sub: To participate in BOS meeting of CSSH.

Greetings from College of Social Sciences and Humanities!

We would like to request you to participate in our Board of Studies meeting which will be conducted on **March 8th Monday 2021 at 10.30** am at room no 6, at College of Social Sciences, Srinivas University. Kindly find the attached agenda below.

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8. Internal and External Paper setters
9. Valuation
10. Any other matter

Your participation will be highly appreciable.

Thanking you.

Yours Sincerely,

09/03/2021

Dr. Laveena D'Mello

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MUKKA
SURATHKAL
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MANGALORE

Srinivas University

College of Social Science and Humanities

From,

Dr. Laveena D'Mello
Dean, College of Social Sciences and Humanities,
Srinivas University, City Campus,
Pandeshwar, Mangaluru- 575001.

To,

Dr. Vidya
Assistant Professor,
College of Social Sciences and Humanities,
Srinivas University, City Campus,
Pandeshwar, Mangaluru- 575001.

Sub: To participate in BOS meeting of CSSH.

Greetings from College of Social Sciences and Humanities!

We would like to request you to participate in our Board of Studies meeting which will be conducted on **March 8th Monday 2021 at 10.3**0 am at room no 6, at College of Social Sciences, Srinivas University. Kindly find the attached agenda below.

Agenda

1. To approve the MSW Syllabus with changes made for the academic year 2021.
2. To Approve the new Course
3. Identifying the subjects.
4. Value added courses
5. The syllabus
6. Rules and regulation
7. Academic calendar and exams
8. Internal and External Paper setters
9. Valuation
10. Any other matter

Your participation will be highly appreciable.

Thanking you.

Yours Sincerely,

Dr. Laveena D'Mello 08/03/2021

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Srinivas University

College of Social Science and Humanities

From,

Dr. Laveena D'Mello
Dean, College of Social Sciences and Humanities,
Srinivas University, City Campus,
Pandeshwar, Mangaluru- 575001.

To,

Prof. Pradeep M.D.
Assistant Professor,
College of Social Sciences and Humanities,
Srinivas University, City Campus,
Pandeshwar, Mangaluru- 575001.

Sub: To participate in BOS meeting of CSSH.

Greetings from College of Social Sciences and Humanities!

We would like to request you to participate in our Board of Studies meeting which will be conducted on **March 8th Monday 2021 at 10.30** am at room no 6, at College of Social Sciences, Srinivas University. Kindly find the attached agenda below.

Agenda

1. To approve the MSW Syllabus with changes made for the academic year 2021.
2. To Approve the new Course
3. Identifying the subjects.
4. Value added courses
5. The syllabus
6. Rules and regulation
7. Academic calendar and exams
8. Internal and External Paper setters
9. Valuation
10. Any other matter

Your participation will be highly appreciable.

Thanking you.

Yours Sincerely,

08/03/2021

Dr. Laveena D'Mello

REGISTRAR
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Srinivas University

College of Social Science and Humanities

From,

Dr. Laveena D'Mello
Dean, College of Social Sciences and Humanities,
Srinivas University, City Campus,
Pandeshwar, Mangaluru- 575001.

To,
Mr. Gururaj
Research Scholar
College of Social Sciences and Humanities,
Srinivas University, City Campus,
Pandeshwar, Mangaluru- 575001.

Sub: To participate in BOS meeting of CSSH.

Greetings from College of Social Sciences and Humanities!

We would like to request you to participate in our Board of Studies meeting which will be conducted on **March 8th Monday 2021 at 10.30** am at room no 6, at College of Social Sciences, Srinivas University. Kindly find the attached agenda below.

Agenda

1. To approve the MSW Syllabus with changes made for the academic year 2021.
2. To Approve the new Course
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4. Value added courses
5. The syllabus
6. Rules and regulation
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9. Valuation
10. Any other matter

Your participation will be highly appreciable.

Thanking you.

Yours Sincerely,

08/03/2021

Dr. Laveena D'Mello

DEAN
Institute of Social Sciences & Humanities

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Srinivas University

College of Social Science and Humanities

The report of the Board of Studies of BSW course was conducted on **March 8th Monday 2021 at 10.30** am at room no 6, at College of Social Sciences, Srinivas University.

The following members were present for the meeting

1. Dr. Laveena D'Mello
2. Mr. Pradeep M.D.
3. Dr. Vidaya
4. Mr. Gururaj
5. Dr. Meena Monthiero
6. Dr. Shwetha K.T.

During the meeting the introduction of the course was done by the dean of the college Dr. Laveena D'Mello for the committee. And many issues related to new syllabus was discussed. The following resolutions were taken.

1. **To approve the MSW Syllabus with changes made for the academic year 2021**: There were changes made in the syllabus by changing the units and topics inside the subjects. Course objectives modified and course outcome and pedagogy were added in the syllabus. Committee members were provided the syllabus well in advance to go through before the meeting. And same was briefed during the meeting. Minor modifications were made and same have been approved in the meeting.

   Resolution: The changes which are made in the content of the syllabus were highlighted and same have been approved in the meeting. Also, the course objectives, course outcome, and Pedagogy have been approved in the meeting.
2. **To approve the new Course**: First and foremost, the new course was approved. Since we have MSW PG course wanted to introduce UG this year with all the members approved the same.

   Resolution: Resolution taken and permission granted in the BOS committee.

3. **Identifying the subjects:** The subjects were introduced and same was discussed and approved

Course Structure : SEMESTER 1			SEMESTER 2		
SN	**Subject**	**Mks**	**SN**	**Subject**	**Mks**
1	Fundamentals of Communication	100	1	Business Communication	100
2	Introduction to social work	100	2	Scope of social work	100

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3	Social Science perspective for social work	100	3	Work with Individuals and Family	100
4	Economic Concepts of Social Work	100	4	Human Growth and Development	100
5	Indian Constitution & Environmental Studies	100	5	Indian Legal System	100
6	Social Work Practicum-I	100	6	Social Work Practicum-II	100
7	Communication Skill Assessment Programme	50	7	Skill Assessment and language proficiency	50
8	Seminar and Group presentation	50	8	Seminar and Group presentation	50
		700			**700**
SEMESTER 3			**SEMESTER 4**		
1	Social Intervention with groups and individuals	100	1	Work with communities	100
2	Social Problems in India	100	2	Social Case Work	100
3	Introduction to Family Education	100	3	Management of developmental and welfare services	100
4	Introduction to Rural, Urban and Tribal communities	100	4	Social Welfare Administration	100
5	Organizational Behaviour	100	5	Stress Management	100
6	Social Work Practicum-III	100	6	Social Work Practicum-IV	100
7	Employability Skills Programme	50	7	Fundamentals of Computer Skills	50
8	Seminar and Group presentation	50	8	Seminar and Group presentation	50
		700			**700**
SEMESTER 5			**SEMESTER 6**		
1	Social Movements and Social Action	100	1	Social Policy and Planning	100
2	Social Work Research	100	2	Child Protection and child rights	100
3	Human Growth & Development	100	3	Community Development	100
4	Women Empowerment	100	4	Social Change and Development	100
5	Social Work and Health care	100	5	Social Work Practicum-VI	100
6	Social Policy, Planning, and Development	100	6	Project Work (Field)	200
7	Social Work Practicum-V	100			
		700			**700**

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Resolution: Resolution taken and subjects semester wise approved.

4. **Value added courses:** Regarding value added courses were added in the syllabus. Same were discussed.

Resolution: Resolution taken by adding value added courses in the syllabus and permission granted in the BOS committee.

5. **The syllabus**: Syllabus was disused orally. And it was suggested to do some changes in the individual subject unites. Same was noted down and will be done correction.

   Resolution: Resolution was taken and syllabus was approved.

6. **Rules and regulation** : Rules and regulation and examination, credit system everything was discussed and finalized

Resolution: Resolution taken and rules and regulations were finalized in permission granted in the BOS committee.

7. **Academic calendar and exams:** Academic calendar was proposed. But not finalized due to the examination of the lower classes and due to corona. The uncertainty of the classes it was not finalized, but discussion done on this.

8. **Internal and External Paper setters**: The list of the internal and external paper setters were identified and same was put-up in the meetings. The additional external members were added and the list was finalized.

Resolution: Resolution taken on the examiner internal and external paper setters and final list of the BOE committee members was approved. During the meeting. The members are as following members.

B.S.W. Programme

Board of Studies (BOE) – 2021

Sl. No.	Name	Designation	Qualification	Status
1	Dr. Laveena D'Mello	Assistant Professor	B.A., M.S.W., M.Phil, Ph.D. 17 years teaching experience	Chair person
2	Mr. Pradeep M.D.	Assistant Professor	M.S.W., M.A., L.L.B., L.L.M., PGDM	Member

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			(Ph.D. doing) 11 years teaching experience	
3	Dr. Vidya	Part Time	M.S.W., Ph.D. 06 years teaching experience	Member
4	Mr. Gururaj	Part - time	M.S.W.,(Ph.D.) 4 years teaching experience	Member
6	Dr. Meena Monthiero	External	M.S.W., Ph.D. 19 years teaching experience	External Member
7.	Indu Nair	Part time	M.S.W. M.S.W.,(Ph.D.) 6 years teaching experience	Member
8.	Anusuya Kamath	External	M.S.W.,(Ph.D.) 10 years teaching experience	External Member
9.	Anuradha Shetty	External	M.S.W., (Ph.D.) 11 years teaching experience	External Member
10.	Veena B.K	External	M.S.W., (Ph.D.) 10 years teaching experience	External Member

9. **Valuation**: Valuation process was also discussed during the meeting. The two separate valuation done at university and if there is variation in the marks the maximum marks can be considered. Review is also done. And if there is more than 20% difference then the third valuation is considered. And all these process is done by the controller of evaluation and his direction.

Any other matter: After the general discussion about the admissions and the process of admission, and it is challenging to get students for the course it may be difficult but not impossible. All have to work in hand in hand, so that the course can be conducted successfully. The meeting was ended at 3.00 pm with formal vote of thanks by the chair person Dr. Laveena D.Mello.

Date: 08/03/2021

Place: Mangalore

08/03/2021

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Srinivas University

College of Social Science and Humanities

The report of the Board of Studies of BSW course was conducted on **March 8th Monday 2021 at 10.30 am** in Room no 6, at College of Social Sciences, Srinivas University.

The following members were present for the meeting

1. Dr. Laveena D'Mello
2. Mr. Pradeep M.D.
3. Dr. Vidya
4. Mr. Gururaj
5. Dr. Meena Monthiero
6. Dr. Shwetha K.T.

During the meeting the introduction of the course was done by the dean of the college Dr. Laveena D'Mello for the committee. And many issues related to new syllabus was discussed. The following resolutions were taken.

1. **To approve the new Course**: First and foremost the new course was approved. Since we have MSW PG course wanted to introduce UG this year with all the members approved the same.

   Resolution: Resolution taken and permission granted in the BOS committee.

2. **Identifying the subjects:** The subjects were introduced and same was discussed and approved

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Course Structure : SEMESTER 1			SEMESTER 2		
SN	**Subject**	**Mks**	**SN**	**Subject**	**Mks**
1	Fundamentals of Communication	100	1	Business Communication	100
2	Introduction to social work	100	2	Scope of social work	100
3	Social Science perspective for social work	100	3	Work with Individuals and Family	100
4	Economic Concepts of Social Work	100	4	Human Growth and Development	100
5	Indian Constitution & Environmental Studies	100	5	Indian Legal System	100
6	Social Work Practicum-I	100	6	Social Work Practicum-II	100
7	Communication Skill Assessment Programme	50	7	Skill Assessment and language proficiency	50
8	Seminar and Group presentation	50	8	Seminar and Group presentation	50
		700			**700**
SEMESTER 3			**SEMESTER 4**		
1	Social Intervention with groups and individuals	100	1	Work with communities	100
2	Social Problems in India	100	2	Social Case Work	100
3	Introduction to Family Education	100	3	Management of developmental and welfare services	100
4	Introduction to Rural, Urban and Tribal communities	100	4	Social Welfare Administration	100
5	Organizational Behaviour	100	5	Stress Management	100
6	Social Work Practicum-III	100	6	Social Work Practicum-IV	100
7	Employability Skills Programme	50	7	Fundamentals of Computer Skills	50
8	Seminar and Group presentation	50	8	Seminar and Group presentation	50
		700			**700**

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SEMESTER 5			SEMESTER 6		
1	Social Movements and Social Action	100	1	Social Policy and Planning	100
2	Social Work Research	100	2	Child Protection and child rights	100
3	Human Growth & Development	100	3	Community Development	100
4	Women Empowerment	100	4	Social Change and Development	100
5	Social Work and Health care	100	5	Social Work Practicum-VI	100
6	Social Policy, Planning, and Development	100	6	Project Work (Field)	200
7	Social Work Practicum-V	100			
		700			**700**

Resolution: Resolution taken and subjects semester wise approved.

1. **Value added courses:** Regarding value added courses were added in the syllabus. Same were discussed.

Resolution: Resolution taken by adding value added courses in the syllabus and permission granted in the BOS committee.

2. **The syllabus**: Syllabus was disused orally. And it was suggested to do some changes in the individual subject unites. Same was noted down and will be done correction.
   Resolution: Resolution was taken and syllabus was approved.

3. **Rules and regulation** : Rules and regulation and examination, credit system everything was discussed and finalized

Resolution: Resolution taken and rules and regulations were finalized in permission granted in the BOS committee.

4. **Academic calendar and exams:** Academic calendar was proposed. But not finalized due to the examination of the lower classes and due to corona. The uncertainty of the classes it was not finalized, but discussion done on this.

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5. **Internal and External Paper setters**: The list of the internal and external paper setters were identified and same was put-up in the meetings. The additional external members were added and the list was finalized.

Resolution: Resolution taken on the examiner internal and external paper setters and final list of the BOE committee members was approved. During the meeting. The members are as following members.

B.S.W. Programme

Board of Studies (BOE) – 2021

Sl. No.	Name	Designation	Qualification	Status
1	Dr. Laveena D'Mello	Assistant Professor	B.A., M.S.W., M.Phil, Ph.D. 17 years teaching experience	Chair person
2	Mr. Pradeep M.D.	Assistant Professor	M.S.W., M.A., L.L.B., L.L.M., PGDM (Ph.D. doing) 11 years teaching experience	Member
3	Dr. Vidya	Part Time	M.S.W., Ph.D. 06 years teaching experience	Member
4	Mr. Gururaj	Part - time	M.S.W.,(Ph.D.) 4 years teaching experience	Member
6	Dr. Meena Monthiero	External	M.S.W., Ph.D. 19 years teaching experience	External Member
7.	Indu Nair	Part time	M.S.W. M.S.W.,(Ph.D.) 6 years teaching experience	Member

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College of Social Science and Humanities

From,

Dr. Laveena D'Mello
Dean and Professor,
College of Social Sciences and Humanities,
Srinivas University, City Campus,
Pandeshwar, Mangaluru- 575001.

To,

Prof. Sachin
University College
Mangalore University,
Mangaluru- 575001.

Sub: To participate in BOS meeting of CSSH- Course BA Journalism and Mass Communication

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Greetings from College of Social Sciences and Humanities!

We would like to request you to participate in our Board of Studies meeting which will be conducted **on February 2nd, Wednesday 2022 at 2.30 p.m**. at room no 4, at College of Social Sciences, Srinivas University. Kindly find the attached agenda below.

Agenda

1. To Approve the BA Journalism and Mass Communication course pattern
2. Identifying the subjects.
3. Value added courses
4. The syllabus as per NEP
5. Rules and regulation
6. Internal and External Paper setters
7. Valuation
8. Any other matter

Your participation will be highly appreciable. Please present on time. The rules and regulations which we have planned are attached with this letter. The new syllabus as Per NEP is prepared. Kindly go through it and note if any chances are require. So that we can discuss and approve during the meeting. Hope you will actively participate in the meeting.

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8.	Anusuya Kamath	External	M.S.W.,(Ph.D.) 10 years teaching experience	External Member
9.	Anuradha Shetty	External	M.S.W., (Ph.D.) 11 years teaching experience	External Member
10.	Veena B.K	External	M.S.W., (Ph.D.) 10 years teaching experience	External Member

6. **Valuation**: Valuation process was also discussed during the meeting. The two separate valuation done at university and if there is variation in the marks the maximum marks can be considered. Review is also done. And if there is more than 20% difference then the third valuation is considered. And all these process is done by the controller of evaluation and his direction.

Any other matter: After the general discussion about the admissions and the process of admission, and it is challenging to get students for the course it may be difficult but not impossible. All have to work in hand in hand, so that the course can be conducted successfully. The meeting was ended at 3.00 pm with formal vote of thanks by the chair person Dr. Laveena D'Mello.

Date: 08/03/2021

Place: Mangalore

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Thanking you.

Yours Sincerely,

Dr. LaveenaD'Mello
Dean& Professor,
College of Social Sciences and Humanities,
Srinivas University, City Campus,
Pandeshwar, Mangaluru- 575001.

Date: 24th January, 2022
Place: Mangalore

Copy of the letter to;

1. Prof. Shushmitha
2. Dr. Pradeep M.D.
3. Dr. Vidya N
4. Ms. Ashwini
5. Ms. Sharanya
6. Prof. Sachin

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E-mail: info@srinivasgroup.com Website: www.srinivasuniversity.edu.in

College of Social Science and Humanities

The report of the Board of Studies of BA Journalism and Mass Communication course was conducted on **February 2nd, Wednesday 2022 at 2.30 p.m** at room no 4, at College of Social Sciences, Srinivas University.

The following members were present for the meeting

Sl.No.	Name	Designation	Signature
1.	Dr. Laveena D'Mello	Chairperson	
2.	Prof. Shushmitha	Internal Member	
3.	Dr. Pradeep M.D.	Internal Member	
4.	Dr. Vidya N.	Internal Member	
5.	Ms. Ashwini	External Member	
6.	Ms. Sharanya	External Member	
7.	Prof. Sachin	External Member	

During the meeting the introduction of the course was done by the dean of the college Dr. Laveena D'Mello for the committee. And many issues related to new syllabus was discussed. The following resolutions were also taken. Meeting was conducted as per the Agenda.

Agenda

1. To Approve the BA Journalism and Mass Communication course pattern
2. Identifying the subjects.
3. Value added courses
4. The syllabus as per NEP
5. Rules and regulation

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6. Internal and External Paper setters
7. Valuation
8. Any other matter

1. **To approve the new Course**: First and foremost the new course to approve the BA Journalism and Mass Communication course pattern as per NEP. As Per NEP, the first year as Certificate course, Second year Diploma, third year Degree and fourth year Honors and fifth year Master degree. Syllabus and subjects were identified and the whole course was planned accordingly. The syllabus was shared with the committee well in advance and discussion was started. And following resolution were taken.

   Resolutions:

   i. The number of credits- 04 Approved.
   ii. Number of Lecture hours- 40 Hours Approved.
   iii. Mode of Delivery- Classroom mode/ Blended mode/Online Mode/Campus Networking Based was approved.
   iv. Course objectives- Approved.
   v. Teaching learning process and Padagogy – Lecture, Assignments, Individual and group presentations were Approved.
   vi. Learning Outcome- Approved.
   vii. Course Evaluation- Approved.
   viii. Title -Corrections made and approved.
   ix. Course Code- Approved.
   x. Unit wise division – (Five units each) and course contents- scrutiny done and approved.
   xi. Books for Reference- End of each subject's books were suggested in the syllabus and those were approved.

So complete three years syllabus was brought to the notice of the board and subject for four years were identified and resolutions were made and approved by the BOS members.

2. **Identifying the subjects**: The various university syllabus was studied and relevant subjects were identified so that there will not be any overlapping of the subjects for Integrated Masters course.

   Resolutions: All subjects were studied thoroughly and same was accepted by the BOS. The list of the subject is given below

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SEMESTER I:

(Scheme attachment 1A)

3. **Value added courses:** Value added courses were identified in every semester and same was highlighted in the syllabus.

   Resolution: All value added courses semester wise were approved during the meetings

4. The syllabus as per NEP: The new syllabus was drafted as per NEP including all value added courses, languages, and mode of delivery all was approved.

   Resolution: Committee approved the complete syllabus of four years during the meeting.

5. Rules and regulation: There were changes in the rules and regulations as per NEP. Course Regulation Handbook of BSW course with programme outcomes (PO's) Programme Specific Outcomes (PSOs) and Course Outcomes (Cos) of the Programmes were shared.

   Resolution: Resolution was passed and approved all course with programme outcomes (PO's) Programme Specific Outcomes (PSOs) and Course Outcomes (Cos) of the BSW Programmes.

6. **Internal and External Paper setters:** The list of the internal and external paper setters list was proposed during the meeting. The list of the identified BOE members will inform and take their consent by issuing the consent form.
   Resolution: the list of the members was approved and asked to take their consent.

7. **Internal Assessment**: Outline for continuous assessment activities was shared and the patter was given.

Resolution: the outline approved in the BOS was as follows;

Activities	C1	C2	TotalMarks
SessionTest	10%	10%	20%
Seminars/Presentations/Activity	10%		10%
Casestudy/Assignment/Projectworketc.		10%	10%
Attendance		10%	10%
Total	20%m	30%mar	50%

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	arks	ks	

At the end of each semester, examinations will be conducted for all the papers to be covered in that semester and evaluation will be done for 50 marks each. The timings of the examination will be followed as per academic calendar.

8. Pattern of Question Paper in End Semester Examination:

The question paper pattern in each Semester Exam for 50 marks consists of Objective type questions 6 questions all to answer (6 marks),Very short answer three questions out of four questions (6 marks) Seven marks questions 4 out of 5 questions (28 marks) , and one long essay of 10 marks out of two (10 marks).

No.ofQuestion	Type	Question/Mark	Total
6 out of 6	Objective type	6 x 1 = 06	06
3 out of 4	Very short	3 x 2= 06	06
4 out of 5	Short essay	4 x 7 = 28	28
1 out of 2	Long essay	1 x 10 =10	10
Total Semester Marks			**50**

9. **Any other matter**: After the general discussion about the NEP and the process of implementation it was decided to implement syllabus as per NEP. All have to work in hand in hand with other departments in providing the choice base subjects, so that students will benefit maximum. The meeting was ended at 6.00 pm with formal vote of thanks by the chair person Dr. Laveena DMello.

Semester wise Subjects details

SEMESTER I: Bachelor of Arts (BA Journalism and Mass Communication)

SN	Code	Title of Course	Teaching hours				Practical sessions/Self/Study (S)	Exam			Credits
			Lecture(L)	Tutorial	Practical (P)	Total Hrs		Internal	External	Total	
1	**21BAJ01**	Fundamentals of Journalism (DSC)	40	-	-	40	-	50	50	100	4
2	**21BAJ02**	Reporting (DSC)	40	-	-	40	-	50	50	100	4
3	**21BAJ03 (A)**	Open Elective-1 (OE) Early Childhood Development	40	-	-	40	-	50	50	100	4
	21BAJ03 (B)	Open Elective-2 (OE) Principles of Management									
4	**21BAJ04**	Field Practicum – I Media Visit (DSC)	-	8	32	40	-	50	50	100	4
5	**21BAJ05**	Fundamentals of Communication I (E) (AECC)	40	-	-	40	-	50	50	100	3
6	**21BAJ06**	Kannada I (AECC)	40	-	-	40	-	50	50	100	3

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	K										
	21BAJ06H	Hindi I (AECC)									
	21BAJ06M	Malayalam I (AECC)									
	21BAJ06O	Online Mode I (AECC)									
7	**21BAJ07**	Digital Proficiency I (SEC)	-			20	-	50	-	50	2
8	**21BAJ08**	Health & Wellness (SEC)	20			20	-	50	-	50	2
9	**21BAJ09**	Basics of Nutrition (SEC)	20			20	-	50	-	50	2
10	**21BAJ10**	CommunicativeKannada	-	-	-	-	20	-	-	-	-
		Total				**300**				**750**	**28**

*DSC- Discipline *DSC- Discipline Elective *OE -open Elective *SEC – Skilled Enhancement CoursesAECC- Ability Enhancement Compulsory Course

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SEMESTER II: Bachelor of Arts (BA Journalism and Mass Communication)

Sl. No.	Code	Title of Course	Teaching hours				Practical sessions/Self/	Exam			Credits
			Lecture(L)	Tutorial	Practical (P)	Total Hrs	Study (S)	Internal	External	Total	
1	**21BAJ11**	Editing (DSC)	40	-	-	40	-	50	50	100	4
2	**21BAJ12**	Radio Broadcasting	40	-	-	40	-	50	50	100	4
3	**21BAJ13 (A)**	Open Elective-1 (OE) Human Resource Management	40	-	-	40	-	50	50	100	4
	21BAJ13 (B)	Open Elective-2 (OE) Youth Development through Social Work									
4	**21BAJ14**	Field Practicum – II Event Reporting (DSC)	-	8	32	40	-	50	50	100	4
5	**21BAJ15**	Fundamentals of Communication II (E) (AECC)	40	-	-	40	-	50	50	100	3
6	**21BAJ16 K**	Kannada II (AECC)	40	-	-	40	-	50	50	100	3
	21BAJ16 H	Hindi II (AECC)									
	21BAJ16 M	Malayalam II (AECC)									
	21BAJ16 O	Online Mode II (AECC)									
7	**21BAJ17**	Digital Proficiency II (SEC)	-			20	-	50	-	50	2
8	**21BAJ18**	NSS (SEC)	20			20	-	50	-	50	2
9	**21BAJ19**	Life Skills (SEC)	20			20	-	50	-	50	2
10	**21BAJ20**	CommunicativeKannada	-	-	-	-	20	-	-	-	-
		Total				**320**				**750**	**28**

*DSC- Discipline *DSC- Discipline Elective *OE -open Elective *SEC – Skilled Enhancement CoursesAECC- Ability Enhancement Compulsory Course

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SEMESTER III: Bachelor of Arts (BA Journalism and Mass Communication)

Sl. No.	Code	Title of Course	Teaching hours				Practical sessions/Self/ Study (S)	Exam			Credits
			Lecture(L)	Tutorial	Practical (P)	Total Hrs		Internal	External	Total	
1	**21BAJ21**	Print Journalism (DSC)	40	-	-	40	-	50	50	100	4
2	**21BAJ22**	Advertisement (DSC)	40	-	-	40	-	50	50	100	4
3	**21BAJ23 (A)**	Open Elective-1 (OE)Disaster Management	40	-	-	40	-	50	50	100	4
	21BAJ23 (B)	Open Elective-2 (OE) Management Information system									
4	**21BAJ24**	Field Practicum – III Media Advertisement (DSC)	-	8	32	40	-	50	50	100	4
5	**21BAJ25**	Functional English-I (E) (AECC)	40	-	-	40	-	50	50	100	3
6	**21BAJ26 K**	Kannada III (AECC)	40	-	-	40	-	50	50	100	3
	21BAJ26 H	Hindi III (AECC)									
	21BAJ26 M	Malayalam III (AECC)									
	21BAJ26 O	Online Mode III (AECC)									
7	**21BAJ27**	Cyber Crime and Security (SEC)	-			20	-	50	-	50	2
8	**21BAJ28**	Games (SEC)	20			20	-	50	-	50	2
9	**21BAJ29**	Waste Management (SEC)	20			20	-	50	-	50	2
10	**21BAJ30**	CommunicativeKannada	-	-	-	-	20	-	-	-	-
		Total					**320**			**750**	**28**

*DSC- Discipline *DSC- Discipline Elective *OE -open Elective *SEC – Skilled Enhancement CoursesAECC- Ability Enhancement Compulsory Course

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SEMESTER IV: Bachelor of Arts (BA Journalism and Mass Communication)

Sl. No.	Code	Title of Course	Teaching hours				Practical sessions/Self/ Study (S)	Exam			Credits
			Lecture(L)	Tutorial	Practical (P)	Total Hrs		Internal	External	Total	
1	**21BAJ31**	Electronic Journalism (DSC)	40	-	-	40	-	50	50	100	4
2	**21BAJ32**	New Media Technology (DSC)	40	-	-	40	-	50	50	100	4
3	**21BAJ33 (A)**	Open Elective-1 (OE) Social Work Research	40	-	-	40	-	50	50	100	4
	21BAJ33 (B)	Open Elective-2 (OE)E- Business									
4	**21BAJ34**	Field Practicum – IVAnchoring (DSC)	-	8	32	40	-	50	50	100	4
5	**21BAJ35**	Functional English-II (E) (AECC)	40	-	-	40	-	50	50	100	3
6	**21BAJ36 K**	Kannada IV (AECC)	40	-	-	40	-	50	50	100	3
	21BAJ36 H	Hindi IV (AECC)									
	21BAJ36 M	Malayalam IV (AECC)									
	21BAJ36 O	Online Mode IV (AECC)									
7	**21BAJ37**	Entrepreneurship Start up (SEC)	-			20	-	50	-	50	2
8	**21BAJ38**	Yoga (SEC)	20			20	-	50	-	50	2
9	**21BAJ39**	Indian Constitution (SEC)	20			20	-	50	-	50	2
10	**21BAJ40**	CommunicativeKannada	-	-	-	-	20	-	-	-	-
		Total					**320**			**750**	**28**

*DSC- Discipline *DSC- Discipline Elective *OE -open Elective *SEC – Skilled Enhancement CoursesAECC- Ability Enhancement Compulsory Course

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MANGALORE

SEMESTER V: Bachelor of Arts (BA Journalism and Mass Communication)

Sl. No.	Code	Title of Course	Teaching hours				Practical sessions/Self/	Exam			Credits
			Lecture(L)	Tutorial	Practical (P)	Total Hrs	Study (S)	Internal	External	Total	
1	**21BAJ41**	Public Relation (DSC)	40	-	-	40	-	50	50	100	4
2	**21BAJ42**	Film Production (DSC)	40	-	-	40	-	50	50	100	4
3	**21BAJ43 (A)**	Open Elective-1 (OE)Health care	40	-	-	40	-	50	50	100	4
	21BAJ43 (B)	Open Elective-2 (OE) Entrepreneur ship Development									
4	**21BAJ44**	Field Practicum – V Documentary film (DSC)	-	8	32	40	-	50	50	100	4
5	**21BAJ45**	Auditing techniques (AECC)	40	-	-	40	-	50	50	100	3
6	**21BAJ46**	Excel and SPSS	40	-	-	40	-	50	50	100	3
7	**21BAJ47**	Television Production (SEC)	-			20	-	50	-	50	2
8	**21BAJ48**	Music/Dance (SEC)	20			20	-	50	-	50	2
9	**21BAJ49**	Street Play (SEC)	20			20	-	50	-	50	2
		Total					**300**			**750**	**28**

*DSC- Discipline *DSC- Discipline Elective *OE -open Elective *SEC – Skilled Enhancement CoursesAECC- Ability Enhancement Compulsory Course

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SEMESTER VI: Bachelor of Arts (BA Journalism and Mass Communication)

Sl. No.	Code	Title of Course	Teaching hours				Practical sessions/Self/Study (S)	Exam			Credits
			Lecture (L)	Tutorial	Practical (P)	Total Hrs		Internal	External	Total	
1	21BAJ51	Internship & Dissertation to producea News Magazine & Viva-Voce (SEC)	-	8	320	320	-	Internal Assessment Field practicum + Project 150 +150 = 300	External Assessment Field practicum + Project 150 +150 = 300 Viva-Voce exam = **150**	750	28

SEMESTER VII: Bachelor of Arts (BA Journalism and Mass Communication)

Sl. No.	Code	Title of Course	Teaching hours				Practical sessions/Self/ Study (S)	Exam			Credits
			Lecture (L)	Tutorial	Practical(P)	Total Hrs		Internal	External	Total	
1	21BAJ61	Communication Research Methods and Application (DSC)	40	-		40	-	50	50	100	4
2	21BAJ62	Media Law and Ethics (DSC)	40	-		40	-	50	50	100	4
3	21BAJ63	Magazine and Photo Journalism(DSC)	40	-		40	-	50	50	100	4
4	21BAJ64	Project – TV & Radio			200 HRS	200 HRS		350	100	450	16

EMESTER VIII: Bachelor of Arts (BA Journalism and Mass Communication)

Sl. No.	Code	Title of Course	Teaching hours				Practical sessions/Self/ Study (S)	Exam			Credits
			Lecture(L)	Tutorial	Practical(P)	Total Hrs		Internal	External	Total	
1	21BAJ71	Development Communication (DSC)	40	-		40	-	50	50	100	4
2	21BAJ72	Marketing Communication (DSC)	40	-		40	-	50	50	100	4
3	21BAJ73	Case Studies (DSC)	40	-		40	-	50	50	100	4
4	21BAJ74	Dissertation			200 HRS	200 HRS		350	100	450	16

Date:02/02/2022

Place: Mangalore

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R.19 Semester wise Subjects details

SEMESTER I: Bachelor of Arts (BA Journalism and Mass Communication)

Sl. No.	Code	Title of Course	Teaching hours				Practical sessions/Self/ Study (S)	Exam			Credits
			Lecture (L)	Tutorial	Practical (P)	Total Hrs		Internal	External	Total	
1	**21BAJ01**	Fundamentals of Journalism (DSC)	40	-	-	40	-	50	50	100	4
2	**21BAJ02**	Reporting (DSC)	40	-	-	40	-	50	50	100	4
3	**21BAJ03 (A)**	Open Elective-1 (OE) Early Childhood Development	40	-	-	40	-	50	50	100	4
	21BAJ03 (B)	Open Elective-2 (OE) Principles of Management									
4	**21BAJ04**	Field Practicum – I Media Visit (DSC)	-	8	32	40	-	50	50	100	4
5	**21BAJ05**	Fundamentals of Communication I (E) (AECC)	40	-	-	40	-	50	50	100	3
6	**21BAJ06 K**	Kannada I (AECC)	40	-	-	40	-	50	50	100	3
	21BAJ06 H	Hindi I (AECC)									
	21BAJ06 M	Malayalam I (AECC)									
	21BAJ06 O	Online Mode I (AECC)									
7	**21BAJ07**	Digital Proficiency I (SEC)	-			20	-	50	-	50	2
8	**21BAJ08**	Health & Wellness (SEC)	20			20	-	50	-	50	2
9	**21BAJ09**	Basics of Nutrition (SEC)	20			20	-	50	-	50	2
10	**21BAJ10**	CommunicativeKannada	-	-	-	-	20	-	-	-	-
		Total				**300**				**750**	**28**

*DSC- Discipline *DSC- Discipline Elective *OE -open Elective *SEC – Skilled Enhancement Courses

AECC- Ability Enhancement Compulsory Course

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SEMESTER II: Bachelor of Arts (BA Journalism and Mass Communication)

Sl. No.	Code	Title of Course	Teaching hours				Practical sessions/Self/ Study (S)	Exam			Credits
			Lecture (L)	Tutorial	Practical (P)	Total Hrs		Internal	External	Total	
1	**21BAJ11**	Editing (DSC)	40	-	-	40	-	50	50	100	4
2	**21BAJ12**	Radio Broadcasting	40	-	-	40	-	50	50	100	4
3	**21BAJ13 (A)**	Open Elective-1 (OE) Human Resource Management	40	-	-	40	-	50	50	100	4
	21BAJ13 (B)	Open Elective-2 (OE) Youth Development through Social Work									
4	**21BAJ14**	Field Practicum – II Event Reporting (DSC)	-	8	32	40	-	50	50	100	4
5	**21BAJ15**	Fundamentals of Communication II (E) (AECC)	40	-	-	40	-	50	50	100	3
6	**21BAJ16 K**	Kannada II (AECC)	40	-	-	40	-	50	50	100	3
	21BAJ16 H	Hindi II (AECC)									
	21BAJ16 M	Malayalam II (AECC)									
	21BAJ16 O	Online Mode II (AECC)									
7	**21BAJ17**	Digital Proficiency II (SEC)	-			20	-	50	-	50	2
8	**21BAJ18**	NSS (SEC)	20			20	-	50	-	50	2
9	**21BAJ19**	Life Skills (SEC)	20			20	-	50	-	50	2
10	**21BAJ20**	CommunicativeKannada	-	-	-	-	20	-	-	-	-
		Total					**320**			**750**	**28**

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AECC- Ability Enhancement Compulsory Course

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SEMESTER III: Bachelor of Arts (BA Journalism and Mass Communication)

Sl. No.	Code	Title of Course	Teaching hours				Practical sessions/Self/ Study (S)	Exam			Credits
			Lecture (L)	Tutorial	Practical (P)	Total Hrs		Internal	External	Total	
1	**21BAJ21**	Print Journalism (DSC)	40	-	-	40	-	50	50	100	4
2	**21BAJ22**	Advertisement (DSC)	40	-	-	40	-	50	50	100	4
3	**21BAJ23 (A)**	Open Elective-1 (OE) Disaster Management	40	-	-	40	-	50	50	100	4
	21BAJ23 (B)	Open Elective-2 (OE) Management Information system									
4	**21BAJ24**	Field Practicum – III Media Advertisement (DSC)	-	8	32	40	-	50	50	100	4
5	**21BAJ25**	Functional English-I (E) (AECC)	40	-	-	40	-	50	50	100	3
6	**21BAJ26 K**	Kannada III (AECC)	40	-	-	40	-	50	50	100	3
	21BAJ26 H	Hindi III (AECC)									
	21BAJ26 M	Malayalam III (AECC)									
	21BAJ26 O	Online Mode III (AECC)									
7	**21BAJ27**	Cyber Crime and Security (SEC)	-			20	-	50	-	50	2
8	**21BAJ28**	Games (SEC)	20			20	-	50	-	50	2
9	**21BAJ29**	Waste Management (SEC)	20			20	-	50	-	50	2
10	**21BAJ30**	CommunicativeKannada	-	-	-	-	20	-	-	-	-
		Total				**320**				**750**	**28**

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AECC- Ability Enhancement Compulsory Course

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SEMESTER IV: Bachelor of Arts (BA Journalism and Mass Communication)

Sl. No.	Code	Title of Course	Teaching hours				Practical sessions/Self/ Study (S)	Exam			Credits
			Lecture (L)	Tutorial	Practical (P)	Total Hrs		Internal	External	Total	
1	**21BAJ31**	Electronic Journalism (DSC)	40	-	-	40	-	50	50	100	4
2	**21BAJ32**	New Media Technology (DSC)	40	-	-	40	-	50	50	100	4
3	**21BAJ33 (A)**	Open Elective-1 (OE) Social Work Research	40	-	-	40	-	50	50	100	4
	21BAJ33 (B)	Open Elective-2 (OE) E- Business									
4	**21BAJ34**	Field Practicum – IV Anchoring (DSC)	-	8	32	40	-	50	50	100	4
5	**21BAJ35**	Functional English-II (E) (AECC)	40	-	-	40	-	50	50	100	3
6	**21BAJ36 K**	Kannada IV (AECC)	40	-	-	40	-	50	50	100	3
	21BAJ36 H	Hindi IV (AECC)									
	21BAJ36 M	Malayalam IV (AECC)									
	21BAJ36 O	Online Mode IV (AECC)									
7	**21BAJ37**	Entrepreneurship Start up (SEC)	-			20	-	50	-	50	2
8	**21BAJ38**	Yoga (SEC)	20			20	-	50	-	50	2
9	**21BAJ39**	Indian Constitution (SEC)	20			20	-	50	-	50	2
10	**21BAJ40**	CommunicativeKannada	-	-	-	-	20	-	-	-	-
		Total				**320**				**750**	**28**

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AECC- Ability Enhancement Compulsory Course

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SEMESTER V: Bachelor of Arts (BA Journalism and Mass Communication)

