A.SHAMA RAO FOUNDATION
SRINIVAS INSTITUTE OF TECHNOLOGY
Mangalore, Karnataka
(http://srinivasgroup.com/srinivas-institute-of-technology/)
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Department Of Computer Science And Engineering

DEPARTMENTS

To be one of the best departments, to motivate and help students in their overall development, to achieve 100 percent placement in good IT companies.

The Department of Computer Science & Engineering offers undergraduate B.E (CSE) program with an annual intake of 120. The department regularly conducts special courses on advanced topics, to bridge the gap between the university curriculum and the need of the industry.

Vision

To empower students of Computer Science and Engineering Department to be technologically adept, innovative, self -motivated and responsible global citizen possessing human values and contribute significantly towards high quality technical education with ever changing world.

Mission

The Department strives for excellence in creating, applying, and imparting knowledge in computer science and engineering through wide ranging educational programs, research in collaboration with various agencies, service to professional societies, the public and the nation.

Programme Educational Objectives (PEO):

1. Competent professionals with knowledge of Computer Science & Engineering to pursue variety of careers/higher education.
2. Proficient in successfully designing innovative solutions to real life problems that are technically sound, economically viable and socially acceptable.
3. Efficient team leaders, effective communicators and capable of working in multi-disciplinary environment following ethical values.
4. Capable of adapting to new technologies and constantly upgrade their skills with an attitude towards lifelong learning.

Programme Specific Objectives (PSO):

1. Programming and software Development skills: Ability to acquire programming efficiency to analyze, design and develop optimal solutions, apply standard practices in software project development to deliver quality software product.
2. Computer Science Specific Skills: Ability to formulate, simulate and use knowledge in various domains like data engineering, image processing and information and network security, artificial intelligence etc., and provide solutions to new ideas and innovations.

Programme outcome (PO):

1. **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization for the solution of complex engineering problems.
2. **Problem Analysis:** Identify, formulate, review research literature and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
3. **Design/Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural, societal and environmental considerations.
4. **Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.
5. **Modern Tool Usage:** Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
6. **The Engineer and Society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and Team Work:** Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.
11. **Project Management and Finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long Learning:** Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Facilities

The department has10 computer laboratories with 350 computer terminals connected to Windows 2003/ Linux servers. All the necessary software's required to carry out regular laboratory work and project work are available in the department. These facilities are exclusively for undergraduate and Post graduate students of Computer Science. 10Mbps leased line connectivity for Internet access is also available.

Department Of Electrical And Electronics Engineering

Vision

The Vision of the Electrical and Electronics Engineering Department is to prepare individuals to thrive in and contribute to an ever changing global society uniting the skills of engineering, design and technology.

Mission

The mission of the department is to help prepare competent and committed professionals, to develop human prospective to its fullest extent so that cognitively capable and ingeniously gifted leaders can emerge in this field.

Electrical and Electronics Department leverages this through its Student-Centered teaching that emphasizes

a) Innovative, engaging, inventive, and challenging coursework.

b) Kindle intellectual vibrancy, elevate the standards of instruction.

c) Project-based learning and understanding practical challenges.

d) Student-industry study experiences.

e) Practical team interactions and understanding theoretical complexities and

f) Industrial and academic partnerships that prepare students for immediate career success.

Programme Educational Objectives (PEO):

1. To train the students to evolve as practicing engineer in fields such as design, research, testing and manufacturing.
2. To keep students engage in lifelong learning to maintain and enhance professional skills.
3. To educate the students to fulfill the needs of society in solving technical problems using engineering principles, tools and practices.
4. To provide a platform to inculcate and demonstrate leadership skills in the work place and function professionally in globally competitive world.

Programme Specific Objectives (PSO):

Department has specifically defined few objectives which make students realize the fact that the knowledge and techniques learnt in this course has direct implication for the betterment of society and its sustainability.

1. Able to apply the knowledge gained during the course of the program to identify, formulate and solve real life problems faced in industries and/or during research work.
2. Able to provide socially acceptable technical solutions to complex electrical engineering problems with the application of modern and appropriate techniques for sustainable development.
3. Able to apply the knowledge of ethical and management principles required to work in a team as well as to lead a team.

