



# SRINIVAS UNIVERSITY

## COLLEGE OF ENGINEERING & TECHNOLOGY

Main Campus : Srinivas Nagar, Mukka, Surathkal, Mangalore, - 574 146, INDIA  
Private university established by Karnataka Govt. ACT No. 42 of 2013, Recognised by UGC , New Delhi & member of  
Association of Indian Universities, New Delhi);Administrative Office: GHS Road, Mangalore-575001  
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## COLLEGE OF ENGINEERING AND TECHNOLOGY

### Bachelor of Technology (B.Tech) – Computer Science and Engineering (Admissions open for batch 2021-22)

#### About B.Tech (C.S and E):

The B.Tech degree in Computer Science and Engineering at Srinivas University is aimed at nurturing and developing professionals of the high quality to cater to the needs of industry and academia. The credit based curriculum is focused on industry-linking, technology-orientation and research which mirrors the principles of Srinivas University of pursuit of knowledge. The Department of Computer Science and Engineering was established in year 2009. The Department offers B.E (CSE) undergraduate program, and a postgraduate program M.Tech (CSE) Department has MoUs for Research, Internship and training with various companies and government agencies. Students are encouraged to take up interdisciplinary research and project work in various domains of computer science like computer vision, Machine learning, Data Mining, Networking, high performance computing etc. and are placed in reputed companies. Apart from offering common core subjects, extends to its graduates the flexibility to select from a wide range of elective subjects, which enables them to gain domain knowledge and practice-oriented learning in the key aspects of Computer Science and Engineering—as well as latest academic insights into the salient advancements and emerging technologies. Electives thus offered aim at equipping graduates with the skills and expertise required to design and develop computer software that is applied to diverse system based environments; computing solutions for optimizing and enhancing the performance of systems; and computers to solve challenges in areas such as robotics, computer vision, Security, image processing , pattern recognition techniques, machine learning and emerging technologies. The Department has state-of-the-art infrastructure and computing equipment supported by high speed Ethernet and wireless networks. Various student organisations like Computer Society of India (CSI) student Chapter, ISTE Student Chapter are active throughout the year. The intake for undergraduate program is 60 students and 18 for M.Tech (CSE) .The Department has a comprehensive curriculum on topics related to all aspects of Computer Hardware and Software with an emphasis on practical learning. The course structure is in line with latest advances in technology which equip the students with the latest developments in Computer Science and Engineering. The Department has an excellent placement track record where in various companies offer attractive salary packages. Major recruiters are Infosys Technologies, TCS, Global Edge, Wipro, I-Wave, Cognizant, Robosoft etc. Internship opportunities are provided for final year and pre-final year students to carry out projects

#### Special Features of the Program:

- Spacious multimedia classrooms and well equipped laboratories with sufficient number of computer systems with latest updated software.
- Dynamic, qualified, dedicated and research oriented teaching faculty who work towards the overall betterment of the students.
- Excellent Technical faculty to provide technical assistance to the students during practical sessions.
- E-Study material will be provided from the college for every subject according to the syllabus.
- Industry oriented syllabus with special focus on experimental learning.
- Mini projects that help students implement the theoretical knowledge gained into practical applications which gives a better understanding of the subject.
- Innovations in examination system with opportunity for personal seeing of evaluated papers.
- Placement support and research oriented projects for every student.

- Focus on smart skill development & training on competitive exams.
- Opportunity for internships and industrial visits.
- Tie up with industries to get students trained in latest technology through industry sessions/ workshops.

#### **Career Opportunities:**

- Software applications developer
- Computer systems analyst.
- Computer systems engineer.
- Network systems administrator.
- Database administrator.
- Business intelligence analyst.
- Web developer.
- Computer programmer.
- Software Test Engineer
- Further Opportunity to pursue M.Tech.
- Opportunity to appear for GATE/Engineering Services and other competitive Exams.

#### **Scope of Computer Science and Engineering:**

- **Computer Design and Engineering:** Design new Computer Circuits, Microchips, and other electronic components and design new instruction set, and combine electronic or optical components to provide powerful but cost effective computing.
- **Information Technology:** Develop and manage information systems that support a Business or Organization.
- **Software Engineering:** Develop Methods for the production of software systems on time within the budget with no defects.
- **Operating Systems and Networks:** Develop basic software computers use to supervise themselves or to communicate with other networks.
- **Software Applications:** Apply computing and technology to solve the problems outside the computer field in education or medicine.