Sl. No.	Code	Title of Course	Teaching hours				Practical sessions/Self/ Study (S)	Exam			Credits
			Lecture (L)	Tutorial	Practical (P)	Total Hrs		Internal	External	Total	
1	**21BAJ41**	Public Relation (DSC)	40	-	-	40	-	50	50	100	4
2	**21BAJ42**	Film Production (DSC)	40	-	-	40	-	50	50	100	4
3	**21BAJ43 (A)**	Open Elective-1 (OE) Health care	40	-	-	40	-	50	50	100	4
	21BAJ43 (B)	Open Elective-2 (OE) Entrepreneur ship Development									
4	**21BAJ44**	Field Practicum – V Documentary film (DSC)	-	8	32	40	-	50	50	100	4
5	**21BAJ45**	Auditing techniques (AECC)	40	-	-	40	-	50	50	100	3
6	**21BAJ46**	Excel and SPSS	40	-	-	40	-	50	50	100	3
7	**21BAJ47**	Television Production (SEC)	-			20	-	50	-	50	2
8	**21BAJ48**	Music/Dance (SEC)	20			20	-	50	-	50	2
9	**21BAJ49**	Street Play (SEC)	20			20	-	50	-	50	2
		Total				**300**				**750**	**28**

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AECC- Ability Enhancement Compulsory Course

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SEMESTER VI: Bachelor of Arts (BA Journalism and Mass Communication)

Sl. No.	Code	Title of Course	Teaching hours				Practical sessions/Self/ Study (S)	Exam			Credits
			Lecture (L)	Tutorial	Practical (P)	Total Hrs		Internal	External	Total	
1	**21BAJ51**	Internship & Dissertation to produce a News Magazine & Viva-Voce (SEC)	-	8	320	320	-	Internal Assessment Field practicum + Project 150 +150 = 300	External Assessment Field practicum + Project 150 +150 = 300 Viva-Voce exam = **150**	750	28

SEMESTER VII: Bachelor of Arts (BA Journalism and Mass Communication)

Sl. No.	Code	Title of Course	Teaching hours				Practical sessions/Self/ Study (S)	Exam			Credits
			Lecture (L)	Tutorial	Practical (P)	Total Hrs		Internal	External	Total	
1	**21BAJ61**	Communication Research Methods and Application (DSC)	40	-	-	40	-	50	50	100	4
2	**21BAJ62**	Media Law and Ethics (DSC)	40	-	-	40	-	50	50	100	4
3	**21BAJ63**	Magazine and Photo Journalism(DSC)	40	-	-	40	-	50	50	100	4
4	**21BAJ64**	Project – TV & Radio			200 HRS	200 HRS		350	100	450	16

EMESTER VIII: Bachelor of Arts (BA Journalism and Mass Communication)

Sl. No.	Code	Title of Course	Teaching hours				Practical sessions/Self/ Study (S)	Exam			Credits
			Lecture (L)	Tutorial	Practical (P)	Total Hrs		Internal	External	Total	
1	**21BAJ71**	Development Communication (DSC)	40	-	-	40	-	50	50	100	4
2	**21BAJ72**	Marketing Communication (DSC)	40	-	-	40	-	50	50	100	4
3	**21BAJ73**	Case Studies (DSC)	40	-	-	40	-	50	50	100	4
4	**21BAJ74**	Dissertation			200 HRS	200 HRS		350	100	450	16

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The following specific corrections were made in the MSW syllabus

Sl. No.	Semester	Course & Course code	Present Syllabus	Revised Syllabus	Credits
1.	I SEMESTER	SOCIAL WORK – HISTORY & PHILOSOPHY	**Module 1** Meaning, Definition and Objectives of Social Work. Social Work and related concepts: Social service, social welfare, social reforms. Methods of Social work: Introduction to core methods – Meaning and Definition of Social Case work, social group work and Community organization Auxiliary methods: Social action, Social Welfare administration, social work research. **Module 2** Meaning, objectives and attributes of profession Social work as profession. Principles of Social work Tools and techniques: Conscious use of self, verbal interaction, relationship, programme planning. Fields of Social work: Industry, hospital, family welfare centre, correctional homes. Changing concepts of social work.	**Module 1** **Introduction to Social Work** Meaning, Definition, and Objectives of Social Work. Social Work and related concepts: Social service, social welfare, social reforms. Methods of Social work: Introduction to core methods – Meaning and Definition of Social Casework, Social Group Work and Community organization Auxiliary methods: Social action, Social Welfare administration, social work research. **Module 2** **Training and Fieldwork** Fieldwork and the importance of Fieldwork supervision Voluntary Social work: Role of government and voluntary organizations in promoting social welfare Training in Social work education, uses of supervision–meaning and importance, Objectives and types of supervision, and Role of faculty and agency supervisor.	4

			Module 3: Charity to rehabilitation Social work in USA: Colonial period, industrialism, neighbourhoods' guild, welfare programmes in 20th century Social work in UK: Elizabeth and Poor Law, Charity organization societies, settlement homes, Beveridge report Social work in India: Ancient India, Mughals, contribution of Individuals and organizations, Modern Social work. **Module 4:** Ideology and practice models of social work Contribution of religion and religious ideologies Gandhian philosophy of social work Current Ideologies: Relief model, Welfare model, Clinical model, Radical model **Module 5:** Functions: Restoration, provision of resources, prevention Values of Social work: Relating to individual,	**Module 3:** **Social work Profession** Meaning, objectives, and attributes of the profession Social work as a profession. Principles of Social Work Tools and techniques: Conscious use of self, verbal interaction, relationship, and programme planning. Fields of Social work: Industry, hospital, family welfare center, correctional homes. Changing concepts of social work. **Module 4:** **History of Social Work Profession** Charity to rehabilitation Social work in the USA: Colonial period, industrialism, neighborhoods' guild, welfare programs in 20th century Social work in the UK: Elizabeth and Poor Law, Charity organization societies, settlement homes, Beveridge report Social work in India: Ancient India, Mughals, contribution of Individuals and organizations, Modern Social work. **Module 5:** **Ideology and practice models of social work** Ideology and practice models of social work	

			problem, relationship, agency, practice Need and importance of Code of Ethics in Social work practice National and International Code of Ethics. **MODULE –VI** Field work and importance of Field work supervision Voluntary Social work: Role of government and voluntary organizations in promoting social welfare Training in Social work education, uses of supervision–meaning and importance, Objectives and types of supervision and Role of faculty and agency supervisor.	Contribution of religion and religious ideologies Gandhian philosophy of social work Current Ideologies: Relief model, Welfare model, Clinical model, Radical model **MODULE –VI** **Social work Values and Ethics** Functions: Restoration, provision of resources, prevention Values of Social work: Relating to individual, problem, relationship, agency, practice Need and importance of Code of Ethics in Social work practice National and International Code of Ethics.	
2.	I SEMESTER	**SOCIAL CASE WORK**	**Module 1** Meaning, Definition and Objectives, Scope, qualities and skills of a social of Case Work**.** Scope, qualities and skills of a social of Case Work**.** Tools and techniques of case work**:** Recording, Observation, Listening, Home visits, interview techniques, relationship Components of case work: Person; Meaning, characteristics, nature, defences problem; meaning characteristics. Types of problem, place, Meaning, characteristics, classification of the agency service Process;	**Module 1** **Concept of Social Case Work** Meaning, Definition and Objectives, Scope, Qualities and Skills of a Social Case Work**.** Tools and Techniques of Case Work**:** Recording, Observation, Listening, Home visits, Interview Techniques, Relationship. Components of case work: Person, Problem, Place, Process.	

			Meaning, characteristics, steps. **Module 2** Individualization–Meaning, role of social worker in individualization**.** Acceptance –meaning, role of social worker in acceptance, Obstacles of acceptance**.** Controlled emotional involvement–meaning, role of social worker. Purposeful expression of feelings-meaning, role of social worker**.** Non-judgmental attitude –Meaning, role of social worker, skills required**.** Client's self-determination-meaning, role of social worker. Development of professional self: Self-awareness: Various areas to improve professionally. **Module 3** Meaning various steps Intake meaning, procedure Study–meaning, collecting information. Analysis and assessment–meaning steps Negotiating contract meaning, types, Treatment techniques–supportive and modifying techniques. Termination–meaning, conditions of termination, evaluation, meaning, importance. Disengaging from relationship	**Module 2** **Principles of Social Case Work** Individualization–Meaning, role of social worker in individualization**.** Acceptance – meaning, role of social worker in acceptance, Obstacles of acceptance**.** Controlled emotional involvement–meaning, role of social worker. Purposeful expression of feelings-meaning, role of social worker**.** Non-judgmental attitude – Meaning, role of social worker, skills required**.** Client's self-determination-meaning, role of social worker. Development of professional self: Self-awareness: Various areas to improve professionally. **Module 3** **Process of Social Case Work** Intake meaning, procedure Study–meaning, collecting information. Analysis and assessment–meaning steps Negotiating contract meaning, types, Treatment techniques–supportive and modifying techniques, treatment goals, treatment plan, Application of treatment methods, Direct and indirect. Termination–meaning, conditions of termination,	

			Stabilization of change effort. Follow up-Meaning relevance **Module 4** Uses of case work skills in dealing with problems of adolescence, Problems of aged**.** Couples with marital problems, Case work with HIV Infected patients. Transference and counter transference. Theories used in social case work; Psychoanalytic theory. Psychosocial theory Behavior modification theory, cognitive theory. **Module 5** Disaster management Concept. Types of Disasters. Role of social case worker in disaster management. Crisis intervention concept, meaning. Role of social worker Career guidance meaning, definition. Relevance and role of case worker in career guidance centers **Module 6** Therapeutic approach to working with individuals and families. Behavioral theory Introduction techniques, uses, goals, Application Client centered theory Introduction, techniques, uses and goals, application Family therapy,	Evaluation, meaning, importance. Disengaging from relationship Stabilization of change effort. Follow up-Meaning relevance **Module 4** **Uses of case work skills & Theories used in social case work** Uses of case work skills in dealing with problems of adolescence Problems of aged**.** Couples with marital problems Case work with HIV Infected patients. Theories used in social case work; Psychoanalytic theory. Psychosocial theory, Behavior modification theory. **Module 5** **Different Role of social case worker** Disaster management Concept. Types of Disasters. Role of social case worker in disaster management. Crisis intervention concept, meaning. Role of social worker Career guidance meaning, definition. Relevance and role of case worker in career guidance centers **Module 6** **Therapeutic approach** Therapeutic approach to working with individuals and families. Behavioral theory Introduction techniques, uses, goals, Application Client centered	

			Introduction, techniques, uses, goals, Application. Rational emotive therapy, Introduction techniques, uses, goals**.** Social casework treatment process, treatment goals, treatment plan, Application of treatment methods, Direct and indirect.	theory Introduction, techniques, uses and goals, Application Family therapy, Introduction, techniques, uses, goals,	
3.	I SEMESTER	**SOCIAL GROUP WORK**	**MODULE 1** Groups-Introduction, Definitions, Characteristics; Social Group Work-Introduction, meaning, definitions, Objectives, Scope of Group Work, Significance and Need for Group Work in the Modern Society; Values of Group Work. **MODULE 2:** Principles of Group Work-Views of Douglas, Principles by Trecker, Types of Group work- Open and closed groups, Social Treatment Groups (Remedial Groups, Socialisation Groups, Therapeutic Groups), Task Oriented Groups (Committee, Teams and Councils), Developmental Groups-Educational Groups; Growth Oriented Groups, Self Help Groups, Social Action Groups. **MODULE 3:** Factors of Group Formation-Selection of Group Members	**MODULE 1:** **Introduction to Group Work** Groups-Introduction, Definitions, Characteristics; Social Group Work-Introduction, meaning, definitions, Objectives, Scope of Group Work, Significance and Need for Group Work in the Modern Society; Values of Group Work. **MODULE 2:** **Types of Groups** Principles of Group Work-Views of Douglas, Principles by Trecker, Types of Group work- Open and closed groups, Social Treatment Groups (Remedial Groups, Socialisation Groups, Therapeutic Groups), Task-Oriented Groups (Committee, Teams, and Councils), Developmental Groups-Educational Groups; Growth Oriented Groups, Self Help Groups, Social Action Groups. **MODULE 3:** **Formation of Groups 6 HRS**	

			(Homogeneity and Heterogeneity), Goal formation, Contract; Steps in Group Development-Initial Phase, Convening, Formation, Conflict- Resolution Mechanism, Maintenance and Termination; Process-Intake, Study, Treatment, Use of Verbal and Non-Verbal Communications, Evaluation, Termination. **MODULE4:** Skills- Facilitation, Analytical Thinking, Communication, Leadership; Recording in Group Work- Importance of Recording in Group work, Principles of Recording and Types of Recording; Group Dynamics- Bond, Sub-Groups, Role, Leadership, Isolates, Scapegoats, New comer, Conflict, Decision Making, Group Control. **MODULE 5:** Brain Storming- Characteristics, Process, Merits and Demerits; Role Play-Features, Advantages and Disadvantages; Buzz Group Discussion,	Factors of Group Formation- Selection of Group Members (Homogeneity and Heterogeneity), Goal formation, Contract; Steps in the Group development phase, Convening, Formation, Conflict- Resolution Mechanism, Maintenance, and Termination; Process-Intake, Study, Treatment, Use of Verbal and Non-Verbal Communications, Evaluation, Termination (Disengaging from relationships, stabilization of change effort). **MODULE4:** **Recording in Group Work** Skills- Facilitation, Analytical Thinking, Communication, Leadership; Recording in Group Work- Importance of Recording in Group work, Principles of Recording and Types of Recording; Group Dynamics- Bond, Sub-Groups, Role, Leadership, Isolates, Scapegoats, Newcomer, Conflict, Decision Making, Group Control, Hostility, Behaviour Contagion. **MODULE 5:** Brain Storming- Characteristics, Process, Merits and Demerits; Role Play- Features, Advantages and Disadvantages; Buzz Group Discussion, Camping-Planning, Camp Settings, Advantages and Disadvantage.	

			MODULE 6: Programme-Meaning, Features, Importance; Programme Planning, Resource Mobilisation, Skills in organizing Programmes, Use of Programme Media; Areas of Group work Practice-Health, Education, Substance Abuse, Labour Welfare, Juvenile Delinquency; Application of Group work to different settings.	**MODULE 6:** **Use of Programms** Program-meaning, Features, Importance; Programme Planning, Resource Mobilisation, Skills in organizing Programmes, Use of Programme Media; Areas of Group work Practice-Health, Education, Substance Abuse, Labour Welfare, Juvenile Delinquency; Application of Group work to different settings: Children & Adolescents, Elderly.	
4.	I semester	**ORGANISATIONAL PSYCHOLOGY**	**Module - I** Meaning, Definition, nature and scope; History of Organizational Psychology; Motivation in Organization: Nature of motivation, Framework of Motivation, importance of motivation, Need theories, Maslow's Need Hierarchy, ERG (Existence, Relatedness Growth needs) Theory, Goal - Setting theory, Job Enrichment and Job Characteristic Models. **Module - II** Attitude, definition and nature, Component of Attitude, ABC model, Changing attitudes, Approaches, Characteristics and Attitudinal change.	**Module - I** **Introduction to Organizational Psychology** Meaning, Definition, nature and scope; History of Organizational Psychology; Motivation in Organization: Nature of motivation, Framework of Motivation, importance of motivation, need theories, Maslow's Need Hierarchy, ERG (Existence, Relatedness Growth needs) Theory, Goal -Setting theory **Module - II** **Work Related Attitudes and Job analysis** **7HRS** Attitude, definition and nature, Component of Attitude, ABC model, Changing attitudes, Approaches, Characteristics and Attitudinal change.	

			Recruiting and interviewing- Recruitment, employment interview, selection training and allocation. Job Analysis- Importance of Job **Module – III** Types of organization communication, Interpersonal communication, improving employer communication skills Stress- Nature of stress, Meaning and definition, Effects of stress, Burnouts and its impact and managing stress. **Module – IV** Traits and leader, Leadership styles and their implication, Formal and informer leader and Leader behaviors Group Behavior- Group dynamics, factors affecting group performance, teams and group conflicts **Module – V** Power, Power dynamics and source of power, Social	Recruiting and interviewing- Recruitment, employment interview, selection training and allocation. Job Enrichment and Job Characteristic Models. Job Analysis- Importance of Job, Job satisfaction, Methods of measuring job satisfaction, Causes and effects of job satisfaction and Organizational commitment. **Module - III** **Organizational communication and Stress** Communication Nature, Types and Barriers. Improving Employer and Employee Communication skills. Role and skills of Managers Stress defined, sources of stress , consequences of stress, Burn out and its impact Stress among Employees and Management of Stress. Work life Balance **Module – IV** **Leadership and group Behavior** Leadership: its basic nature, Leadership and Management, Importance of leadership, Leader traits and leader, Leadership styles and their implication, Formal and informal leader and Leader behaviors Group Behavior- Group dynamics, factors affecting group performance, teams and group conflicts **Module – V**	

			influence, Most popular social influence techniques, Politics in Human Resource Management, Politics and organizational life span. Ethics of power and politics and Coping with organizational politics. **Module – VI** Organizational decision making: its basic nature, Programmed Vs Non-programmed Decisions, Individual Decision making in Organization, Organizational impediments in Decision making, Group decisions its advantages and disadvantages and brain storming. Organization Development-meaning, Organizational Culture- nature, levels, types of organizational culture, cultural change.	**Power, Politics and Ethics in Organization** Power, Power dynamics and source of power, Social influence, Most popular social influence techniques, Politics in Human Resource Management, Politics and organizational life span. Ethics of power and politics and Coping with organizational politics. **Module – VI** **Decision Making in Organization** Organizational decision making: its basic nature, Programmed Vs Non-programmed Decisions, Individual Decision making in Organization, Organizational impediments in Decision making, Group decisions its advantages and disadvantages and brain storming. Organization Development-meaning, Organizational Culture- nature, levels, types of organizational culture, cultural change.	
5.	I semester	**FUNDAMENTALS OF COMPUTER & INFORMATION TECHNOLOGY**	**Module – I** Introduction, Generation of computers, Classification of computers, Application of computers. Computer Architecture: Introduction, Central Processing unit, main memory unit, interconnection of units, communication between various units of a computer system. Input devices: Introduction, Types of input devices,	**Module – I** Introduction, Generation of computers, Classification of computers, Application of computers. Computer Architecture: Introduction, Central Processing unit, main memory unit, interconnection of units, communication between various units of a computer system. Input devices: Introduction, Types of input devices, Optical character	

			Optical character recognition, Optical Mark Recognition, Magnetic Ink character recognition, Barcode reader. **Module II** Introduction, Classification of programming languages, Features of a good programming language, selection of a programming language. Computer Software: Introduction, software definition, relationship between software and hardware, software categories, terminology software Internet basics: Introduction, Evolution, Basic internet terms, getting connected to internet, internet applications, various commercial applications related to internet.	recognition, Optical Mark Recognition, Magnetic Ink character recognition, Barcode reader. Output devices: Introduction, Types of output, Classification of output devices, Terminals. **Module II** Introduction, Classification of programming languages, Features of a good programming language, selection of a programming language. Computer Software: Introduction, software definition, relationship between software and hardware, software categories, terminology software Internet basics: Introduction, Evolution, Basic internet terms, getting connected to internet, internet applications, various commercial applications related to internet. Office Automation: Introduction to windows / Linux, Introduction to Microsoft Office, Microsoft Word, Microsoft PowerPoint, Introduction to Libre office.	
6.	**II Semester**	**INDIAN SOCIETY – POLITY & ECONOMY**	**Module I** **Social Inequality**: Social stratification, meaning, characteristics, function. Caste system: Meaning Characteristics, Social Mobility Sanskritisation, Caste in Independent India, caste and class social mobility, Marxian analysis of class. Culture: Meaning characteristics functions, growth and diffusion Cultural change, Cultural Lag	**Module I** **Social Inequality**: Social stratification, meaning, characteristics, function. Caste system: Meaning Characteristics, Caste in Independent India, Social Mobility, Sanskritization, Marxian analysis of class. Culture: Meaning characteristics functions, growth and diffusion Cultural change, Cultural Lag Subculture	

			Subculture, Distinction between culture and civilisation.		
7	**II Semester**	**COMMUNITY ORGANIZATION AND SOCIAL ACTION**	**Module – I** **Concept and nature of community Organization** Concept of Community, Community Organization meaning and characteristics of community, Historical background of community Organization, Community organization and Community Development, Principles in community organization **Module – II** **Community Power Structure** Community Power Dynamics, Basis of Power Community Power Structure - caste, class, politics and Gender (women). Types of Community leaders Analysis of power dynamic in Indian Communities, Community work as a means of empowerment. **Module – III** **Community work process** Techniques of Community study, Community work process, Stages of community organization process, Models of Community work practice: Rothman's three models – locality development, social planning and social action. **Module – IV** **Social action: Concept and Application** Social Action: Concepts and Related Terms, History of Social Action	**Module – I** **Concept and nature of community Organization** Concept of Community, Community Organization meaning and characteristics of the community, Historical background of Community Organization, Community Organization, and Community Development, Principles in community organization, and Scope of Community organization. **Module – II** **Community Power Structure** Community Power Dynamics, Basis of Power Community Power Structure - caste, class, politics, and Gender (women). Types of Community Leaders Analysis of the power dynamic in Indian Communities, Community work as a means of empowerment, Forces against people's empowerment. **Module – III** **Community work process** Techniques of Community study, Community work process, Stages of community organization process, Models of Community work practice: Rothman's three models – locality development, social planning, and social action. Roles of a community organizer and Skills required for a community organizer. **Module – IV** **Social Action: Concept and Application**	

			Scope and Relevance of Social Action, Integrated approach to social work and social action, understanding various systems-change agent, client, target, action systems. **Module – V** **Social action a method of Social work** Role of social worker, Social action in relation to community organization Values and ethics of social action, Principles of social action Models of social action- Elitist social action model, popular social action model Gandhian model of social action. **Module – VI** **Strategies and skills in social action** Strategies and tactics in social action, planning strategies Mobilization strategies: Advocacy, Bureaucracy advocacy, Skills in social action, Social action and social movement.	Social Action: Concepts and Related Terms, History of Social Action Scope and Relevance of Social Action, An integrated approach to social work and social action, understanding various systems-change agent, client, target, action systems, Process of change effort. **Module – V** **Social action is a method of social work** Role of Social worker, Social action about Community Organization Values and ethics of social action, Principles of social action Models of social action- Elitist social action model, popular social action model Gandhian model of social action. **Module – VI** **Strategies and skills in social action** Strategies and tactics in social action, planning strategies Mobilization strategies: Advocacy, Bureaucracy advocacy, Media Advocacy, Skills in social action, Social action and social movement.	
8	II SEMESTER	**SOCIAL WELFARE ADMINISTRATION**	**MODULE – I** **Social Welfare**: Concept, Scope. Evolution of Social Welfare in India – Ancient, Medival, British period, post–Independence, Indian	**MODULE – I** **Introduction to Social** **Welfare administration** Social Welfare Concepts Nature and Scope, Evolution of Social Welfare in India- Ancient, Medieval,	

			Constitution, National Policy on Social Welfare. Social Welfare programmes – Child Welfare, Old age, foster care, youth welfare, services for handicapped, disaster relief. Meaning, scope of Social Welfare Administration - Purpose, principles and functions – Agency administration, Personnel administration, Financial administration, General administration. Social welfare administration as a method of social work, as a profession. **MODULE – II** **Social Welfare Administration:** Tasks – Planning, organizing, directing, reporting, budgeting. Supervision – Concept, area, types, purpose and functions. Budgeting – purpose, method, guiding principles. Fund raising and grants – Consideration, methods, success and failures. Auditing – Purpose, types, Balance sheet. Leadership and Communication in organisations. Coordination - Principles, Objectives, Levels, Forms of coordination: within agency and among agencies. Decision making – process, types. Control – Concept,	British Period and Post independent Meaning & Nature, Scope, Purpose and Functions of Social Welfare Administration Principles of Social welfare administration Social Welfare Administration as a Method of Social Work as a Profession **MODULE – II** **Welfare Program to different Sector** Social Welfare Programme- Child Welfare, Old Age, Women, Youth Welfare, Services for Handicapped, Disaster Relief. Skills and Techniques of Social Work Administration Public Relation Objectives, Methods and Principles Decision Making- Process, Types, Networking, Conflict Resolution. Dealing with Burn outs Authority and Responsibility- Meaning, Sources, Limit of Authority, Delegation and Decentralization. Delegation of Authority meaning elements and its process	

			definition, types of control, areas of control. Authority and Responsibility – meaning, sources, limits of authority, delegation and decentralization. **MODULE – III** **Social Welfare organizations**: Introduction, Types of social welfare organizations, Formal organisations, informal organizations, structured organizations, unstructured organizations. Governmental organizations, Central Social Welfare Board - Objectives and Constitution of the Board; State Social Welfare Advisory Boards, State Social Welfare department – Structure, function, grant-in-aid. Societies and Trusts, functions of Donor agencies and United Nation Bodies – UNDP, UNICEF, United Nations High Commission for Refugees. **MODULE – IV** **Management of Social Welfare Services**: Non-governmental Organisation (NGO) - Organizational structure, Line and staff – pyramidal and flat orgnisations. Public Relations – Objectives, methods, principles. Social auditing, Conflict resolution and dealing with burnouts.Research,	**MODULE – III** **Voluntary organizations** Voluntary Organizations in India Role of CAPART International NGOs in India - Action Aid, Oxfam, Save the Children Bal Raksha Bharat, Help Age India, CARE India, World Vision India, Plan India, A, Greenpeace India, World Wildlife Fund, World Vision India United Nation Bodies- UNDP, UNICEF, United Nations High Commission for Refugees. **MODULE – IV** **Organisational Structure** Social welfare Organizations- Introduction, Types, Formal and Informal, Structured and unstructured, State Social Welfare Board Objectives and constitution Central Social Welfare Board Objectives and constitution National commission for Schedule cast and National Commission for Scheduled	

			evaluation and monitoring of Social Welfare agencies : Functions of evaluation, principles, types, areas. International NGOs in India – Action aid, Oxfam, Red Cross. **MODULE – V** **Social policy and social welfare Administration:** Introduction, Health policy and programmes, Administrative aspects, Goals of NRHM, Education policy and programmes, policy on education.Sarva Shiksha Abhiyan (SSA), Kasthurba Gandhi Balika Vidyalaya (KGBV),Mahila Samakhya programme. Social Welfare: Policies and Programmes for welfare of Scheduled caste and tribes, Backward classes, Persons with Disabilities, Social Defence, Welfare of the aged. **MODULE – VI** **Legislations**: Salient features of Societies Registration Act, 1860; Co-operative Society's Act, Trust Act, Company's Act - Registration of organizations under these legislations. Foreign Contribution Regulation Act (FCRA). Preparation of model bylaws for registration of NGO. Administrative	Tribes National Commission for Minorities Administrative Task POSDCORB **MODULE – V** **Office Procedures** Fund Raising and Grants, Social Auditing Balance Sheet Purpose Types Office Procedure and Record Maintenance Financial Management, Reporting and Documentation Project proposal Writing **MODULE – VI** **Welfare Legislations** Registration: Societies Registration Act 1860 Indian Trust Act 1882 Cooperative Societies Act Foreign contribution regulation (Amendment) Act 2020 Procedure for Registering an NGO, Memorandum and Rules and Regulation and Role of trustees, Right to Information Act 2005 and effective governance	

			arrangement for social welfare in Karnataka.	Use of Consumer protection act in effective governance	
9	II SEMESYTER	**SOCIAL RESEARCH AND STATISTICS**	**MODULE – I** **Methodology:** Social Research- Objectives & Motivation; Scope of Social Work Research, Types of Research; Scientific Method- Characteristics; Problems encountered in Research, Research Process-Research Problem, Literature Survey, Hypothesis, Research Design, Sampling, Data Collection, Analysis of Data, Testing the Hypothesis, Generalization & Interpretations, Research Reporting. **MODULE – II** **Research Framework:** Research Problem- Importance, Considerations, Steps in Choosing a Problem; Hypothesis- Definition, Sources, Characteristics, Types, Functions, Problems in formulating Hypothesis; Research Design- Good Research Design, Types- Exploratory design, Descriptive design, Diagnostic design, Experimental design, Uses of Research Design; Research Ethics- Ethics for participants, researchers & Sponsoring Organizations.	**MODULE – I** **Methodology:** Social Research- Objectives & Motivation; Scope of Social Work Research, Types of Research; Scientific Method- Characteristics; Problems encountered in Research, Research Process-Research Problem, Literature Survey, Hypothesis, Research Design, Sampling, Data Collection, Analysis of Data, Testing the Hypothesis, Generalization & Interpretations, Research Reporting. **MODULE – II** **Research Framework:** Research Problem- Importance, Considerations, Steps in Choosing a Problem; Hypothesis- Definition, Sources, Characteristics, Types, Functions, Problems in formulating Hypothesis; Research Design- Good Research Design, Types- Exploratory design, Descriptive design, Diagnostic design, Experimental design, Uses of Research Design; Research Ethics- Ethics for participants, researchers & Sponsoring Organizations.	

			MODULE – III **Sampling & Sources of Data:** Sampling Methods- Definition, Characteristics, advantages & limitations; Sampling Techniques- Random Sampling (Simple Random, Stratified Random & Systematic Random methods), Non-Random Sampling (Convenient, Judgmental, Quota, Snowball Sampling methods); Sources of Data- Primary and Secondary Data. **MODULE – IV** **Methods of Data Collection:** Tools for Data Collection – Observation- Steps, Types, Advantages & Limitations; Interview- Characteristics, Objectives, Steps, Types, Merits and Limitations; Questionnaire- Types, formulation, advantages & limitations. **MODULE – V** **Data Processing and Reporting:** Processing of Data- Editing, Classification of data, Coding, Tabulation-Principles of Tabulation, Research Reporting- Steps, Guidelines and Outlines for Research Report. **MODULE – VI**	**MODULE – III** **Sampling & Sources of Data:** Sampling Methods- Definition, Characteristics, advantages & limitations; Sampling Techniques- Random Sampling (Simple Random, Stratified Random & Systematic Random methods), Non-Random Sampling (Convenient, Judgmental, Quota, Snowball Sampling methods); Sources of Data- Primary and Secondary Data. **MODULE – IV** **Methods of Data Collection:** Tools for Data Collection – Observation- Steps, Types, Advantages & Limitations; Interview- Characteristics, Objectives, Steps, Types, Merits and Limitations; Questionnaire- Types, formulation, advantages & limitations. **Pedagogy:** Lecture, Assignment, Individual and Group Discussion/Presentation **MODULE – V** **Data Processing and Reporting:** Processing of Data- Editing, Classification of data, Coding, Tabulation-Principles of Tabulation, Research Reporting-Steps, Guidelines and Outlines for Research Report. **MODULE – VI**	

			Basic Statistics in Social Research: Statistics: Definition, Functions, Measures of Central Tendency- Calculation of Mean for Simple, Discrete and Continuous Series, Calculation of Median for Simple, Discrete and continuous series, Calculation of Mode, Chi-Square Analysis	**Basic Statistics in Social Research:** Statistics: Definition, Functions, Measures of Central Tendency- Calculation of Mean for Simple, Discrete and Continuous Series, Calculation of Median for Simple, Discrete and continuous series, Calculation of Mode, Chi-Square Analysis.	
10	II SEMESTER	**COMMUNICATION SKILLS & LANGUAGE PROFICIENCY [ORAL AND VERBAL COMMUNICATIONS]**	**MODULE – I** **Fundamentals of Oral and Verbal Communication** Introduction to Interactions, Speeches and Speaking, Types of Verbal Speeches, Foundations of Public Speaking, Types of Public Speaking, Speech & Elocution Drafting. **MODULE – II** **Oral Verbal Interviews and Presentations -** Interview Basics and Introduction, Types of Interviews, Stage Presentations, Extempore, Audio-Visual Mediums and ICT (Information & Communication Technologies) in Presentations. **MODULE – III** **Communication by way of Meetings and Group Discussions** Meetings (Face to Face and Group), Minutes and Agenda,	**MODULE – I** **Fundamentals of Oral and Verbal Communication** Introduction to Interactions, Speeches and Speaking, Types of Verbal Speeches, Foundations of Public Speaking, Types of Public Speaking, Speech & Elocution Drafting. **MODULE – II** **Oral Verbal Interviews and Presentations -** Interview Basics and Introduction, Types of Interviews, Stage Presentations, Extempore, Audio-Visual Mediums and ICT (Information & Communication Technologies) in Presentations. **MODULE – III** **Communication by way of Meetings and Group Discussions**	

			Discussions, Group Discussion, Giving Opinions **MODULE – IV** **Seminars, Debates and Conferences** Seminars, Debates, Conferences, Scholarly Commentaries and Narration, Asking Questions and Giving Answers. **MODULE – V** **Practical Components** 1.Mock Meetings, Group Discussions (GD) and Mock Interviews to be attended by the student 2. Develop Research abstract for a conference paper presentation **MODULE – VI** **Practical Components** 3. Write and deliver a Speech on any given topic. 4. Record and submit a video of Sudent Public Speech at any social ocassion	Meetings (Face to Face and Group), Minutes and Agenda, Discussions, Group Discussion, Giving Opinions **MODULE – IV** **MODULE IV** **Seminars, Debates and Conferences** Seminars, Debates, Conferences, Scholarly Commentaries and Narration, Asking Questions and Giving Answers. **MODULE – V** **Practical Components** 1.Mock Meetings, Group Discussions (GD) and Mock Interviews to be attended by the student 2. Develop Research abstract for a conference paper presentation **MODULE – VI** **Practical Components** 3. Write and deliver a Speech on any given topic. 4. Record and submit a video of Student Public Speech at any social occasion	
11	III SEMESTER	**PERSONNEL MANAGEMENT AND HRD**	**MODULE – I** **Personnel Management**: Meaning, Definition and Objectives. Challenges of Modern Personnel Management. Operative Functions of Personnel Management – Procurement, Development,	**MODULE – I** **Personnel Management**: Meaning, Definition and Objectives. Challenges of Modern Personnel Management. Operative Functions of Personnel Management – Procurement, Development,	

			Compensation, Integration and Maintenance. **MODULE – II** **Procurement**: Human Resource Planning – Meaning, Objectives, Benefits, Process of Manpower Planning, Difficulties in Human Resource Planning. Job Analysis: Concept, Uses of Job Analysis, Job Description and Job Specification Recruitment: Concept, Recruitment Process, Sources of Recruitment Selection: Concept, Selection Process. **MODULE – III** **Development :** Induction – Practices, Benefits, Problems and Measures to Overcome Training: Types of Training, Training Needs Assessment, Various On-the-job and Off-the-job methods of training. Performance Appraisal : Concept, Objectives, Methods of Performance Appraisal, 360 degree Appraisal Promotion and Transfer – Meaning, Types. **MODULE – IV** **Compensation**: Wage and Salary Administration, Objectives, Wage Determination Process, Factors influencing Wage and Salary structure, Principles. Minimum Wages, Fair Wages, Living Wage. Fringe Benefits.	Compensation, Integration and Maintenance. **MODULE – II** **Procurement**: Human Resource Planning – Meaning, Objectives, Benefits, Process of Manpower Planning, Difficulties in Human Resource Planning. Job Analysis: Concept, Uses of Job Analysis, Job Description and Job Specification Recruitment: Concept, Recruitment Process, Sources of Recruitment Selection: Concept, Selection Process. **MODULE – III** **Development:** Induction – Practices, Benefits, Problems and Measures to Overcome Training: Types of Training, Training Needs Assessment, Various On-the-job and Off-the-job methods of training. Performance Appraisal: Concept, Objectives, Methods of Performance Appraisal, 360 degree Appraisal Promotion and Transfer – Meaning, Types. **MODULE – IV** **Compensation**: Wage and Salary Administration, Objectives, Wage Determination Process, Factors influencing Wage and Salary structure, Principles. Minimum Wages, Fair Wages, Living Wage. Fringe Benefits.	

			MODULE – V **Integration & Maintenance:** Teams and Team Building – Types of Teams, Life Cycle of a Team, Team building Process. Grievance: Concept, Definition, Grievance Handling Procedure. Discipline: Meaning, Approaches to Discipline, Disciplinary Action in Indian Industries. Counselling: Concept, types, Functions of Counselling – Advice, Reassurance, Communication, Release of Emotional Tension, Clarified Thinking. Health and Safety: Accident – Meaning, Types, Causes of Accidents – Unsafe condition, Unsafe Act, Personal characteristics. Safety Measures **MODULE – VI** **HRD:** Meaning, Definition, HRD Instruments, Process and Outcome. Organisational Change: Meaning, Reasons for Change, Resistance to Change, Approaches to Change Changing Concepts in Management: TQM, Six Sigma, 5 S, Kaizen.	**MODULE – V** **Integration & Maintenance:** Teams and Team Building – Types of Teams, Life Cycle of a Team, Team building Process. Grievance: Concept, Definition, Grievance Handling Procedure. Discipline: Meaning, Approaches to Discipline, Disciplinary Action in Indian Industries. Counselling: Concept, types, Functions of Counselling – Advice, Reassurance, Communication, Release of Emotional Tension, Clarified Thinking. Health and Safety: Accident – Meaning, Types, Causes of Accidents – Unsafe condition, Unsafe Act, Personal characteristics. Safety Measures. **MODULE – VI** **HRD:** Meaning, Definition, HRD Instruments, Process and Outcome. Organisational Change: Meaning, Reasons for Change, Resistance to Change, Approaches to Change Changing Concepts in Management: TQM, Six Sigma, 5 S, Kaizen.	
12	III SEMESTER	**MEDICAL SOCIAL WORK**	**MODULE I** **Concept of Health:** Meaning, Definition**,** Dimensions of health, Determinants of Health**,** Indicators of Health.	**MODULE I** **Concept of Health:** Meaning, Definition**,** Dimensions of health, Determinants of Health**,** Indicators of Health.	