Programme Outcomes (PO):

1. An ability to apply knowledge of mathematics, science and engineering.
2. An ability to design and conduct experiments, as well as analyze and interpret data.
3. An ability to function on multi disciplinary teams
4. An ability to identify, formulate and solve engineering problems
5. An understanding of professional and ethical responsibility
6. An ability to communicate effectively.
7. Broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and societal context.
8. Recognition for the need for, and an ability to engage in life-long learning.
9. A knowledge of contemporary issues
10. An ability to use techniques, skills and modern engineering tools necessary for engineering practice.
11. An ability to design a system, component or process to meet desired needs with in realistic constraints such as economic, political, social, environmental, ethical, health and safety, manufacturability and sustainability.

About the Department

Department of Electrical and Electronics Engineering was started in the year 2011 offering four years of full time engineering programme affiliated to VTU. We bridge the gap between academic subjects and personal values with the guidance and support of the faculty. Having new and different experiences is part of life here. We provide opportunity to students to pursue very different interests simultaneously, conducting a host of technical events and activities that are aimed at boosting technical skills and provide a platform to showcase innovative ideas and thoughts.

Electrical Block

Department Of Electronics And Communication

DEPARTMENTS

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Department Of Chemistry (http://srinivasgroup.com/srinivas-institute-of-technology/departments/department-of-chemistry/)

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Vision

Create an educational environment for the students to learn and develop their creativity, innovation, analytical and practical skills with essential professional ethics in Electronics and Communication Engineering.

Mission

Utilizing our expertise to inculcate best practices in the area of Electronics and Communication Engineering education, project realization and services.

Providing state-of-the-art resources to lead students to be globally competitive.

Producing and providing an ambience for research through publications and patents.

Programme Educational Objectives (PEO):

1. To provide the graduates with Concepts and Strong foundation in Mathematics, Science and Engineering to Devise and Deliver efficient solutions for challenging problems in Electronics, Communications and other Disciplines.
2. To provide graduates with Theoretical and Practical knowledge of E&C Engineering to Develop Innovative Projects which can Serve Industrial and Social Requirements.
3. To provide Analytical and Thinking skills to Develop Innovative Ideas for Industry and R&D organizations.
4. To Inculcate qualities of Teamwork, Leadership and Interpersonal skills and an ethics to work in various organizations.
5. To motivate Graduates to become Good Human beings for the overall welfare of the Society and our Nation.

Programme Specific Objectives (PSO):

1. ECE graduates are Equipped with Knowledge of Analog and Digital VLSI design, Signal Processing, Embedded Systems, Communication Areas etc. and are able to work in Core Industries.
2. ECE Graduates are Equipped with Soft Skills, Aptitude and Technical Skills to work in Various Organizations.

Program Outcomes (PO):

1. Ability to apply the knowledge of Mathematics, Science and Engineering in Electronics and Communications.
2. Ability to Design & Conduct Experiments and Analyze data.
3. Ability to understand and Analyze Multidisciplinary tasks.
4. Ability to Identify, Formulate & Solve problems in the area of Electronics and Communications Engineering.
5. Ability to Participate and Compete in Extra Curricular Activities.
6. Ability to use Modern Engineering Tools, Software and Equipments.
7. Ability to work on Multidisciplinary Projects.
8. Ability to Participate and Succeed in Competitive Examinations.
9. Ability to Gain Good Communication Skills.
10. Ability to Understand Professional and Ethical Responsibility.
11. Ability to Engage in Lifelong Learning and Update the Knowledge in Electronics and Communication Engineering.
12. Ability to Transform Innovative Project Outcomes into Patents.

Activities

STEADY, (SRINIVAS TECHIES in ELECTRONIC ASSOCIATION of DYNAMIC YOUNGSTERS) conducts workshops, seminars, quiz programmes & project competitions. The department encourages students to participate in curricular and co-curricular activities. Students are encouraged to publish research papers in journals and present the same at conferences.

