CONSTITUTION OF INDIA, PROFESSIONAL ETHICS & HUMAN RIGHTS

Subject Code	15CPH18/15CPH28	IA Marks	20
Number of Lecture Hours/Week	02	Exam Marks	80
Total Number of Lecture Hours	25	Exam Hours	03

Course objectives:

- 1. To provide basic information about Indian constitution.
- 2. To identify individual role and ethical responsibility towards society.
- 3. To understand human rights and its implications

Module 1

Introduction to the Constitution of India, The Making of the Constitution and Salient features of the Constitution.

2 Hours

Preamble to the Indian Constitution Fundamental Rights & its limitations.

3 Hours

Module 2

Directive Principles of State Policy & Relevance of Directive Principles State Policy Fundamental Duties.

2 Hours

Union Executives - President, Prime Minister Parliament Supreme Court of India. 3 Hours

Module 3

State Executives – Governor Chief Minister, State Legislature High Court of State. **2 Hours**Electoral Process in India, Amendment Procedures, 42nd, 44th, 74th, 76th, 86th &91st
Amendments. **3 Hours**

Module 4

Special Provision for SC & ST Special Provision for Women, Children & Backward Classes

Emergency Provisions. Human Rights – Meaning and Definitions, Legislation Specific Themes in

Human Rights- Working of National Human Rights Commission in India

3 Hours

Powers and functions of Municipalities, Panchyats and Co - Operative Societies. 2 Hours

Module 5

Scope & Aims of Engineering Ethics, Responsibility of Engineers Impediments to Responsibility.

2 Hours

Risks, Safety and liability of Engineers, Honesty, Integrity & Reliability in Engineering.

3 Hours

ENVIRONMENTAL STUDIES

[As per Choice Based Credit System (CBCS) scheme]

(Effective from the academic year 2015 -2016)

SLIVIESTER - I/II			
Subject Code	15CIV18/15CIV28	IA Marks	10
Number of Lecture Hours/Week	02	Exam Marks	40
Total Number of Lecture Hours	25	Exam Hours	02

Course Objectives:

- 1. To identify the major challenges in environmental issues and evaluate possible solutions.
- Develop analytical skills, critical thinking and demonstrate socio-economic skills for sustainable development.
- 3. To analyze an overall impact of specific issues and develop environmental management plan.

Module - 1

Introduction: Environment - Components of Environment Ecosystem: Types & Structure of Ecosystem, Balanced ecosystem Human Activities - Food, Shelter, And Economic & Social Security.

2 Hours

Impacts of Agriculture & Housing Impacts of Industry, Mining & Transportation

Environmental Impact Assessment, Sustainable Development.

3 Hours

Module - 2

Natural Resources, Water resources – Availability & Quality aspects, Water borne diseases & water induced diseases, Fluoride problem in drinking water Mineral resources, Forest Wealth Material Cycles – Carbon Cycle, Nitrogen Cycle & Sulphur Cycle. 2 Hours

Energy – Different types of energy, Conventional sources & Non Conventional sources of energy Solar energy, Hydro electric energy, Wind Energy, Nuclear energy, Biomass & Biogas Fossil Fuels, Hydrogen as an alternative energy.

3 Hours

ENERGY AND ENVIRONMENT (OPEN ELECTIVE – I)

[AS PER CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME] SEMESTER – V

Subject Code Teaching Hours / Week		15ME562		
		IA Marks	20	
Lecture	Tutorial	Practical	Exam Marks	80
03	00	00	Exam Hours	03

Course Objectives

- 1. Understand energy scenario, energy sources and their utilization
- 2. Learn about methods of energy storage, energy management and economic analysis
- 3. Have proper awareness about environment and eco system.
- 4. Understand the environment pollution along with social issues and acts.

Course Outcomes

At the end of the course, the student will be able to:

- 1. Summarize the basic concepts of energy, its distribution and general Scenario.
- 2. Explain different energy storage systems, energy management, audit and economic analysis.
- 3. Summarize the environment eco system and its need for awareness.
- 4. Identify the various types of environment pollution and their effects.
- 5. Discuss the social issues of the environment with associated acts.

Module - I

Basic Introduction to Energy: Energy and power, forms of energy, primary energy sources, energy flows, world energy production and consumption, Key energy trends in India: Demand, Electricity, Access to modern energy, Energy production and trade, Factors affecting India's energy development: Economy and demographics Policy and institutional framework, Energy prices and affordability, Social and environmental aspects, Investment.

8 Hours

Module - II

Energy storage systems: Thermal energy storage methods, Energy saving, Thermal energy storage systems

Energy Management: Principles of Energy Management, Energy demand estimation, Energy

Energy Audit: Purpose, Methodology with respect to process Industries, Characteristic method employed in Certain Energy Intensive Industries

Economic Analysis: Scope, Characterization of an Investment Project 10 Hours

Module - III

Environment: Introduction, Multidisciplinary nature of environmental studies- Definition, scope and importance, Need for public awareness.