			Hospital administration, Concept role Brief explanation of the various service departments. **MODULE II** **Medical Social Work:** Meaning, Definition and Scope. Historical background of Medical Social Work. Stages of development, Functions of a Medical Social Worker. Team work & Multi-disciplinary Approach in Health care – Meaning, Definition, Members of the team Role of Social worker in Team work. Multi-disciplinary approaches in the management of health care. **MODULE III** **Communicable and Non-Communicable Diseases:** Meaning Risk factors Leprosy, Clinical Control and management. T.B- Clinical Control and Management, STDs **C**linical Symptoms, Control and Management. Role of Medical Social Worker. Terminal illness and Chronic Illness-Control and Prevention, Rehabilitation Social and Psychological, Role of Medical social Worker. **MODULE IV** **Health policy in India:** Programmes, Benefits**.** Health system in India-The central, State, District and Village level. National Health policy, social legislations related to health. Disability Psycho social	Hospital administration, Concept role Brief explanation of the various service departments. **MODULE II** **Medical Social Work:** Meaning, Definition and Scope. Historical background of Medical Social Work. Stages of development, Functions of a Medical Social Worker. Team work & Multi-disciplinary Approach in Health care – Meaning, Definition, Members of the team Role of Social worker in Team work. Multi-disciplinary approaches in the management of health care. **MODULE III** **Communicable and Non-Communicable Diseases:** Meaning Risk factors Leprosy, Clinical Control and management. T.B- Clinical Control and Management, STDs **C**linical Symptoms, Control and Management. Role of Medical Social Worker. Terminal illness and Chronic Illness-Control and Prevention, Rehabilitation **MODULE IV** **Health policy in India:** Programmes, Benefits**.** Health system in India-The central, State, District and Village level. National Health policy, social legislations related to health. Disability Psycho social aspects of disability. Reactions of individuals and families	

			aspects of disability. Reactions of individuals and families towards disability. Role of a Medical social worker. **MODULE V** **Community Health Care:** Concept of health care. Levels of Health Care – Principles of Health Care. Voluntary Health Agencies in India. Family Planning Association of India. International Health agencies WHO UNICEF **MODULE VI** **Medical Social Work in Different Settings:** Hospitals, Outpatient Department**.** Emergency Care Educational Settings. Role and functions, Residential Institutions Role and functions, Geriatric Social Work. Role and functions, Community based health care**.** Role and functions of Medical Social Worker	towards disability. Role of a Medical social worker. **MODULE V** **Community Health Care:** Concept of health care. Levels of Health Care – Principles of Health Care. Voluntary Health Agencies in India. Family Planning Association of India. International Health agencies WHO UNICEF **MODULE VI** **Medical Social Work in Different Settings:** Hospitals, Outpatient Department**.** Emergency Care Educational Settings. Role and functions, Residential Institutions Role and functions, Geriatric Social Work. Role and functions, Community based health care**.** Role and functions of Medical Social Worker.	
13	III SEMESTER	**MANAGEMENT CONCEPTS**	**MODULE I** **Basic Concepts of Management** Nature and Concept of Management, Definitions, Importance of Management, Management Process, Role of Manager, Management as Science and Art, Management as a Profession. **MODULE II**	**MODULE I** **Basic Concepts of Management** Nature and Concept of Management, Definitions, Importance of Management, Management Process, Role of Manager, Management as Science and Art, Management as a Profession. **MODULE II**	

			Theories on Management Classical Theories- Scientific Management Theory by F. W. Taylor; Administrative Theory by Henry Fayol; Neo-classical Theories-Hawthrone Experiments and Human Relations by Elton Mayo; System Approach. **MODULE III** **Primary Functions of Management** Forecasting-concepts, Importance, Techniques of forecasting; Planning-Definition, Nature of Planning, Importance of Planning; Types of Planning; Steps in planning. **MODULE IV** **Structure and Decisions** Organising-Characteristics, Factors affecting Organisation, Organisation Structure; Departmentation-Meaning; Bases of Departmentation, Importance and Features, Demerits, Advantages of Departmentation; Decision Making-Concept, Features, Types of decisions; Decision making Process, Delegation of Authority-Features, Steps in Delegation. **MODULE V**	**Theories on Management** Classical Theories- Scientific Management Theory by F. W. Taylor; Administrative Theory by Henry Fayol; Neo-classical Theories-Hawthrone Experiments and Human Relations by Elton Mayo; System Approach. **MODULE III** **Primary Functions of Management** Forecasting-concepts, Importance, Techniques of forecasting; Planning-Definition, Nature of Planning, Importance of Planning; Types of Planning; Steps in planning. **MODULE IV** **Structure and Decisions** Organising-Characteristics, Factors affecting Organisation, Organisation Structure; Departmentation-Meaning; Bases of Departmentation, Importance and Features, Demerits, Advantages of Departmentation; Decision Making-Concept, Features, Types of decisions; Decision making Process, Delegation of Authority-Features, Steps in Delegation. **MODULE V** **Pervasive functions** Controlling-Concept, definitions, Process, Types of Control; Essentials of Good Control System; Benefits of Controlling; Budgeting-Introduction, what is Budget? Definitions, Types of Budget;	

			Pervasive functions Controlling-Concept, definitions, Process, Types of Control; Essentials of Good Control System; Benefits of Controlling; Budgeting-Introduction, What is Budget?, Definitions, Types of Budget; Management by Objectives-Meaning, Objectives, Features; Steps in MBO Process, Difficulties in MBO. **MODULE VI** **Innovations in Management** Human Resource Accounting-Methods of Valuation of Human Asset, Advantages & Problems; Management Information System-Meaning, definitions, Need, Objectives of MIS, Functions; Inventory Control- Benefits, Periodical Physical Checking or Stock Taking; Social Obligation of Management-Introduction, Classical view of Social responsibility; Arguments in favour of Social responsibilities, Arguments against social responsibilities, Modern views on social responsibility, Obligation of Managers towards different segments of the Society.	Management by Objectives-Meaning, Objectives, Features; Steps in MBO Process, Difficulties in MBO. **MODULE VI** **Innovations in Management** Human Resource Accounting-Methods of Valuation of Human Asset, Advantages & Problems; Management Information System-Meaning, definitions, Need, Objectives of MIS, Functions; Inventory Control- Benefits, Periodical Physical Checking or Stock Taking; Social Obligation of Management-Introduction, Classical view of Social responsibility; Arguments in favour of Social responsibilities, Arguments against social responsibilities, Modern views on social responsibility, Obligation of Managers towards different segments of the Society.	
14	III SEMESTER	**WORKING WITH CHILDREN AND ADOLESCENTS**	**MODULE I** **Growth and Development of a Child:** Meaning of Growth and Development, Differences between Growth	**MODULE I** **Growth and Development of a Child**	

			and Development, Characteristics of growth. Common interests in childhood, Concept of Family Relations, Parental attitudes on family relations, Influence of child, Training methods on family relations Principles of development Concept of Family Relations, Differences in Family Influence, Influence of parental attitudes on family relationships. Sources of Parental attitudes, some typical parental attitudes over protectiveness. **MODULE II** **Problems of Children:** Physical Problems: Mortality**,** Illness**,** Accidents**,** Unattractiveness**,** awkwardness & Obesity**.** Psychological problems: Behavior Disorders of Childhood, Types of Childhood Behavior disorders; Autism, Clinical picture Causes, Hyperactive children, Clinical picture Treatment and Outcome. Emotional Problems: Introduction, Hazards in Emotional Development, Causes of Deprivation of Affection, Effects of Deprivation of Affection, Too Much Affection, Conditions Contributing to Heightened Emotionality. Social problems: Violence, Poverty, Life as Refugees, Lack of Access to Education, Child Neglect, Child labor, Child Prostitution, Internet, Child Pornography, Trafficking and Slavery. Familial Hazards in	Meaning of Growth and Development, Differences between Growth and Development, Characteristics of growth. Common interests in childhood, Concept of Family Relations, Parental attitudes on family relations, Influence of child, Training methods on family relations Principles of development Concept of Family Relations, Differences in Family Influence, Influence of parental attitudes on family relationships. Sources of Parental attitudes, some typical parental attitudes over protectiveness. **MODULE II** **Problems of Children** Physical Problems: Mortality**,** Illness**,** Accidents**,** Unattractiveness**,** awkwardness & Obesity**.** Psychological problems: Behavior Disorders of Childhood, Types of Childhood Behavior disorders; Autism, Clinical picture Causes, Hyperactive children, Clinical picture Treatment and Outcome. Emotional Problems: Introduction, Hazards in Emotional Development, Causes of Deprivation of Affection, Effects of Deprivation of Affection, Too Much Affection, Conditions Contributing to Heightened Emotionality. Social problems: Violence, Poverty, Life as Refugees, Lack of Access to Education, Child Neglect, Child labor, Child Prostitution, the Internet, Child Pornography, Trafficking, and Slavery. Familial Hazards in personality development: Permissiveness,	

			personality development: Permissiveness, Rejection, Acceptance, Domination, Submission to child, Favoritism. **MODULE III** **Significance of Adolescent period:** Meaning, Characteristics, Attitudes, Adolescent Development: Physical: Growth of Adolescents, Growth in Boys, Growth in Girls: Menstruation Cycle, and psychological growth Maturing. Changing emotional problems, Personal aspects of personality development. Social aspects or environmental factors of personality development, Sex behavior: Masturbation, Lesbianism, Peer Pressure, Issues bothering boys, Gynecomastia, Nocturnal emission, Homosexuality, sexual attitudes, Substance abuse. Need for counselling Drug abuse. **MODULE IV** **Adolescent adjustment:** Concept of Adjustments, Criteria, Characteristics, Mental development Emotional Development, Social development, Problems of parent adolescent relationship, Problems of adolescents- school adjustment, Sex adjustments, Home adjustments, adjustments to emotional disturbances, Adjustments to Physical growth, adjustments to Mental Competition, Vocational and occupational problems, Social,	Rejection, Acceptance, Domination, Submission to child, Favoritism. **MODULE III** **Significance of the Adolescent period** Meaning, Characteristics, Attitudes, Adolescent Development: Physical: Growth of Adolescents, Growth in Boys, Growth in Girls: Menstruation Cycle, and psychological growth Maturing. Changing emotional problems, Personal aspects of personality development. Social aspects of environmental factors of personality development, Sex behavior: Masturbation, Lesbianism, Peer Pressure, Issues bothering boys, Gynecomastia, Nocturnal emission, Homosexuality, sexual attitudes, Substance abuse. Need for counseling Drug abuse. **MODULE IV** **Adolescent adjustment** Concept of Adjustments, Criteria, Characteristics, Mental development Emotional Development, Social Development, Problems of parent-adolescent relationship, Problems of adolescents-school adjustment, Sex adjustments, Home adjustments, adjustments to emotional disturbances, Adjustments to Physical growth, adjustments to Mental Competition, Vocational and occupational problems, Social, psychological Emotional problems of adjustment in	

			psychological Emotional problems of adjustment in adolescents. Types of behavioral problems: Oppositional Defiant Disorder, Conduct Disorder **MODULE V** **Helping an Adolescents:** Therapeutic treatment of mental disorders**,** Therapeutic treatment of Emotional disorders. Behavior therapy: Psychotherapies for Children and Adolescents; Different types of psychotherapy; Cognitive Behavior Therapy (CBT) Dialectical Behavior Therapy (DBT); Family Therapy, Group Therapy; Psychotherapies for Children and Adolescents, Interpersonal Therapy (IPT); Play Therapy, Psychotherapy: Psychoanalytic therapy: Client centered psychotherapy. **MODULE VI** **Concept of Child Welfare:** Constitutional safeguards for children in India: Children's Charter, Rights of the child, Child welfare in India, National policy for children, UN charter on the rights of the child, Laws relating to the child, The Juvenile Justice Act 1987: Juvenile Justice Board Adoption Act: Adoption service, Hindu Adoption Act Government and non-Governmental programmes: Child welfare programs, Integrated Child Development Services, Crèche Scheme, Reproductive Child Health Program, Child	adolescents. Types of behavioral problems: Oppositional Defiant Disorder, Conduct Disorder **MODULE V** **Helping an Adolescent** Treatment of mental disorders**,** treatment of Emotional disorders. Behavior therapy: Psychotherapies for Children and Adolescents; Different types of psychotherapy; Cognitive Behavior Therapy (CBT) Dialectical Behavior Therapy (DBT); Family Therapy, Group Therapy; Psychotherapies for Children and Adolescents, Interpersonal Therapy (IPT); Play Therapy, Psychotherapy: Psychoanalytic therapy: Client-centered psychotherapy. **MODULE VI** **Concept of Child Welfare** Constitutional safeguards for children in India: Children's Charter, Rights of the child, Child welfare in India, National policy for children, UN charter on the rights of the child, Laws relating to the child, The Juvenile Justice Act 1987: Juvenile Justice Board Adoption Act: Adoption service, Hindu Adoption Act Government and non-Governmental programmes: Child welfare programs, Integrated Child Development Services, Crèche Scheme, Reproductive Child Health Program, Child Helpline, Services of District Child Protection MODULE, Services and Schemes under Child	

			Helpline, Services of District Child Protection MODULE, Services and Schemes under Child Development Department of the government of Karnataka.	Development Department of the government of Karnataka.	
15	IV SEMESTER	**LABOUR LAW**	**MODULE - I** **Legislations Governing Factory:** Types of Labour Legislations, Constitutional Provisions on Industrial Labour, The Factories Act, 1948- Definition, Health Measures, Safety Measures, Welfare Measures, Employment of Young Persons & Women, Inspector and Powers, Penalties. **MODULE - II** **Welfare Legislation:** The Karnataka Shops and Commercial Establishment Act, 1961- Definition, Registration, Working Hours, Leaves; The Contract Labour (Regulation and Abolition) Act, 1970- Applicability, Definition, Authorities, Registration, Welfare facilities, Ultimate Liability of the Principal Employer. **MODULE - III** **Wage Legislation:** The Payment of Wages Act, 1936- Definition, Liability to pay Wage, Time Limit for Payment, Permissible Deductions, Enforcement; The Minimum Wages Act, 1948- Definitions, Fixing of Minimum Wages, Procedure; The Payment of Bonus Act, 1965- Applicability,	**MODULE - I** **Legislations Governing Factory:** Types of Labour Legislations, Constitutional Provisions on Industrial Labour, The Factories Act, 1948- Definition, Health Measures, Safety Measures, Welfare Measures, Employment of Young Persons & Women, Inspector and Powers, Penalties. **MODULE - II** **Welfare Legislation:** The Karnataka Shops and Commercial Establishment Act, 1961- Definition, Registration, Working Hours, Leaves; The Contract Labour (Regulation and Abolition) Act, 1970- Applicability, Definition, Authorities, Registration, Welfare facilities, Ultimate Liability of the Principal Employer. **MODULE - III** **Wage Legislation:** The Payment of Wages Act, 1936- Definition, Liability to pay Wage, Time Limit for Payment, Permissible Deductions, Enforcement; The Minimum Wages Act, 1948- Definitions, Fixing of Minimum Wages, Procedure; The Payment of Bonus Act, 1965- Applicability, Definition, Determination of	

			Definition, Determination of Bonus- (Gross Profit, Available Surplus and Allocable Surplus), Eligibility and Disqualification, Minimum and Maximum bonus, Set off & Set on, Calculation of Bonus, Penalties. **MODULE - IV** **Industrial Relation Legislation:** The Industrial Disputes Act, 1947- Definition, Authorities, Prohibitions on Strike and Lockout, Layoff and Retrenchment, Penalties; The Industrial Employment (Standing Orders) Act, 1946- Definition, Certification, Authorities and Penalty; The Trade Union Act, 1926- Definitions, Formation, Registration, Effects of Registration, Trade Union Funds, Offences and Penalties. **MODULE - V** **Health Legislations:** The Employees State Insurance Act, 1948- Definition, State Insurance Corporation and Medical Council, Contributions, Medical and Insurance Benefits; The Maternity Benefits Act, 1972- Definition, Maternity Benefits, Procedure, Penalties; The Environment Protection Act, 1986- Applicability, Definition, Prevention and Control of	Bonus- (Gross Profit, Available Surplus and Allocable Surplus), Eligibility and Disqualification, Minimum and Maximum bonus, Set off & Set on, Calculation of Bonus, Penalties. **MODULE - IV** **Industrial Relation Legislation:** The Industrial Disputes Act, 1947- Definition, Authorities, Prohibitions on Strike and Lockout, Layoff and Retrenchment, Penalties; The Industrial Employment (Standing Orders) Act, 1946- Definition, Certification, Authorities and Penalty; The Trade Union Act, 1926- Definitions, Formation, Registration, Effects of Registration, Trade Union Funds, Offences and Penalties. **MODULE - V** **Health Legislations:** The Employees State Insurance Act, 1948- Definition, State Insurance Corporation and Medical Council, Contributions, Medical and Insurance Benefits; The Maternity Benefits Act, 1972- Definition, Maternity Benefits, Procedure, Penalties; The Environment Protection Act, 1986-Applicability, Definition, Prevention and Control of Pollution, Laboratories, Penalties. **MODULE - VI** **Social Security Legislations:** The Payment of Gratuity Act, 1972- Definition, Payment of Gratuity, Penalties; The Employee Provident Fund and	

			Pollution, Laboratories, Penalties. **MODULE - VI** **Social Security Legislations:** The Payment of Gratuity Act, 1972- Definition, Payment of Gratuity, Penalties; The Employee Provident Fund and Miscellaneous Provisions Act, 1952- Applicability, Definition, EPF Scheme, EDLI, Employee Pension Scheme, Contribution, Penalties; The Employees Compensation Act, 1923- Applicability, Definition, Employees compensation, Powers of the Commissioner.	Miscellaneous Provisions Act, 1952- Applicability, Definition, EPF Scheme, EDLI, Employee Pension Scheme, Contribution, Penalties; The Employees Compensation Act, 1923- Applicability, Definition, Employees compensation, Powers of the Commissioner.	
16	IV SEMESTER	**INDUSTRIAL RELATIONS AND LABOUR WELFARE**	**MODULE - I** Industry: Concept, Types of industry, problems faced by industrial labour, women in work force. Unorganised industry: Meaning, nature, problems of labour in unorganized sector. **MODULE - II** Industrial relations: Concept and Objectives. Evolution of Industrial relations in India. Factors affecting industrial relations. Industrial disputes: classification, causes and effects of industrial disputes. Mechanisms and machinery for prevention and settlement of industrial disputes: Conciliation, Arbitration, Adjudication. Code of discipline in industry:	**MODULE - I** Industry: Concept, Types of industry, problems faced by industrial labour, women in work force. Unorganised industry: Meaning, nature, problems of labour in unorganized sector. **MODULE - II** Industrial relations: Concept and Objectives. Evolution of Industrial relations in India. Factors affecting industrial relations. Industrial disputes: classification, causes and effects of industrial disputes. Mechanisms and machinery for prevention and settlement of industrial disputes: Conciliation, Arbitration, Adjudication. Code of discipline in industry: Objectives, features, principles. Role of	

			Objectives, features, principles. Role of Government in industrial relations. **MODULE - III** Trade Union: Concept, functions of Trade Unions in India. Approaches: Classless Society approach of Karl Marx, Gandhiji's Approach. Growth and development of Trade Union movement in India. Central Trade Unions. Problems of Trade Unions, Present scenario of Trade Union movement. Labour Policy and Five-year plans. **MODULE - IV** Collective Bargaining: Concept, main features, forms of collective bargaining. Principles, Importance. Collective bargaining process: Develop bargaining relationship, negotiations, contract administration. Worker's participation in management: Meaning, Evolution, objectives, Forms of participation, Levels of participation, Participatory schemes in industrially advanced countries. Forms of workers participation in India. **MODULE - V** Labour Welfare: Concept, meaning, principles and philosophy of Labour welfare. Development of labour	Government in industrial relations. **MODULE - III** Trade Union: Concept, functions of Trade Unions in India. Approaches: Classless Society approach of Karl Marx, Gandhiji's Approach. Growth and development of Trade Union movement in India. Central Trade Unions. Problems of Trade Unions, Present scenario of Trade Union movement. **MODULE - IV** Collective Bargaining: Concept, main features, forms of collective bargaining. Principles, Importance. Collective bargaining process: Develop bargaining relationship, negotiations, contract administration. Worker's participation in management: Meaning, Evolution, objectives, Forms of participation, Levels of participation, Participatory schemes in industrially advanced countries. Forms of workers participation in India. **MODULE - V** Labour Welfare: Concept, meaning, principles and philosophy of Labour welfare. Development of labour welfare in India. Statutory and non-statutory labour welfare measures. Health and Safety. Accidents prevention, precautions in Factories Act, Major occupational diseases: Causes and	

			welfare in India. Statutory and non-statutory labour welfare measures. Health and Safety. Accidents prevention, precautions in Factories Act, Major occupational diseases: Causes and effects. Duties and functions of Labour Welfare Officer. **MODULE - VI** India and ILO: Objectives of ILO, Principles, structure of ILO, Conventions. Impact of ILO on Indian labour.	effects. Duties and functions of Labour Welfare Officer. **MODULE - VI** India and ILO: Objectives of ILO, Principles, structure of ILO, Conventions. Impact of ILO on Indian labour.	
17	IV SEMESTER	**PSYCHIATRIC SOCIAL WORK**	**MODULE I** Mental Health and Mental illness – Concept and meaning. Normality and mental Health. The four perspectives of normality. Mental health as a part of general health, Definition of health. International classification of mental disorder. Psychiatric social work: Historical background of PSW abroad and in India, Training and scope of Psychiatric Social Work. Changing perspectives of Psychiatric Social Work **MODULE II** Psychosis and Neurosis: Characteristics, differences, Signs, symptoms, aetiology and management of neurosis. Signs, symptoms, aetiology and management of organic	**MODULE I** **MENTAL HEALTH INTRODUCTION** Factors that contribute to mental health - Importance of mental health –- Characteristics of mentally healthy person Mental health Model: Primary, Secondary and tertiary. International classification of mental disorder. (ICD 10) Psychiatric social work: Historical background of PSW abroad and in India. Training and scope of Psychiatric Social Work **MODULE II** **ANXIETY, AND STRESS RELATED DISORDER** Generalized anxiety disorder, Panic disorder, Phobic disorder, obsessive - compulsive disorder,	

			and functional psychosis, other minor mental disorders. Signs, Symptoms, aetiology and management of personality disorder Role of social worker in taking care of the neurotics, psychotics and personality disordered. **MODULE – III** Behavior disorders: Characteristics, Types Classification, symptoms and treatment of behavior disorders Autism, Hyperactive Reaction, Unsocialized aggressive reaction, Overanxious and withdrawal reaction, Runaway reaction, Stuttering, other development disorders, Treatment and Prevention. Problems of Mentally challenged- mental Retardation: Causes and Types: Causes, Downs syndrome (Mongolism), Mental Retardation associated with Sociocultural Deprivation Cultural & familial mental retardation. Assessing cultural familial retardation Treatment, Outcomes and Methods. Role of social workers in the care of mentally retarded **MODULE – IV**	Stress related disorders. Post-traumatic stress disorder. (PTSD) Causes, types and clinical features **MODULE III** **BEHAVIOURAL DISORDERS IN CHILDREN** Attention Deficit Hyperactivity Disorder (ADHD), Clinical Features, Prevalence, Etiology, Diagnosis and Management Oppositional Defiant Disorder, Clinical Features, Prevalence, Etiology, Diagnosis and Management Conduct Disorder Clinical Features, Prevalence, Etiology, Diagnosis and Management Elimination Disorder Encopresis, Enuresis, Assessment and Management Feeding and Eating Disorder of Infancy Pica, Rumination disorder, anorexia nervosa, bulimia nervosa, avoidant/restrictive food intake disorder, and binge eating disorder. Assessment and Management **MODULE IV** **PERSONALITY AND SOMATOFORM /DISSOCIATIVE DISORDERS** Clinical features of personality disorders. Categories - Cluster A, B, C, Paranoid, Histrionic, Narcissistic, Antisocial and	

			Policies related to Mental Health, National mental health program – 1982, Mental health 1987 Act, Community Mental Health and Social Work Role of Social work in rehabilitation and day care centres. **MODULE – V** Perspectives on prevention: Primary prevention. Secondary prevention, Tertiary prevention. Organized efforts for Mental Health. Mental Health centers Governmental, Professional and Non trust organizations. Institutes of mental health Mental health project grants provided for development and expansion of local mental health services, providing consultancy services to schools, prisons and welfare agencies. Educational programmes and fostering positive mental health. **MODULE – VI** International efforts for mental health WHO, UNESCO, The world Federation of mental health. Limitation in mental health efforts, Personnel, facilities, Research. Horizons in mental health	Dependent Personality disorders. Somatoform disorders - Pain disorder, Somatization disorder, Conversion disorder, Hypochondriasis and Body Dysmorphic disorder. Dissociative Disorders - Dissociative Amnesia Fugue, Dissociative Identity disorder **MODULE V** **COMMON MENTAL ILLNESS IN THE ELDERLY** Depression, Anxiety Disorder, Phobia Panic Disorder, Insomnia Eating, Disorder, Dementia and cognitive Decline, Alcohol and other substance use disorder, suicide and suicidal Ideation. Role of Social worker in dealing with the elderly **MODULE VI** **POLICIES RELATED TO MENTAL HEALTH** Indian Lunacy Act, 1912, Mental Health Act 1987, Mental Healthcare Act, 2017, The protection of Human Rights Act 1993, National Mental Health Policy for India 2014, Psychiatric Social Work Interventions in reducing Stigma and Discrimination	
18	IV SEMESTER	**THERAPEUTIC COUNSELING**	**MODULE – I**	**MODULE – I**	

			Counselling: Concept of Counselling- Definition and Evolution of counselling. Skills of counselling, Qualities of a counsellor and Ethics of counselling. Process and Physical requisites for counselling atmosphere. **MODULE – II** **Approaches:** Approaches to Counselling. Client cantered therapy Gestalt Therapy. Psycho-analytical therapy Behavior therapy. Rational Emotive Behaviour Therapy **MODULE – III** **Counselling children and adolescents:** Counselling children and adolescents Life skills helping models-Introduction to life skills; Problem-solving, Decision-making, Critical thinking, Creative thinking, Communication skills, Interpersonal skills, Self-awareness, Empathy, Coping with stress and Coping with emotionsTherapy for Children and Adolescents, Attention Deficit/Hyperactivity Disorder (ADHD), Symptoms exhibited by children with ADHD **MODULE –IV** **Counselling-** Vocational/career guidance counselling	**Introduction to Counselling** Concept of Counselling-Definition and Evolution of counselling. Skills of counselling, Qualities of a counselor, and Ethics of counseling. Process and Physical requisites for counselling atmosphere. **MODULE – II** **Approaches to Counselling** Approaches to Counselling. Client-cantered therapy Advanced Applications of Techniques: Empty Chair in Couples and Family Counselling Role Reversal and Improving Communication. Carrot-and-Stick in Workplace Counselling: Managing Conflict and Promoting Positive Behavior Fishbowl in Schools and Community Counselling: Enhancing Communication Among Students or Community Members **MODULE – III** **Counselling children and adolescents** Life skills helping models-Introduction to life skills; Problem-solving, Decision-making, Critical thinking, Creative thinking, Communication skills, Interpersonal skills, Self-awareness, Empathy, coping with stress and Coping with emotions Therapy for Children and Adolescents, Attention	

			Counselling couples-Pre-marital & Marital Counselling Counselling women in distress and violence **MODULE – V** **Skills of Therapeutic counselling** Skills of Therapeutic counseling – Senior Citizens Differently abled, persons affected by chronic illness (cancer) HIV/AIDS **MODULE – VI** **- Skills of counseling in various areas** Skills of counseling in various areas – Chemically dependent Clients (Addiction Counseling), Suicide, prevention and counseling in Industry	Deficit/Hyperactivity Disorder (ADHD), Symptoms exhibited by children with ADHD **MODULE – IV** **Various fields of Counselling** Counselling-vocational/career guidance counselling Counselling couples-Pre-marital & Marital Counselling Counselling women in distress and violence **MODULE – V** **Skills of Therapeutic Counselling** Introduction to Skills of Therapeutic Counselling– Senior Citizens Differently abled, persons affected by chronic illness (cancer) HIV/AIDS **MODULE – VI** **Skills of counselling in various areas** Skills of Counselling in various areas – Chemically dependent Clients (Addiction Counselling), Suicide, prevention, and Counselling in the Industry	

SRINIVAS UNIVERSITY
COLLEGE OF ALLIED HEALTH SCIENCES

PROCEEDINGS OF THE MEETING OF BOARD OF STUDIES HELD ON 05.03.2021 AT 9:30 AM IN THE BOARD ROOM

Members present:

1. Prof. Pavana Krishnamoorthy	Chairman
2. Mr. Naveen Bappanadu	Member
3. Mrs. Swathi D	Member
4. Ms. Varsha A C	Member
5. Ms. Kavya Shettigar K	Member
6. Mrs. Swathi Krishnan	Member
7. Mrs. Priyadhersini. S	Member
8. Dr. Sohan Rodney Bangera	Member
9. Dr. Vrinda J Bhat	External Member
10. Dr. David Rosario	External Member
11. B Balaji Narayan	Industrial Expert

The BOS discussed the following agenda:

1. Approve the minutes of the last Meeting of the BOS held on 21.10.2020.
2. Approval of Changes in Syllabus based on NEP.
3. Proposal for BOS member update.
4. Discussion regarding the Value Added-Courses.
5. Discussion related to Ability Enhancement Courses

Agenda No. 1: Confirmations of the minutes of Last Meeting of Board of Studies which was held on 12.10.2020. The Resolution was taken as per the suggestions of the BOS Members in the last meeting, all the Allied Health Sciences Courses were asked to update the changes proposed by the BOS Members.

Agenda No. 3: Changes were made in Syllabus documents Attached.

Agenda No. 3: The Chairperson stated the importance of adding the External members to the Board of Studies. The suggestion was reviewed by the BOS Members and the decision was taken as suggested.

Agenda No. 4: As per the suggestion of the BOS regarding the Value-Added Courses, Department of Forensic Science suggested a course, "Crime Scene Investigation" and Department of Respiratory Care Technology suggested a course, "Commit to Quit Tobacco". The resolution was taken accordingly for the Academic Year 2021 regarding the Value-Added courses and the same was approved by the BOS.

Agenda No. 5: The proposal was given to add up ability enhancement courses in the syllabus. The further discussion was made regarding the same and the suggestion was approved by the BOS and all the courses were asked to update the syllabus as proposed.

The meeting was concluded at 11:30 AM with a vote of thanks by Ms. Swathi Krishnan, Member and Board of Studies.

Prof. Pavana Krishnamoorthy,
Chairman,
BOS in Allied Health Sciences.

Institute of Allied Health Sciences
Mukka, Mangalore - 574 146

Members present:

DEAN
Prof. Pavana Krishnamoorthy

Mr. Naveen Bappanadu

Mrs. Swathi D

Ms. Varsha A C

Ms. Kavya Shettigar K

Mrs. Swathi Krishnan

Mrs. Priyadhersini. S

Dr. Sohan Rodney Bangera

Dr. Vrinda J Bhat

Dr. David Rosario

B Balaji Narayan

OPTOMETRY

Subject: Amendment in the syllabus of BSc (Optometry)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of BSc (Optometry) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
I	Anatomy and Physiology	Anatomy (20BSCAHS101), Physiology (20BSCAHS102), Anatomy Practical (20BSCPRC101), Physiology Practical (20BSCPRC102)	General Anatomy (Section A) and General Physiology (Section B) (21BSCAHS101) General Anatomy (Section A) and General Physiology (Section B) Practical (21BSCPRC101)
I	Biochemistry	Biochemistry (20BSCAHS103) Biochemistry Practical (20BSCPRC103)	Removed
I	OPT subjects	NIL	Geometrical optics (21BSCOPT101) Geometrical optics practical (21BOPTPRC101)
I	Subsidiary Subjects	Medical Terminology (20BSCAHS104) English (20BSCLAN101)	Constitution of India (21BSCAHS102) Patient Contact Protocol (21BSCAHS103) Kannada (21BSCLAN101) English (21BSCLAN102)
II	OPT subjects	Geometrical optics Physical optics and Principles of Lighting	Basic ocular skills (21BSCOPT203) Ocular anatomy, physiology, Biochemistry Practical (21BOPTPRC201) Physical Optics (21BSCOPT202)

			Physical optics practical (21BOPTPRC202)
II	Subsidiary Subjects	Kannada (20BSCLAN202) Healthcare (20BSCAHS204)	Environmental Science and Health (21BSCAHS202) Hindi (21BSCLAN201) Sanskrit (21BSCLAN202)
III	Microbiology, Pharmacology	Applied Pathology Applied Microbiology	General Microbiology (Section A) and General Pharmacology (Section B) Practical (21BSCPRC301) General Microbiology (Section A) and General Pharmacology (Section B) (21BSCAHS301)
III	OPT subjects	NIL	Applied Ocular skills (21BSCOPT303) CEVS (21BSCOPT302) CEVS Practical (21BOPTPRC302)
III	Subsidiary Subjects	Computer Application/ Programming (20BSCAHS303) Environmental Sciences and Health (20BSCAHS304)	Computer fundamentals (21BSCAHS302) Yoga (21BSCAHS303)
IV	Applied Pathology and Applied Microbiology	Applied Pharmacology	Applied Pathology (Section A) and Applied Microbiology (Section B) (21BSCAHS401) Applied pathology(section A) and applied microbiology (section B) Practical (21BSCPRC401)
IV	OPT subjects	Clinical Examination of Visual System and Optometric Instruments	Clinical skills (21BSCOPT403) Visual Optics Practical (21BOPTPRC401)
IV	Subsidiary Subjects	Biostatistics and Research Methodology (20BSCAHS402) Constitution of India (20BSCAHS403)	Introduction to Clinical Psychology (21BSCAHS402)
V	OPT Subjects	NIL	Systemic Diseases (21BSCOPT504) Contact lens Practical(21BOPTPRC502) Dispensing & Occupational Optometry Practical (21BOPTPRC501)

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Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

V	Subsidiary Subjects	Medical Psychology (20BSCAHS501)	Removed
VI	OPT Subjects	Binocular single vision, Pediatric Optometry and Recent Advances Low vision aids & Geriatric Optometry Systemic Diseases	Geriatric and Pediatric Optometry (21BSCOPT603) Binocular Single Vision (21BSCOPT601) Low vision (21BSCOPT602) Binocular Single Vision and Pediatric Optometry Practical (21BOPTPRC601) Low vision and Geriatric Optometry Practical (21BOPTPRC602)
VI	Subsidiary Subjects	Basic OT Management	Removed
VI	Research	NIL	Research Methodology (21BSCAHS601)
VII	Internship	Clinical skill evaluation I	Internship and Research Project – I (21BSCOPT701)
VIII	Internship	Clinical skill evaluation II and Project	Internship and Research Project – II (21BSCOPT801)

PERFUSION TECHNOLOGY

Subject: Amendment in the syllabus of BSc (Perfusion Technology)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of BSc (Perfusion Technology) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
1ST SEMESTER	• Anatomy • Physiology • Biochemistry • Medical Terminology English		-Combined Anatomy and Physiology, and considered it as general subjects. -Biochemistry is shifted to second semester -Introduction to OT and Instruments was newly added. -Constitution of India was added to 1st semester from 4th semester. - Medical terminology was changed to Patient Contact Protocol. -Kannada was added to 1st semester from 2nd semester.
2ND SEMESTER	• Pathology • Microbiology • Pharmacology • Kannada Healthcare		- Pathology and Biochemistry is combined as General subjects. -Microbiology and Pharmacology shifted to 3rd semester. - History and inventions of cardiopulmonary bypass, General Sterilization & Disinfection of Medical Devices, Hindi and Sanskrit was newly added. -Environmental Science and Health is

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Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

			added from 3rd semester
3RD SEMESTER	• Introduction to Perfusion Technology • Applied Pathology • Applied Microbiology • Computer application/programming Environment science and Health		General Microbiology (Section A) & General Pharmacology (Section B) shifted from previous semester and made it general subjects. Basics of cardiopulmonary bypass part-I, Basics of cardiopulmonary bypass part-II, Introduction to perfusion equipment's and handling subjects are added. Physical education is introduced. Introduction to Perfusion Technology is removed.
4TH SEMESTER	• Applied Pharmacology • Basics of Cardiopulmonary bypass and Perfusion Techniques • Medicine relevant to Perfusion Technology • Biostatics and Research methodology Constitution of India.		Applied Pathology (Section A) & Applied Microbiology (Section B) is added. Applied Pharmacology is removed. Principles of cardiopulmonary bypass& Physiology of cardiopulmonary bypass shifted from 5th semester. Assembling skills & Medical Psychology is added. Constitution of India shifted to1st semester. -Biostatics shifted to 6th semester. Medicine relevant to Perfusion Technology is removed and shifted to 5th semester.
5th semester	• Principles of Cardiopulmonary Bypass		Clinical cardiopulmonary bypass, Applied

	• Physiology of Cardiopulmonary Bypass • Pediatric Perfusion and Special Perfusion Techniques • Elective I Medical Psychology		cardiopulmonary bypass is shifted from 6th semester. Medicine relevant to perfusion technology shifted from previous semester. Principles of cardiopulmonary bypass& Physiology of cardiopulmonary bypass to from 5th semester.
6st semester	• Clinical Cardiopulmonary Bypass • Applied Cardiopulmonary Bypass • Advanced Cardiopulmonary Bypass • Elective 2 Hospital Management		-Biostatics and Research Methodology was added from 4th semester. Pediatric perfusion and special perfusion techniques new subject is added. Clinical Cardiopulmonary Bypass and Applied Cardiopulmonary Bypass subjects shifted to previous semester.

Virology and Immunology

Subject: Amendment in the syllabus of BSc (Virology and Immunology)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of BSc (Virology and Immunology) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject	2020	2021
I	Anatomy Physiology	Anatomy- 20BSCAHS101 Physiology- 20BSCAHS102 Anatomy Practical - 20BSCPRC101 Physiology Practical- 20BSCPRC102	General Anatomy (Section A) and General Physiology (Section B)- 21BSCAHS101 General Anatomy (Section A) and General Physiology (Section B) Practical- 21BSCPRC101
	Biochemistry	Biochemistry -20BSCAHS103 Biochemistry Practical- 20BSCPRC103	Removed
	VI Subjects	NIL	Basic virology, biosafety and biosecurity- 21BSCVI101 Basic virology, biosafety and biosecurity practical- 21VIPRC101
	Subsidiary Subjects	Medical Terminology - 20BSCAHS104 English- 20BSCLAN101	Constitution of India- 21BSCAHS102 Patient Contact Protocol- 21BSCAHS103 Kannada- 21BSCLAN101 English- 21BSCLAN102

Semester	Subject	Existing	Amended
II	Pathology, Microbiology, Pharmacology	Pathology- 20BSCAHS201 Microbiology- 20BSCAHS202	General Biochemistry (Section A) and General Pathology (Section B)- 21BSCAHS201

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Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

		Pharmacology- 20BSCAHS203 Pathology Practical- 20BSCPRC201 Microbiology Practical- 20BSCPRC202 Pharmacology Practical- 20BSCPRC203	General Biochemistry (Section A) and General Pathology (Section B) Practical (21BSCPRC201)
	VI subjects	NIL	Tissue/ cell culture & molecular biology- 21BSCVI201 Tissue/ cell culture & molecular biology practical- 21BVIPRC201 Microbial Pathogenicity & Sterilization-Disinfection Methods- 21BSCVI202
	Subsidiary Subjects	Kannada- 20BSCLAN202 Healthcare- 20BSCAHS204	Environmental Science and Health- 21BSCAHS202 Hindi- 21BSCLAN201 Sanskrit- 21BSCLAN202

Semester	Subject	Existing	Amended
III	Microbiology, Pharmacology	Applied Microbiology- Applied Pathology Applied Microbiology Practical- Applied Pathology Practical-	General Microbiology (Section A) & General Pharmacology (Section B)- 21BSCAHS301 General Microbiology (Section A) & General Pharmacology (Section B) Practical- 21BSCPRC301
	VI Subjects	Basic Virology and Cell & Molecular biology- Basic Virology and Cell & Molecular biology Practical-	Systemic Virology I & bioinformatics- 21BSCVI301 Introduction to Immunology- 21BSCVI302 Systemic Virology I & Immunology practical- 21BVIPRC301 Practical Bioinformatics Skills- 21BSCVI303

		Computer application/ programming- Environmental Science and Health-	Computer fundamentals- 21BSCAHS302 Yoga- 21BSCAHS303

Semester	Subject	Existing	Amended
IV	VI Subject	Virology & Immunology- 20BSCVI401 Biosafety & Biosecurity- 20BSCVI402 Virology & Immunology Practical- 20VIPRC401 Biosafety & Biosecurity Practical- 20VIPRC402	Systemic Virology II- 21BSCVI401 Basic Immunology I- 21BSCVI402 Emerging infectious disease, one health- 21BSCVI403 Systemic Virology II and Basic Immunology I Practical- 21BVIPRC401
	Applied Pathology and Applied Microbiology	NIL	Applied Pathology (Section A) & Applied Microbiology (Section B)- 21BSCAHS401 Applied Pathology (Section A) & Applied Microbiology (Section B) Practical- 21BSCPRC401
		Applied Pharmacology- 20BSCAHS401 Applied Pharmacology Practical- 20BSCPRC401	NIL
	Subsidiary Subjects	Biostatistics and Research Methodology- 20BSCAHS402 Constitution of India- 20BSCAHS403	Introduction to Clinical Psychology- 21BSCAHS402

Semester	Subject name	Existing	Amended
V	VI subjects	Clinical Virology-I- 20BSCVI501 Advanced Immunology- 20BSCVI502 Surveillance- 20BSCVI503	Virological techniques & Analytical methods- 21BSCVI501 Basic Immunology II- 21BSCVI502

		Clinical Virology-I Practical- 20VIPRC501 Advanced Immunology Practical- 20VIPRC502 Surveillance Practical- 20VIPRC503	Public Health Surveillance- 21BSCVI503 Virological techniques & Analytical methods practical- 21BVIPRC501 Basic Immunology II practical- 21BVIPRC502
	Subsidiary Subjects	Medical Psychology- 20BSCAHS501 Medical Ethics and Legal Aspects- 20BSCAHS503	Removed

Semester	Subject name		Amended
VI	VI Subjects	Clinical Virology II- 20BSCVI601 Advanced Immunology II- 20BSCVI602 Basic Epidemiology- 20BSCVI603 Clinical Virology-II Practical- 20VIPRC601 Advanced Immunology II Practical- 20VIPRC602 Basic Epidemiology Practical- 20VIPRC603	Insect vectors of Viral disease & Entomological surveillance- 21BSCVI601 Basic epidemiology- 21BSCVI602 Insect vectors of Viral disease and Entomological surveillance Practical- 21BVIPRC601 Basic epidemiology Practical- 21BVIPRC602
	Subsidiary Subjects	Hospital Management- 20BSCAHS603	Research Methodology- 21BSCAHS601

RENAL DIALYSIS TECHNOLOGY

Subject: Amendment in the syllabus of BSc (Renal Dialysis Technology)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of BSc (Renal Dialysis Technology) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
1ST SEMESTER	Anatomy Physiology Biochemistry Medical Terminology English		Combined Anatomy and Physiology names as general anatomy & physiology -Basics of Dialysis was newly added. -Constitution of India was added to 1st semester from 4th semester. - Medical terminology was changed to Patient Contact Protocol. -Kannada was added to 1st semester from 2nd semester.
2ND SEMESTER	Pathology Microbiology Pharmacology Kannada Healthcare		-combined Pathology and Biochemistry named as General pathology and biochemistry -Introduction to Dialysis, General Sterilization & Disinfection of Medical Devices, Hindi and Sanskrit was newly added. -Environmental Science and Health was added to 2ndsem from 3rd semester
3RD SEMESTER	Applied Anatomy Applied Physiology Applied Pharmacology Computer application/programming Environment science and Health		combined Microbiology and Pharmacology named as general microbiology and pharmacology Care and techniques of temporary vascular access and blood based therapies are newly added.
4TH SEMESTER	Applied Pathology Applied Microbiology Introduction to Renal Dialysis Technology Biostatics and Research methodology		Introduction to RDT was changed to Innovation in dialysis Vascular Access. - Medicine related disease in dialysis was shifted from 5th semester to 4th semester.