Facilities

The department has 11 laboratories with equipments like digital trainer kits, oscilloscopes, signal generators, power supply units, interface kits, and software like Xilinx, mentor graphics, Keil, Mat lab for VLSI, DSP, microprocessor and microcontroller labs. The computer terminals are connected to Windows 200/ Linux servers, having individual hard disk and are Windows Vista/Xp bootable. The department is well equipped with all the necessary software required to carry out project work. These facilities are exclusively for undergraduate and postgraduate students of Electronics and communication engineering.

Department Of Information Science Engineering

DEPARTMENTS

Department Of Architecture (http://www.ssamangalore.in)

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To produce Information science Engineers with dynamic well rounded personalities adaptable to ever increasing demands of emerging technologies involving analytical and practical skills.

To be one of the best departments, to motivate and help students in their overall development, to achieve 100 percent placement in good IT companies.

The Department of Information Science & Engineering offers undergraduate B.E (ISE) program with an annual intake of 60. The department regularly conducts special courses on advanced topics, to bridge the gap between the university curriculum and the need of the industry.

Vision

The information Science and Engineering department at Srinivas Institute of Technology is committed to provide leading programs in Information Science which will help our graduates to be globally recognized as innovative and well prepared computing professionals to build a strong research and teaching environment that responds swiftly to the requirements of software industry.

Mission

The department's mission is to provide students and faculty with an open environment that fosters professional and personal growth to provide students with a strong theoretical and practical background across the information science discipline with an emphasis on software development. An understanding of their professional , ethical responsibilities, a rich skill set and practical experience enabling them to become valuable and creative contributors immediately upon graduation.

Program Educational Objectives (PEO):

1. Apply the basic principles and practices of computing grounded in mathematics and applied sciences to successfully undertake real time projects to meet customers' business requirements and needs of the society.
2. Develop professional and communication skills that prepare them for immediate employment or masters in Computer science and related disciplines
3. Work productively as software engineers, communicate effectively and exhibit leadership roles in multidisciplinary project teams.
4. Understand the impact and role of computing in global, economic, environmental and societal context, thus creating enthusiastic citizens with understanding of constitutional, professional and ethical responsibilities.

Programme Specific Objectives (PSO):

1. Students will identify, analyze, design, develop and test application software systems to meet the desired needs of society and industry.
2. Students gain proficiency in the use of programming languages to develop software systems of varying complexity, build complex web, console and windowing applications using cutting edge computing technologies.
3. Students promote software/hardware products and services through strong communication, leadership and entrepreneur skills

Program Outcomes (PO):

1. **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization for the solution of complex engineering problems.

2. **Problem Analysis:** Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

3. **Design/Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural, societal and environmental considerations.

4. **Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.

5. **Modern Tool Usage:** Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

6. **The Engineer and Society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. **Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.

8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. **Individual and Team Work:** Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings.

10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.

11. **Project Management and Finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. **Life-long Learning:** Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Facilities

Department Of Marine Engineering

DEPARTMENTS

Department Of Architecture (http://www.ssamangalore.in)

Department Of Computer Science And Engineering (http://srinivasgroup.com/srinivas-institute-of-technology/departments/department-of-computer-science-and-engineering/)

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Department Of MCA (http://srinivasgroup.com/srinivas-institute-of-technology/departments/department-of-mca/)

Department Aim

The Institute offers specialization in marine engineering, aiming to create trained professionals, emerging as world class engine officers.

Programme Educational Objectives (PEO):

1. Graduates of the program are to demonstrate the ability to direct, supervise, and make important decisions regarding the design and engineering problems based on engineering fundamentals and modern technological tools.

2. Graduates of the program are to demonstrate the maturity and knowledge needed for participating in the leadership of the advancement in the field of Marine Engineering.

Programme Specific Objectives (PSO):

Each marine graduate shall demonstrate the following after graduation:

1. Graduates will have the knowledge and ability to perform analysis, applications engineering, operate and maintain systems or processes in the maritime industry.
2. Graduates will have the knowledge and ability to function effectively as leaders on professional team and also to communicate effectively using speaking, writing, and presentation skills.
3. Graduates will demonstrate a respect for professional, ethical and social issues as well as a commitment to safety, quality and productivity.