Ecosystem: Concept, Energy flow, Structure and function of an ecosystem. Food chains, food webs and ecological pyramids, Forest ecosystem, Grassland ecosystem, Desert ecosystem and Aquatic ecosystems, Ecological succession.

8 Hours

MANAGEMENT AND ENGINEERING ECONOMICS

[AS PER CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME] SEMESTER – V

Subject Code Teaching Hours / Week		15ME51		
		IA Marks	20	
Lecture	Tutorial	Practical	Exam Marks	80
03	02	00	Exam Hours	03

Course outcomes

On completion of this subject students will be able to

- 1. Understand needs, functions, roles, scope and evolution of Management
- 2. Understand importance, purpose of Planning and hierarchy of planning and also analyze its types
- 3. Discuss Decision making, Organizing, Staffing, Directing and Controlling
- 4. Select the best economic model from various available alternatives
- 5. Understand various interest rate methods and implement the suitable one.
- 6. Estimate various depreciation values of commodities
- 7. Prepare the project reports effectively.

MODULE-1

Management: Introduction - Meaning - nature and characteristics of Management, Scope and Functional areas of management - Management as a science, art of profession - Management & Administration - Roles of Management, Levels of Management, Development of Management Thought - early management approaches - Modern management approaches.

Planning: Nature, importance and purpose of planning process Objectives - Types of plans (Meaning Only) - Decision making Importance of planning - steps in planning & planning premises - Hierarchy of plans.

10 Hours

MODULE - 2

Organizing And Staffing: Nature and purpose of organization Principles of organization - Types of organization - Departmentation Committees- Centralization Vs Decentralization of authority and responsibility - Span of control - MBO and MBE (Meaning Only) Nature and importance of staffing--:Process of Selection & Recruitment (in brief).

Directing & Controlling: Meaning and nature of directing Leadership styles, Motivation Theories, Communication - Meaning and importance - coordination, meaning and importance and Techniques of Co Ordination. Meaning and steps in controlling - Essentials of a sound control system - Methods of establishing control (in brief)

Hours

MANAGEMENT AND E [As per Choice B	NTREPRENE Based Credit St	URSHIP FOR IT INDUS ystem (CBCS) scheme	TRY
(Effective from	om the acaden	nic year 2016 -	
Solicat Coll	2017) SEMI		
Subject Code	15CS51	IA Marks	20
Number of Lecture Hours/Week	4	Exam Marks	80
Total Number of Lecture Hours	50	Exam Hours	03
Course objection This	CREDITS		
Course objectives: This course wil			
 Explain the principles of ma Discuss on planning, staffing 	g, ERP and their	ir importance	
 Infer the importance of intel Module – 1 	lectual property	rights and relate the instit	
Module – I			Teachir Hours
Introduction - Meaning, nature an	nd characteristic	es of management, soone ar	nd 10 Hours
functional areas of management, go	als of managen	nent, levels of management	id To Hou
brief overview of evolution of mana	agement, Planni	ng- Nature, importance, tv	, pes
of plans, steps in planning, Orga	nizing- nature	and purpose, types of	
organization.			
Module – 2			
Staffing- meaning, process of rec			10 Hour
controlling- meaning and nature	of directing, le	adership styles, motivation	n
theories. Controlling- meaning, st			
control, Communication- Meaning a importance	and importance	, Coordination- meaning ar	10
Module – 3	The second		
Entrepreneur – meaning of entrepr	reneur, types of	entrepreneursh ip, stages of	f 10 Hour
entrepreneurial process, role of en	ntrepreneurs in	economic development,	
entrepreneurship in India, barriers to			
opportunities- market feasibility s		feasibility study, financia	d
feasibility study and social feasibilit	ty study.		
Module – 4	i	signature in the different	10.77
Preparation of project and ERP project selection, project report, n	eed and signif	Scance of report contents	10 Hour
formulation, guidelines by planning	commission fo	r project report Enterprise	,
Resource Planning: Meaning and	Importance- H	ERP and Functional areas o	f
Management - Marketing / Sales- S	Supply Chain M	Ianag ement - Finance and	
Accounting - Human Resources -	- Types of rep	ports and methods of rep	ort
generation			
Module – 5			
Micro and Small Enterprises: De	efinition of mic	ro and small enterprises,	10 Hour
characteristics and advantages of mic	ro and small ent	erprises, steps in establishing	nd
micro and small enterprises, Government small enterprises, case study (Microsoft	off) Case study(Cantain G R Goninath) case	nd
study (N R Narayana Murthy & Infos	vs). Institution	al support: MSME-DI, NSI	C,
		A STATE OF THE STA	O.
SIDBI, KIADB, KSSIDC, TECSOK,	KSFC, DIC and	District level single window	·
SIDBI, KIADB, KSSIDC, TECSOK, agency, Introduction to IPR. Course outcomes: The students sho	KSFC, DIC and	District level single window	<u> </u>