#### **SU B.Tech First & Second Semesters: (4 Core, 3 Labs, 3 ESEP / Sem): STEAM Model**

<b>SEMESTER 1</b>		<b>SEMESTER 2</b>	
<b>S.No.</b>	<b>Subject</b>	<b>S.No</b>	<b>Subject</b>
1	Engineering Physics of Materials (S)	1	Engineering Chemistry of Materials (S)
2	Computer Software Concept & Programming (T)	2	Information Communication & Computation Technology (T)
3	Elements of Electrical & Electronics (E)	3	Elements of Mechanical & Civil Engineering (E)
4	Quantitative Techniques in Engineering I/II (M)	4	Quantitative Techniques in Engineering I/II (M)
5	Lab on Engineering Physics of Materials (EL)	5	Lab on Engineering Chemistry of Materials (EL)
6	Workshop Practice (CE & ME) / Electrical & Electronics Lab (EC & CS) (EL)	6	Computer Aided Engineering Drawing Lab (EL)
7	Lab on Computer Programming	7	Lab on Spread sheet Programming
8	Principles of Environmental Studies (ESEP)	8	Constitution & Professional Ethics (ESEP)
9	Technical English (ESEP-Xlanz)	9	Professional English (ESEP-Xlanz)
10	Kannada/ Co-curricular Activities (ESEP)	10	Kannada/ Co-curricular Activities (ESEP)

### SU B.Tech Third & Fourth Semesters

<b>SEMESTER 3</b>		<b>SEMESTER 4</b>	
<b>S.No.</b>	<b>Subject</b>	<b>S.No</b>	<b>Subject</b>
1	Numerical Techniques and Integral Transforms	1	Discrete Mathematical Structures And Graph Theory
2	Data Structures and its Applications	2	Design and Analysis of Algorithms
3	Digital System Design	3	Object Oriented Concepts
4	Microprocessor and Embedded Systems	4	Software Engineering
5	Logic Design and Analog Circuits Laboratory	5	Design and Analysis of Algorithm laboratory
6	Microprocessor Laboratory	6	Computer Graphics and Visualization Laboratory
7	Data Structures Laboratory	7	Java Programming Laboratory
8	ESEP - Troubleshooting	8	<b>ESEP- Hands-on training on Unix and Shell Programming</b>
9	ESEP-Xlanz	9	ESEP-Xlanz
10	Co-Curricular Activities/Sports	10	Co-Curricular Activities/Sports

### SU B.Tech Fifth & Sixth Semesters

<b>SEMESTER 5</b>		<b>SEMESTER 6</b>	
<b>S.No.</b>	<b>Subject</b>	<b>S.No</b>	<b>Subject</b>
1	Data Base Management Systems	1	System Software and Compiler Design
2	Computer Networks	2	Machine Learning
3	<b>Core-Elective -1:</b> 1.Programming the World Wide Web	3	<b>Core-Elective -2:</b> 1.Python Application Programming
	2.Theory of Computation		2.Data Warehousing and Data Mining
	3. Data Compression		3.Adhoc Network
4	<b>Optional/Soft Elective:</b> 1.Operating Systems	4	<b>Open Elective-1:</b> 1. Web2.0
	2. Management and Entrepreneurship		2. Designing Embedded Systems
	3. Natural Language Processing		3. Cryptography and Network Security
5	Data Base Management Systems Laboratory	5	System Software and Compiler Design Laboratory
6	Computer Networks Laboratory	6	Machine Learning Laboratory
7	Programming the Web Laboratory	7	Python Programming Laboratory
8	ESEP – IPR in CS	8	ESEP – Patent Analysis
9	ESEP-Xlanz	9	ESEP-Xlanz
10	Co-Curricular Activities/Sports	10	Co-Curricular Activities/Sports

## SU B.Tech Seventh & Eighth Semesters

SEMESTER 7		SEMESTER 8	
S.No.	Subject	S.No	Subject
1	Internet of Things	1	Technical Seminar
2	<b>Core Elective –3:</b> 1.Cloud computing	2	Internship
	2. Multimedia Processing		
	3. Agile Technology		
3	<b>Core Elective – 4:</b> Artificial Intelligence	3	<b>Project with applied patent</b>
	Block chain		
	Virtual Reality		
4	<b>Open Elective – 2:</b> 1.Information Security	4	ESEP-ABC SKILL TRAINER(OPTIONAL)
	2.Software testing		
	3.Social and Web Analytics		
5	Internet of Things Laboratory		
6	Cloud Computing Laboratory		
7	Lab/Project on Optional		
8	ESEP – Mini Project		
9	ESEP-Xlanz		
10	Co-Curricular Activities/Sports		



**JOIN THE ABOVE INNOVATIVE B.Tech (Computer Science and Engineering) PROGRAMME WITH INDUSTRY RELEVANCE AND JOB ORIENTED SYLLABUS TO RE-DEFINE YOUR CAREER ALTITUDE!!!**

**College of Engineering and Technology**  
**CREATING INNOVATORS**



**SRINIVAS UNIVERSITY**

**Educating the Next Generation**