Programme Outcomes (PO):

Each marine graduate shall demonstrate the following abilities before graduation:

1. A mastery of the knowledge, techniques, skills and modern tools of marine engineering technology.
2. An ability to apply current knowledge and adapt to emerging applications of mathematics, science, engineering and technology to solve the problems associated with marine equipment, systems and vehicles.
3. An ability to use proper laboratory practices, use instrumentation for measuring physical phenomena, analyze and interpret experiments, and apply experimental results to improve processes and design.
4. An ability to apply creativity in the design of systems, components or processes in the marine environment.
5. An ability to function effectively in teams.
6. An ability to communicate effectively in a technical environment.
7. An ability to engage in lifelong learning, including the need for updating technical knowledge and skills.
8. An ability to understand and apply concepts of professional ethics and social responsibilities.
9. A respect for diversity and knowledge of contemporary professional, societal and global issues.
10. A commitment to quality, safety, timeliness and continuous improvement.
11. An ability to receive a CDC License as a Junior Engineer.
12. An ability to engage in the operations, maintenance, analysis and management of modern marine power plants, associated equipment and systems.

Facilities

The Department of Maine Engineering is a full-fledged department with an intake of 60 students in under graduate course (B.E in Marine Engineering).The department consists of Well-equipped, Extensive laboratory and Workshop facilities. The department has qualified and experienced faculty to cater to the needs of the students.

Activities

All students of Marine engineering Visited Bharathi Shipyard to gain an idea of practical application of the concepts (as a part of their industrial visit) and the faculty ever ready to guide to ensure elevated degree of success for the activities being organized and hosed by the department.

Faculty Details

Sl.No	Photos	Name	Qualification			Designation	Experience		
			UG	PG	Ph.D		Teaching	Industry	Research
1		Dr. Kripa M Suvarna	B.E	M.Tech	Ph.D	Associate Professor	3.5	4	5
2		Mr. Vivek Vijay Kumar	B.E	M.Tech	–	Associate Professor	2.5	10	0

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Department Of Mechanical Engineering

DEPARTMENTS

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Department Of Electrical And Electronics Engineering (http://srinivasgroup.com/srinivas-institute-of-technology/departments/department-of-electrical-and-electronics-engineering/)

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Department Of MCA (http://srinivasgroup.com/srinivas-institute-of-technology/departments/department-of-mca/)

Vision

To impart state of the art technical education by providing conducive learning environment for technological innovation, to inculcate research culture and skills necessary to meet the changing needs of the industry and the society in the field of Mechanical Engineering and allied disciplines.

Mission

To be a centre of excellence in Mechanical Engineering and to create qualified Mechanical Engineers with a vision to take up the demanding challenges of the industry and society in emerging fields of Mechanical Engineering.

Programme Educational Objectives (PEO):

1. To prepare students for successful careers in industry that meet the needs of Indian and multinational companies with latest technical skills.
2. To develop the ability among students to synthesize data and technical concepts for application to product innovation, design & development and manufacturing.
3. To provide opportunity for students to work as part of teams on multidisciplinary projects with communication skills.
4. To provide students with a sound foundation in the mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze engineering problems.
5. To promote student awareness on lifelong learning and to introduce them to professional ethics and codes of professional practice.

Programme Specific Objectives (PSO):

1. Graduating student shall be able to Model, develop, simulate, analyse and optimize mechanical systems/processes with the help modern tools and software.

2. Graduating student shall be able to apply practical skills, knowledge in major streams such as thermal, design, manufacturing, industrial engineering and management.

Programme Outcomes (PO):

1. Graduates will demonstrate basic knowledge in mathematics, science and engineering.
2. Graduates will demonstrate the ability to design and conduct experiments, interpret and analyze data and report results.
3. Graduates will demonstrate the ability to design a mechanical system or a thermal system or a process that meets desired specification and requirements.
4. Graduates will demonstrate ability to function on engineering and science laboratory teams, as well as on multidisciplinary design teams.
5. Graduates will demonstrate the ability to identify, formulate and solve mechanical engineering problems.
6. Graduates will demonstrate an understanding of their professional and ethical responsibilities.
7. Graduates will be able to communicate effectively in both verbal and written forms.
8. Graduates will have the confidence to apply engineering solutions in global and societal context.
9. Graduates should be capable of self-education and clearly understand the values of life-long learning.
10. Graduates will be broadly educated and will have an understanding of the impact of engineering on society and demonstrate awareness of contemporary issues.
11. Graduates will be familiar with modern engineering software tools and equipment to analyze mechanical engineering problems.
12. Lifelong learning: Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