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Mukka, Mangalore - 574 146

	Constitution of India.		-Care and techniques of permanent vascular access was newly added. - Medical terminology was changed and shifted to 1st sem Constitution of India shifted to n1st semester. -Biostatics shifted to 6th semester..
5th semester	Hemodyalysis Renal Replacement Therapy Medicine related to Renal Dialysis Technology Medical Psychology		- Medicine related disease in dialysis was changed to Infection Control in Dialysis Unit. -Added Haemodialysis Technology as elective subject.
6st semester	Renal diet and Nutrition Renal Transplantation Peritoneal Dialysis Hospital Management		-Biostatics and Research Methodology was added from 4th semester.

Medical Laboratory Technology

Subject: Amendment in the syllabus of BSc (Medical Laboratory Technology)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of BSc (Medical Laboratory Technology) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
I	Anatomy and Physiology	Anatomy (20BSCAHS101), Physiology (20BSCAHS102), Anatomy Practical (20BSCPRC101), Physiology (20BSCPRC102)	General Anatomy (Section A) and General Physiology (Section B) (21BSCAHS101) General Anatomy (Section A) and General Physiology (Section B) Practical (21BSCPRC101)
I	Biochemistry	Biochemistry (20BSCAHS103) Biochemistry Practical (20BSCPRC103)	Removed
I	MLT subjects	NIL	21BSCMLT101Basic Laboratory Practices 21BMLTPRC101 Basic Laboratory Practices Practical
I	Subsidiary Subjects	Medical Terminology (20BSCAHS104) English (20BSCLAN101)	Constitution of India (21BSCAHS102) Patient Contact Protocol (21BSCAHS103) Kannada (21BSCLAN101) English (21BSCLAN102)
II	Pathology, Microbiology, Pharmacology	Pathology (20BSCAHS201), Microbiology (20BSCAHS202), Pharmacology (20BSCAHS203) Pathology Practical (20BSCPRC201), Microbiology Practical (20BSCPRC202),	General Biochemistry (Section A) and General Pathology (Section B) (21BSCAHS101) General Biochemistry (Section A) and General Pathology (Section B) Practical (21BSCPRC201)

DEAN
Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

		Pharmacology Practical (20BSCPRC203)	
II	MLT subjects	NIL	21BSCMLT201Essentials of Medical Laboratory Essentials of Medical Laboratory Practical21BMLTPRC201 21BSCMLT202Sterilization and Disinfection
II	Subsidiary Subjects	Kannada (20BSCLAN202) Healthcare (20BSCAHS204)	Environmental Science and Health (21BSCAHS202) Hindi (21BSCLAN201) Sanskrit (21BSCLAN202)
III	Microbiology, Pharmacology	NIL	General Microbiology (Section A) and General Pharmacology (Section B) (21BSCAHS301) General Microbiology (Section A) and General Pharmacology (Section B) Practical (21BSCPRC301)
III	MLT subjects	Biochemistry Part 1 Pathology Part 1 Microbiology Part 1 Biochemistry Part 1 Practical Pathology Part 1Practical Microbiology Part 1 Practical	21BSCMLT301 Pathology I and Biochemistry I 21BSCMLT302 Microbiology I Basic Genetics Microbiology I Practical
III	Subsidiary Subjects	Computer Application/ Programming (20BSCAHS303) Environmental Sciences and Health (20BSCAHS304)	Computer fundamentals (21BSCAHS302) Yoga (21BSCAHS303)
IV		NIL	
IV	MLT subjects	Biochemistry Part 2 Pathology Part 2 Microbiology Part 2 Biochemistry Part 2 Practical Pathology Part 2 Practical Microbiology Part 2 Practical	21BSCMLT401Biochemistry II 21BSCMLT402Pathology II and Microbiology II 21BSCMLT403Toxicology 21BSCMLT404Automation 21BMLTPRC401 Biochemistry II Practical 21BMLTPRC402Pathology II and Microbiology II Practical
IV	Subsidiary Subjects	Biostatistics and Research Methodology (20BSCAHS402)	Introduction to Clinical Psychology (21BSCAHS402)

		Constitution of India (20BSCAHS403)	
V	MLT Subjects	Biochemistry Part 3 Pathology Part 3 Microbiology Part 3 Biochemistry Part 3 Practical Pathology Part 3 Practical Microbiology Part 3 Practical	21BSCMLT501Pathology III 21BSCMLT502Microbiology III and Biochemistry III 21BSCMLT503Nutritional Biochemistry Pathology III Practical Microbiology III and Biochemistry III Practical
V	Subsidiary Subjects	Medical Psychology (20BSCAHS501)	Removed
VI	MLT Subjects	Biochemistry Part 4 Pathology Part 4 Microbiology Part 4 Biochemistry Part 4 Practical Pathology Part 4 Practical Microbiology Part 4 Practical	21BSCMLT601Quality Control Management and Laboratory Safety 21BSCMLT602Laboratory Instruments and Techniques 21BSCAHS601 Research Methodology 21BSCCVT604Echocardiography (ECHO) 21BSCMIT604 Radiation Safety 21BMLTPRC601-Quality Control Management and Laboratory Safety Practical 21BMLTPRC602-Laboratory Instruments and Techniques Practical
VI	Subsidiary Subjects	Hospital Management (20BSCAHS603)	Removed

Anesthesia and Operation Theatre Technology

Subject: Amendment in the syllabus of B.Sc. (Anesthesia and Operation Theatre Technology)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of B.Sc. (Anesthesia and Operation Theatre Technology) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
I	Anatomy and Physiology	Anatomy (20BSCAHS101), Physiology (20BSCAHS102), Anatomy Practical (20BSCPRC101), Physiology (20BSCPRC102)	General Anatomy (Section A) and General Physiology (Section B) (21BSCAHS101) General Anatomy (Section A) and General Physiology (Section B) Practical (21BSCPRC101)
I	Biochemistry	Biochemistry (20BSCAHS103) Biochemistry Practical (20BSCPRC103)	Removed
I	AOTT subjects	NIL	Fundamentals of surgery and instrumentation (21BSCAOT101) Fundamentals of surgery and instrumentation Practical (21BAOTPRC101)
I	Subsidiary Subjects	Medical Terminology (20BSCAHS101) English (20BSCLAN101)	Constitution of India (21BSCAHS102) Patient Contact Protocol (21BSCAHS103) Kannada (21BSCLAN101) English (21BSCLAN102)
II	Pathology, Microbiology, Pharmacology	Pathology (20BSCAHS201), Microbiology (20BSCAHS202), Pharmacology (20BSCAHS203) Pathology Practical (20BSCPRC201),	General Biochemistry (Section A) and General Pathology (Section B) (21BSCAHS101) General Biochemistry (Section A) and General Pathology (Section B) Practical (21BSCPRC201)

DEAN
Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

		Microbiology Practical (20BSCPRC202), Pharmacology Practical (20BSCPRC203)	
II	AOT subjects	NIL	Introduction to Anesthesia (21BSCAOT201) Introduction to Anesthesia Practical (21BAOTPRC201) OT Sterilization and Disinfection (21BSCAOT202)
II	Subsidiary Subjects	Kannada (20BSCLAN201) Healthcare (20BSCAHS201)	Environmental Science and Health (21BSCAHS202) Hindi (21BSCLAN204) Sanskrit (21BSCLAN203)
III	Microbiology, Pharmacology	NIL	General Microbiology (Section A) and General Pharmacology (Section B) (21BSCAHS301) General Microbiology (Section A) and General Pharmacology (Section B) Practical (21BSCPRC301)
III	AOT subjects	Introduction to Anesthesia and Operation Theatre Technology (20BSCAOT301) Applied Pathology (20BSCAOT302) Applied Microbiology (20BSCAOT303) Introduction to Anesthesia and Operation Theatre Technology Practical (20AOTPRC301) Applied Pathology Practical (20AOTPRC302) Applied Microbiology Practical (20AOTPRC303)	Basics of Anesthesia (21BSCAOT301) Perioperative Diagnostic Procedures (21BSCAOT302) General microbiology (Section A) & General Pharmacology (Section B) (21BSCAHS301) Perioperative Diagnostic Procedures Practical (21BAOTPRC302) General microbiology (Section A) & General Pharmacology (Section B) Practical (21BSCPRC301)
III	Subsidiary Subjects	Computer Application/ Programming (20BSCSKE301) Environmental Sciences and Health (20BSCAHS301)	Computer fundamentals (21BSCAHS302) Basic Life Support (BLS) (21BSCRT303) Yoga (21BSCAHS303)

IV	Applied Pharmacology	NIL	Applied Pathology (Section A) and Applied Microbiology (Section B) (21BSCAHS401) Applied pathology (section A) and applied microbiology (section B) Practical (21BSCPRC401)
IV	AOT subjects	Applied Pharmacology (20BSCAOT401) Basics of Anesthesia (20BSCAOT402) Medicine relevant to Anesthesia and Operation Theatre Technology (20BSCAOT403) Applied Pharmacology Practical (20AOTPRC401) Basics of Anesthesia Practical (20AOTPRC402) Medicine relevant to Anesthesia and Operation Theatre Technology Practical (20AOTPRC403)	Patient Monitoring and vital handling (21BSCAOT401) Applied Pathology and Microbiology (21BSCAHS401) Applied Pharmacology (21BSCAHS403) Techniques of Drug Therapy (21BSCAOT403) Patient Monitoring and vital handling Practical (21BAOTPRC401) Applied Pharmacology Practical (21BSCPRC401)
IV	Subsidiary. Subjects	Biostatistics and Research Methodology (20BSCSKE401) Constitution of India (20BSCAHS401)	Introduction to Clinical Psychology (21BSCAEC401)
V	AOT Subjects	Clinical Anesthesia and Operation Theatre (20BSCAOT501) Applied Anesthesia and Operation Theatre (20BSCAOT502) Advanced Anesthesia and Operation Theatre (20BSCAOT503) Clinical Practical Exam 1 (20AOTCPE501)	Medicine relevant to Anesthesia (21BSCAOT501) Applied Surgery (21BSCAOT502) Critical care medicine (21BSCRTT503) Applied Surgery Practical (21BAOTPRC501) Critical care medicine Practical (21BSCPRC503) Electrocardiogram (21BSCCVT504) Basic Radiology (21BSCMIT504)

			Nosocomial infection (21BSCMLT504) Basic clinical optometry (21BSCOPT504) Cardiopulmonary Bypass (21BSCPFT504) Hemodialysis Technology (21BSCRDT504) Cardiovascular Life Support (21BSCRT504) Virology Techniques I (21BSCVI504)
V	Subsidiary Subjects	Medical Psychology (20BSCAHS501)	Removed
VI	AOT Subjects	Speciality Anaesthesia and Operation Theatre (20BSCAOT601) Emergency Medicine and Technique (20BSCAOT602) Surgery relevant to Anesthesia and Operation Theatre (20BSCAOT603) Clinical Practical Exam 2 (20AOTCPE601)	Speciality Anesthesia (21BSCAOT601) Emergency medicine and critical care (21BSCAOT602) Echocardigram (21BSCCVT604) Radiation Safety (21BSCMIT604) Health Care (21BSCMLT6043) Optometric instruments (21OPTGEC601) Dialysis Therapy (21BSCRDT604) Virology Techniques II (21BSCVI604) Specialty Anesthesia Practical (21BAOTPRC601) Emergency medicine and critical care Practical (21BAOTPRC602)
VI	Subsidiary Subjects	Hospital Management (20BSCAHS601)	Removed

Forensic Science

Subject: Amendment in the syllabus of B.Sc. (Forensic Science)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of B.Sc. (Forensic Science) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
I Sem		1. Biochemistry was removed	1. Added preparative strategies, computer applications and sanskrit along with Introduction to Forensic Science practical and General Microbiology and General Pharmacology practical.
II Sem		1. Biochemistry was added	Criminalistics, preparative strategies and public speaking subjects were added.
III Sem		Forensic Dermatoglyphics, crime & society, computer applications and criminal law was present.	Subjects like Forensic Chemistry, criminal science, forensic science in crime scene investigation, EVS and Yoga were added along with Forensic Chemistry practicals.
IV Sem		Technological methods in forensic science & drug analysis was present.	Added Fundamentals of Questioned documents, forensic chemistry, biostatistics and research methodology, constitution of India.
V Sem		1. Forensic Physics, Forensic medicine, forensic biology & serology, Environmental science was present.	Forensic dermatoglyphics, criminal law, forensic ballistics, research methodology was added.

DEAN
Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

VI Sem		Forensic anthropology, forensic toxicology, forensic ballistics, digital forensics and mini project was present.	1. Questioned documents, forensic microbiology, forensic biology & serology was added.

Clinical Psychology

Subject: Amendment in the syllabus of B.Sc. (Clinical Psychology)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of B.Sc. (Clinical Psychology) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
1st sem		Introduction to History of Psychology Basic Psychological Processes Physiological Psychology Part I Clinical Practical 1 Field Practicum 1 Medical Terminology	Introduction to Psychology (renamed) Digital Forensic Awareness Sanskrit (added) Computer Applications(added from 3rd sem to 1st sem) Social Interaction (SEC 1) added (Medical Terminology removed)
2nd sem		Physiological Psychology part II Biological Psychology Clinical Practical 2 Field Practicum 2 Health care	Concept of Digital cyber crime (added) Hindi (added) Managing Stress(added) Constitution of India (AEC 2)(added) (Removed- Health care)
3rd sem		Lifespan Development Cognitive Psychology Neuropsychology Clinical Practical 3 Field Practicum 3 Computer application/programming Environment science and Health	Biological Psychology (added) IT ACT (added) Medical Terminology (added from 1st sem to 3rd sem) Development of Emotional Competence(added) YOGA(added) Removed
4th sem		Social Psychology Cultural Psychology Clinical Practical 4 Field Practicum 4 Biostatistics and Research methodology	Physiological Psychology(added from 1st sem to 4th sem) Behavioural school of thoughts(added)

DEAN
Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

		Constitution of India	Environmental Science and Health (changed from 3rd sem to 4th sem) Development of Socio Cognitive Skills (AEC 4)(added)
5th sem		Abnormal Psychology Counseling and Psychotherapy Clinical Practical 5 Field Practicum 5 Medical Ethics were removed	Psychological disorders Part1(renamed) Social Psychology (added from 4th sem to 5th sem) Theories of Personality Psychodiagnostics Part 1 Industrial and organizational Psychology Practicals were added
6th sem		Abnormal Psychology Part II Counseling and Psychotherapy Part II Health Psychology Clinical Practical 6 Field Practicum6 5 Hospital Management were removed	Psychological disorders Part 2 (renamed) Introduction to Counselling and Psychotherapy (renamed) Research Methodology (added Internship (Mini Project) Basics of Counselling Techniques (added) Psychodiagnostics Part 2 were added
7th			7th sem added in 2021 syllabus Psychopathology Part 1 Counselling and Psychotherapy Statistical Analysis Counselling Techniques Psychodiagnostics Part 3 Psychological Interaction
8th			8th sem added in 2021 syllabus Psychopathology Part 2 Group Counselling and Group Therapy Rehabilitation Psychology Psychodiagnostics Part 4 Dissertation Internship

RESPIRATORY THERAPY

Subject: Amendment in the syllabus of B.Sc. (Respiratory Therapy)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of B.Sc. (Respiratory Therapy) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
I SEM		• Anatomy theory(separate) Physiology theory(separate) • Anatomy practical(separate) Physiology practical(separate) • Biochemistry(removed) • Medical terminology(removed)	• General anatomy and general physiology theory(combined) • General anatomy and general physiology practical(combined) • Introduction to respiratory care theory(added) • Introduction to respiratory care practical(added) • Constitution of India(added) • Patient contact protocol(added) • Kannada(added)
II SEM		• Pathology theory(separate) • Pathology practical(separate) • Microbiology (removed) • Pharmacology(removed) • Kannada(removed) Health care(removed)	• General biochemistry and general pathology theory(combined) • General biochemistry and general pathology practical(combined) • Clinical respiratory care theory and clinical respiratory care practical(added) • Environmental science and health(added)

DEAN
Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

			• General sterilization and disinfection of medical devices(added) • Hindi(added) • Sanskrit(added)
III SEM		• Introduction to respiratory care technology(removed) • Applied pathology theory and practical(removed) • Applied microbiology theory and practical(removed) • Computer application/programming(removed) Environmental science and health(removed)	• Cardiopulmonary anatomy and physiology theory(added) • Diagnostic techniques theory and practical(added) • General microbiology and general pharmacology theory and practical(added) • Advanced cardiovascular life support(added) • Computer fundamentals(added) • Yoga(added)
IV SEM		• Clinical respiratory care theory and practical(removed) • Applied pharmacology theory and practical(removed) • Medicine relevant to respiratory care technology theory and practical(removed) • Biostatistics and research methodology(removed) Constitution of India(removed)	• Neonatal and pediatric respiratory care theory and practical(added) • Respiratory care pharmacology(added) • Applied pathology and applied microbiology theory and practical(added) • Clinical skill practices(added) • Introduction to clinical psychology(added)
V SEM		• Patient assessment and monitoring theory and practical(removed) • Respiratory care applied theory and practical(removed) • Medical psychology(removed) • Open electives removed	• Respiratory disease process theory and practical(added) • Critical care medicine theory and practical(added) • Open electives added

		Medical ethics and legal aspects	○ Peri-anesthetic management ○ Forensic science in crime scene investigation ○ Basic radiology ○ Nosocomial infection ○ Systemic disease in neuroscience-I ○ Basic clinical optometry ○ Cardiopulmonary bypass ○ Hemodialysis technology ○ Cardiovascular life support ○ Virology techniques I
VI SEM		• Respiratory care-clinical theory and practical (removed) • Respiratory care-applied theory and practical (removed) • Recent advances and basic intensive care theory and practical (removed) • Hospital management (removed) • Open electives removed ○ Basic radiography Basis OT management	• Applied respiratory therapy science theory and practical(added) • Advanced respiratory therapy science theory and practical(added) • Research methodology(added) • Open electives added ○ General principles of surgery ○ Echocardiography (ECHO) ○ Aspects of forensic science laboratory ○ Radiation safety ○ Health care

			○ Systemic diseases in neuroscience II ○ Optometric instruments ○ Introduction to perfusion equipment ○ Dialysis therapy ○ Pulmonary function testing ○ Virology techniques II

Cardiac Care Technology

Subject: Amendment in the syllabus of BSc (Cardiac Care Technology)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of BSc (Cardiac Care Technology) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
I	Anatomy and Physiology	Anatomy (20BSCAHS101), Physiology (20BSCAHS102), Anatomy Practical (20BSCPRC101), Physiology (20BSCPRC102)	General Anatomy (Section A) and General Physiology (Section B) (21BSCAHS101) General Anatomy (Section A) and General Physiology (Section B) Practical (21BSCPRC101)
I	Biochemistry	Biochemistry (20BSCAHS103) Biochemistry Practical (20BSCPRC103)	Removed
I	CGT subjects	NIL	Introduction to Cardiac Care Technology Part I (21BSCCCT101) Introduction to Cardiac Care Technology Part I Practical (21BCCTPRC101)
I	Subsidiary Subjects	Medical Terminology (20BSCAHS104) English (20BSCLAN101)	Constitution of India (21BSCAHS102) Patient Contact Protocol (21BSCAHS103) Kannada (21BSCLAN101) English (21BSCLAN102)
II	Pathology, Microbiology, Pharmacology	Pathology (20BSCAHS201), Microbiology (20BSCAHS202), Pharmacology (20BSCAHS203) Pathology Practical (20BSCPRC201), Microbiology Practical (20BSCPRC202),	General Biochemistry (Section A) and General Pathology (Section B) (21BSCAHS101) General Biochemistry (Section A) and General Pathology (Section B) Practical (21BSCPRC201)

DEAN
Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

		Pharmacology Practical (20BSCPRC203)	
II	CCT subjects	NIL	Introduction to Cardiac Care Technology Part II (21BSCCCT201) Introduction to Cardiac Care Technology Part II Practical (21BCCTPRC201)
II	Subsidiary Subjects	Kannada (20BSCLAN202) Healthcare (20BSCAHS204)	Environmental Science and Health (21BSCAHS202) Basic Life Support (21BSCAHS203) Hindi (21BSCLAN201) Sanskrit (21BSCLAN202)
III	Microbiology, Pharmacology	NIL	General Microbiology (Section A) and General Pharmacology (Section B) (21BSCAHS301) General Microbiology (Section A) and General Pharmacology (Section B) Practical (21BSCPRC301)
III	CCT subjects	Basics of Electrocardiography (20BSCCCT301) Basics in Cardiology (20BSCCCT302) Cardiac Pathophysiology (20BSCCCT303) Basics of Electrocardiography Practical(20CCTPRC301) Basics in Cardiology Practical (20CCTPRC302) Cardiac Pathophysiology Practical(20CCCTPRC303)	Basics of Electrocardiography (21BSCCCT301) Diagnostics and Therapeutics in Cardiology (21BSCCCT302) Cardiac Practical I (21BCCTPRC302)
III	Subsidiary Subjects	Computer Application/ Programming (20BSCAHS303) Environmental Sciences and Health (20BSCAHS304)	Advanced Cardiovascular Life Support (21BSCRT303) Computer fundamentals (21BSCAHS302) Yoga (21BSCAHS303)

IV	Applied Pathology and Applied Microbiology	NIL	Applied Pathology (Section A) and Applied Microbiology (Section B) (21BSCAHS401) Applied pathology(section A) and applied microbiology (section B) Practical (21BSCPRC401)
IV	CCT subjects	Advanced Electrocardiography (20BSCCCT401) Diagnostics and Therapeutics in Cardiology (20BSCCCT402) Medicine relevant to Cardiac Care Technology (20BSCCCT403) Advanced Electrocardiography Practical (20CCTPRC401) Diagnostics and Therapeutics in Cardiology Practical (20CCTPRC402) Medicine relevant to Cardiac Care Technology Practical (20CCTPRC403)	Advanced Electrocardiography (21BSCCCT401) Medicine relevant to Cardiac Care Technology (21BSCCCT402) Cardiothoracic and Vascular Surgery (21BSCCCT403) Cardiac Practical II (21BCCTPRC401)
IV	Subsidiary Subjects	Biostatistics and Research Methodology (20BSCAHS402) Constitution of India (20BSCAHS403)	Introduction to Clinical Psychology (21BSCAHS402)
V	CCT Subjects	Basics of Cardiac Catheterization and Intervention (20BSCCCT501) Basics of Echocardiography (20BSCCCT502) Basic in Clinical Cardiology (20BSCCCT503) Basics of Cardiac Catheterization and Intervention Practical (20CCTPRC501) Basics of Echocardiography Practical (20CCTPRC502) Basics in Clinical Cardiology Practical (20CCTPRC503)	Basics of Echocardiography (21BSCCCT501) Basics of Cardiac Catheterization and Intervention (21BSCCCT502) Basics of Clinical Cardiology (21BSCCCT503) Echocardiography and Clinical Practical I (21BCCTPRC501) Basics of cardiac catheterization and intervention Practical (21BCCTPRC502)
V	Subsidiary Subjects	Medical Psychology (20BSCAHS501)	Removed

VI	CCT Subjects	Advanced Cardiac Catheterization and Intervention (20BSCCCT601) Advanced Echocardiography (20BSCCCT602) Advanced Clinical Cardiology (20BSCCCT603) Advanced Cardiac Catheterization and Intervention Practical (20CCTPRC601) Advanced Echocardiography Practical(20CCTPRC602) Advanced Clinical Cardiology Practical(20CCTPRC603)	Advanced Echocardiography (21BSCCCT601) Advanced Cardiac Catheterization and Intervention (21BSCCCT602) Advanced Clinical Cardiology(21BSCCCT603) Echocardiography and Clinical Practical II (21BCCTPRC601) Advanced Cardiac Catheterization and Intervention Practical (21BCCTPRC602)
VI	Subsidiary Subjects	Hospital Management (20BSCAHS603)	Removed

Cardiovascular Technology

Subject: Amendment in the syllabus of BSc (Cardiovascular Technology)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of BSc (Cardiovascular Technology) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
I	Anatomy and Physiology	Anatomy (20BSCAHS101), Physiology (20BSCAHS102), Anatomy Practical (20BSCPRC101), Physiology (20BSCPRC102)	General Anatomy (Section A) and General Physiology (Section B) (21BSCAHS101) General Anatomy (Section A) and General Physiology (Section B) Practical (21BSCPRC101)
I	Biochemistry	Biochemistry (20BSCAHS103) Biochemistry Practical (20BSCPRC103)	Removed
I	CVT subjects	NIL	Introduction to Cardiovascular Technology Part I (21BSCCVT101) Introduction to Cardiovascular Technology Part I Practical (21BCVTPRC101)
I	Subsidiary Subjects	Medical Terminology (20BSCAHS104) English (20BSCLAN101)	Constitution of India (21BSCAHS102) Patient Contact Protocol (21BSCAHS103) Kannada (21BSCLAN101) English (21BSCLAN102)
II	Pathology, Microbiology, Pharmacology	Pathology (20BSCAHS201), Microbiology (20BSCAHS202), Pharmacology (20BSCAHS203) Pathology Practical (20BSCPRC201), Microbiology Practical (20BSCPRC202),	General Biochemistry (Section A) and General Pathology (Section B) (21BSCAHS101) General Biochemistry (Section A) and General Pathology (Section B) Practical (21BSCPRC201)

DEAN
Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

		Pharmacology Practical (20BSCPRC203)	
II	CVT subjects	NIL	Introduction to Cardiovascular Technology Part II (21BSCCVT201) Introduction to Cardiovascular Technology Part II Practical (21BCVTPRC201)
II	Subsidiary Subjects	Kannada (20BSCLAN202) Healthcare (20BSCAHS204)	Environmental Science and Health (21BSCAHS202) Basic Life Support (21BSCAHS203) Hindi (21BSCLAN201) Sanskrit (21BSCLAN202)
III	Microbiology, Pharmacology	NIL	General Microbiology (Section A) and General Pharmacology (Section B) (21BSCAHS301) General Microbiology (Section A) and General Pharmacology (Section B) Practical (21BSCPRC301)
III	CVT subjects	Basics of Electrocardiography (20BSCCVT301) Basics in Cardiology (20BSCCVT302) Cardiac Pathophysiology (20BSCCVT303) Basics of Electrocardiography Practical(20CVTPRC301) Basics in Cardiology Practical (20CVTPRC302) Cardiac Pathophysiology Practical(20CCVTPRC303)	Basics of Electrocardiography (21BSCCVT301) Diagnostics and Therapeutics in Cardiology (21BSCCVT302) Cardiac Practical I (21BCVTPRC302)
III	Subsidiary Subjects	Computer Application/ Programming (20BSCAHS303) Environmental Sciences and Health (20BSCAHS304)	Advanced Cardiovascular Life Support (21BSCRT303) Computer fundamentals (21BSCAHS302) Yoga (21BSCAHS303)

IV	Applied Pathology and Applied Microbiology	NIL	Applied Pathology (Section A) and Applied Microbiology (Section B) (21BSCAHS401) Applied pathology(section A) and applied microbiology (section B) Practical (21BSCPRC401)
IV	CVT subjects	Advanced Electrocardiography (20BSCCVT401) Diagnostics and Therapeutics in Cardiology (20BSCCVT402) Cardiac Pharmacology (20BSCCVT403) Advanced Electrocardiography Practical (20CVTPRC401) Diagnostics and Therapeutics in Cardiology Practical (20CVTPRC402) Cardiac Parmacology Practical (20CVTPRC403)	Advanced Electrocardiography (21BSCCVT401) Medicine relevant to Cardiac Care Technology (21BSCCVT402) Cardiothoracic and Vascular Surgery (21BSCCVT403) Cardiac Practical II (21BCVTPRC401)
IV	Subsidiary Subjects	Biostatistics and Research Methodology (20BSCAHS402) Constitution of India (20BSCAHS403)	Introduction to Clinical Psychology (21BSCAHS402)
V	CVT Subjects	Basics of Cardiac Catheterization and Intervention (20BSCCVT501) Basics of Echocardiography (20BSCCVT502) Approach to Clinical Cardiology (20BSCCVT503) Basics of Cardiac Catheterization and Intervention Practical (20CVTPRC501) Basics of Echocardiography Practical (20CVTPRC502) Approach to Clinical Cardiology Practical (20CVTPRC503)	Basics of Echocardiography (21BSCCVT501) Basics of Cardiac Catheterization and Intervention (21BSCCVT502) Basics of Clinical Cardiology (21BSCCVT503) Echocardiography and Clinical Practical I (21BCVTPRC501) Basics of cardiac catheterization and intervention Practical (21BCVTPRC502)
V	Subsidiary Subjects	Medical Psychology (20BSCAHS501)	Removed
VI	CVT Subjects	Advanced Cardiac Catheterization and Intervention (20BSCCVT601)	Advanced Echocardiography (21BSCCVT601)

		Advanced Echocardiography (20BSCCVT602) Advanced Clinical Cardiology (20BSCCVT603) Advanced Cardiac Catheterization and Intervention Practical (20CVTPRC601) Advanced Echocardiography Practical(20CVTPRC602) Advanced Clinical Cardiology Practical(20CVTPRC603)	Advanced Cardiac Catheterization and Intervention (21BSCCVT602) Advanced Clinical Cardiology(21BSCCVT603) Echocardiography and Clinical Practical II (21BCVTPRC601) Advanced Cardiac Catheterization and Intervention Practical (21BCVTPRC602)
VI	Subsidiary Subjects	Hospital Management (20BSCAHS603)	Removed

MEDICAL IMAGING TECHNOLOGY

Subject: Amendment in the syllabus of BSc (Medical Imaging Technology)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of BSc (Medical Imaging Technology) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
1ST SEMESTER	• Anatomy • Physiology • Biochemistry • Medical Terminology English		Anatomy & Physiology is combined and considered as general subject. .Biochemistry is shifted to the second semester - Basic Physics of Radiology was newly added. -Constitution of India was added to 1st semester from 4th semester. - Medical terminology was changed to Patient Contact Protocol. -Kannada was added to 1st semester from 2nd semester. -General anatomy and physiology pratical is added
2ND SEMESTER	• Pathology • Microbiology • Pharmacology • Kannada Healthcare		- Pathology & Biochemistry is combined as common subject. -Microbiology and pharmacology shifted to 3rd semester - Medical & Radiation Physics, General Sterilization &

DEAN
Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

			Disinfection of Medical Devices, Hindi and Sanskrit was newly added. -Environmental Science and Health was added to 2nd sem from 3rd semester
3RD SEMESTER	• Physics of Radiology • Medical Physics • Radiographic film & Image processing • Computer • application/programming Environment science and Health		-General Microbiology& General Pharmacology shifted from previous semester - Physics of Radiology,Medical Physics Radiographic film & Image processing subjects are modified and removed -Orthopaedics & Radiographic Positioning I, Patient Care in Radiology, Basic Radiology skills I subjects is added -Sports and Arts is introduced - Praticals for Orthopedics & Radiographic Positioning and Patient Care in Radiology is added
4TH SEMESTER	• Radiation Physics • Radiographic Photography and Image Processing • Mammography, fluoroscopy and mobile radiography • -Biostatics and Research methodology Constitution of India.		- Radiation Physics , Radiographic Photography and Image Processing ,Mammography, fluoroscopy and mobile radiography-modifications made and removed -Diagnostic Techniques,

			Radiographic Positioning II, Radiographic Film & Image Processing is newly added as departmental subjects -Constitution of India shifted to 1st semester. -Biostatics shifted to 6th semester..
5th semester	• Physics of ultrasound & CT • Radiography of spine and extremities • Contrast media: reactions and management & special radiography procedures Medical Psychology		-Physics of ultrasound & CT , Radiography of spine and extremities ,Contrast media: reactions and management & special radiography procedures subjects modified and changes made -Ultrasound shifted to 6th semester - Radiological Procedures / Interventional techniques, Basics of CT & NMT, Radiation Protection is added
6st semester	• Physics and hardware of MRI & Nuclear Medicine • Radiography of chest, abdomen, pelvis & skull • Recent Advances&guided radiological procedures Hospital Management		-MRI is made a separate subject -Ultrasonography shifted from previous sem and made a separate subject -Biostatics and Research Methodology was added from 4th semester.

Digital and Cyber Forensic

Subject: Amendment in the syllabus of BSc (Digital and Cyber Forensic)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of BSc (Digital and Cyber Forensic) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
I Sem		Removed, 1. Fundamental Information Technology 2. Concept of Digital Cyber Crime 3. Police Science and Vigilance 4. Introduction to Forensic Science	Added, 2. Introduction to Cyber Security and Programming Language C, 3. Digital Forensic Awareness 4. Criminal Law and Minor Acts 5. Empirical Study on Programming Language - C Sanskrit
II Sem		Removed, 1. E-Commerce and networking 2. Programming Language C 3. Introduction to Cyber Security 4. English 5. Forensic Psychology	Added, 1. Police Science and Vigilance 2. Programming Language JAVA 3. Psychological perspective in education 4. Criminology and Victimology 5. Environmental science Yoga/Sport/Art

DEAN
Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

III Sem		Removed, 1. Security Architecture 2. Mobile Forensic 3. IPC , CRPC , IEA Crime and Society	Added, 1. Introduction to Cyber Security and Introduction to programming language C++ 2. Concept of Digital Cyber Crime 3. IT Act 4. Empirical study on Cyber Security 5. Hindi English
IV Sem		Removed, 1 . Operating System and Linux 2 Forensic audio video analysis and speaker identification 3 Cyber Crime Investigation and Digital forensic 4 Digital Evidence Collection and Procedure IT Act	Added 1. Ethical hacking and Network defense 2. Introduction to Android OS 3. 4. Programming Language – Python Forensic Accounting and auditing Constitution of India
V Sem		Removed, 1. VB.Net 2. Constitution of India 3. Bio-statistic and Research Methodology 4. Environmental Science 5. Constitution of India	Added, 1. Cryptography and Information Security 2. Introduction to Operating System and File system analysis 3. Research Methodology Cloud Computing and big data
VI Sem		Removed, 2. Ethical Hacking and Forensic 3. Network computing and communication project	Added, 1. Biometric Security 2. Vulnerability assessment and penetration testing Dissertation

VII Sem			Added, 1. Malware Analysis in Virtual Machine 2. Network Computing and Communication Mobile device forensic and E- commerce
VIII Sem			Added, 1. Software Engineering 2. Applied Cryptography 3. Data analytics

SRINIVAS UNIVERSITY

INSTITUTE OF EDUCATION

PROCEEDINGS OF THE MEETING OF BOARD OF STUDIES HELD ON 1st JANUARY 2021 AT 2.00 P.M.

Members present:

Dr. Jayashree K	Dean/Chairman
Dr. Kumaraswamy	External member
Mr. Padmanabha C.H	Member
Dr. Vijayalakshmi Naik	Member
Mrs. Reshma M Y	Member
Mrs. Seema P.V	Member
Mrs. Shakeela K	Member
Kumari Anusha Jane D'souza	Alumni

The BOS discussed the following agenda:

- Amendment in the syllabus of two-year B.Ed. Programme of Srinivas University for the fresh admission of 2021-2022.
- Calendar of Events drafted for the fresh batch of 2021-2022.
- New BOS Members formulated including subject experts from other colleges and alumni.
- New BOE members formulated with two external members.

Agenda 1

- This is regarding the notification from the Registrar SU/REG/AFF/2020-21/08 dated 19-09-2020 that the admission of the fresh batch B.Ed. program under Srinivas University will commence in January 2021.

As per the protocol, the institution's vision and mission were drafted, along with program-specific objectives for inclusion in the syllabus.

The following general corrections were made in the syllabus:

- Some subjects are shifted between the first, second, and third semesters.
- Number of units increased from four to five in 100-mark paper.

P.T.O.

The following specific corrections were made in the syllabus:

Note: Childhood and Growing Up was the first semester paper now shifted to the second semester. The learning and Teaching process was for the third semester before now shifted to the first semester. All second-semester papers shifted to the third semester and third-semester papers shifted to the second semester.

Sl. No.	Semester	Course	Present Syllabus	Revised Syllabus	% change in the
1.	I SEMESTER	CHILDHOOD AND GROWING UP	**Unit 1:** Concept, Meaning, Scope and Functions of Educational Psychology Growth and Development: Concept and Differences, Developmental Influences, Development as a resultant of Interactions between individual Potential (innate, acquired) and external environment (Physical, Socio-cultural, ecological, economic and technological). Nature and nurture continually and discontinuity issues, growth and Maturation. Gathering data about children from different contexts: naturalistic observations, Interviews, reflective journals about children; anecdotal records and narratives, case study, Survey. Domains: Physical, Sensory-perceptual, cognitive, socio-emotional, language and communication, social relationship. **Unit 2: Stage of human development** Child as a developing individual; A psycho-Social entity; stages of development Developmental characteristics of a child and an adolescent: physical, cognitive, social, emotional, moral and language; their interrelationships Developmental tasks of childhood and adolescence and their implications Factors influencing development such as heredity & environment,	**LEARNING AND TEACHING PROCESS** **UNIT 1: PSYCHOLOGY IN TEACHING & LEARNING PROCESS** Psychology: Meaning and definition of psychology, Nature and scope of psychology. Interrelationship between Education and Psychology Educational Psychology: Meaning and Scope of Educational Psychology and its implications to teaching & learning process. Methods of studying human behaviour: Introspection method, Observation method, Case study and Experimental method. Meaning, steps, uses and limitations. Implications to teaching & learning Process **UNIT 2: LEARNING AND INDIVIDUAL DIFFERENCES AMONG LEARNERS** Human learning: Meaning and definition, Transfer of learning Learning theories and their implications to classroom teaching – Behaviourism: Pavlov's classical conditioning, Thorndike's connectionism, Skinner's operant conditioning Gestaltism: Learning by insight – Kohler Intelligence: Definition and Nature of Intelligence, Concept of IQ - Theory of multiple intelligences (Howard Gardner) - Concept and significance of	

			media, nutrition, child-rearing practices, siblings and peers. **Unit 3: theoretical approaches to development** Cognitive & Social – cognitive theories (Piaget, Vygotsky, Bruner, Bandura) Psycho- social Theory (Erikson) and Psychoanalytic Theory (Freud) Ecological Theory (Bronfrenbrenner) Holistic Theory of Development (Steiner) **Unit 4: Adolescence: issues and concerns** 4.1 Realistic and contextual frames of growing up in adolescence: Cultural differences and adolescence Impact of economic changes, urbanisation and Media, Adolescence in difficult circumstances. 4.2 Issues and Concerns: Problems of adjustment Understanding of emotional disturbance and risk behaviour Identity Crisis Development of emotions: Functions of emotions, attachment – Bowlby. 4.3 Parent child conflict Drug addiction and Abuse Bullying Juvenile delinquency Health awareness – prevention and control. 4.4 Life Skills and Independent Living: 10 life skills given by UNICEF, Career Choices: Holland's Theory	emotional intelligence (David Goleman) 2.4 Creativity: Meaning and dimensions of creativity, measures and special techniques to foster creativity among the learners. **UNIT 3: FACTORS AFFECTING LEARNING PROCESS** 3.1: Sensation, perception & Attention: Meaning and process, factors affecting perception and attention 3.2: Memory: Meaning and Model of memory (Atkinson and Shiffrin) Techniques to improve memory, forgetting – meaning and causes for forgetting, Forgetting Curve by H. Ebbinghaus, 3.3: Motivation: Meaning Maslow's theory of hierarchy of needs, Extrinsic, intrinsic and achievement motivation, Measures to enhance motivation levels of the learners. 3.4: Personality: Meaning and Traits of Healthy personality, Measurement of Personality, Defense Mechanism **UNIT 4: LEARNING IN CONSTRUCTIVIST PERSPECTIVES** 4.1 Distinctions between learning as "construction of knowledge" and learning as transmission and reception of knowledge. 4.2 Processes to facilitate "Construction of knowledge" Experiential learning and reflection Social mediation Cognitive negotiability Situated learning and cognitive apprenticeship Metacognition 4.3 Creating facilitative learning environment; teachers attitude, self- reflection, enhancing motivation, utilising learners experience in Classroom process,	

				Joyful learning. 4.4 Learner Autonomy: Self-regulated learning **UNIT 5: CREATING FACILITATIVE LEARNING ENVIRONMENT** 5.1 Learning Environment-Formal, Informal, home learning environment, study skills, Classroom-climate. 5.2 Learning in groups-types of groups, characteristics of groups, sociometry; use and importance group dynamics, group cohesion, educational implication. 5.3 Multiculturism; concept, need, Significance in learning 5.4 Assessment of learning; Assessment for learning, assessment as learning; meaning concepts and characteristics.	
2.	I SEMESTER	PHILOSOPHICAL AND SOCIOLOGICAL BASES OF EDUCATION	**UNIT 4: State and education** 4.1: Modernization: meaning and attributes, education in relation to modernization. 4.2: Education as human resource development: Concept, problems related to human Resource development. Population family, women use of population as human Resource implication to education. 4.3: Education for Emotional and national Integration, Education for International Understanding-meaning and need. 4.4: Human rights education: aspects of human rights declaration on the rights of the Child major highlights, role education for human rights.	**UNIT 4: state and education** 4.1: modernization: meaning and attributes, education in relation to modernization. 4.2: Education as human resource development: Concept, problems related to human Resource development. Population family, women use of population as human Resource implication to education. 4.3: Education for Emotional and national Integration, Education for International Understanding-meaning and need. 4.4Liberalisation and globalization in Education: Concept, role and functions **UNIT 5: NATIONAL CONCERNS IN EDUCATION** 5.1: Vocationalisation of education 5.2: Environmental education 5.3: Human rights education: aspects of human rights declaration, role education for Human rights. 5.4: Rights of Child, major highlights.	

4.	I SEMESTER	**PEDAGOGY OF SCHOOL SUBJECT -I: LANGUAGES BED20CPS 1.4.1 ²PÀËT ±Á¸ÀÛÇ ºÁUÀÆ ¨ÉÆÃZSÀ£À «µÀAIÀÄ –I: ¨SÁµÉಗಳು**	**WÀlPÀ 2 ಭಾಷಾ ಸಂವಹನ ಕೌಶಲಗಳು** 2.1 ಆಲಿಸುವಿಕೆಯ ಉದ್ದೇಶಗಳು: ಆಲಿಸುವಿಕೆಯನ್ನು ಬೆಳೆಸಲು ಇರುವಲ್ಲಿನ ಚಟುವಟಿಕೆಗಳು. 2.2 ಮಾತನಾಡುವಿಕೆಯ ಉದ್ದೇಶಗಳು: ಮಾತನಾಡುವ ಕೌಶಲದಲ್ಲಿನ ದ್ವನ್ಯಾಂಗಗಳ ಪ್ರಾಮುಖ್ಯತೆ. 2.3 ಓದುಗಾರಿಕೆಯ ಉದ್ದೇಶಗಳು: ಓದುಗಾರಿಕೆ ಕೌಶಲವನ್ನು ಉತ್ತಮ ಪಡಿಸಲು ಇರುವಂತಹ ಚಟುವಟಿಕೆಗಳು. 2.4 ಬರವಣಿಗೆಯ ಉದ್ದೇಶಗಳು: ಉತ್ತಮ ಕೈ ಬರಹದ ಲಕ್ಷಣಗಳು, ಬರವಣಿಗೆ ಉತ್ತಮ ಪಡಿಸುವ ವಿಧಾನಗಳು.	**PEDAGOGY OF SCHOOL SUBJECT -I: LANGUAGES** **²PÀët ±Á¸ÀÛç ºÁUÀÆ ¨ÉÆÃzsÀ£À «µÀAiÀÄ –1: ¨sÁµÉಗಳು** **WÀlPÀ 2 ಭಾಷಾ ಸಂವಹನ ಕೌಶಲಗಳು** 2.1. ಆಲಿಸುವಿಕೆಯ ಉದ್ದೇಶ, ಆಲಿಸುವಿಕೆಯಲ್ಲಿನ ತೊಡಕುಗಳು ಮತ್ತು ಪರಿಹಾರ ಕ್ರಮಗಳು. 2.2 ಮಾತನಾಡುವಿಕೆ ಉದ್ದೇಶ, ಮಾತನಾಡುವ ಕೌಶಲದಲ್ಲಿನ ದೋಷಗಳು ಮತ್ತು ಪರಿಹಾರ ಕ್ರಮಗಳು. 2.3 ಓದುಗಾರಿಕೆ ಉದ್ದೇಶ, ಓದುಗಾರಿಕೆ ಕೌಶಲದಲ್ಲಿ ಆಗುವ ದೋಷಗಳು ಮತ್ತು ಪರಿಹಾರ ಕ್ರಮಗಳು. 2.4ಬರವಣಿಗೆ: ಉತ್ತಮ ಕೈ ಬರಹದ ಲಕ್ಷಣಗಳು, ಬರವಣಿಗೆ ಉತ್ತಮ ಪಡಿಸುವ ವಿಧಾನಗಳು, ಬರವಣಿಗೆಯಲ್ಲಾಗುವ ದೋಷಗಳು, ನಿವಾರಣೋಪಾಯಗಳು.	
10	II SEMESTER	**CONTEMPORARY EDUCATION IN INDIA**	**UNIT 1: INDIAN EDUCATIONAL HERITAGE AND DEVELOPMENT** 1.1 Pre independence education period [Vedic, Buddhist, Muslim, British-Macaulay's minute, Woods dispatch, Sergent commission] 1.2 Post independence education period [Mudaliyar commission, Kothari commission, NPE 1986, National curriculum framework 2005] 1.3 Right to Education-2009. 1.4 SSA-Concept and objectives, RMSA-Concept and Significance. **UNIT 2: CONSTITUTIONAL PROVISIONS AND CURRENT ISSUES IN INDIAN EDUCATION** 2.1 Fundamental & derived rights in relation to education. 2.2 Articles related to education [29, 30, and 45] 2.3 National curriculum framework 2005 2.4 Issues in relation to	**CHILDHOOD AND GROWING UP** **UNIT 1: PERSPECTIVES IN DEVELOPMENT** 1.1 Human development as a discipline from infancy to adulthood. 1.2 Growth and Development: Concept and Differences, Developmental Influences, Development as a resultant of Interactions between individual Potential (innate, acquired) and external environment (Physical, Socio-cultural, ecological, economic and technological). Nature and nurture continually and discontinuity issues, growth and Maturation. 1.3 Gathering data about children from different contexts: naturalistic observations, Interviews, reflective journals about children; anecdotal records and narratives, case study. survey.	

			universalization of education: Medium of instruction, Language formula, access, enrolment, dropout, retention, stagnation & wastage. **UNIT 3: TYPES OF SCHOOL IN INDIA** 3.1 In relation to funding: State, Aided, Un-aided 3.2 In relation to philosophy: Aurobindo [Auroville], Rabindranath Tagore: [Shantiniketan], Jiddu Krishnamurthy [Rishi Valley] 3.3 Other types: Jawahar navodaya vidyalaya[JNV], Murarji Desai schools, Kithuru rani Chenamma, Kasthurbha Gandhi, Balika Vidyalaya, Ashrama School, Adarsha School. 3.4 Affiliation Based Types: CBSE, SBSE, ICSE **UNIT 4: POLICIES, PROGRAMMES & SCHEMES FOR ENHANCEMENT OF QUALITY** 4.1 Karnataka Education Act 1983: with reference to primary and secondary education. 4.2 Role and functions: BRC, DIET, CTE, IASE, DSERT 4.3 Equalisation of Educational opportunities-concept and measures 4.4 Education for all: meaning and efforts.	1.4 Domains: Physical, Sensory-perceptual, cognitive, socio-emotional, language and communication, social relationship. **UNIT 2: STAGE OF HUMAN DEVELOPMENT** 2.1 Child as a developing individual; A psycho-Social entity; stages of development 2.2 Developmental characteristics of a child and an adolescent: physical, cognitive, social, emotional, moral and language; their interrelationships 2.3 Developmental tasks of childhood and adolescence and their implications 2.4 Factors influencing development such as heredity & environment, media, nutrition, child-rearing practices, siblings and peers **UNIT 3: THEORETICAL APPROACHES TO DEVELOPMENT** 3.1 Cognitive & Social – cognitive theories (Piaget, Vygotsky, Bruner, Bandura) 3.2 Psycho- social Theory (Erikson) and Psychoanalytic Theory (Freud) 3.3 Ecological Theory (Bronfrenbrenner) 3.4 Holistic Theory of Development (Steiner) **UNIT 4: ADOLESCENCE: ISSUES AND CONCERNS** 4.1 Realistic and contextual frames of growing up in adolescence: Cultural differences and adolescence Impact of economic changes, urbanisation and Media, Adolescence in difficult circumstances. 4.2 Issues and Concerns: Problems of adjustment Understanding of emotional disturbance and risk behaviour Identity Crisis Development of emotions: Functions of emotions,	

				attachment – Bowlby. 4.3 Parent child conflict Drug addiction and Abuse Bullying Juvenile delinquency Health awareness – prevention and control. 4.4 Life Skills and Independent Living: 10 life skills given by UNICEF, Career Choices: Holland's Theory **UNIT 5: CHILD AND ADJUSTMENT** 5.1 Meaning nature and mechanism of adjustment. 5.2 Adjustment problems of child causes and cures. 5.3 Factors influencing mental health of child. 5.4 Role of parents, teacher and peer group for improving mental health of child.	
11	II SEMESTER	**KNOWLEDGE & CURRICULUM**	**UNIT -1 EPISTEMOLOGICAL BASIS OF EDUCATION** 1.1 Nature of knowledge: Knowledge: meaning, characteristics and facets of knowledge - local and universal, concrete and abstract theoretical and practical; Knowledge in relation to Information and Skill: Concept and Differences. 1.2 Teaching and Training: Concept and Differences. 1.3 Nature of Propositional Knowledge: Rational, Belief and Truth: Concept and Differences. 1.4 Modern child centred education: Concept of Modern child centred education with following reference- A] Activity – Concept and Importance with reference to Gandhi and Rabindranath Tagore. B] Discovery- Concept and Importance with reference to Dewey. C] Dialogue – concept and Importance with reference to Plato. **UNIT: 2 KNOWLEDGE IN EDUCATION** 2.1 Knowledge as a field of knowledge: education – concept and characteristics; Disciplinary	**EDUCATIONAL TOOLS, TECHNIQUES AND ASSESSMENT** **UNIT 1: INSTRUCTION TO PEDAGOGY & TEACHING STRATEGIES** 1.1 Pedagogy – Concept, Critical Pedagogy- Concept and Characteristics. 1.2 Teaching strategies and methods – Meaning, Characteristics, inter relationship of teaching Cycle, Teaching methods and Teaching strategies. 1.3 Active learning Strategies – types – individual and group. -Concept, Characteristics and Class room application. 1.4 Individualized instruction: Programmed Instruction- Meaning, Concept, principles, types – Linear & Branching - Merits and Limitations **UNIT 2: TEACHING AND LEARNING MODELS** 2.1 Models of teaching – concept, characteristics, fundamental elements, families of modern models of teaching: Historical, Philosophical, Modern Models-	

			knowledge- meaning, categorisation of knowledge for construction of discipline; constitution of disciplinary knowledge- characteristics of discipline and forms of discipline- basic, applied, multi-disciplinary and inter-disciplinary areas. 2.2 Social aspects of Knowledge: Education as a social system, Education as a process of social progress; Educational change because of industrialization, idea of individual autonomy in the context of society, culture and modernization. 2.3 Education in relation to modern values**:** Education in relation to Equity, Equality, Individual Opportunity, Social Justice and secularism, with special reference to Ambedkar. 2.4 Nationalism, Universalism, Secularism and their interrelation with Education. **UNIT: 3 PROCESS OF CURRICULUM DEVELOPMENT** 3.1 Curriculum: Concept and Importance, Bases of Curriculum. Stages of curriculum construction, Teachers role in curriculum construction. 3.2 Relationship between aims of education and curriculum. 3.3 Role of curriculum in effective teaching and learning process, Curriculum and discipline. 3.4 Various co-curricular activities and its impact on reconstruction of society. **UNIT 4: EDUCATIONAL ADMINISTRATION AND MANAGEMENT** 4.1 The concept, objectives, nature and importance of Educational organization, Administration and management. 4.2 Ministry of Human Resource Development (MHRD), Advisory bodies to the Central Government on Education: UGC, CABE, NUEPA, NCTE, NCERT,	Classification; Families of Modern, models - Syntax, application. 2.2 Modern models of teaching – Information processing models, Inquiry Training Model, Concept Attainment Model (CAM), personal models- Synectics (making familiar to strange) 2.3 Learning packages – development and use. 2.4 Approaches of teaching – Learner centred approach, learning centred approach – Concept, Characteristics. **UNIT 3: CONCEPT OF ASSESSMENT** 3.1 Meaning, and concept of Assessment, measurement and Evaluation and their interrelationship; Assessment: concept, characteristics, importance of assessment and role of assessment in teaching - learning; Difference between Measurement and Evaluation; Types- Prognostic, Formative, Summative, Process and Product – meaning and characteristics; Grading – concept and characteristics, Learning Experience – Meaning, relationship between learning experience & Assessment. 3.2 Continuous and Comprehensive Evaluation- Meaning, concept, characteristics and significance. 3.3 Techniques of Evaluation: oral, written, essay, short answer, objective – meaning, characteristics, performance test- meaning significance; Evaluation tools: Rating scale, check test questionnaire, Anecdotal records – meaning procedure of construction and use. 3.4 Teacher made Test – meaning, characteristics, achievement test, construction and use; diagnostic test-concept, characteristics & construction; Standardized test- meaning, characteristics	

			Management committees-SDMC, PTA. 4.3 Basic Components of the management: Planning, Organizing, Directing, Controlling, Decision Making, Communication and Resource Management. 4.4 Institutional Planning: Concept, objectives, importance, preparation and problems, Staff meeting, Time-Table and Management of Resources: Human, Finance and other infrastructures, Karnataka State Quality Assessment Organization: Nature, Role and Function, Institutional plant: Physical Surrounding and maintenance, School Records: Types, Need and maintenance, E-records: nature, need and applications.	procedure of construction. **UNIT 4: BASICS OF EDUCATIONAL STATISTICS** 4.1 Educational data: meaning of raw score, data, ways of describing data; preparation of frequency distribution, methods of graphical representation of data-Frequency polygon, Histogram, Pie chart, Normal Probability Curve; procedure of construction and use. 4.2 Measures of Central tendency: Mean, Median and Mode; calculation and use. 4.3 Measures of Variability: Range, Quartile deviation, Mean Deviation: Meaning and Use; Standard Deviation: Meaning, calculation and use. 4.4 Correlation: Concept and use; Measures of Rank Difference correlation; calculation. **UNIT 5: INNOVATIVE TRENDS IN ASSESSMENT OF LEARNING** 5.1 Areas of assessment: Scholastic and Co-scholastic 5.2 Online exam and open book exams: Meaning, objectives and limitations 5.3 Role of Feedback to enhance the learning process: Parent's and Teacher's feedback 5.4 Rubrics as an assessment tool-construction and uses	
12	II SEMESTER	**GENDER, SCHOOL AND SOCIETY**	**UNIT 1: GENDER AND SOCIETY** 1.1 Gender – concept and meaning. Differences between gender and sex. A brief introduction to feminist theories: radical, Psychoanalyst, socialist and Marxist. 1.2 Gender bias – Patriarchy and causes for gender discrimination. 1.3 Agencies of social construction of Gender – Socialization in the family, school, occupation and gender stereotypes prevalent in the society, media and	**INCLUSIVE EDUCATION** **UNIT 1: INTRODUCTION TO INCLUSIVE EDUCATION** 1.1 Concept of Inclusive Education, Integrated Education and special Education 1.2 Need, Objectives & scope of Inclusive Education 1.3 Factors responsible for successful inclusion in the mainstream – future vision Understanding the cultures, Policies and practices of Inclusive schools, Policies and programs of Inclusions	

			literature. 1.4 Gender and its relation to poverty, caste, class, religion, disability and region (rural, urban and tribal areas). **UNIT 2: GENDER EQUALITY AND GENDER SENSITIVITY** 2.1 Gender equality – meaning and significance. 2.2 Gender sensitivity – meaning, need for gender sensitisation. 2.3 Gender equality as a basic Human Rights principle. 2.4 Pedagogic strategies to promote gender sensitisation-gender inclusive class room, developing positive self concept and self esteem among girls, teacher as an agent of change. **UNIT 3: POLICIES AND REFORMS** 3.1 Social reform movements for women- Rajram Mohan Roy, Ishwar Chandra Vidya Sagar, D.K. Karve, Savithri Bai Phule. 3.2 Constitutional and legal provisions for girl child education. Contribution of government and other agencies for upliftment of girl child. Beti Bachao, Beti Padao- aims, significance, measures. 3.3 Legal support and acts for protection of women- Prenatal diagnostic techniques act 1994, domestic violence act 2005, POSCO act 3.4 Third gender – concept, provisions of education and other programmes for the improvement of people of transgender, Supreme court verdict about transgender.	1.4 Definition of disability and inclusion in educational framework, Threats of psychological problems of disability, Models of disability, Identification of barriers in learning and participation in relation to learners in Inclusive set up. **UNIT 2: DIFFRENTLY ABLED CHILDREN IN INCLUSIVE SYSTEM** 2.1 Concept, classification, characteristics, causes, problems and Educational provisions for – gifted children 2.2 Physically challenged and visually challenged children 2.3 Children with speech and auditory challenged children 2.4 Mentally challenged children and children with learning challenges **UNIT 3: POLICIES AND PROVISIONS FOR INCLUSION** 3.1 International convention: Recommendations of Salamanca statement and framework of action (1994), U.N. convention on the rights of persons with Disabilities (PWD) (2006) 3.2 Constitutional Provisions: PWD act(1995), RCI Act (1992), RTE Act (2009) 3.3 Policies, programmes, schemes, Institutes - National Policy on disabilities (2006), Scheme for Inclusive Education for disabled children (IEDC, 2000) - SSA (2000), RMSA - RCI and National institutes accountable for disabilities 3.4 Role of Functionaries (Teachers, Parents, Peer Group, Administrators, Community, NGOs, Govt. and Private organizations, rehabilitation and social Workers)	
13	II SEMESTER	**HEALTH AND PHYSICA**	**UNIT 1: HEALTH EDUCATION, COMMUNICABLE DISEASES,**	**PEDGOGY OF SCHOOL SUBJECT1: ENGLISH** **UNIT 1: APPROACHES TO**	

		L EDUCATION	**CONTEMPORARY HEALTH PROBLEMS & FIRST AID** 1.1 Concept of Health Education: Meaning, aims, Objectives, importance and principles of Health Education. 1.2 School health education programme: Importance, objectives and characteristics. -Healthful school living: meaning and factors. -School Health services: meaning, programmes and agencies. -School Health instruction: Principles and methods. 1.3 Communicable Diseases: Meaning, common symptoms, Mode of Transmission & Prevention. -Abuse of alcohol, tobacco and drugs and effect of abuse on individual, family and community. -Effect of alcohol, drugs and tobacco on sportsperson. -Development of desirable health habits and good posture. 1.4 First Aid: Meaning, Principles of First Aid, qualities of first aider. - First Aid for Fracture, Dislocation, Sprain and strain, Cuts and wounds. **UNIT 2: PHYSICAL EDUCATION** 2.1 Physical Education: Meaning, Scope & Objectives, relationship with general education, Need of physical education as an integral part of education. 2.2 Methodology of teaching Physical Education, steps in Class Management. General Lesson Plan, Specific Lesson Plan. 2.3 Qualities and qualifications of a physical education teacher. -Types of physical education activities: major indoor and outdoor games 2.4 Tournament: Meaning, Drawing Fixture: Single Knockout and League: Intramurals and Extramural competition.	**TEACHING AND PLANNIN** 1.1 Teaching of prose- Objectives and methods of teaching prose-5E method –bilingual method, structural method direct method, situational approach, communicative approach, constructivist approach. 1.2 Teaching of poems- objectives and methods of teaching of poems, writing lessons plans for the teaching of poem. 1.3 Teaching of Grammar- Objectives and methods of teaching grammar, writing lessons plans for the teaching of grammar, teaching of composition. 1.4 Instructional objectives: Blooms taxonomy of learning domains. **UNIT 2: LANGUAGE TEACHER AND LANGUAGE EVALUATION** 2.1 Content analysis: content and concept analysis of high school English text book. 2.2 Annual plan, unit plan, unit test, characteristics of well-balanced question paper and steps. 2.3 Language evaluation: diagnostic test and remedial teaching. 2.4 Special abilities and qualities of a English teacher. **UNIT 3: USES OF LEARNING AIDS AND RESOURCES IN LANGUAGE TEACHING** 3.1 Audio visual aids: black board, pictures, flash cards, radio, tape recorder, films, television. 3.2 Resources for facilitating teaching of language: use of internet, language room, Language laboratory. 3.3 Activities in language teaching: English club, tour, debate, seminar, interview, Quiz, pick and speak, recitation, workshops. 3.4 Resources for language learning: text book, reference book, encyclopedia, Dictionary,	

			UNIT 3 PHYSICAL EDUCATION FACILITIES 3.1 Playfields – marking of various playfields, care and maintenance of play fields, purchase and care of equipment. 3.2 Officiating – general principles, pre-game duties, during the game and post game duties. 3.3 Olympics: origin and development of Ancient and modern Olympics. -Asian Games: origin and development of Asian Games -Flag hoisting and de-hoisting 3.4 Meaning, Importance of Camping, NSS, NCC, Scouts and Guides.	thesaurus.	
14	II SEMESTER	**VALUE EDUCATION**	**Unit 1: Importance of value in Education.** 1.1 Meaning of values, Nature and significance 1.2 Classification of Values – absolute and relative, Indian values, Personal and social values, relation between values and needs, place of values in personality formation, personality development and education. 1.3 Different types of values- Intellectual, social, spiritual, Aesthetic, economic, health, democratic and culture. 1.4 Contemporary Values- Scientific Temper, Intellectual Honesty, Social service and protection of Environment. **Unit 2: Sources of Values** 2.1 Meaning and Importance of value education. 2.2 Sources of Value Education – Auto biography and biography of great people, parables, Vedas, Bhagavadgita, Shlokas, Poems, Newspapers Clippings, Episodes from Real Life, Documents etc. 2.3 Organisation of all values under five basic values – truth, righteous conduct, peace, love and non-violence. 2.4 Role of Teachers in Value Education and teaching value education in secondary school.	**ಕನ್ನಡ ವಿಷಯಾಧಾರಿತ ಬೋಧನಾ ಪದ್ಧತಿ** ಘಟಕ:**1** ಭಾಷಾ ಬೋಧನಾ ವಿಧಾನಗಳು ಮತ್ತು ಯೋಜನೆಗಳು 1.1 ಗದ್ಯ ಬೋಧನೆ: ಉದ್ದೇಶಗಳು, ಈ-ಇ ಪಾಠಯೋಜನೆ, ದ್ವಿಭಾಷಿಕ ವಿಧಾನ, ಅರ್ಥ, ಹಂತಗಳು, ಪ್ರತ್ಯಕ್ಷ ವಿಧಾನ, ರಚನಾತ್ಮಕ ವಿಧಾನ, ಪ್ರಾಸಂಗಿಕ ವಿಧಾನ, ಸಂವಹನ ವಿಧಾನ, ಸಂರಚನಾತ್ಮಕ ವಿಧಾನ. 1.2 ಪದ್ಯ ಬೋಧನೆ: ಉದ್ದೇಶಗಳು, ಪದ್ಯಪಾಠ ಯೋಜನೆ, ಖಂಡ ಹಾಗೂ ಅಖಂಡ ಪದ್ಧತಿಗಳು. 1.3 ವ್ಯಾಕರಣ ಬೋಧನೆ: ಉದ್ದೇಶಗಳು, ಅನುಗಮನ/ನಿಗಮನ ಪದ್ಧತಿ, ಪ್ರಬಂಧ ಬೋಧನೆ: ಉದ್ದೇಶಗಳು, ಬೋಧನಾ ವಿಧಾನಗಳು, ಪ್ರಬಂಧ ಬೋದನೆಯಲ್ಲಿ ರೂಪ ಸಾದೃಶ್ಯಮಾದರಿ. 1.4 ಬೋಧನಾ ಉದ್ದಿಷ್ಟಗಳು: ಭಾಷಾ ಬೋಧನೆಗೆ ಸಂಬಧಿಸಿದಂತೆ ಬ್ಲೂಮ್ ನ ಹೊಸ ಬೋಧನಾ ಉದ್ದೇಶಗಳ ವರ್ಗೀಕರಣ ಘಟಕ:**2** ಭಾಷಾ ಶಿಕ್ಷಕ ಮತ್ತು ಭಾಷಾ ಮೌಲ್ಯಮಾಪನ	

			Unit 3: Approaches of Value Education in Secondary Schools 3.1 The Direct Approach: - Discussion – Panel, Symposium, Interview. - Brainstorming and Buzz Session. - Sharing reflection on songs, slogans, poems, scripture passages. - Parables, stories, bio graphics, anecdotes, case study, role play, attitude test. - Photo-language. 3.2 The Indirect Approach - Value Integration through School curriculum; Identification of plug-points in school subjects for value education. -Use of incidental occurrences/occasions to highlight values. 3.3 Audio-visual Resources in Value Education: Pictures, posters, advertisements, bulletin- board, puppet shows, tape-recorder, slide film strips, films T.V./Video programmes, Internet, Multi-media, CDs. 3.4 Field trips – visits to hospitals, ashrams, temple/mosque/church.	2.1 ವಿಷಯ ವಿಶ್ಲೇಷಣೆ: ಪ್ರೌಢಶಾಲಾ ಕನ್ನಡ ಭಾಷಾ ಪಠ್ಯಪುಸ್ತಕಕ್ಕೆ ಸಂಬಂಧಿಸಿದ ಪರಿಕಲ್ಪನೆಗಳ ವಿಶ್ಲೇಷಣೆ, ಮಹತ್ವ 2.2 ವಾರ್ಷಿಕ ಯೋಜನೆ, ಘಟಕ ಯೋಜನೆ, ಘಟಕ ಪರೀಕ್ಷೆ, ಸಂತುಲಿತ ಪ್ರಶ್ನೆಪತ್ರಿಕೆ,ಗುಣಲಕ್ಷಣ ಮತ್ತು ಹಂತಗಳು 2.3 ಭಾಷಾ ಮೌಲ್ಯಮಾಪನ: ನೈದಾನಿಕ ಪರೀಕ್ಷೆ, ಪರಿಹಾರ ಬೋಧನೆ. 2.4 ಕನ್ನಡ ಭಾಷಾ ಅಧ್ಯಾಪಕನ ಅರ್ಹತೆ ಮತ್ತು ವಿಶಿಷ್ಟ ಸಾಮರ್ಥ್ಯಗಳು. ಘಟಕ:**3** <u>ಭಾಷಾ ಬೋಧನೆಯಲ್ಲಿ ಕಲಿಕಾ ಸಾಧನಗಳು ಮತ್ತು ಸಂಪನ್ಮೂಲಗಳ ಬಳಕೆ</u> 3.1 ದೃಕ್ ಶ್ರವಣ ಉಪಕರಣಗಳು: ಕರಿಹಲಗೆ, ಚಿತ್ರ, ಚಿಮುಕಿಸುವ ಕಾರ್ಡು, ರೇಡಿಯೋ ಧ್ವನಿ ಸುರುಳಿಗಳು, ಫಿಲ್ಮ್ ಗಳು, ದೂರದರ್ಶನ. 3.2 ಭಾಷಾ ಬೋಧನೆಯಲ್ಲಿ ಸಂಪನ್ಮೂಲಗಳು: ಅಂತರ್ಜಾಲದ ಬಳಕೆ, ವಿಷಯ ಕೊಠಡಿ, ಭಾಷಾ ಪ್ರಯೋಗ ಶಾಲೆ. 3.3 ಭಾಷಾ ಬೋಧನೆಯಲ್ಲಿ ಚಟುವಟಿಕೆಗಳು: ಕನ್ನಡ ಸಂಘ, ಪ್ರವಾಸ, ಚರ್ಚಾಗೋಷ್ಠಿ, ವಿಚಾರ ಗೋಷ್ಠಿ, ಸಂದರ್ಶನ, ಸಾಹಿತಿಗಳ ಭೇಟಿ, ರಸ ಪ್ರಶ್ನೆ ಕಾರ್ಯಕ್ರಮ, ಆಶುಭಾಷಣ, ಗೀತ ಸ್ಪರ್ಧೆ, ಕಾರ್ಯಗಾರಗಳು. 3.4 ಭಾಷೆಕಲಿಕೆ, ಅನುಕೂಲಿಸುವಲ್ಲಿ ಸಂಪನ್ಮೂಲಗಳು: ಪಠ್ಯಪುಸ್ತಕ, ಆಕರ ಸಾಮಾಗ್ರಿಗಳು, ವಿಶ್ವ ಕೋಶ, ಶಬ್ದಕೋಶ.	
15	II SEMESTER	**EDUCATIONAL AND VOCATIONAL GUIDANC**	**UNIT 1: FUNDAMENTALS OF GUIDANCE AND COUNSELING** 1.1 Meaning, Nature, Need and scope of Guidance and Counselling with special reference	हिन्दी विषयाधारित बोधना क्रम घटक: १. भाषा बोधना विधान और योजनाएँ १.१ गद्यभाग बोधन:- उद्दिश्य, ५	

		E	to modern Indian Society, Meaning of Group Guidance principles & Aims Nature & scope. 1.2 Aims & Principles of Guidance and Counselling 1.3 Methods of Counselling: Directive, Non-Directive, Eclectic 1.4 School Counsellor; Psychologist, Social Worker, Rehabilitation worker, Career Master Teacher as Guidance worker; **UNIT 2: TOOLS AND TECHNIQUES IN GUIDANCE AND COUNSELING** 2.1 Organizing Guidance and Counselling Services in Secondary School 2.2 Testing Techniques - Intelligence, Aptitude, Achievement Tests; Personality, Adjustment, Interest.(must be aware of one standardized test from each) 2.3 Non-Testing Techniques: Case Study, Cumulative records, Questionnaire, Anecdotal record, Autobiography, observation. 2.4 Selection of Tests for Placement in Educational and Professional Institutions. **UNIT 3: CAREER GUIDANCE IN SECONDARY SCHOOLS** 3.1 Career Awareness Skills, Career Information; Career Decision Making Skills – Selection of School Subjects, Future Training Course and Future Career 3.2 Guidance and Counselling for Children with Special Needs: Juvenile delinquents socially disadvantaged. 3.3 Group Dynamics: Meaning Assumption Sociometry techniques 3.4 Career Bulletin, Career Corner and Career Conference.	-पाठयोजना, द्विभाशिक विधान, अर्थ, हंत, प्रत्यक्ष विधान, रचनात्मक विधान, प्रासंगिक विधान, संवहन विधान ,संरचनात्मक विधान। १.२ पद्य बोधन :- उद्दिश्य, पद्य पाठ योजना, खंड और अखंड पद्धती। १.३ व्याकरण बोधन:- उद्दिश्य अनुगमन / निगमनपद्धती, प्रबंधात्मक बोधन उद्दिश्य, बोधना विधान , प्रबंधात्मक बोधन में सादृश्यात्मक प्रक्रिया। १.४ बोधन उद्दीपन/उद्दिष्टता:- भाषा बोधना विधान में संबंधित ब्लूम का नव उद्दिश्योंका वर्गीकरण। घटक: २. भाषा शिक्षक और मौल्यमापन २.१ विषय विश्लेषण:- प्रौढ़शाला हिन्दी भाषा के पाठ्यपुस्तकसे संबंधितपरिकल्पनाओं का विश्लेषण एवं महत्व। २.२ वार्षिक योजना, घटक योजना, घटक परीक्षा, संतुलित प्रश्न पत्रिका, गुण लक्षण, और हंत । २.३ भाषा मौल्यमापन:- निदानात्मक परीक्षा, परिहारात्मक बोधन / उपचारात्मक बोधन। २.४ हिन्दी भाषा शिक्षक का सामर्थता और विशिष्ट गुण - लक्षण एवं अर्हता घटक: ३. भाषा बोधन में कलिका उपकरण और साधनों का उपयोग।	

				३.१ दृक श्रवणोपकरण :- श्याम पट,चित्र, फ्लैश -कार्ड, रेडियो-ध्वनिकरण, स्थिर चित्र, चल चित्र,दूरदर्शन। ३.२ भाषा बोधनोपकरण:- अंतर्जाल का उपयोग, कक्षा - कोना, भाषा प्रयोगालय। ३.३ भाषा बोधन क्रियाएँ :- हिन्दी संघ,शैक्षणिक यात्रा, चर्चा गोष्टी, विचार संकिरण, साक्षात्कार (संदर्शन, साहित्यकारों से मुलाकात, रसप्रश्न कार्यक्रम, आशुभाषण, गीत, कार्यागार ३.४ भाषा कलिका, साधनोपकरण :- पाठ्य पुस्तक, मूल सामग्री,विश्वकोश, शब्ध कोश।	
				PEDGOGY OF SCHOOL SUBJECT 1: COMMERCE **UNIT 1: AIMS AND OBJECTIVES OF TEACHING COMMERCE** 1.1 The aims and objectives of teaching commerce at secondary and higher secondary level 1.2 General instructional objectives and specific learning outcomes based on Blooms modified taxonomy of objectives 1.3 Content and pedagogical analysis in commerce 1.4 Commerce teacher and skills required for commerce teaching **UNIT 2: TRENDS IN TEACHING AND EVALUATION OF COMMERCE** 2.1 Importance of planning for the year's work-Unit Plan, lesson plan 2.2 Methods of teaching commerce: Case study method, Problem solving method, Inductive- deductive method. 2.3 Co-operative learning -	

				meaning, importance and types. Simulation - role play, games, CAM- organization and execution in teaching of Commerce 2.4 Tests for different purpose - Achievement, Diagnosis and Prognosis-Construction and administration examining the results of these tests. **UNIT 3: RESOURCES OF TEACHING COMMERCE** 3.1 Use of e-resources - Discussion forum, e-book, e-Journals, e-business with reference to relevance in commerce teaching 3.2 Commerce club, Market studies and surveys, Commerce room, Community resources in commerce. 3.3 Text books in commerce- Nature, functions, characteristics and its critical analysis. 3.4 Supplementary reading materials, Resource Books and instructional aids in commerce.	
				PEDGOGY OF SCHOOL SUBJECT 1: PHYSICS **UNIT 1: INTRODUCTION TO TEACHING AND LEARNING OF PHYSICS** 1.1 Aims and objectives of teaching Physics: General aims of teaching physics at the secondary level; Instructional objectives: Meaning, writing Instructional objectives according to Bloom's modified taxonomy of educational objectives. 1.2 Organization of the Curriculum: Psychological, Logical, Spiral and Topical Curriculum: Meaning and principles; Curriculum development project salient features-PSSC 1.3 Recommendation of Curriculum Framework: NPE-1986, NCF-2005 1.4 Physics Teacher: Professional competencies; Need and measures	

				for professional growth of Science Teacher **UNIT 2: PLANNING AND ORGANIZATION OF LESSONS IN PHYSICS** 2.1 Analysis of the Physics Content as Facts, Concepts, Principles, Theories and Laws with reference to Secondary and Higher Secondary Level. 2.2 Year Plan: Meaning, Format, Need and Importance. 2.3 Lesson Plan 5E Model: Constructivist Approach; Phases and Application. 2.4 Unit Plan: Meaning, Importance, Steps and Format. Unit Test: Concept, Construction and Administration. **UNIT 3: APPROACHES, METHODS AND RESOURCES OF TEACHING PHYSICS** 3.1 Approaches: Learner Centered and Activity Centered, Inductive and Deductive: Characteristics, Advantages and Disadvantages. 3.2 Methods: Lecture cum Demonstration, Project, Problem Solving, Laboratory and Individualised Instruction: Programmed Instruction and CAI application (Examples to be chosen from Secondary School Physics Curriculum) 3.3 Models of Teaching Application: Concept Attainment Model and Inquiry Training Model. 3.4 Physics Laboratory: Importance, Designing, Planning, Equipping, Maintenance of Equipments and Records; Improvised apparatus in Physics-Concept procedure of preparing any three improvised model; Science Club-objectives, organisation and activities.	
				PEDAGOGY OF SCHOOL SUBJECT1: CHEMISTRY **UNIT 1: CURRICULUM STUDY IN CHEMISTRY** 1.1 Aims and objectives of teaching Chemistry: General aims	

				of teaching chemistry at the secondary level; Instructional objectives: Meaning, writing Instructional objectives according to Bloom's modified taxonomy of educational objectives. 1.2 Curriculum: Meaning and principles; Curriculum development project salient features-Chemical Bond Approach 1.3 Recommendation of Curriculum Framework: NPE-1986, NCF-2005 1.4 Chemistry Teacher: Professional competencies; Need and measures for professional growth of Science Teacher **UNIT 2: PLANNING AND ORGANIZATION OF LESSONS IN CHEMISTRY** 2.1 Analysis of the Chemistry Content as Facts, Concepts, Principles, Theories and Laws with reference to Secondary and Higher Secondary level 2.2 Year Plan: Meaning, Format, Need and Importance. 2.3 Lesson Plan 5E Model: Constructivist Approach; Phases and Application. 2.4 Unit Plan: Meaning, Importance, Steps and Format. 2.4 Unit Test: Concept, Construction and Administration. **UNIT: 3 APPROACHES, METHODS AND RESOURCES OF TEACHING CHEMISTRY** 3.1 Approaches: Learner Centered and Activity Centered, Inductive and Deductive: Characteristics, Advantages and Disadvantages 3.2 Methods: Lecture cum Demonstration, Project, Problem Solving, Laboratory and Programmed Instruction: Characteristics, Steps, Advantages and Disadvantages (Examples to be chosen from Secondary School Chemistry Curriculum) 3.3 Models of Teaching: Concept Attainment Model and Inquiry	