Facilities

The Department of Mechanical Engineering is a full-fledged department with an intake of 240 students in under graduate course (B.E in Mechanical Engineering) and an intake of 18 in each specialization of post graduation in Industrial Automation and Robotics, and Thermal Power Engineering respectively. The department offers Ph.D / M.Sc (Engineering) under VTU research center. The department consists of Well-equipped, Extensive laboratory and Workshop facilities. It has even procured a CNC turning center and a 5-axis pick and place Robot with all the necessary softwares, in addition to the university prescribed equipment. The department has qualified and experienced faculty to cater to the needs of the students. The department library consists more than 1200 volumes which covers all latest reference books and text books.

Department Of Nano Technology

DEPARTMENTS

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Department Of Physics (http://srinivasgroup.com/srinivas-institute-of-technology/departments/department-of-physics/)

Department Of MBA (http://srinivasgroup.com/srinivas-institute-of-technology/departments/department-of-mba/)

Department Of MCA (http://srinivasgroup.com/srinivas-institute-of-technology/departments/department-of-mca/)

Srinivas Institute of Technology, a pioneer in the field of engineering education, had started B.E. in Nano Technology in the academic year 2013-2014, affiliated to Visvesvaraya Technological University, Belgaum. At present, it is the only institute in Karnataka, which is offering a bachelor’s degree in Nano Technology, with the aim to provide exciting career opportunities. This degree will equip students to be a part of the new industrial revolution, a variety of scientific professions and to play a leading role in the future, as nanotechnology is poised to grow, mature and reveal its full potential.

Vision

To become a pioneer and a world class centre of excellence in academics and research in nano science and technology for the advancement of mankind and the nation.

Mission

To strive in attaining excellence consistently by adopting contemporary methods of teaching and learning to develop skills and to inculcate a research culture in the budding engineers, who can cater to the comfort and well being of society at large.

Programme Educational Objectives (PEO):

1. To make our students competent in the field of nanotechnology and its allied areas.
2. To inculcate the capability to work as entrepreneurs and techno managers with strong ethics and communication skills.
3. To equip the students to pursue higher education and research in reputed institutes at national and international level.
4. To develop a working knowledge of nanotechnology product and processes.

Programme Specific Objectives (PSO):

Department of Nano Technology has specifically defined few objectives of this programme which make students realize the fact that the knowledge and techniques learnt in this course has direct implication for the betterment of society and its sustainability.

1. Acquire knowledge on the fundamentals of nanotechnology for sound and solid base which enables them to understand the emerging and advanced engineering concepts in engineering sciences and life sciences.
2. Acquire knowledge in domain of nanotechnology enabling their applications in industry and research.
3. Empower the students to acquire technological know how by connecting disciplinary and interdisciplinary aspects of nanotechnology.
4. Able to apply the knowledge of ethical and management principles required to work in a team as well as to lead a team.

Programme Outcomes (PO):

Programme Outcomes describe graduate attributes i.e. what students are expected to know or will be able to do when they graduate from a programme.

1. Apply the knowledge of mathematics, science, engineering fundamentals, and Engineering specialization to the solution of complex engineering problems.
2. Identify, formulate, research literature, and analyze engineering problems to arrive at substantiated conclusions using first principles of mathematics, natural, and engineering sciences.
3. Design solutions for complex engineering problems and design system components, processes to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. Use research-based knowledge including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Function effectively as an individual, and as a member or leader in teams, and in multidisciplinary settings.
10. Communicate effectively with the engineering community and with society at large. Be able to comprehend and write effective reports documentation. Make effective presentations, and give and receive clear instructions.
11. Demonstrate knowledge and understanding of engineering and management principles and apply these to one’s own work, as a member and leader in a team. Manage projects in multidisciplinary environments.
12. Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

Students will develop the capacity to:

- Understand the basic scientific concepts underpinning nano science.
- Understand the properties of materials and biomaterials at the atomic/molecular level and the scaling laws governing these properties