				Training Model 3.4 Chemistry Laboratory: Importance, Designing, Planning, Equipping, Maintenance of Equipments and Records; Improvised apparatus in Physics-Concept procedure of preparing any three improvised model; Science Club-objectives, organisation and activities.	
				PEDGOGY OF SCHOOL SUBJECT 2: **SOCIAL SCIENCE** **UNIT 1: AIMS AND OBJECTIVES OF TEACHING SOCIAL SCIENCE** 1.1 Aims of teaching History-moral training, patriotism, national integration, international understanding, and transmission of culture, socialisation and historical perspective. 1.2Aims of teaching Political Science –democratic citizenship, civic sense, political consciousness, functional awareness of rights and duties, national integration, international understanding and world citizenship. 1.3Aims of teaching Geography-understanding of interrelationship between humans and environment, desire for travel and tourism, aesthetic sense, patriotism, world citizenship, interdependence, adjustment and brotherhood. 1.4 Blooms Modified taxonomy of Educational objectives. **UNIT 2: PLANNING OF INSTRUCTION & EVALUATION** 2.1 Content analysis- Concept, characteristics and applications 2.2 Annual plan – Importance, characteristics and format. 2.3 Lesson plan – Importance, 5E Model, phases and applications. 2.4 Unit plan– Importance, steps and format, unit test-meaning, importance, steps involved in the construction of well-balanced	

				question paper. **UNIT 3: RESOURCES OF TEACHING HISTORY AND POLITICAL SCIENCE** 3.1 Conventional pedagogies- Source method, Lecture method, Comparative method, Storytelling method- meaning, steps and advantages. 3.2Constructivist pedagogies: Dramatic method, Project method, Survey Method, Journey method, Discussion method- meaning, steps and advantages. 3.3 Co-operative learning strategies: think pair share, round robin, buzz, gallery walk, jigsaw method 3.4 Learning resources: Audio-visual Resources: TV, Films, and Documentary – importance and uses. Visual resources: Maps, Models, Globes, Timeline, Atlas, Travelogue- importance and uses. Print Media: Magazine, newspapers, archives – importance and uses. On line resources: websites, virtual tours- – importance and uses. Community Resources- meaning, types, local library, museums, exhibitions- importance in teaching. Social Science club: Concept, objectives, organisation and activities.	
				PEDGOGY OF SCHOOL SUBJECT 2: MATHEMATICS **UNIT 1: INTRODUCTION TO TEACHING AND LEARNING OF MATHEMATICS** 1.1 Aims and Objectives of teaching Mathematics: General Aims of teaching Mathematics at the Secondary school level; Instructional objectives: Meaning, writing Instructional objectives according to Bloom's Modified Taxonomy of	

				Educational Objectives (2001) with reference to Secondary School Mathematics Syllabus. 1.2 Co-Relation: Meaning, co-relation of Mathematics with Physics, Chemistry, Biology, Engineering, Astronomy, Agriculture and its use in day to day life. 1.3 Values of Teaching Mathematics: Development of values in the present context- Utilitarian, Disciplinary, Cultural, Aesthetic and Recreational values. 1.4 Mathematics Teacher: Professional competencies; need and measures for professional growth for a Mathematics teacher. **UNIT 2: PRACTICES AND RESOURCES IN THE TEACHING AND LEARNING OF MATHEMATICS** 2.1 Pedagogical Analysis: Concept, analysis of the Mathematics content – as facts, concepts, relations, generalizations, rules, poofs, problems, with reference to 8^{th} , 9^{th} and 10^{th} Standard of Karnataka Secondary School State Syllabus 2.2 Planning for Instruction: Year plan – Meaning, format, need and importance; Unit plan – Meaning, characteristics, format and steps; Lesson Plan – Meaning, characteristics, format and steps; Constructivist Approach – Meaning, features; 5E Model : Phases and application. 2.3 Unit Test: Meaning, Importance, steps; Construction of well-balanced question paper in Mathematics; Construction of objective based objective type test items. 2.4 Diagnostic Test in Mathematics: Concept, Construction and importance; remedial teaching: concept, planning and remedial measures	

				in Mathematics. **UNIT 3: APPROACHES, METHODS AND RESOURCES TO TEACH MATHEMATICS** 3.1 Approaches and methods of teaching Mathematics: Inductive – Deductive Approach, Analysis – Synthesis Approach, Constructivist Approach, Activity Based Learning approach, - meaning, characteristics, steps, merits and limitations; Project Method, Cooperative Learning Method, Heuristic Method – meaning, characteristics, steps, merits and limitations; Models of teaching: Concept Attainment Model (CAM) – Syntax, and application for teaching. 3.2 Teaching learning materials and activities in Mathematics: Reference Books, Work books, Community resources – Characteristics and uses; Black board, charts, models, flash cards, Computer – Characteristics and uses and use; Mathematics club – objectives, organization and activities; National Talent Search programme and Mathematics Olympiad. 3.3 Mathematical Laboratory: Need, importance, equipment, maintenance and use of Laboratory for Teaching and Learning Mathematics; Improvised Models in Mathematics: Concept and Procedure of preparing any three improvised Model. 3.4 Techniques for teaching Mathematics: Oral work, written work and Drill work – meaning, significance, application and Principle for Drill Work.	
				PEDGOGY OF SCHOOL SUBJECT 2: BIOLOGICAL SCIENCE **UNIT 1: INTRODUCTION TO TEACHING AND LEARNING OF BIOLOGY** 1.1 Aims and Objectives of teaching Biology: Relevance,	

				Meaning and need of objective Based Teaching, General and specific aims of objectives of teaching Biology at Senior Secondary Level. (Botany, Zoology) 1.2 Anderson's revised Bloom's taxonomy of Objectives (2001) with reference to Biology. 1.3 Innovative Strategies of Teaching biology in India and abroad, Collaborative / Cooperative learning strategies – Learning together JIGSAW technique of teaching biology 1.4 Biology Teacher: Professional growth of Biological Science Teacher in service programme, Orientation Programme, refresher course, MOOC, Seminar symposium workshops. **UNIT 2: PLANING AND ORGANISATION & LESSONS IN BIOLOGICAL SCIENCE** 2.1 Year Plan: Meaning, Construction, Task analysis: Meaning and advantages. 2.2 Development of Unit Plan, Unit Test: Meaning, Importance, Components, Steps and Format. 2.3 Diagnostic tests, remedial/enrichment measures & monitoring learner's progress, Identification of learning difficulties and remedial Teaching. Achievements test its construction & administration. 2.4 Lesson Plan: Meaning, Need, Importance, Steps and Format, 5 'E' Models. Models of Teaching Biological Science Meaning: Importance and Steps of Concept Attainment model. **UNIT 3: APPROACHES, METHODS AND RESOURCES OF TEACHING BIOLOGICAL SCIENCE** 3.1 Approaches: Inductive and Deductive Discovery Approach and Problem Solving Approach	

				(Maier's) Models of Teaching: Biological Science Enquiry Model (Joseph Schwab), Memory model (J. Lucas) 3.2 Methods: Lecture cum demonstration method Heuristic method, Dalton Plan, Teaching Techniques and Strategies Brain Storming Role Playing Seminar & Debate. 3.3 Learning Resource: Need and significance of learning resources in Biology, Biology Laboratory as a learning resource; Design and components of Biology laboratory use of Science and Biology experiment kits in teaching-learning of Biology. 3.4 Community resources of teaching Biology: Eco club debates, discussions, field visits (Botanical and Zoological Gardens, Science Centres, Science Museums, Sea Shores, etc.)	
16	III SEMESTER	**LEARNING AND TEACHING PROCESS**	**UNIT 1: LEARNING AND INDIVIDUAL DIFFERENCES AMONG LEARNERS** 1.1 Human learning: Meaning and definition 1.2 Learning theories and their implications to classroom teaching – learning Behaviourism: Pavlov's classical conditioning, Thorndike's connectionism Skinner's operant conditioning Gestaltism: Learning by insight – Kohler 1.3 Intelligence: Concept and definition, Concept of IQ - Theory of multiple intelligences (Howard Gardner) - Concept and significance of emotional intelligence (David Goleman) Creativity: Meaning and dimensions of creativity, measures to foster creativity of the learners. 1.4 Personality: Traits of Healthy personality, Adjustment, Causes of Maladjustment **UNIT 2: LEARNING PROCESS**	**CONTEMPORARY EDUCATION IN INDIA** **UNIT 1: INDIAN EDUCATIONAL HERITAGE AND DEVELOPMENT** 1.1 Pre independence education period [Vedic, Buddhist, Muslim, British-Macaulay's minute, Woods dispatch, Sargent commission] 1.2 Post-independence education period [Mudaliyar commission, Kothari commission, NPE 1986] 1.3 Right to Education-2009. 1.4 Yashpal committee-2008, recommendations. **UNIT 2: CONSTITUTIONAL PROVISIONS AND CURRENT ISSUES IN INDIAN EDUCATION** 2.1 Fundamental & derived rights in relation to education. 2.2 Articles related to education [29, 30, and 45] 2.3 National curriculum framework 2005 2.4 Issues in relation to	

			AND MOTIVATION 2.1: Sensation and perception: Meaning and process 2.2: Attention: Meaning and factors affecting attention 2.3: Memory: Meaning and Model of memory (Atkinson and Shiffrin) Techniques to improve memory, Forgetting – meaning and causes for forgetting, `Forgetting Curve' by H. Ebbinghaus Transfer of learning 2.4: Motivation: Meaning Maslow's theory of hierarchy of needs, Extrinsic, intrinsic and achievement motivation, Measures to enhance motivation levels of the learners. **UNIT 3: LEARNING IN CONSTRUCTIVIST PERSPECTIVES** 3.1 Distinctions between learning as "construction of knowledge" and learning as transmission and reception of knowledge. 3.2 Processes to facilitate "Construction of knowledge" (i) Experiential learning and reflection (ii) Social mediation (iii) Cognitive negotiability (iv) Situated learning and cognitive apprenticeship (v) Metacognition 3.3 Creating facilitative learning environment; teachers attitude, self- reflection, enhancing motivation, utilising learners experience in Classroom process, Joyful learning. 3.4 Learner Autonomy: Self-regulated learning. **UNIT 4: CREATING FACILITATIVE LEARNING** 4.1 Learning environment-Formal, Informal, home learning environment, study skills, Classroom-climate. 4.2 Learning in groups-types of groups, characteristics of groups, sociomentry; use and importance	universalization of education: Medium of instruction, Language formula, access, enrolment, dropout, retention, stagnation & wastage. **UNIT 3: TYPES OF SCHOOL IN INDIA** 3.1 In relation to funding: State, Aided, Un-aided 3.2 In relation to philosophy: Aurobindo [Auroville], Rabindranath Tagore: [Shantiniketan], Jiddu Krishnamurthy [Rishi Valley] 3.3 Other types: Jawahar navodaya vidyalaya [JNV], Murarji Desai schools, Kithuru rani Chenamma, Kasthurbha Gandhi, Balika Vidyalaya, Ashrama School, Adarsha School. 3.4 Affiliation Based Types: CBSE,SBSE,ICSE. **UNIT 4: POLICIES, PROGRAMMES & SCHEMES FOR ENHANCEMENT OF QUALITY** 4.1 Karnataka Education Act 1983: with reference to primary and secondary education. 4.2 Role and functions : BRC,DIET,CTE,IASE,DSERT 4.3 Equalisation of Educational opportunities-concept and measures 4.4 Education for all: meaning and efforts. **UNIT 5: STATUS OF EDUCATION IN INDIAN SOCIETY** 5.1 Education for women: constitutional rights and privileges, status of women, major policy for women development. 5.2 Education for tribal children: status of tribal education, issues regarding tribal education, concerns for tribal education 5.3 Universalization of education: measures and present status. 5.4 SSA- concept and objectives,	

			group dynamics, group cohesion, educational implication. 4.3 Multiculturism; concept, need, Significance in learning 4.4 Assessment of learning; Assessment for learning, assessment as learning; meaning concepts and characteristics.	RMSA – concept and significance.	
17	III SEMESTER	**EDUCATIONAL TOOLS, TECHNIQUES AND ASSESSMENT**	**UNIT 1: INSTRUCTION TO PEDAGOGY & TEACHING STRATEGIES** 1.1 Pedagogy – Concept, Critical Pedagogy- Concept and Characteristics. 1.2 Teaching strategies and methods – Meaning, Characteristics, inter relationship of teaching Cycle, Teaching methods and Teaching strategies. 1.3 Active learning Strategies – types – individual and group. - Concept, Characteristics and Class room application. 1.4 Individualized instruction: Programmed Instruction- Meaning, Concept, principles, types – Linear & Branching - Merits and Limitations **UNIT 2: TEACHING AND LEARNING MODELS** 2.1 Models of teaching – concept, characteristics, fundamental elements, families of modern models of teaching: Historical, Philosophical, Modern Models-Classification; Families of Modern models-Syntax, application. 2.2 Modern models of teaching – Information processing models, Inquiry Training Model, Concept Attainment Model (CAM), personal models- Synectics (making familiar to strange) 2.3 Learning packages – development and use. 2.4 Approaches of teaching – Learner centred approach, learning centred approach – Concept, Characteristics. **UNIT 3: CONCEPT OF ASSESSMENT** 3.1 Meaning concept &	**KNOWLEDGE & CURRICULUM** **UNIT -1 EPISTEMOLOGICAL BASIS OF EDUCATION** 1.1 Knowledge: meaning, characteristics and facets of knowledge - local and universal, concrete and abstract theoretical and practical; Knowledge in relation to Information and Skill: Concept and Differences. 1.2 Teaching and Training: Concept and Differences. 1.3 Nature of Propositional Knowledge: Rational, Belief and Truth: Concept and Differences. 1.4 Modern child centred education: Concept of Modern child centred education with following reference- A] Activity – Concept and Importance with reference to Gandhi and Rabindranath Tagore. B] Discovery- Concept and Importance with reference to Dewey. C] Dialogue – concept and Importance with reference to Plato. **UNIT: 2 KNOWLEDGE IN EDUCATION** 2.1 Knowledge as a field of Education: education – concept and characteristics; Disciplinary knowledge-meaning, categorisation of knowledge for construction of discipline; constitution of disciplinary knowledge-characteristics of discipline and forms of discipline-basic, applied, multi-disciplinary	

			characteristics of Assessment, measurement and Evaluation and their interrelationship, purpose of Assessment, Types- Prognostic, Formative, Summative, Process and Product – meaning and characteristics; Grading – concept and characteristics, Learning Experience – Meaning, relationship between learning experience & Assessment. 3.2 Continuous and Comprehensive Evaluation-Meaning, concept, characteristics and significance. 3.3 Techniques of Evaluation: oral, written, essay, short answer, objective – meaning, characteristics, performance test-meaning significance; Evaluation tools: Rating scale, check test questionnaire, Anecdotal records – meaning procedure of construction and use. 3.4 Teacher made Test – meaning, characteristics, achievement test, construction and use; diagnostic test-concept, characteristics & construction; Standardized test-meaning, characteristics procedure of construction. **UNIT 4: BASICS OF EDUCATIONAL STATISTICS** 4.1 Educational data: meaning of raw score, data, ways of describing data; preparation of frequency distribution, methods of graphical representation of data- Frequency polygon, Histogram, Pie chart, Normal Probability Curve; procedure of construction and use. 4.2 Measures of Central tendency: Mean, Median and Mode; calculation and use. 4.3 Measures of Variability: Range, Quartile deviation, Mean Deviation: Meaning and Use; Standard Deviation: Meaning, calculation and use. 4.4 Correlation: Concept and use; Measures of Rank Difference correlation; calculation.	and inter-disciplinary areas. 2.2 Social aspects of Knowledge: Education as a social system, Education as a process of social progress; Educational change because of industrialization, idea of individual autonomy in the context of society, culture and modernization. 2.3 Education in relation to modern values**:** Education in relation to Equity, Equality, Individual Opportunity, Social Justice and secularism, with special reference to Ambedkar. 2.4 Nationalism, Universalism, Secularism and their interrelation with Education. **UNIT: 3 PROCESS OF CURRICULUM DEVELOPMENT** 3.1 Curriculum: Concept and Importance, Bases of Curriculum. 3.2 Stages of curriculum construction. Relationship between aims of education and curriculum. 3.3 Role of curriculum in effective teaching and learning process, Curriculum and discipline. 3.4 Various co-curricular activities and its impact on reconstruction of society. **UNIT 4: FEATURES OF CURRICULUM FRAMEWORK** 4.1 Teachers role in curriculum construction. 4.2 Curriculum framework: meaning, need and importance; understand the relationship between curriculum, syllabus, and text book. 4.3 The salient features of National Curriculum framework 2005 & 2020, NCFTE-2009 4.4 Analyse the school education curriculum centre and state with respect to their priorities, concerns to National goals.	

				UNIT 5: EDUCATIONAL ADMINISTRATION AND MANAGEMENT 4.1 The concept, objectives, nature and importance of Educational organization, Administration and management. 4.2 Ministry of Human Resource Development (MHRD), Advisory bodies to the Central Government on Education: UGC, CABE, NUEPA, NCTE, NCERT, Management committees-SDMC, PTA. 4.3 Basic Components of the management: Planning, Organizing, Directing, Controlling, Decision Making, Communication and Resource Management. 4.4 Institutional Planning: Concept, objectives, importance, preparation and problems, Staff meeting, Time-Table and Management of Resources: Human, Finance and other infrastructures, Karnataka State Quality Assessment Organization: Nature, Role and Function, Institutional plant: Physical Surrounding and maintenance, School Records: Types, Need and maintenance, E-records: nature, need and applications	
18	III SEMESTER	**INCLUSIVE EDUCATION**	**UNIT 1: INTRODUCTION TO INCLUSIVE EDUCATRION** 1.1 Concept of Inclusive Education, Integrated Education and special Education 1.2 Need, Objectives & scope of Inclusive Education 1.3 Factors responsible for successful inclusion in the mainstream – future vision Understanding the cultures, Policies and practices of Inclusive schools, Policies and programs of Inclusions 1.4 Definition of disability and inclusion in educational framework, Threats of psychological problems of disability, Models of disability,	**GENDER, SCHOOL AND SOCIETY** **UNIT 1: GENDER AND SOCIETY** 1.1 Gender – concept and meaning. Differences between gender and sex. A brief introduction to feminist theories: radical, Psychoanalyst, socialist and Marxist. 1.2 Gender bias – Patriarchy and causes for gender discrimination. 1.3 Agencies of social construction of Gender – Socialization in the family, school, occupation and gender stereotypes prevalent in the society, media and literature.	

			Identification of barriers in learning and participation in relation to learners in Inclusive set up. **UNIT 2: DIFFRENTLY ABLED CHILDREN IN INCLUSIVE SYSTEM** 2.1 Concept, classification, characteristics, causes, problems and Educational provisions for – gifted children 2.2 Physically challenged and visually challenged children 2.3 Children with speech and auditory challenged children 2.4 Mentally challenged children and children with learning challenges **UNIT 3: POLICIES AND PROVISIONS FOR INCLUSION** 3.1 International convention: Recommendations of Salamanca statement and framework of action (1994), U.N. convention on the rights of persons with Disabilities (PWD) (2006) 3.2 Constitutional Provisions: PWD act(1995), RCI Act (1992), RTE Act (2009) 3.3 Policies, programmes, schemes, Institutes - National Policy on disabilities (2006), Scheme for Inclusive Education for disabled children (IEDC, 2000) - SSA (2000), RMSA - RCI and National institutes accountable for disabilities 3.4 Role of Functionaries (Teachers, Parents, Peer Group, Administrators, Community, NGOs, Govt. and Private organizations, rehabilitation and social Workers)	1.4 Gender and its relation to poverty, caste, class, religion, disability and region (rural, urban and tribal areas). **UNIT 2: GENDER EQUALITY AND GENDER SENSITIVITY** 2.1 Gender equality – meaning and significance. 2.2 Gender sensitivity – meaning, need for gender sensitisation. 2.3 Gender equality as a basic Human Rights principle. 2.4 Pedagogic strategies to promote gender sensitisation-gender inclusive class room, developing positive self concept and self esteem among girls, teacher as an agent of change. **UNIT 3: POLICIES AND REFORMS** 3.1 Social reform movements for women- Rajram Mohan Roy, Ishwar Chandra Vidya Sagar, D.K 3.2 Constitutional and legal provisions for girl child education. Contribution of government and other agencies for upliftment of girl child. Beti Bachao, Beti Padao- aims, significance, measures. 3.3 Legal support and acts for protection of women- Prenatal diagnostic techniques act 1994, domestic violence act 2005, POSCO act 3.4 Third gender – concept, provisions of education and other programmes for the improvement of people of transgender, Supreme court verdict about transgender.	
19	III SEMESTER	**PEDGOGY OF SCHOOL SUBJECT 1: ENGLISH**	**UNIT 1: APPROACHES TO TEACHING AND PLANNING** 1.1 Teaching of prose- Objectives and methods of teaching prose-5E method –bilingual method, structural method direct method, situational approach, communicative approach,	**HEALTH AND PHYSICAL EDUCATION** **UNIT 1: HEALTH EDUCATION, COMMUNICABLE DISEASES, CONTEMPORARY HEALTH PROBLEMS & FIRST AID**	

			constructivist approach. 1.2 Teaching of poems- objectives and methods of teaching of poems, writing lessons plans for the teaching of poem. 1.3 Teaching of Grammar- Objectives and methods of teaching grammar, writing lessons plans for the teaching of grammar, teaching of composition. 1.4 Instructional objectives: Blooms taxonomy of learning domains. **UNIT 2: LANGUAGE TEACHER AND LANGUAGE EVALUATION** 2.1 Content analysis: content and concept analysis of high school English text book. 2.2 Annual plan, unit plan, unit test, characteristics of well-balanced question paper and steps. 2.3 Language evaluation: diagnostic test and remedial teaching. 2.4 Special abilities and qualities of a English teacher. **UNIT 3: USES OF LEARNING AIDS AND RESOURCES IN LANGUAGE TEACHING** 3.1 Audio visual aids: black board, pictures, flash cards, radio, tape recorder, films, television. 3.2 Resources for facilitating teaching of language: use of internet, language room, Language laboratory, model of teaching (CAM). 3.3 Activities in language teaching: English club, tour, debate, seminar, interview, Quiz, pick and speak, recitation, workshops. 3.4 Resources for language learning: text book, reference book, encyclopedia, Dictionary, thesaurus.	Concept of Health Education: Meaning, aims, Objectives, importance and principles of Health Education. School health education programme: Importance, objectives and characteristics. -Healthful school living: meaning and factors. -School Health services: meaning, programmes and agencies. -School Health instruction: Principles and methods. 1.3 Communicable Diseases: Meaning, common symptoms, Mode of Transmission & Prevention. -Abuse of alcohol, tobacco and drugs and effect of abuse on individual, family and community. -Effect of alcohol, drugs and tobacco on sportsperson. -Development of desirable health habits and good posture. 1.4 First Aid: Meaning, Principles of First Aid, qualities of first aider. - First Aid for Fracture, Dislocation, Sprain and strain, Cuts and wounds. **UNIT 2: PHYSICAL EDUCATION** 2.1 Physical Education: Meaning, Scope & Objectives, relationship with general education, Need of physical education as an integral part of education. 2.2 Methodology of teaching Physical Education, steps in Class Management. General Lesson Plan, Specific Lesson Plan. 2.3 Qualities and qualifications of a physical education teacher. -Types of physical education activities: major indoor and outdoor games 2.4 Tournament: Meaning, Drawing Fixture: Single Knockout and League: Intramurals and Extramural	

				competition. **UNIT 3 PHYSICAL EDUCATION FACILITIES** 3.1 Playfields – marking of various playfields, care and maintenance of play fields, purchase and care of equipment. 3.2 Officiating – general principles, pre-game duties, during the game and post-game duties. 3.3 Olympics: origin and development of Ancient and modern Olympics. -Asian Games: origin and development of Asian Games -Flag hoisting and de-hoisting 3.4 Meaning, Importance of Camping, NSS, NCC, Scouts and Guides.	
20	III SEMESTER	**ಕನ್ನಡ ವಿಷಯಾಧಾರಿತ ಬೋಧನಾ ಪದ್ಧತಿ**	**ಘಟಕ:1** <u>**ಭಾಷಾ ಬೋಧನಾ ವಿಧಾನಗಳು ಮತ್ತು ಯೋಜನೆಗಳು**</u> 1.1 ಗದ್ಯ ಬೋಧನೆ: ಉದ್ದೇಶಗಳು, ಖ-ಇ ಪಾಠಯೋಜನೆ, ದ್ವಿಭಾಷಿಕ ವಿಧಾನ, ಅರ್ಥ, ಹಂತಗಳು, ಪ್ರತ್ಯಕ್ಷ ವಿಧಾನ, ರಚನಾತ್ಮಕ ವಿಧಾನ, ಪ್ರಾಸಂಗಿಕ ವಿಧಾನ, ಸಂವಹನ ವಿಧಾನ, ಸಂರಚನಾತ್ಮಕ ವಿಧಾನ. 1.2 ಪದ್ಯ ಬೋಧನೆ: ಉದ್ದೇಶಗಳು, ಪದ್ಯಪಾಠ ಯೋಜನೆ, ಖಂಡ ಹಾಗೂ ಅಖಂಡ ಪದ್ಧತಿಗಳು. 1.3 ವ್ಯಾಕರಣ ಬೋಧನೆ: ಉದ್ದೇಶಗಳು, ಅನುಗಮನ/ನಿಗಮನ ಪದ್ಧತಿ, ಪ್ರಬಂಧ ಬೋಧನೆ: ಉದ್ದೇಶಗಳು, ಬೋಧನಾ ವಿಧಾನಗಳು, ಪ್ರಬಂಧ ಬೋದನೆಯಲ್ಲಿ ರೂಪ ಸಾದೃಶ್ಯಮಾದರಿ. 1.4 ಬೋಧನಾ ಉದ್ದಿಷ್ಟಗಳು: ಭಾಷಾ ಬೋಧನೆಗೆ ಸಂಬಧಿಸಿದಂತೆ ಬ್ಲೂಮ್ ನ ಹೊಸ ಬೋಧನಾ ಉದ್ದೇಶಗಳ ವರ್ಗೀಕರಣ ಘಟಕ:**2** <u>ಭಾಷಾ ಶಿಕ್ಷಕ ಮತ್ತು ಭಾಷಾ ಮೌಲ್ಯಮಾಪನ</u>	**VALUE EDUCATION** **Unit 1: Importance of value in Education** 1.1 Meaning of values, Nature and significance 1.2 Classification of Values – absolute and relative, Indian values, Personal and social values, relation between values and needs, place of values in personality formation, personality development and education. 1.3 Different types of values- Intellectual, social, spiritual, Aesthetic, economic, health, democratic and culture. 1.4 Contemporary Values- Scientific Temper, Intellectual Honesty, Social service and protection of Environment. **Unit 2: Sources of Values** 2.1 Meaning and Importance of value education. 2.2 Sources of Value Education – Auto biography and biography of great people, parables, Vedas, Bhagavadgita, Shlokas, Poems, Newspapers Clippings, Episodes from Real Life, Documents etc. 2.3 Organisation of all values under five basic values – truth,	

			2.1 ವಿಷಯ ವಿಶ್ಲೇಷಣೆ: ಪ್ರೌಢಶಾಲಾ ಕನ್ನಡ ಭಾಷಾ ಪಠ್ಯಪುಸ್ತಕಕ್ಕೆ ಸಂಬಂಧಿಸಿದ ಪರಿಕಲ್ಪನೆಗಳ ವಿಶ್ಲೇಷಣೆ, ಮಹತ್ವ 2.2 ವಾರ್ಷಿಕ ಯೋಜನೆ, ಘಟಕ ಯೋಜನೆ, ಘಟಕ ಪರೀಕ್ಷೆ, ಸಂತುಲಿತ ಪ್ರಶ್ನೆಪತ್ರಿಕೆ, ಗುಣಲಕ್ಷಣ ಮತ್ತು ಹಂತಗಳು 2.3 ಭಾಷಾ ಮೌಲ್ಯಮಾಪನ: ನೈದಾನಿಕ ಪರೀಕ್ಷೆ, ಪರಿಹಾರ ಬೋಧನೆ. 2.4 ಕನ್ನಡ ಭಾಷಾ ಅಧ್ಯಾಪಕನ ಅರ್ಹತೆ ಮತ್ತು ವಿಶಿಷ್ಟ ಸಾಮರ್ಥ್ಯಗಳು. <u>ಭಾಷಾ ಬೋಧನೆಯಲ್ಲಿ ಕಲಿಕಾ ಸಾಧನಗಳು ಮತ್ತು ಸಂಪನ್ಮೂಲಗಳ ಬಳಕೆ</u> 3.1 ದೃಕ್ ಶ್ರವಣ ಉಪಕರಣಗಳು: ಕರಿಹಲಗೆ, ಚಿತ್ರ, ಚಿಮುಕಿಸುವ ಕಾರ್ಡು, ರೇಡಿಯೋ ಧ್ವನಿ ಸುರುಳಿಗಳು, ಫಿಲ್ಮ್ ಗಳು, ದೂರದರ್ಶನ. 3.2 ಭಾಷಾ ಬೋಧನೆಯಲ್ಲಿ ಸಂಪನ್ಮೂಲಗಳು: ಅಂತರ್ಜಾಲದ ಬಳಕೆ, ವಿಷಯ ಕೊಠಡಿ, ಭಾಷಾ ಪ್ರಯೋಗ ಶಾಲೆ, ಪರಿಕಲ್ಪನಾ ಬೋಧನಾ ಮಾದರಿ. 3.3 ಭಾಷಾ ಬೋಧನೆಯಲ್ಲಿ ಚಟುವಟಿಕೆಗಳು: ಕನ್ನಡ ಸಂಘ, ಪ್ರವಾಸ, ಚರ್ಚಾಗೋಷ್ಠಿ, ವಿಚಾರ ಗೋಷ್ಠಿ, ಸಂದರ್ಶನ, ಸಾಹಿತಿಗಳ ಭೇಟಿ, ರಸ ಪ್ರಶ್ನೆ ಕಾರ್ಯಕ್ರಮ, ಆಶುಭಾಷಣ, ಗೀತ ಸ್ಪರ್ಧೆ, ಕಾರ್ಯಗಾರಗಳು. 3.4 ಭಾಷೆಕಲಿಕೆ, ಅನುಕೂಲಿಸುವಲ್ಲಿ ಸಂಪನ್ಮೂಲಗಳು: ಪಠ್ಯಪುಸ್ತಕ, ಆಕರ ಸಾಮಾಗ್ರಿಗಳು, ವಿಶ್ವ ಕೋಶ, ಶಬ್ದಕೋಶ.	righteous conduct, peace, love and non-violence. 2.4 Role of Teachers in Value Education and teaching value education in secondary school. **Unit 3: Approaches of Value Education in Secondary Schools** 3.1 The Direct Approach: - Discussion – Panel, Symposium, Interview. - Brainstorming and Buzz Session. - Sharing reflection on songs, slogans, poems, scripture passages. - Parables, stories, bio graphics, anecdotes, case study, role play, attitude test. - Photo-language. 3.2 The Indirect Approach - Value Integration through School curriculum; Identification of plug-points in school subjects for value education. -Use of incidental occurrences/occasions to highlight values. 3.3 Audio-visual Resources in Value Education: Pictures, posters, advertisements, bulletin-board, puppet shows, tape-recorder, slide film strips, films T.V./Video programmes, Internet, Multi-media, CDs. 3.4 Field trips – visits to hospitals, ashrams, temple/mosque/church.	
21	III SEMESTER	हिन्दी विषयाधारित बोधना क्रम	घटक: १. भाषा बोधना विधान और योजनाएँ १.१ गद्यभाग बोधन:- उद्दिश्य , ५ -पाठयोजना, द्विभाशिक विधान , अर्थ, हंत, प्रत्यक्ष विधान, रचनात्मक	**EDUCATIONAL AND VACATIONAL GUIDANCE** **UNIT 1: FUNDAMENTALS OF GUIDANCE AND COUNSELING** 1.1 Meaning, Nature, Need and scope of Guidance and Counselling with special reference to modern Indian	

			विधान, प्रासंगिक विधान, संवहन विधान ,संरचनात्मक विधान। १.२ पद्य बोधन :- उद्दिश्य , पद्य पाठ योजना, खंड और अखंड पद्धती। १.३ व्याकरण बोधन:- उद्दिश्य अनुगमन / निगमनपद्धती , प्रबंधात्मक बोधन उद्दिश्य, बोधना विधान , प्रबंधात्मक बोधन में सादृश्यात्मक प्रक्रिया। १.४ बोधन उद्दीपन/उद्दिष्टता:- भाषा बोधना विधान में संबंधित ब्लूम का नव उद्दिश्योंका वर्गीकरण। घटक: २. भाषा शिक्षक और मौल्यमापन (10अवधि) २.१ विषय विश्लेषण:- प्रौढ़शाला हिन्दी भाषा के पाठ्यपुस्तकसे संबंधितपरिकल्पनाओं का विश्लेषण एवं महत्व। २.२ वार्षिक योजना , घटक योजना , घटक परीक्षा , संतुलित प्रश्न पत्रिका , गुण लक्षण , और हंत । २.३ भाषा मौल्यमापन:- निदानात्मक परीक्षा , परिहारात्मक बोधन / उपचारात्मक बोधन। २.४ हिन्दी भाषा शिक्षक का सामर्थता और विशिष्ट गुण - लक्षण एवं अर्हता घटक: ३. भाषा बोधन में कलिका उपकरण और साधनों का उपयोग। ३.१ दृक श्रवणोपकरण :- श्याम पट ,चित्र , फ्लैश -कार्ड , रेडियो-	Society, Meaning of Group Guidance principles & Aims Nature & scope. 1.2 Aims & Principles of Guidance and Counselling 1.3 Methods of Counselling: Directive, Non-Directive, Eclectic 1.4 School Counsellor; Psychologist, Social Worker, Rehabilitation worker, Career Master Teacher as Guidance worker. **UNIT 2: TOOLS AND TECHNIQUES IN GUIDANCE AND COUNSELING** 2.1 Organizing Guidance and Counselling Services in Secondary School 2.2 Testing Techniques - Intelligence, Aptitude, Achievement Tests; Personality, Adjustment, Interest.(must be aware of one standardized test from each) 2.3 Non-Testing Techniques: Case Study, Cumulative records, Questionnaire, Anecdotal record, Autobiography, observation. 2.4 Selection of Tests for Placement in Educational and Professional Institutions. **UNIT 3: CAREER GUIDANCE IN SECONDARY SCHOOLS** 3.1 Career Awareness Skills, Career Information; Career Decision Making Skills – Selection of School Subjects, Future Training Course and Future Career 3.2 Guidance and Counselling for Children with Special Needs: Juvenile delinquents socially disadvantaged. 3.3 Group Dynamics: Meaning Assumption Sociometry techniques 3.4 Career Bulletin, Career Corner and Career Conference.	

			ध्वनिकरण , स्थिर चित्र , चल चित्र, दूरदर्शन। ३.२ भाषा बोधनोपकरण:- अंतर्जाल का उपयोग , कक्षा - कोना, भाषा प्रयोगालय। ३.३ भाषा बोधन क्रियाएँ :- हिन्दी संघ , शैक्षणिक यात्रा, चर्चा गोष्टी , विचार संकिरण , साक्षात्कार (संदर्शन) , साहित्यकारों से मुलाकात , रसप्रश्न कार्यक्रम , आशुभाषण , गीत , कार्यागार ३.४ भाषा कलिका, साधनोपकरण :- पाठ्य पुस्तक , मूल सामग्री ,विश्वकोश , शब्ध कोश।		
22	III SEMESTER	**PEDGOGY OF SCHOOL SUBJECT 1: COMMERCE**	**UNIT 1: AIMS AND OBJECTIVES OF TEACHING COMMERCE** 1.1 The aims and objectives of teaching commerce at secondary and higher secondary level 1.2 General instructional objectives and specific learning outcomes based on Blooms modified taxonomy of objectives 1.3 Content and pedagogical analysis in commerce 1.4 Commerce teacher and skills required for commerce teaching **UNIT 2: TRENDS IN TEACHING AND EVALUATION OF COMMERCE** 2.1 Importance of planning for the year's work-Unit Plan, lesson plan 2.2 Methods of teaching commerce: Case study method, Problem solving method, Inductive- deductive method. 2.3 Co-operative learning - meaning, importance and types. Simulation - role play, games, CAM- organization and execution in teaching of Commerce		

			2.4 Tests for different purpose - Achievement, Diagnosis and Prognosis-Construction and administration examining the results of these tests. **UNIT 3: RESOURCES OF TEACHING COMMERCE** 3.1 Use of e-resources - Discussion forum, e-book, e-Journals, e-business with reference to relevance in commerce teaching 3.2 Commerce club, Market studies and surveys, Commerce room, Community resources in commerce. 3.3 Text books in commerce-Nature, functions, characteristics and its critical analysis. 3.4 Supplementary reading materials, Resource Books and instructional aids in commerce.		
23	III SEMESTER	**PEDGOGY OF SCHOOL SUBJECT 1: PHYSICS**	**UNIT 1: INTRODUCTION TO TEACHING AND LEARNING OF PHYSICS** 1.1 Aims and objectives of teaching Physics: General aims of teaching physics at the secondary level; Instructional objectives: Meaning, writing Instructional objectives according to Bloom's modified taxonomy of educational objectives. 1.2 Organisation of the Curriculum: Psychological, Logical, Spiral and Topical Curriculum: Meaning and principles; Curriculum development project salient features-PSSC 1.3 Recommendation of Curriculum Framework: NPE-1986, NCF-2005 1.4 Physics Teacher: Professional competencies; Need and measures for professional growth of Science Teacher **UNIT 2: PLANNING AND ORGANIZATION OF LESSONS IN PHYSICS** 2.1 Analysis of the Physics Content as Facts, Concepts, Principles, Theories and Laws with reference to Secondary and Higher		

			Secondary Level. 2.2 Year Plan: Meaning, Format, Need and Importance. 2.3 Lesson Plan 5E Model: Constructivist Approach; Phases and Application. 2.4 Unit Plan: Meaning, Importance, Steps and Format. 2.4 Unit Test: Concept, Construction and Administration. **UNIT 3: APPROACHES, METHODS AND RESOURCES OF TEACHING PHYSICS** 3.1 Approaches: Learner Centered and Activity Centered, Inductive and Deductive: Characteristics, Advantages and Disadvantages. 3.2 Methods: Lecture cum Demonstration, Project, Problem Solving, Laboratory and Individualised Instruction: Programmed Instruction and CAI application (Examples to be chosen from Secondary School Physics Curriculum) 3.3 Models of Teaching Application: Concept Attainment Model and Inquiry Training Model. 3.4 Physics Laboratory: Importance, Designing, Planning, Equipping, Maintenance of Equipments and Records; Improvised apparatus in Physics-Concept procedure of preparing any three improvised model; Science Club-objectives, organisation and activities.		
24	III SEMESTER	**PEDAGOGY OF SCHOOL SUBJECT 1: CHEMISTRY**	**UNIT 1: CURRICULUM STUDY IN CHEMISTRY** 1.1 Aims and objectives of teaching Chemistry: General aims of teaching chemistry at the secondary level; Instructional objectives: Meaning, writing Instructional objectives according to Bloom's modified taxonomy of educational objectives. 1.2 Curriculum: Meaning and principles; Curriculum development project salient features-Chemical Bond Approach 1.3 Recommendation of Curriculum Framework: NPE-		

			1986, NCF-2005 1.4 Chemistry Teacher: Professional competencies; Need and measures for professional growth of Science Teacher **UNIT 2: PLANNING AND ORGANIZATION OF LESSONS IN CHEMISTRY** 2.1 Analysis of the Chemistry Content as Facts, Concepts, Principles, Theories and Laws with reference to Secondary and Higher Secondary level 2.2 Year Plan: Meaning, Format, Need and Importance. 2.3 Lesson Plan 5E Model: Constructivist Approach; Phases and Application. 2.4 Unit Plan: Meaning, Importance, Steps and Format. 2.4 Unit Test: Concept, Construction and Administration. **UNIT: 3 APPROACHES, METHODS AND RESOURCES OF TEACHING CHEMISTR** 3.1 Approaches: Learner Centered and Activity Centered, Inductive and Deductive: Characteristics, Advantages and Disadvantages 3.2 Methods: Lecture cum Demonstration, Project, Problem Solving, Laboratory and Programmed Instruction: Characteristics, Steps, Advantages and Disadvantages (Examples to be chosen from Secondary School Chemistry Curriculum) 3.3 Models of Teaching: Concept Attainment Model and Inquiry Training Model 3.4 Chemistry Laboratory: Importance, Designing, Planning, Equipping, Maintenance of Equipments and Records; Improvised apparatus in Physics-Concept procedure of preparing any three improvised model; Science Club-objectives, organisation and activities.		
25	III SEMESTER	**PEDGOGY OF SCHOOL SUBJECT**	**UNIT 1: AIMS AND OBJECTIVES OF TEACHING SOCIAL SCIENCE** 1.1 Aims of teaching History-		

		2: SOCIAL SCIENCE	moral training, patriotism, national integration, international understanding, and transmission of culture, socialisation and historical perspective. 1.2Aims of teaching Political Science –democratic citizenship, civic sense, political consciousness, functional awareness of rights and duties, national integration, international understanding and world citizenship. 1.3Aims of teaching Geography- understanding of interrelationship between humans and environment, desire for travel and tourism, aesthetic sense, patriotism, world citizenship, interdependence, adjustment and brotherhood. 1.4 Blooms Modified taxonomy of educational objectives. **UNIT 2: PLANNING OF INSTRUCTION & EVALUATION** 2.1 Content analysis- Concept, characteristics and applications 2.2 Annual plan – Importance, characteristics and format. 2.3 Lesson plan – Importance, 5E Model, phases and applications. 2.4 Unit plan– Importance, steps and format, unit test-meaning, importance, steps involved in the construction of well balanced question paper. **UNIT 3: RESOURCES OF TEACHING HISTORY AND POLITICAL SCIENCE** 3.1 Conventional pedagogies- Source method, Lecture method, Comparative method, Storytelling method- meaning, steps and advantages. 3.2Constructivist pedagogies: Dramatic method, Project method, Survey Method, Journey method, Discussion method- meaning, steps and advantages, Jury prudential model of teaching. 3.3 Co-operative learning strategies: think pair share, round robin, buzz, gallery walk, jigsaw		

			method 3.4 Learning resources: Audio-visual Resources: TV, Films, and Documentary – importance and uses. Visual resources: Maps, Models, Globes, Timeline, Atlas, Travelogue- importance and uses. Print Media: Magazine, news papers, archives – importance and uses. On line resources: websites, virtual tours- – importance and uses. Community Resources- meaning, types, local library, museums, exhibitions- importance in teaching. Social Science club: Concept, objectives, organisation and activities.		
26	III SEMESTER	**PEDGOGY OF SCHOOL SUBJECT 2: MATHEMATICS**	**UNIT 1: INTRODUCTION TO TEACHING AND LEARNING OF MATHEMATICS** 1.1 Aims and Objectives of teaching Mathematics: General Aims of teaching Mathematics at the Secondary school level; Instructional objectives: Meaning, writing Instructional objectives according to Bloom's Modified Taxonomy of Educational Objectives (2001) with reference to Secondary School Mathematics Syllabus. 1.2 Co-Relation: Meaning, co-relation of Mathematics with Physics, Chemistry, Biology, Engineering, Astronomy, Agriculture and its use in day to day life. 1.3 Values of Teaching Mathematics: Development of values in the present context- Utilitarian, Disciplinary, Cultural, Aesthetic and Recreational values. 1.4 Mathematics Teacher: Professional competencies; need and measures for professional growth for a Mathematics teacher. **UNIT 2: PRACTICES AND RESOURCES IN THE TEACHING AND LEARNING OF MATHEMATICS** 2.1 Pedagogical Analysis:		

			Concept, analysis of the Mathematics content – as facts, concepts, relations, generalizations, rules, proofs, problems, with reference to 8^{th} , 9^{th} and 10^{th} Standard of Karnataka Secondary School State Syllabus 2.2 Planning for Instruction: Year plan – Meaning, format, need and importance; Unit plan – Meaning, characteristics, format and steps; Lesson Plan – Meaning, characteristics, format and steps; Constructivist Approach – Meaning, features; 5E Model: Phases and application. 2.3 Unit Test: Meaning, Importance, steps; Construction of well-balanced question paper in Mathematics; Construction of objective based objective type test items. 2.4 Diagnostic Test in Mathematics: Concept, Construction and importance; remedial teaching: concept, planning and remedial measures in Mathematics. **UNIT 3: APPROACHES, METHODS AND RESOURCES TO TEACH MATHEMATICS** 3.1 Approaches and methods of teaching Mathematics: Inductive – Deductive Approach, Analysis – Synthesis Approach, Constructivist Approach, Activity Based Learning approach, - meaning, characteristics, steps, merits and limitations; Project Method, Cooperative Learning Method, Heuristic Method – meaning, characteristics, steps, merits and limitations; Models of teaching: Concept Attainment Model (CAM) – Syntax, and application for teaching. 3.2 Teaching learning materials and activities in Mathematics: Reference Books, Work books, Community resources – Characteristics and uses; Black board, charts, models, flash cards, Computer – Characteristics and uses and use; Mathematics club –		

			objectives, organization and activities; National Talent Search programme and Mathematics Olympiad. 3.3 Mathematical Laboratory: Need, importance, equipments, maintenance and use of Laboratory for Teaching and Learning Mathematics; Improvised Models in Mathematics: Concept and Procedure of preparing any three improvised Model. 3.4 Techniques for teaching Mathematics: Oral work, written work and Drill work – meaning, significance, application and Principle for Drill Work.		
27	III SEMESTER	**PEDGOGY OF SCHOOL SUBJECT 2: BIOLOGICAL SCIENCE**	**UNIT 1: INTRODUCTION TO TEACHING AND LEARNING OF BIOLOGY** 1.1 Aims and Objectives of teaching Biology: Relevance, Meaning and need of objective Based Teaching, General and specific aims of objectives of teaching Biology at Senior Secondary Level. (Botany, Zoology) 1.2 Anderson's revised Bloom's taxonomy of Objectives (2001) with reference to Biology. 1.3 Innovative Strategies of Teaching biology in India and abroad, Collaborative / Cooperative learning strategies – Learning together JIGSAW technique of teaching biology 1.4 Biology Teacher: Professional growth of Biological Science Teacher in service programme, Orientation Programme, refresher course, MOOC, Seminar symposium workshops. **UNIT 2: PLANING AND ORGANISATION & LESSONS IN BIOLOGICAL SCIENCE** 2.1 Year Plan: Meaning, Construction, Task analysis: Meaning and advantages. 2.2 Development of Unit Plan, Unit Test: Meaning, Importance, Components, Steps and Format. 2.3 Diagnostic tests, remedial/enrichment measures &		

			monitoring learner's progress, Identification of learning difficulties and remedial Teaching. Achievements test its construction & administration. 2.4 Lesson Plan: Meaning, Need, Importance, Steps and Format, 5 'E' Models. Models of Teaching Biological Science Meaning: Importance and Steps of Concept Attainment model. **UNIT 3: APPROACHES, METHODS AND RESOURCES OF TEACHING BIOLOGICAL SCIENCE** 3.1 Approaches: Inductive and Deductive Discovery Approach and Problem Solving Approach (Maier's) Models of Teaching: Biological Science Enquiry Model (Joseph Schwab), Memory model (J. Lucas) 3.2 Methods: Lecture cum demonstration method Heuristic method, Dalton Plan, Teaching Techniques and Strategies of Brain Storming, Role Playing, Seminars and Debate. 3.3 Learning Resource: Need and significance of learning resources in Biology, Biology Laboratory as a learning resource; Design and components of Biology laboratory use of Science and Biology experiment kits in teaching-learning of Biology. 3.4 Community resources of teaching Biology: Eco club debates, discussions, field visits (Botanical and Zoological Gardens, Science Centres, Science Museums, Sea Shores, etc.)		

Agenda 2

Calendar of Events drafted for the fresh batch of 2021-2022

The calendar of events for the new batch of B.Ed. January 2021 was proposed & passed in the meeting by all the members to get the approval from the Registrar (Academics).

Agenda 3

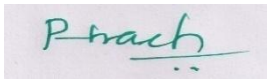
New BOE members formulated with two External members

It was unanimously accepted by all members to nominate Mr. Padmanabh C H as BOE – Chairman with two external members as follows.

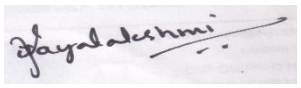
1. Mr. Padmanabh C H - Chairman
1. Dr. Vijayalakshmi Naik - Member
2. Mrs. Seema P.V - Member
3. Mrs. Shakeela K - Member
4. Mrs. Malati R Bhavinamane - External Member, Faculty, Leelavathi College of Education, Kavoor, Mangalore.
5. Mrs. Mallika - External Member, Faculty, Gokarnatheshwara College of Education, Kudroli, Mangalore.

Dr. Jayashree.K
Dean/Chairman

Dr. Kumaraswamy
External member

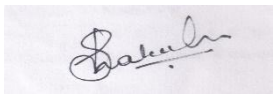


Dr. Padmanabha C.H
Member



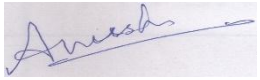
Dr. Vijayalakshmi Naik
Member

Mrs. Seema P.V
Member



Mrs. Shakeela. K
Member

Mrs. Reshma M Y
Member



Ms. Anusha Jane D'souza
Alumini

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INSTITUTE OF NURSING SCIENCES, MUKKA

REF No : SU/INS/ 051/2025-26 DATE : 2006.01.2025

Respected Madam,

With reference to the mail dated 1st January 2025 regarding update certain documents for the NAAC process, here by we submit the following documents

1. The Nursing syllabus is based on the Indian Nursing Council's guidelines and is implemented as such. However, a few modifications were made in accordance with the Board of Studies (BOS). The distribution of hours for theory and practical sessions was adjusted to provide more clinical hours, with a focus on enhancing practical skills.

	INC	**Srinivas University**
First Year	Nursing Foundation – 265 +200 hrs	Nursing Foundation – 275 +200 hrs
	Psychology – 60hrs	Psychology – 80hrs
	Microbiology -60	Microbiology -60 +20
	Introduction to Computer -45 hrs	Introduction to Computer -55+20 hrs
Total Hours	930+450+100= 1480hrs	950+510+100= 1560hrs
Second Year	Sociology – 60 hrs	Sociology – 80 hrs
	Pharmacology – 45 hrs	Pharmacology – 50 hrs
	Pathology -30 hrs	Pathology -30+10 hrs
	Medical Surgical Nursing (Adult including geriatrics) practical -720 hrs	Medical Surgical Nursing (Adult including geriatrics) practical -800 hrs
	Community Health Nursing-90+135hrs	Community Health Nursing-100+160hrs
	Communication and Educational Technology - 60+30 hrs	Communication and Educational Technology 70+30 hrs
Total Hours	340+855+85= 1480 hrs	560+1000+100= 1660hrs
Third Year	Medical Surgical Nursing -II-120+270hrs	Medical Surgical Nursing -II 120+ 300 hrs
	Child Health nursing -90+270 hrs	Child Health nursing - 100+300 hrs
	Mental Health Nursing - 90+270 hrs	Mental Health Nursing - 100+300 hrs
	Nursing Research and Statistics – NOT INCLUDED	Nursing Research and Statistics - 50 hrs
	Midwifery & Obstetrical Nursing – 90+180 hrs	**Midwifery & Obstetrical Nursing – NOT INCLUDED**
Total Hours	390+990+100= 1480 HRS	3700+900+100=1370 HRS

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INSTITUTE OF NURSING SCIENCES, MUKKA

Fourth Year	Midwifery & Obstetrical Nursing-nil +180 hrs	Midwifery & Obstetrical Nursing-130+430HRS
	Community Health Nursing – 90+ 135hrs	Community Health Nursing – 90+ 140hrs
	Nursing Research 45 + project	**Completed in 3rd year**
Total Hours	225+ 315= 540 hrs	**280+ 600= 880hrs**

2. The list of the BOS committee for 2021-22 is attached.

3. The Mentor-Mentee list for the year 2023-24 is also attached.

Thanking You

Dean
Dr. Juby Mary Chacko

Dean
Institute of Nursing Sciences
G.H.S. Road, Mangalore

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SRINIVAS UNIVERSITY
COLLEGE OF COMPUTER SCIENCE & INFORMATION SCIENCE
MINUTES OF THE BOARD OF STUDIES (BOS) MEETINGS
UG & PG COURSES

HELD ON 10/04/2021 AT 2PM IN THE CONFERENCE ROOM
CITY CAMPUS -SU

The meeting of the ***Board of Studies (BOS) for UG & PG Courses of the College of Computer Science & Information Science*** was held on **10/04/2021 at 2 PM** in SU City Campus - Conference Room, which was presided over by Prof. Subrahmanaya Bhat – Dean of the College.

Sitting Members: -

(1) Prof. Subrahmanya Bhat	-	Chairman
(2) Prof. P. Sridhara Acharya	-	Member
(3) Prof. Vaikunth Pai	-	Member
(4) Prof. Panchajanyeshwari Achar	-	Member
(5) Prof.Krishnaprasad K	-	Member
(6) Prof. Mangesh Nayak	-	Member
(7) Mr. Shylesh S, SCDCC Bank, Mangaluru (Alumni)		External Member
(8) Mr. Srinivas Rao, Software Administrator, (Industry) Diya Systems, Mangalore	-	External Member

Agenda

- **UG Courses and Syllabus**
- **PG Courses and Syllabus**
- **BOE for UG**
- **BOE for PG**
- **Any Other Matter**

The Gist of the meeting proceedings are as follows: -

Prof. Subrahmanya Bhat convened the meeting, welcomed all the sitting members, and addressed a few factors on action plans for the academic year 2021-22.

Resolution – 1:

Starting of new Credit based – Three-year (6 semesters) **BCA** program for the academic year 2021-22. Specialized subjects like Artificial Intelligence and Virtual Reality and Cloud Computing, Ethical Hacking, and Cyber Security and Data Science and Mobile Application related subjects were identified for each of the programs every semester and its detailed syllabus has been finalized after a thorough discussion with all the sitting members of BOS.

The existing BCA course syllabus also has been revised by considering the requirements of IT industries. Two courses each of 1 credit have been included in order to improve the employability skills among the students. The finalized syllabus has been sent to the registrar for final approval.

The new BCA course from the academic year 2021-22 has been updated according to NEP Syllabus in the following aspects compared to its previous year.

- 100 percent modification in the syllabus according to NEP Syllabus.
- The entire course syllabus is modified according to the credit-based system.
- According to NEP each semester contains 3 subject-oriented core subjects and 3 skill-enhanced subjects and 2 language subjects.

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The NEP based syllabus for BCA 2021-22

Sl. No	Subject Code	Subject Name	Modification
1.	21CAC-1	Problem-solving using c	The focus is given to problem-solving methodology.
2	21CAC-2	Foundation of information technology	Unit III is modified modifying the concept of based programming language
3	21CAC-3	Basics of internet and web design	New subject.
4	21CAC-1P	LAB on Problem Solving using C	All programs changed.
5	21CAC-2P	Lab on the foundation of information systems	All exercises are modified.
6	21CAE-1	Information systems	The Unit IV having Advanced Written Communication is modified Research topics Journal writing Introduced
7	21CAC-4	Object-oriented programming	Only OOP Concepts are retained.
8	21CAC-5	Database management and MySQL	Relational data model is introduced

9	21CAC-6	Computer organization	Computer registers and counters
10	21CAC-4P	ab on object-oriented programming using c++	Quick sort is modified.
11	21CAC-5P	lab database management and MySQL	All programs changed.
12	21CAE-2	Introduction to electronic commerce	The basics of SDLC is introduced.
13	21CAC-7/SD	Programming in Core Java	The web interface for Servletsis modified.
14	21CAC-8/SD	HTML, VB Script and Java Script	Introduction to different types of Servers.
15	21CAC-9	Operating Systems	Kernel Architecture is modified
16	21CAC-7P	Lab on Programming in Core Java	All programs changed.
17	21CAC-8P	Lab on HTML, VB Script and Java Script	All programs changed.
18	21CAE-3	Open Elective-3	New subject introduced
19	21CAL1-3	English	New subject introduced
20	21CAL2/L3-3	Kannada/Hindi/French/ Malayalam	New subject Introduced
21	21CAC10/	Advanced Java Programming	Web interface for Servlets is introduced.
22	1CAC11/SD	Web Technology	Importance of C# in programming
23	21CAC12/SD	E-Commerce	Introduction to Firewall is withdrawn. Different types of E payment
24	1CAC10P/SD	Lab on Advanced Java Programming	All programs changed.
25	21CAC11P/SD	Lab on Web Technology	Web interface for Servlets is modified.
26	21CAE-4	Open Elective-4	New subject introduced
27	21CAL1-4	English	New subject introduced
28	21CAL2/L3-4	Kannada/Hindi/French/Malayalam	New subject introduced
29	1CAC13/SD	Linux Environment	Monitor and Audit log is modified in cloud security
30	1CAC14/SD	Distributed Computing	SDLC need of SDLC, components, structure are introduced.
31	1CAC15/SD	Principles of TCP/IP	Comparison between IPv4 and IPv6
32	1CAC13P/SD	Lab on Linux Environment	All programs modified
33	21CAC14P/SD	Lab on Distributed Computing	All programs modified

34	21CAE-5	CA Elective-1	New subject introduced
35	21CAV-3	Vocational - 1	New subject introduced
36	1CAC 16/S D	LAMPTechnology	Apache Web Server Web based PHP database is introduced
37	21CAC 17/ SD	Application Programming in R	Software Configuration Management is introduced.
38	21CAC 18/ SD	Data Mining	Monitor and Audit log is modified in cloud security
39	16	Lab on LAMPTechnology	All programs modified
40	21CAC 17P/SD	Lab on Application Programming in R	All programs modified
41	21CAE-6	CA Elective-2	New subject introduced
42	21CAV-5	Vocational - 2	New subject introduced

Total Number of Papers in BCA 42

Total modifications are done **All subjects are modified according to NEP Syllabus.**
Percentage of Modifications **100%**

Resolution – 2:

Based on the feedback from various stakeholders of the institution, the existing MCA course syllabus has been revised for the academic year 2021-22, by considering the requirements of IT industries. Specialized courses were identified for these programs every semester and its detailed syllabus has been finalized after a thorough discussion with all the sitting members of BOS. It has been decided to call industry experts in order to deliver some identified courses of MCA. Two courses each of 1 credit have been included in order to improve the employability skills among the students. The finalized syllabus has been sent to the registrar for final approval.

The new MCA course from the academic year 2021-22 has been updated in the following aspects compare
to its previous year.

MCA 2021-22

Sl. No	Subject Code	Subject Name	Modification
1.	21MCA13	Web Frameworks	Angular and node JS included in III and IV unit
2.	21MCA151	Statistics for Data Science	The application part of statistics is introduced in the V unit
4.	21MCA142	Introduction to Cyber Security and Cyber Law	Disaster Recovery, Personnel Security topics are included in the IVunit
5.	21MCA153	Ethical Hacking	Hacking Mobile Platforms, Android Hacking, and Mobile Device Management topics are included inV unit
6.	21MCA242	Network and Web Application Security	The DevOps Approach topic isincluded in V unit
7.	21MCA252	Cryptography Blockchain technology	Blockchain technology topics are included in IV and V unit
8.	21MCA383	Cyber Forensics	Case studies are updated in IV unit
9.	21MCA353	Security Incident and Compliance Management	Vendor Risk Management, Reporting topics are included in V unit

Total Number of Papers in MCA: 15
Total modifications are done in terms of paper 32
Approximate Percentage of Modifications: 28%

Resolution – 4:

Nomination to Member for BOE-UG

The following members have been nominated as members of BOE in UG, for the academic year 2021-2022.

(1) Prof. Netravathi P S
(2) Ms. Anusha Rai

Members of BOE - UG

Academic (internal):

(1)	Mr. Mangesh Nayak	- Chairman
(2)	Prof. Subrahmanya Bhat	- Member
(3)	Prof. Vaikunta Pai	- Member
(4)	Prof. Sridhara Acharya	- Member
(5)	Panchajanyeshwari Achar	- Member
(6)	Prof. Krishnaprasad K	- Member
(7)	Mr. Shylesh S	- Member
(8)	Mrs. Chaitra B S	- Member
(9)	Mr. Pradeep M D	- Member
(10)	Mr. Varun Shenoy	- Member
(11)	Mrs. Pavitra Kumari	- Member
(12)	Prof. Netravathi P S	- Member
(13)	Ms. Anusha Rai	- Member

Resolution – 5:

Nomination to Members for BOE-PG

Following member have been nominated as members of BOE in PG, for the academic year 2021-2022.

(1) Prof. Netravathi P S

Members of BOE - PG

Academic (internal):

(1)	Prof. Vaikunta Pai	- Chairman
(2)	Prof. Subrahmanya Bhat	- Member
(3)	Prof. Panchajanyeshwari Achar	- Member
(4)	Prof. Sridhara Acharya	- Member
(5)	Dr. Krishnaprasad K	- Member
(6)	Mr. Shylesh	- Member
(8)	Mr. Pradeep M D	- Member
(9)	Mr. Varun Shenoy	- Member
(10)	Prof. Netravathi P S	- Member

In addition, it has been decided to call identified industry experts also as examiners for some courses in **MCA & BCA**

Resolution – 6:

Non-credit certificate courses for BCA and MCA programs: Based on request and demand from the student side department is decided to start a certification program for BCA and MCA programs. For BCA we plan to start a certification program entitled Hardware and Networking and for MCA we plan to start a certification program entitled Data Science Using Python.

Resolution – 7:

Other Related Matters

The members also discussed various other related matters about the forthcoming Academic Examinations, the Scheme of Valuation and Question Bank, and starting non-credit certification programs for BCA and MCA, etc. The meeting ended after a detailed discussion, questions & answers including certain clarifications on the above points and finally, a vote of thanks to all present was extended by Prof. PSA.

cc: Vice Chancellor, Srinivas University
Registrar, Srinivas University
Registrar (Evaluation), Srinivas University

Prof.Subrahmanya Bhat

Prof. Sridhara Acharya

Prof.Vaikunth Pai

Prof. Panchajanyeshwari Achar

Prof. Krishnaprasad K

Mr. Shylesh (Alumni)

Mr. Srinivas Rao (Industry)

Mr. G.K Bhat

SRINIVAS UNIVERSITY

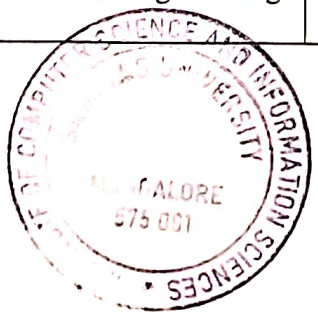
INSTITUTE OF COMPUTER SCIENCE & INFORMATION SCIENCES

Course/Content Modification in current BCA syllabus compared to old syllabus

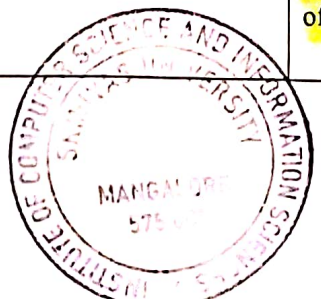
The following corrections were made in the syllabus

Sl. No.	Semester	Course & Course	Old Syllabus	Revised Syllabus (2021-22 Batch BCA)	Credits
1.	I SEMESTER	BCA	Programming Language C++	Problem Solving using C	3
		BCA	Computer Organization	Basics of Internet and Web Design	3
				English(NEP)	3
				ESEP(NEP)	2
				Communicative Engllish/Kannada(NEP)	2
	II SEMESTER	BCA	Data Structure using C++	Object Oriented Programming using C++	3
			Basics of Networking	Computer Organization/ Introduction to Artificial Intelligence/ Introduction to Cloud Computing (Any one of three papers as a specialization)	3

			---	Interdisciplinary Open Elective Paper	3
				Communication English(NEP)	3
				Health & Wellnes/Social & Emotional(NEP)	2
				ESEP(NEP)	2
	III Semester	BCA	Programming in Core Java	Data Structures using C++	
				Module 1- Recursion: Definition; Recursion Technique Examples – Factorial, Fibonacci sequence, Towers of Hanoi.	3
				Module 3 - Dynamic memory management: Memory allocation and de-allocation functions - malloc, calloc, realloc and free.	
				Module 5 - Graphs: Terminologies, Matrix representation of graphs; Traversal: Breadth First Search and Depth first search	
			Data Mining/Artificial Intelligence	Operating System/ Introduction to Virtual Reality/Introduction to Cyber Security	
			----	(Specialization Paper)	3
				Inter disciplinary Open Elective paper	3
				English(NEP)	3
				Constitution of India(NEP)	2
				ESEP(NEP)	2
				Mini project(NEP)	2
	IV Semester	BCA	Advanced Java Programming	Programming in Core Java	3



			System Analysis and design/Computer Oriented Numerical Analysis	E-Commerce/ Neural Networks/ Introduction to Ethical Hacking	3 3
			----	Ecommerce Module 1 – Taxonomy of business models of E-com Module 2 - Electronic Payment System: Introduction to payment system, online payment system, prepaid and postpaid (eCash and Cyber Cash) electronic payment systems, requirement metrics of a payment system. Module 3 - Electronic Commerce: Network infrastructure: LAN, Ethernet LAN, WANs, Internet, TCP/IP reference model, Domain Name systems, and Internet industry structure. Inter disciplinary Open Elective paper English(NEP) Sports/NSS/NCC(NEP) ESEP(NEP) Mini project(NEP)	3 2 2 2 3
	V Semester	BCA	Distributed Computing	Advanced Java Module-5 Web interface for Servlets	3
			Project Management/Cloud computing/Wireless Communication and Networks	Principles of TCP/IP/ Digital Image Processing /Fundamentals of Storage and Network Security	3



			----	(Specialization Paper)	3
				Internship Program	2
				Vocational – 1(NEP)	2
				Ethics & Self Awareness(NEP)	2
				ESEP(NEP)	
				Minor Project(NEP)	
	VII Semester	BCA	NA	Linux System Administration	4
				. Net Framework with C#	4
				Web Frameworks/ Statistics for Data Science/ Cryptography	4
				Research and Publication Ethics	2
				Research Methodology	4
				Minor Project	2
	VIII Semester	BCA	NA	Database Programming and Administration	4
				Network Management	4
				Software Testing/ Machine Learning/ Security Incident and Compliance Management	4 4
				Report Writing using LaTex	4
				Research Project/Internship	4
				Publication	

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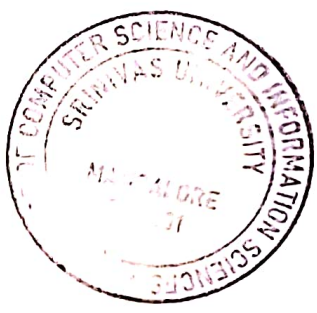

SRINIVAS UNIVERSITY
COLLEGE OF ALLIED HEALTH SCIENCES

PROCEEDINGS OF THE MEETING OF BOARD OF STUDIES HELD ON 05.03.2021 AT 9:30 AM IN THE BOARD ROOM

Members present:

1. Prof. Pavana Krishnamoorthy	Chairman
2. Mr. Naveen Bappanadu	Member
3. Mrs. Swathi D	Member
4. Ms. Varsha A C	Member
5. Ms. Kavya Shettigar K	Member
6. Mrs. Swathi Krishnan	Member
7. Mrs. Priyadhersini. S	Member
8. Dr. Sohan Rodney Bangera	Member
9. Dr. Vrinda J Bhat	External Member
10. Dr. David Rosario	External Member
11. B Balaji Narayan	Industrial Expert

The BOS discussed the following agenda:

1. Approve the minutes of the last Meeting of the BOS held on 21.10.2020.
2. Approval of Changes in Syllabus based on NEP.
3. Proposal for BOS member update.
4. Discussion regarding the Value Added-Courses.
5. Discussion related to Ability Enhancement Courses

Agenda No. 1: Confirmations of the minutes of Last Meeting of Board of Studies which was held on 12.10.2020. The Resolution was taken as per the suggestions of the BOS Members in the last meeting, all the Allied Health Sciences Courses were asked to update the changes proposed by the BOS Members.

Agenda No. 3: Changes were made in Syllabus documents Attached.

Agenda No. 3: The Chairperson stated the importance of adding the External members to the Board of Studies. The suggestion was reviewed by the BOS Members and the decision was taken as suggested.

Agenda No. 4: As per the suggestion of the BOS regarding the Value-Added Courses, Department of Forensic Science suggested a course, "Crime Scene Investigation" and Department of Respiratory Care Technology suggested a course, "Commit to Quit Tobacco". The resolution was taken accordingly for the Academic Year 2021 regarding the Value-Added courses and the same was approved by the BOS.

Agenda No. 5: The proposal was given to add up ability enhancement courses in the syllabus. The further discussion was made regarding the same and the suggestion was approved by the BOS and all the courses were asked to update the syllabus as proposed.

The meeting was concluded at 11:30 AM with a vote of thanks by Ms. Swathi Krishnan, Member and Board of Studies.

Prof. Pavana Krishnamoorthy,
Chairman,
BOS in Allied Health Sciences.

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Members present:

DEAN
Prof. Pavana Krishnamoorthy

Mr. Naveen Bappanadu

Mrs. Swathi D

Ms. Varsha A C

Ms. Kavya Shettigar K

Mrs. Swathi Krishnan

Mrs. Priyadhersini. S

Dr. Sohan Rodney Bangera

Dr. Vrinda J Bhat

Dr. David Rosario

B Balaji Narayan

OPTOMETRY

Subject: Amendment in the syllabus of BSc (Optometry)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of BSc (Optometry) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
I	Anatomy and Physiology	Anatomy (20BSCAHS101), Physiology (20BSCAHS102), Anatomy Practical (20BSCPRC101), Physiology Practical (20BSCPRC102)	General Anatomy (Section A) and General Physiology (Section B) (21BSCAHS101) General Anatomy (Section A) and General Physiology (Section B) Practical (21BSCPRC101)
I	Biochemistry	Biochemistry (20BSCAHS103) Biochemistry Practical (20BSCPRC103)	Removed
I	OPT subjects	NIL	Geometrical optics (21BSCOPT101) Geometrical optics practical (21BOPTPRC101)
I	Subsidiary Subjects	Medical Terminology (20BSCAHS104) English (20BSCLAN101)	Constitution of India (21BSCAHS102) Patient Contact Protocol (21BSCAHS103) Kannada (21BSCLAN101) English (21BSCLAN102)
II	OPT subjects	Geometrical optics Physical optics and Principles of Lighting	Basic ocular skills (21BSCOPT203) Ocular anatomy, physiology, Biochemistry Practical (21BOPTPRC201) Physical Optics (21BSCOPT202)

			Physical optics practical (21BOPTPRC202)
II	Subsidiary Subjects	Kannada (20BSCLAN202) Healthcare (20BSCAHS204)	Environmental Science and Health (21BSCAHS202) Hindi (21BSCLAN201) Sanskrit (21BSCLAN202)
III	Microbiology, Pharmacology	Applied Pathology Applied Microbiology	General Microbiology (Section A) and General Pharmacology (Section B) Practical (21BSCPRC301) General Microbiology (Section A) and General Pharmacology (Section B) (21BSCAHS301)
III	OPT subjects	NIL	Applied Ocular skills (21BSCOPT303) CEVS (21BSCOPT302) CEVS Practical (21BOPTPRC302)
III	Subsidiary Subjects	Computer Application/ Programming (20BSCAHS303) Environmental Sciences and Health (20BSCAHS304)	Computer fundamentals (21BSCAHS302) Yoga (21BSCAHS303)
IV	Applied Pathology and Applied Microbiology	Applied Pharmacology	Applied Pathology (Section A) and Applied Microbiology (Section B) (21BSCAHS401) Applied pathology(section A) and applied microbiology (section B) Practical (21BSCPRC401)
IV	OPT subjects	Clinical Examination of Visual System and Optometric Instruments	Clinical skills (21BSCOPT403) Visual Optics Practical (21BOPTPRC401)
IV	Subsidiary Subjects	Biostatistics and Research Methodology (20BSCAHS402) Constitution of India (20BSCAHS403)	Introduction to Clinical Psychology (21BSCAHS402)
V	OPT Subjects	NIL	Systemic Diseases (21BSCOPT504) Contact lens Practical(21BOPTPRC502) Dispensing & Occupational Optometry Practical (21BOPTPRC501)

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V	Subsidiary Subjects	Medical Psychology (20BSCAHS501)	Removed
VI	OPT Subjects	Binocular single vision, Pediatric Optometry and Recent Advances Low vision aids & Geriatric Optometry Systemic Diseases	Geriatric and Pediatric Optometry (21BSCOPT603) Binocular Single Vision (21BSCOPT601) Low vision (21BSCOPT602) Binocular Single Vision and Pediatric Optometry Practical (21BOPTPRC601) Low vision and Geriatric Optometry Practical (21BOPTPRC602)
VI	Subsidiary Subjects	Basic OT Management	Removed
VI	Research	NIL	Research Methodology (21BSCAHS601)
VII	Internship	Clinical skill evaluation I	Internship and Research Project – I (21BSCOPT701)
VIII	Internship	Clinical skill evaluation II and Project	Internship and Research Project – II (21BSCOPT801)

PERFUSION TECHNOLOGY

Subject: Amendment in the syllabus of BSc (Perfusion Technology)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of BSc (Perfusion Technology) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
1ST SEMESTER	• Anatomy • Physiology • Biochemistry • Medical Terminology English		-Combined Anatomy and Physiology, and considered it as general subjects. -Biochemistry is shifted to second semester -Introduction to OT and Instruments was newly added. -Constitution of India was added to 1st semester from 4th semester. - Medical terminology was changed to Patient Contact Protocol. -Kannada was added to 1st semester from 2nd semester.
2ND SEMESTER	• Pathology • Microbiology • Pharmacology • Kannada Healthcare		- Pathology and Biochemistry is combined as General subjects. -Microbiology and Pharmacology shifted to 3rd semester. - History and inventions of cardiopulmonary bypass, General Sterilization & Disinfection of Medical Devices, Hindi and Sanskrit was newly added. -Environmental Science and Health is

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			added from 3rd semester
3RD SEMESTER	• Introduction to Perfusion Technology • Applied Pathology • Applied Microbiology • Computer application/programming Environment science and Health		General Microbiology (Section A) & General Pharmacology (Section B) shifted from previous semester and made it general subjects. Basics of cardiopulmonary bypass part-I, Basics of cardiopulmonary bypass part-II, Introduction to perfusion equipment's and handling subjects are added. Physical education is introduced. Introduction to Perfusion Technology is removed.
4TH SEMESTER	• Applied Pharmacology • Basics of Cardiopulmonary bypass and Perfusion Techniques • Medicine relevant to Perfusion Technology • Biostatics and Research methodology Constitution of India.		Applied Pathology (Section A) & Applied Microbiology (Section B) is added. Applied Pharmacology is removed. Principles of cardiopulmonary bypass& Physiology of cardiopulmonary bypass shifted from 5th semester. Assembling skills & Medical Psychology is added. Constitution of India shifted to1st semester. -Biostatics shifted to 6th semester. Medicine relevant to Perfusion Technology is removed and shifted to 5th semester.
5th semester	• Principles of Cardiopulmonary Bypass		Clinical cardiopulmonary bypass, Applied

	• Physiology of Cardiopulmonary Bypass • Pediatric Perfusion and Special Perfusion Techniques • Elective I Medical Psychology		cardiopulmonary bypass is shifted from 6th semester. Medicine relevant to perfusion technology shifted from previous semester. Principles of cardiopulmonary bypass& Physiology of cardiopulmonary bypass to from 5th semester.
6st semester	• Clinical Cardiopulmonary Bypass • Applied Cardiopulmonary Bypass • Advanced Cardiopulmonary Bypass • Elective 2 Hospital Management		-Biostatics and Research Methodology was added from 4th semester. Pediatric perfusion and special perfusion techniques new subject is added. Clinical Cardiopulmonary Bypass and Applied Cardiopulmonary Bypass subjects shifted to previous semester.

Virology and Immunology

Subject: Amendment in the syllabus of BSc (Virology and Immunology)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of BSc (Virology and Immunology) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject	2020	2021
I	Anatomy Physiology	Anatomy- 20BSCAHS101 Physiology- 20BSCAHS102 Anatomy Practical - 20BSCPRC101 Physiology Practical- 20BSCPRC102	General Anatomy (Section A) and General Physiology (Section B)- 21BSCAHS101 General Anatomy (Section A) and General Physiology (Section B) Practical- 21BSCPRC101
	Biochemistry	Biochemistry -20BSCAHS103 Biochemistry Practical- 20BSCPRC103	Removed
	VI Subjects	NIL	Basic virology, biosafety and biosecurity- 21BSCVI101 Basic virology, biosafety and biosecurity practical- 21VIPRC101
	Subsidiary Subjects	Medical Terminology - 20BSCAHS104 English- 20BSCLAN101	Constitution of India- 21BSCAHS102 Patient Contact Protocol- 21BSCAHS103 Kannada- 21BSCLAN101 English- 21BSCLAN102

Semester	Subject	Existing	Amended
II	Pathology, Microbiology, Pharmacology	Pathology- 20BSCAHS201 Microbiology- 20BSCAHS202	General Biochemistry (Section A) and General Pathology (Section B)- 21BSCAHS201

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		Pharmacology- 20BSCAHS203 Pathology Practical- 20BSCPRC201 Microbiology Practical- 20BSCPRC202 Pharmacology Practical- 20BSCPRC203	General Biochemistry (Section A) and General Pathology (Section B) Practical (21BSCPRC201)
	VI subjects	NIL	Tissue/ cell culture & molecular biology- 21BSCVI201 Tissue/ cell culture & molecular biology practical- 21BVIPRC201 Microbial Pathogenicity & Sterilization-Disinfection Methods- 21BSCVI202
	Subsidiary Subjects	Kannada- 20BSCLAN202 Healthcare- 20BSCAHS204	Environmental Science and Health- 21BSCAHS202 Hindi- 21BSCLAN201 Sanskrit- 21BSCLAN202

Semester	Subject	Existing	Amended
III	Microbiology, Pharmacology	Applied Microbiology- Applied Pathology Applied Microbiology Practical- Applied Pathology Practical-	General Microbiology (Section A) & General Pharmacology (Section B)- 21BSCAHS301 General Microbiology (Section A) & General Pharmacology (Section B) Practical- 21BSCPRC301
	VI Subjects	Basic Virology and Cell & Molecular biology- Basic Virology and Cell & Molecular biology Practical-	Systemic Virology I & bioinformatics- 21BSCVI301 Introduction to Immunology- 21BSCVI302 Systemic Virology I & Immunology practical- 21BVIPRC301 Practical Bioinformatics Skills- 21BSCVI303

		Computer application/ programming- Environmental Science and Health-	Computer fundamentals- 21BSCAHS302 Yoga- 21BSCAHS303

Semester	Subject	Existing	Amended
IV	VI Subject	Virology & Immunology- 20BSCVI401 Biosafety & Biosecurity- 20BSCVI402 Virology & Immunology Practical- 20VIPRC401 Biosafety & Biosecurity Practical- 20VIPRC402	Systemic Virology II- 21BSCVI401 Basic Immunology I- 21BSCVI402 Emerging infectious disease, one health- 21BSCVI403 Systemic Virology II and Basic Immunology I Practical- 21BVIPRC401
	Applied Pathology and Applied Microbiology	NIL	Applied Pathology (Section A) & Applied Microbiology (Section B)- 21BSCAHS401 Applied Pathology (Section A) & Applied Microbiology (Section B) Practical- 21BSCPRC401
		Applied Pharmacology- 20BSCAHS401 Applied Pharmacology Practical- 20BSCPRC401	NIL
	Subsidiary Subjects	Biostatistics and Research Methodology- 20BSCAHS402 Constitution of India- 20BSCAHS403	Introduction to Clinical Psychology- 21BSCAHS402

Semester	Subject name	Existing	Amended
V	VI subjects	Clinical Virology-I- 20BSCVI501 Advanced Immunology- 20BSCVI502 Surveillance- 20BSCVI503	Virological techniques & Analytical methods- 21BSCVI501 Basic Immunology II- 21BSCVI502

		Clinical Virology-I Practical- 20VIPRC501 Advanced Immunology Practical- 20VIPRC502 Surveillance Practical- 20VIPRC503	Public Health Surveillance- 21BSCVI503 Virological techniques & Analytical methods practical- 21BVIPRC501 Basic Immunology II practical- 21BVIPRC502
	Subsidiary Subjects	Medical Psychology- 20BSCAHS501 Medical Ethics and Legal Aspects- 20BSCAHS503	Removed

Semester	Subject name		Amended
VI	VI Subjects	Clinical Virology II- 20BSCVI601 Advanced Immunology II- 20BSCVI602 Basic Epidemiology- 20BSCVI603 Clinical Virology-II Practical- 20VIPRC601 Advanced Immunology II Practical- 20VIPRC602 Basic Epidemiology Practical- 20VIPRC603	Insect vectors of Viral disease & Entomological surveillance- 21BSCVI601 Basic epidemiology- 21BSCVI602 Insect vectors of Viral disease and Entomological surveillance Practical- 21BVIPRC601 Basic epidemiology Practical- 21BVIPRC602
	Subsidiary Subjects	Hospital Management- 20BSCAHS603	Research Methodology- 21BSCAHS601

RENAL DIALYSIS TECHNOLOGY

Subject: Amendment in the syllabus of BSc (Renal Dialysis Technology)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of BSc (Renal Dialysis Technology) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
1ST SEMESTER	Anatomy Physiology Biochemistry Medical Terminology English		Combined Anatomy and Physiology names as general anatomy & physiology -Basics of Dialysis was newly added. -Constitution of India was added to 1st semester from 4th semester. - Medical terminology was changed to Patient Contact Protocol. -Kannada was added to 1st semester from 2nd semester.
2ND SEMESTER	Pathology Microbiology Pharmacology Kannada Healthcare		-combined Pathology and Biochemistry named as General pathology and biochemistry -Introduction to Dialysis, General Sterilization & Disinfection of Medical Devices, Hindi and Sanskrit was newly added. -Environmental Science and Health was added to 2ndsem from 3rd semester
3RD SEMESTER	Applied Anatomy Applied Physiology Applied Pharmacology Computer application/programming Environment science and Health		combined Microbiology and Pharmacology named as general microbiology and pharmacology Care and techniques of temporary vascular access and blood based therapies are newly added.
4TH SEMESTER	Applied Pathology Applied Microbiology Introduction to Renal Dialysis Technology Biostatics and Research methodology		Introduction to RDT was changed to Innovation in dialysis Vascular Access. - Medicine related disease in dialysis was shifted from 5th semester to 4th semester.

DEAN
Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

	Constitution of India.		-Care and techniques of permanent vascular access was newly added. - Medical terminology was changed and shifted to 1st sem Constitution of India shifted to n1st semester. -Biostatics shifted to 6th semester..
5th semester	Hemodyalysis Renal Replacement Therapy Medicine related to Renal Dialysis Technology Medical Psychology		- Medicine related disease in dialysis was changed to Infection Control in Dialysis Unit. -Added Haemodialysis Technology as elective subject.
6st semester	Renal diet and Nutrition Renal Transplantation Peritoneal Dialysis Hospital Management		-Biostatics and Research Methodology was added from 4th semester.

Medical Laboratory Technology

Subject: Amendment in the syllabus of BSc (Medical Laboratory Technology)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of BSc (Medical Laboratory Technology) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
I	Anatomy and Physiology	Anatomy (20BSCAHS101), Physiology (20BSCAHS102), Anatomy Practical (20BSCPRC101), Physiology (20BSCPRC102)	General Anatomy (Section A) and General Physiology (Section B) (21BSCAHS101) General Anatomy (Section A) and General Physiology (Section B) Practical (21BSCPRC101)
I	Biochemistry	Biochemistry (20BSCAHS103) Biochemistry Practical (20BSCPRC103)	Removed
I	MLT subjects	NIL	21BSCMLT101Basic Laboratory Practices 21BMLTPRC101 Basic Laboratory Practices Practical
I	Subsidiary Subjects	Medical Terminology (20BSCAHS104) English (20BSCLAN101)	Constitution of India (21BSCAHS102) Patient Contact Protocol (21BSCAHS103) Kannada (21BSCLAN101) English (21BSCLAN102)
II	Pathology, Microbiology, Pharmacology	Pathology (20BSCAHS201), Microbiology (20BSCAHS202), Pharmacology (20BSCAHS203) Pathology Practical (20BSCPRC201), Microbiology Practical (20BSCPRC202),	General Biochemistry (Section A) and General Pathology (Section B) (21BSCAHS101) General Biochemistry (Section A) and General Pathology (Section B) Practical (21BSCPRC201)

DEAN
Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

		Pharmacology Practical (20BSCPRC203)	
II	MLT subjects	NIL	21BSCMLT201Essentials of Medical Laboratory Essentials of Medical Laboratory Practical21BMLTPRC201 21BSCMLT202Sterilization and Disinfection
II	Subsidiary Subjects	Kannada (20BSCLAN202) Healthcare (20BSCAHS204)	Environmental Science and Health (21BSCAHS202) Hindi (21BSCLAN201) Sanskrit (21BSCLAN202)
III	Microbiology, Pharmacology	NIL	General Microbiology (Section A) and General Pharmacology (Section B) (21BSCAHS301) General Microbiology (Section A) and General Pharmacology (Section B) Practical (21BSCPRC301)
III	MLT subjects	Biochemistry Part 1 Pathology Part 1 Microbiology Part 1 Biochemistry Part 1 Practical Pathology Part 1Practical Microbiology Part 1 Practical	21BSCMLT301 Pathology I and Biochemistry I 21BSCMLT302 Microbiology I Basic Genetics Microbiology I Practical
III	Subsidiary Subjects	Computer Application/ Programming (20BSCAHS303) Environmental Sciences and Health (20BSCAHS304)	Computer fundamentals (21BSCAHS302) Yoga (21BSCAHS303)
IV		NIL	
IV	MLT subjects	Biochemistry Part 2 Pathology Part 2 Microbiology Part 2 Biochemistry Part 2 Practical Pathology Part 2 Practical Microbiology Part 2 Practical	21BSCMLT401Biochemistry II 21BSCMLT402Pathology II and Microbiology II 21BSCMLT403Toxicology 21BSCMLT404Automation 21BMLTPRC401 Biochemistry II Practical 21BMLTPRC402Pathology II and Microbiology II Practical
IV	Subsidiary Subjects	Biostatistics and Research Methodology (20BSCAHS402)	Introduction to Clinical Psychology (21BSCAHS402)

		Constitution of India (20BSCAHS403)	
V	MLT Subjects	Biochemistry Part 3 Pathology Part 3 Microbiology Part 3 Biochemistry Part 3 Practical Pathology Part 3 Practical Microbiology Part 3 Practical	21BSCMLT501Pathology III 21BSCMLT502Microbiology III and Biochemistry III 21BSCMLT503Nutritional Biochemistry Pathology III Practical Microbiology III and Biochemistry III Practical
V	Subsidiary Subjects	Medical Psychology (20BSCAHS501)	Removed
VI	MLT Subjects	Biochemistry Part 4 Pathology Part 4 Microbiology Part 4 Biochemistry Part 4 Practical Pathology Part 4 Practical Microbiology Part 4 Practical	21BSCMLT601Quality Control Management and Laboratory Safety 21BSCMLT602Laboratory Instruments and Techniques 21BSCAHS601 Research Methodology 21BSCCVT604Echocardiography (ECHO) 21BSCMIT604 Radiation Safety 21BMLTPRC601-Quality Control Management and Laboratory Safety Practical 21BMLTPRC602-Laboratory Instruments and Techniques Practical
VI	Subsidiary Subjects	Hospital Management (20BSCAHS603)	Removed

Anesthesia and Operation Theatre Technology

Subject: Amendment in the syllabus of B.Sc. (Anesthesia and Operation Theatre Technology)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of B.Sc. (Anesthesia and Operation Theatre Technology) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
I	Anatomy and Physiology	Anatomy (20BSCAHS101), Physiology (20BSCAHS102), Anatomy Practical (20BSCPRC101), Physiology (20BSCPRC102)	General Anatomy (Section A) and General Physiology (Section B) (21BSCAHS101) General Anatomy (Section A) and General Physiology (Section B) Practical (21BSCPRC101)
I	Biochemistry	Biochemistry (20BSCAHS103) Biochemistry Practical (20BSCPRC103)	Removed
I	AOTT subjects	NIL	Fundamentals of surgery and instrumentation (21BSCAOT101) Fundamentals of surgery and instrumentation Practical (21BAOTPRC101)
I	Subsidiary Subjects	Medical Terminology (20BSCAHS101) English (20BSCLAN101)	Constitution of India (21BSCAHS102) Patient Contact Protocol (21BSCAHS103) Kannada (21BSCLAN101) English (21BSCLAN102)
II	Pathology, Microbiology, Pharmacology	Pathology (20BSCAHS201), Microbiology (20BSCAHS202), Pharmacology (20BSCAHS203) Pathology Practical (20BSCPRC201),	General Biochemistry (Section A) and General Pathology (Section B) (21BSCAHS101) General Biochemistry (Section A) and General Pathology (Section B) Practical (21BSCPRC201)

DEAN
Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

		Microbiology Practical (20BSCPRC202), Pharmacology Practical (20BSCPRC203)	
II	AOT subjects	NIL	Introduction to Anesthesia (21BSCAOT201) Introduction to Anesthesia Practical (21BAOTPRC201) OT Sterilization and Disinfection (21BSCAOT202)
II	Subsidiary Subjects	Kannada (20BSCLAN201) Healthcare (20BSCAHS201)	Environmental Science and Health (21BSCAHS202) Hindi (21BSCLAN204) Sanskrit (21BSCLAN203)
III	Microbiology, Pharmacology	NIL	General Microbiology (Section A) and General Pharmacology (Section B) (21BSCAHS301) General Microbiology (Section A) and General Pharmacology (Section B) Practical (21BSCPRC301)
III	AOT subjects	Introduction to Anesthesia and Operation Theatre Technology (20BSCAOT301) Applied Pathology (20BSCAOT302) Applied Microbiology (20BSCAOT303) Introduction to Anesthesia and Operation Theatre Technology Practical (20AOTPRC301) Applied Pathology Practical (20AOTPRC302) Applied Microbiology Practical (20AOTPRC303)	Basics of Anesthesia (21BSCAOT301) Perioperative Diagnostic Procedures (21BSCAOT302) General microbiology (Section A) & General Pharmacology (Section B) (21BSCAHS301) Perioperative Diagnostic Procedures Practical (21BAOTPRC302) General microbiology (Section A) & General Pharmacology (Section B) Practical (21BSCPRC301)
III	Subsidiary Subjects	Computer Application/ Programming (20BSCSKE301) Environmental Sciences and Health (20BSCAHS301)	Computer fundamentals (21BSCAHS302) Basic Life Support (BLS) (21BSCRT303) Yoga (21BSCAHS303)

IV	Applied Pharmacology	NIL	Applied Pathology (Section A) and Applied Microbiology (Section B) (21BSCAHS401) Applied pathology (section A) and applied microbiology (section B) Practical (21BSCPRC401)
IV	AOT subjects	Applied Pharmacology (20BSCAOT401) Basics of Anesthesia (20BSCAOT402) Medicine relevant to Anesthesia and Operation Theatre Technology (20BSCAOT403) Applied Pharmacology Practical (20AOTPRC401) Basics of Anesthesia Practical (20AOTPRC402) Medicine relevant to Anesthesia and Operation Theatre Technology Practical (20AOTPRC403)	Patient Monitoring and vital handling (21BSCAOT401) Applied Pathology and Microbiology (21BSCAHS401) Applied Pharmacology (21BSCAHS403) Techniques of Drug Therapy (21BSCAOT403) Patient Monitoring and vital handling Practical (21BAOTPRC401) Applied Pharmacology Practical (21BSCPRC401)
IV	Subsidiary. Subjects	Biostatistics and Research Methodology (20BSCSKE401) Constitution of India (20BSCAHS401)	Introduction to Clinical Psychology (21BSCAEC401)
V	AOT Subjects	Clinical Anesthesia and Operation Theatre (20BSCAOT501) Applied Anesthesia and Operation Theatre (20BSCAOT502) Advanced Anesthesia and Operation Theatre (20BSCAOT503) Clinical Practical Exam 1 (20AOTCPE501)	Medicine relevant to Anesthesia (21BSCAOT501) Applied Surgery (21BSCAOT502) Critical care medicine (21BSCRTT503) Applied Surgery Practical (21BAOTPRC501) Critical care medicine Practical (21BSCPRC503) Electrocardiogram (21BSCCVT504) Basic Radiology (21BSCMIT504)

			Nosocomial infection (21BSCMLT504) Basic clinical optometry (21BSCOPT504) Cardiopulmonary Bypass (21BSCPFT504) Hemodialysis Technology (21BSCRDT504) Cardiovascular Life Support (21BSCRT504) Virology Techniques I (21BSCVI504)
V	Subsidiary Subjects	Medical Psychology (20BSCAHS501)	Removed
VI	AOT Subjects	Speciality Anaesthesia and Operation Theatre (20BSCAOT601) Emergency Medicine and Technique (20BSCAOT602) Surgery relevant to Anesthesia and Operation Theatre (20BSCAOT603) Clinical Practical Exam 2 (20AOTCPE601)	Speciality Anesthesia (21BSCAOT601) Emergency medicine and critical care (21BSCAOT602) Echocardigram (21BSCCVT604) Radiation Safety (21BSCMIT604) Health Care (21BSCMLT6043) Optometric instruments (21OPTGEC601) Dialysis Therapy (21BSCRDT604) Virology Techniques II (21BSCVI604) Specialty Anesthesia Practical (21BAOTPRC601) Emergency medicine and critical care Practical (21BAOTPRC602)
VI	Subsidiary Subjects	Hospital Management (20BSCAHS601)	Removed

Forensic Science

Subject: Amendment in the syllabus of B.Sc. (Forensic Science)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of B.Sc. (Forensic Science) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
I Sem		1. Biochemistry was removed	1. Added preparative strategies, computer applications and sanskrit along with Introduction to Forensic Science practical and General Microbiology and General Pharmacology practical.
II Sem		1. Biochemistry was added	Criminalistics, preparative strategies and public speaking subjects were added.
III Sem		Forensic Dermatoglyphics, crime & society, computer applications and criminal law was present.	Subjects like Forensic Chemistry, criminal science, forensic science in crime scene investigation, EVS and Yoga were added along with Forensic Chemistry practicals.
IV Sem		Technological methods in forensic science & drug analysis was present.	Added Fundamentals of Questioned documents, forensic chemistry, biostatistics and research methodology, constitution of India.
V Sem		1. Forensic Physics, Forensic medicine, forensic biology & serology, Environmental science was present.	Forensic dermatoglyphics, criminal law, forensic ballistics, research methodology was added.

DEAN
Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

VI Sem		Forensic anthropology, forensic toxicology, forensic ballistics, digital forensics and mini project was present.	1. Questioned documents, forensic microbiology, forensic biology & serology was added.

Clinical Psychology

Subject: Amendment in the syllabus of B.Sc. (Clinical Psychology)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of B.Sc. (Clinical Psychology) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
1st sem		Introduction to History of Psychology Basic Psychological Processes Physiological Psychology Part I Clinical Practical 1 Field Practicum 1 Medical Terminology	Introduction to Psychology (renamed) Digital Forensic Awareness Sanskrit (added) Computer Applications(added from 3rd sem to 1st sem) Social Interaction (SEC 1) added (Medical Terminology removed)
2nd sem		Physiological Psychology part II Biological Psychology Clinical Practical 2 Field Practicum 2 Health care	Concept of Digital cyber crime (added) Hindi (added) Managing Stress(added) Constitution of India (AEC 2)(added) (Removed- Health care)
3rd sem		Lifespan Development Cognitive Psychology Neuropsychology Clinical Practical 3 Field Practicum 3 Computer application/programming Environment science and Health	Biological Psychology (added) IT ACT (added) Medical Terminology (added from 1st sem to 3rd sem) Development of Emotional Competence(added) YOGA(added) Removed
4th sem		Social Psychology Cultural Psychology Clinical Practical 4 Field Practicum 4 Biostatistics and Research methodology	Physiological Psychology(added from 1st sem to 4th sem) Behavioural school of thoughts(added)

DEAN
Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

		Constitution of India	Environmental Science and Health (changed from 3rd sem to 4th sem) Development of Socio Cognitive Skills (AEC 4)(added)
5th sem		Abnormal Psychology Counseling and Psychotherapy Clinical Practical 5 Field Practicum 5 Medical Ethics were removed	Psychological disorders Part1(renamed) Social Psychology (added from 4th sem to 5th sem) Theories of Personality Psychodiagnostics Part 1 Industrial and organizational Psychology Practicals were added
6th sem		Abnormal Psychology Part II Counseling and Psychotherapy Part II Health Psychology Clinical Practical 6 Field Practicum6 5 Hospital Management were removed	Psychological disorders Part 2 (renamed) Introduction to Counselling and Psychotherapy (renamed) Research Methodology (added Internship (Mini Project) Basics of Counselling Techniques (added) Psychodiagnostics Part 2 were added
7th			7th sem added in 2021 syllabus Psychopathology Part 1 Counselling and Psychotherapy Statistical Analysis Counselling Techniques Psychodiagnostics Part 3 Psychological Interaction
8th			8th sem added in 2021 syllabus Psychopathology Part 2 Group Counselling and Group Therapy Rehabilitation Psychology Psychodiagnostics Part 4 Dissertation Internship

RESPIRATORY THERAPY

Subject: Amendment in the syllabus of B.Sc. (Respiratory Therapy)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of B.Sc. (Respiratory Therapy) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
I SEM		• Anatomy theory(separate) Physiology theory(separate) • Anatomy practical(separate) Physiology practical(separate) • Biochemistry(removed) • Medical terminology(removed)	• General anatomy and general physiology theory(combined) • General anatomy and general physiology practical(combined) • Introduction to respiratory care theory(added) • Introduction to respiratory care practical(added) • Constitution of India(added) • Patient contact protocol(added) • Kannada(added)
II SEM		• Pathology theory(separate) • Pathology practical(separate) • Microbiology (removed) • Pharmacology(removed) • Kannada(removed) Health care(removed)	• General biochemistry and general pathology theory(combined) • General biochemistry and general pathology practical(combined) • Clinical respiratory care theory and clinical respiratory care practical(added) • Environmental science and health(added)

DEAN
Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

			• General sterilization and disinfection of medical devices(added) • Hindi(added) • Sanskrit(added)
III SEM		• Introduction to respiratory care technology(removed) • Applied pathology theory and practical(removed) • Applied microbiology theory and practical(removed) • Computer application/programming(removed) Environmental science and health(removed)	• Cardiopulmonary anatomy and physiology theory(added) • Diagnostic techniques theory and practical(added) • General microbiology and general pharmacology theory and practical(added) • Advanced cardiovascular life support(added) • Computer fundamentals(added) • Yoga(added)
IV SEM		• Clinical respiratory care theory and practical(removed) • Applied pharmacology theory and practical(removed) • Medicine relevant to respiratory care technology theory and practical(removed) • Biostatistics and research methodology(removed) Constitution of India(removed)	• Neonatal and pediatric respiratory care theory and practical(added) • Respiratory care pharmacology(added) • Applied pathology and applied microbiology theory and practical(added) • Clinical skill practices(added) • Introduction to clinical psychology(added)
V SEM		• Patient assessment and monitoring theory and practical(removed) • Respiratory care applied theory and practical(removed) • Medical psychology(removed) • Open electives removed	• Respiratory disease process theory and practical(added) • Critical care medicine theory and practical(added) • Open electives added

		Medical ethics and legal aspects	○ Peri-anesthetic management ○ Forensic science in crime scene investigation ○ Basic radiology ○ Nosocomial infection ○ Systemic disease in neuroscience-I ○ Basic clinical optometry ○ Cardiopulmonary bypass ○ Hemodialysis technology ○ Cardiovascular life support ○ Virology techniques I
VI SEM		• Respiratory care-clinical theory and practical (removed) • Respiratory care-applied theory and practical (removed) • Recent advances and basic intensive care theory and practical (removed) • Hospital management (removed) • Open electives removed ○ Basic radiography Basis OT management	• Applied respiratory therapy science theory and practical(added) • Advanced respiratory therapy science theory and practical(added) • Research methodology(added) • Open electives added ○ General principles of surgery ○ Echocardiography (ECHO) ○ Aspects of forensic science laboratory ○ Radiation safety ○ Health care

			○ Systemic diseases in neuroscience II ○ Optometric instruments ○ Introduction to perfusion equipment ○ Dialysis therapy ○ Pulmonary function testing ○ Virology techniques II

Cardiac Care Technology

Subject: Amendment in the syllabus of BSc (Cardiac Care Technology)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of BSc (Cardiac Care Technology) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
I	Anatomy and Physiology	Anatomy (20BSCAHS101), Physiology (20BSCAHS102), Anatomy Practical (20BSCPRC101), Physiology (20BSCPRC102)	General Anatomy (Section A) and General Physiology (Section B) (21BSCAHS101) General Anatomy (Section A) and General Physiology (Section B) Practical (21BSCPRC101)
I	Biochemistry	Biochemistry (20BSCAHS103) Biochemistry Practical (20BSCPRC103)	Removed
I	CGT subjects	NIL	Introduction to Cardiac Care Technology Part I (21BSCCCT101) Introduction to Cardiac Care Technology Part I Practical (21BCCTPRC101)
I	Subsidiary Subjects	Medical Terminology (20BSCAHS104) English (20BSCLAN101)	Constitution of India (21BSCAHS102) Patient Contact Protocol (21BSCAHS103) Kannada (21BSCLAN101) English (21BSCLAN102)
II	Pathology, Microbiology, Pharmacology	Pathology (20BSCAHS201), Microbiology (20BSCAHS202), Pharmacology (20BSCAHS203) Pathology Practical (20BSCPRC201), Microbiology Practical (20BSCPRC202),	General Biochemistry (Section A) and General Pathology (Section B) (21BSCAHS101) General Biochemistry (Section A) and General Pathology (Section B) Practical (21BSCPRC201)

DEAN
Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

		Pharmacology Practical (20BSCPRC203)	
II	CCT subjects	NIL	Introduction to Cardiac Care Technology Part II (21BSCCCT201) Introduction to Cardiac Care Technology Part II Practical (21BCCTPRC201)
II	Subsidiary Subjects	Kannada (20BSCLAN202) Healthcare (20BSCAHS204)	Environmental Science and Health (21BSCAHS202) Basic Life Support (21BSCAHS203) Hindi (21BSCLAN201) Sanskrit (21BSCLAN202)
III	Microbiology, Pharmacology	NIL	General Microbiology (Section A) and General Pharmacology (Section B) (21BSCAHS301) General Microbiology (Section A) and General Pharmacology (Section B) Practical (21BSCPRC301)
III	CCT subjects	Basics of Electrocardiography (20BSCCCT301) Basics in Cardiology (20BSCCCT302) Cardiac Pathophysiology (20BSCCCT303) Basics of Electrocardiography Practical(20CCTPRC301) Basics in Cardiology Practical (20CCTPRC302) Cardiac Pathophysiology Practical(20CCCTPRC303)	Basics of Electrocardiography (21BSCCCT301) Diagnostics and Therapeutics in Cardiology (21BSCCCT302) Cardiac Practical I (21BCCTPRC302)
III	Subsidiary Subjects	Computer Application/ Programming (20BSCAHS303) Environmental Sciences and Health (20BSCAHS304)	Advanced Cardiovascular Life Support (21BSCRT303) Computer fundamentals (21BSCAHS302) Yoga (21BSCAHS303)

IV	Applied Pathology and Applied Microbiology	NIL	Applied Pathology (Section A) and Applied Microbiology (Section B) (21BSCAHS401) Applied pathology(section A) and applied microbiology (section B) Practical (21BSCPRC401)
IV	CCT subjects	Advanced Electrocardiography (20BSCCCT401) Diagnostics and Therapeutics in Cardiology (20BSCCCT402) Medicine relevant to Cardiac Care Technology (20BSCCCT403) Advanced Electrocardiography Practical (20CCTPRC401) Diagnostics and Therapeutics in Cardiology Practical (20CCTPRC402) Medicine relevant to Cardiac Care Technology Practical (20CCTPRC403)	Advanced Electrocardiography (21BSCCCT401) Medicine relevant to Cardiac Care Technology (21BSCCCT402) Cardiothoracic and Vascular Surgery (21BSCCCT403) Cardiac Practical II (21BCCTPRC401)
IV	Subsidiary Subjects	Biostatistics and Research Methodology (20BSCAHS402) Constitution of India (20BSCAHS403)	Introduction to Clinical Psychology (21BSCAHS402)
V	CCT Subjects	Basics of Cardiac Catheterization and Intervention (20BSCCCT501) Basics of Echocardiography (20BSCCCT502) Basic in Clinical Cardiology (20BSCCCT503) Basics of Cardiac Catheterization and Intervention Practical (20CCTPRC501) Basics of Echocardiography Practical (20CCTPRC502) Basics in Clinical Cardiology Practical (20CCTPRC503)	Basics of Echocardiography (21BSCCCT501) Basics of Cardiac Catheterization and Intervention (21BSCCCT502) Basics of Clinical Cardiology (21BSCCCT503) Echocardiography and Clinical Practical I (21BCCTPRC501) Basics of cardiac catheterization and intervention Practical (21BCCTPRC502)
V	Subsidiary Subjects	Medical Psychology (20BSCAHS501)	Removed

VI	CCT Subjects	Advanced Cardiac Catheterization and Intervention (20BSCCCT601) Advanced Echocardiography (20BSCCCT602) Advanced Clinical Cardiology (20BSCCCT603) Advanced Cardiac Catheterization and Intervention Practical (20CCTPRC601) Advanced Echocardiography Practical(20CCTPRC602) Advanced Clinical Cardiology Practical(20CCTPRC603)	Advanced Echocardiography (21BSCCCT601) Advanced Cardiac Catheterization and Intervention (21BSCCCT602) Advanced Clinical Cardiology(21BSCCCT603) Echocardiography and Clinical Practical II (21BCCTPRC601) Advanced Cardiac Catheterization and Intervention Practical (21BCCTPRC602)
VI	Subsidiary Subjects	Hospital Management (20BSCAHS603)	Removed

Cardiovascular Technology

Subject: Amendment in the syllabus of BSc (Cardiovascular Technology)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of BSc (Cardiovascular Technology) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
I	Anatomy and Physiology	Anatomy (20BSCAHS101), Physiology (20BSCAHS102), Anatomy Practical (20BSCPRC101), Physiology (20BSCPRC102)	General Anatomy (Section A) and General Physiology (Section B) (21BSCAHS101) General Anatomy (Section A) and General Physiology (Section B) Practical (21BSCPRC101)
I	Biochemistry	Biochemistry (20BSCAHS103) Biochemistry Practical (20BSCPRC103)	Removed
I	CVT subjects	NIL	Introduction to Cardiovascular Technology Part I (21BSCCVT101) Introduction to Cardiovascular Technology Part I Practical (21BCVTPRC101)
I	Subsidiary Subjects	Medical Terminology (20BSCAHS104) English (20BSCLAN101)	Constitution of India (21BSCAHS102) Patient Contact Protocol (21BSCAHS103) Kannada (21BSCLAN101) English (21BSCLAN102)
II	Pathology, Microbiology, Pharmacology	Pathology (20BSCAHS201), Microbiology (20BSCAHS202), Pharmacology (20BSCAHS203) Pathology Practical (20BSCPRC201), Microbiology Practical (20BSCPRC202),	General Biochemistry (Section A) and General Pathology (Section B) (21BSCAHS101) General Biochemistry (Section A) and General Pathology (Section B) Practical (21BSCPRC201)

DEAN
Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

		Pharmacology Practical (20BSCPRC203)	
II	CVT subjects	NIL	Introduction to Cardiovascular Technology Part II (21BSCCVT201) Introduction to Cardiovascular Technology Part II Practical (21BCVTPRC201)
II	Subsidiary Subjects	Kannada (20BSCLAN202) Healthcare (20BSCAHS204)	Environmental Science and Health (21BSCAHS202) Basic Life Support (21BSCAHS203) Hindi (21BSCLAN201) Sanskrit (21BSCLAN202)
III	Microbiology, Pharmacology	NIL	General Microbiology (Section A) and General Pharmacology (Section B) (21BSCAHS301) General Microbiology (Section A) and General Pharmacology (Section B) Practical (21BSCPRC301)
III	CVT subjects	Basics of Electrocardiography (20BSCCVT301) Basics in Cardiology (20BSCCVT302) Cardiac Pathophysiology (20BSCCVT303) Basics of Electrocardiography Practical(20CVTPRC301) Basics in Cardiology Practical (20CVTPRC302) Cardiac Pathophysiology Practical(20CCVTPRC303)	Basics of Electrocardiography (21BSCCVT301) Diagnostics and Therapeutics in Cardiology (21BSCCVT302) Cardiac Practical I (21BCVTPRC302)
III	Subsidiary Subjects	Computer Application/ Programming (20BSCAHS303) Environmental Sciences and Health (20BSCAHS304)	Advanced Cardiovascular Life Support (21BSCRT303) Computer fundamentals (21BSCAHS302) Yoga (21BSCAHS303)

IV	Applied Pathology and Applied Microbiology	NIL	Applied Pathology (Section A) and Applied Microbiology (Section B) (21BSCAHS401) Applied pathology(section A) and applied microbiology (section B) Practical (21BSCPRC401)
IV	CVT subjects	Advanced Electrocardiography (20BSCCVT401) Diagnostics and Therapeutics in Cardiology (20BSCCVT402) Cardiac Pharmacology (20BSCCVT403) Advanced Electrocardiography Practical (20CVTPRC401) Diagnostics and Therapeutics in Cardiology Practical (20CVTPRC402) Cardiac Parmacology Practical (20CVTPRC403)	Advanced Electrocardiography (21BSCCVT401) Medicine relevant to Cardiac Care Technology (21BSCCVT402) Cardiothoracic and Vascular Surgery (21BSCCVT403) Cardiac Practical II (21BCVTPRC401)
IV	Subsidiary Subjects	Biostatistics and Research Methodology (20BSCAHS402) Constitution of India (20BSCAHS403)	Introduction to Clinical Psychology (21BSCAHS402)
V	CVT Subjects	Basics of Cardiac Catheterization and Intervention (20BSCCVT501) Basics of Echocardiography (20BSCCVT502) Approach to Clinical Cardiology (20BSCCVT503) Basics of Cardiac Catheterization and Intervention Practical (20CVTPRC501) Basics of Echocardiography Practical (20CVTPRC502) Approach to Clinical Cardiology Practical (20CVTPRC503)	Basics of Echocardiography (21BSCCVT501) Basics of Cardiac Catheterization and Intervention (21BSCCVT502) Basics of Clinical Cardiology (21BSCCVT503) Echocardiography and Clinical Practical I (21BCVTPRC501) Basics of cardiac catheterization and intervention Practical (21BCVTPRC502)
V	Subsidiary Subjects	Medical Psychology (20BSCAHS501)	Removed
VI	CVT Subjects	Advanced Cardiac Catheterization and Intervention (20BSCCVT601)	Advanced Echocardiography (21BSCCVT601)

		Advanced Echocardiography (20BSCCVT602) Advanced Clinical Cardiology (20BSCCVT603) Advanced Cardiac Catheterization and Intervention Practical (20CVTPRC601) Advanced Echocardiography Practical(20CVTPRC602) Advanced Clinical Cardiology Practical(20CVTPRC603)	Advanced Cardiac Catheterization and Intervention (21BSCCVT602) Advanced Clinical Cardiology(21BSCCVT603) Echocardiography and Clinical Practical II (21BCVTPRC601) Advanced Cardiac Catheterization and Intervention Practical (21BCVTPRC602)
VI	Subsidiary Subjects	Hospital Management (20BSCAHS603)	Removed

MEDICAL IMAGING TECHNOLOGY

Subject: Amendment in the syllabus of BSc (Medical Imaging Technology)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of BSc (Medical Imaging Technology) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
1ST SEMESTER	• Anatomy • Physiology • Biochemistry • Medical Terminology English		Anatomy & Physiology is combined and considered as general subject. .Biochemistry is shifted to the second semester - Basic Physics of Radiology was newly added. -Constitution of India was added to 1st semester from 4th semester. - Medical terminology was changed to Patient Contact Protocol. -Kannada was added to 1st semester from 2nd semester. -General anatomy and physiology pratical is added
2ND SEMESTER	• Pathology • Microbiology • Pharmacology • Kannada Healthcare		- Pathology & Biochemistry is combined as common subject. -Microbiology and pharmacology shifted to 3rd semester - Medical & Radiation Physics, General Sterilization &

DEAN
Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

			Disinfection of Medical Devices, Hindi and Sanskrit was newly added. -Environmental Science and Health was added to 2nd sem from 3rd semester
3RD SEMESTER	• Physics of Radiology • Medical Physics • Radiographic film & Image processing • Computer • application/programming Environment science and Health		-General Microbiology& General Pharmacology shifted from previous semester - Physics of Radiology,Medical Physics Radiographic film & Image processing subjects are modified and removed -Orthopaedics & Radiographic Positioning I, Patient Care in Radiology, Basic Radiology skills I subjects is added -Sports and Arts is introduced - Praticals for Orthopedics & Radiographic Positioning and Patient Care in Radiology is added
4TH SEMESTER	• Radiation Physics • Radiographic Photography and Image Processing • Mammography, fluoroscopy and mobile radiography • -Biostatics and Research methodology Constitution of India.		- Radiation Physics , Radiographic Photography and Image Processing ,Mammography, fluoroscopy and mobile radiography-modifications made and removed -Diagnostic Techniques,

			Radiographic Positioning II, Radiographic Film & Image Processing is newly added as departmental subjects -Constitution of India shifted to 1st semester. -Biostatics shifted to 6th semester..
5th semester	• Physics of ultrasound & CT • Radiography of spine and extremities • Contrast media: reactions and management & special radiography procedures Medical Psychology		-Physics of ultrasound & CT , Radiography of spine and extremities ,Contrast media: reactions and management & special radiography procedures subjects modified and changes made -Ultrasound shifted to 6th semester - Radiological Procedures / Interventional techniques, Basics of CT & NMT, Radiation Protection is added
6st semester	• Physics and hardware of MRI & Nuclear Medicine • Radiography of chest, abdomen, pelvis & skull • Recent Advances&guided radiological procedures Hospital Management		-MRI is made a separate subject -Ultrasonography shifted from previous sem and made a separate subject -Biostatics and Research Methodology was added from 4th semester.

Digital and Cyber Forensic

Subject: Amendment in the syllabus of BSc (Digital and Cyber Forensic)

The academic council at its meeting held on 05.03.2021 and subsequently the Board of management has approved the amendment in the syllabus of BSc (Digital and Cyber Forensic) as suggested by the Board of studies and recommended by the faculty of Allied Health Science as follows.

Curriculum		Existing	Now Amended
Semester	Subject		
I Sem		Removed, 1. Fundamental Information Technology 2. Concept of Digital Cyber Crime 3. Police Science and Vigilance 4. Introduction to Forensic Science	Added, 2. Introduction to Cyber Security and Programming Language C, 3. Digital Forensic Awareness 4. Criminal Law and Minor Acts 5. Empirical Study on Programming Language - C Sanskrit
II Sem		Removed, 1. E-Commerce and networking 2. Programming Language C 3. Introduction to Cyber Security 4. English 5. Forensic Psychology	Added, 1. Police Science and Vigilance 2. Programming Language JAVA 3. Psychological perspective in education 4. Criminology and Victimology 5. Environmental science Yoga/Sport/Art

DEAN
Institute of Allied Health Sciences
Srinivas University
Mukka, Mangalore - 574 146

III Sem		Removed, 1. Security Architecture 2. Mobile Forensic 3. IPC , CRPC , IEA Crime and Society	Added, 1. Introduction to Cyber Security and Introduction to programming language C++ 2. Concept of Digital Cyber Crime 3. IT Act 4. Empirical study on Cyber Security 5. Hindi English
IV Sem		Removed, 1 . Operating System and Linux 2 Forensic audio video analysis and speaker identification 3 Cyber Crime Investigation and Digital forensic 4 Digital Evidence Collection and Procedure IT Act	Added 1. Ethical hacking and Network defense 2. Introduction to Android OS 3. 4. Programming Language – Python Forensic Accounting and auditing Constitution of India
V Sem		Removed, 1. VB.Net 2. Constitution of India 3. Bio-statistic and Research Methodology 4. Environmental Science 5. Constitution of India	Added, 1. Cryptography and Information Security 2. Introduction to Operating System and File system analysis 3. Research Methodology Cloud Computing and big data
VI Sem		Removed, 2. Ethical Hacking and Forensic 3. Network computing and communication project	Added, 1. Biometric Security 2. Vulnerability assessment and penetration testing Dissertation

VII Sem			Added, 1. Malware Analysis in Virtual Machine 2. Network Computing and Communication Mobile device forensic and E- commerce
VIII Sem			Added, 1. Software Engineering 2. Applied Cryptography 3. Data analytics