



# SRINIVAS UNIVERSITY

Mukka- 574 146, Surathkal, Mangalore, Phone :0824-2477456

(State Private University Established by Karnataka Govt. ACT No.42 of 2013, Recognized by UGC, New Delhi, & Member of Association of Indian Universities, New Delhi)

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**Administrative Office :GHS Road, Mangalore-01, Phone 0824-2425966**

## COLLEGE OF ENGINEERING & TECHNOLOGY

### Bachelor of Technology ( B.Tech )

### Internet of Things, Robotics & Artificial Intelligence

**Duration:** 4 Years / 8 Semesters.

**Eligibility:** Pass in 10 + 2 / 12th Standard with 45% marks (40% in case of candidate belonging to SC/ST category).

**Lateral Entry:** The candidates, who have successfully completed 3 year diploma in Engineering, are eligible to apply for lateral entry into 2<sup>nd</sup> year of B.Tech. Courses .Candidates will be admitted to second year of the programme only after appearing the Srinivas University selection process for engineering programme.

#### About B.Tech in Internet of Things, Robotics & Artificial Intelligence:

The B.Tech in Internet of Things, Robotics & Artificial Intelligence is a skill –oriented program which aims to prepare students for new age careers. The objective of the course is to impart synergistic education in the field of advanced innovations like Internet of Things, machine learning and artificial intelligence. The course is designed to enable students to build intelligent machines, software and Robotic applications with a cutting-edge combination of machine learning, analytics and visualisation technologies. The course will include study of algorithms, signal processing, robotics and mathematical foundations, AI methods based in different fields, including neural networks, data mining, in order to present an integrated treatment of machine learning problems and solutions.

The course also provides abundant opportunities to students to work on self-designed mini-projects, develop communication skills, explore internship opportunities in industry and take part in national and international conferences and circuit/Software design contests. The department is committed to promote research, industrial interaction and multi-dimensional development of the students with theoretical as well as practical exposure.

## Special Features of the Program:

- Training by experts trained by Holosuit.
- State of art facilities with modern multimedia lecture & seminar halls.
- Well-equipped laboratories with modern instruments with latest technology.
- Continuously upgraded laboratories for hands on training.
- Good study materials will be provided for every subject.
- Industry oriented syllabus with special focus on hands on training.
- Project/Mini project in each semester.
- Innovations in examination system with opportunity for personal seeing of evaluated papers.
- Make-up exams in every semester to avoid year loss.
- Placement support and research oriented projects for every student.
- Focus on Soft Skill Development & Training on competitive exams.
- Regular Technical Seminars by experts.
- Interaction with Industries, R & D organizations.
- Regular Industrial Visits.
- Separate Hostel & Transport facility for Boys & Girls.

## Career Opportunities:

Graduation in IoT, Robotics and Artificial Intelligence provides career roles as

- Data Scientist
- Data Engineer
- Business Analyst
- Data Analyst
- IoT/AI/ML/Robotics Engineer
- Business Intelligence Engineer
- Research Scientist
- Further Opportunity to pursue M.Tech.
- Opportunity to appear for GATE/Engineering Services and other competitive Exams.

**BE A PART OF THIS INNOVATIVE B.TECH ( IoT,Robotics & Artificial Intelligence) PROGRAMME  
WITH INDUSTRY RELEVANCE AND  
JOB ORIENTED SYLLABUS TO RE-DEFINE YOUR CAREER ALTITUDE!!!**

**College of Engineering & Technology**

**CREATING INNOVATORS**



**SRINIVAS UNIVERSITY**

**Educating the Next Generation**

## Programme Structure

SEMESTER 1		SEMESTER 2	
S. No.	Subject	S. No	Subject
1	Engineering Physics of Materials	1	Engineering Chemistry of Materials
2	Computer Software Concept & Programming	2	Information Communication & Computation Technology
3	Elements of Electrical & Electronics	3	Elements of Mechanical and Civil Engineering
4	Quantitative Techniques in Engineering –I/II	4	Quantitative Techniques in Engineering –I/ II
5	Lab on Engineering Physics of Materials	5	Lab on Engineering Chemistry of Materials
6	Electrical & Electronics Lab	6	Computer Aided Engineering Drawing Lab
7	Lab on Computer Programming	7	Lab on Spreadsheet Programming
8	HOLOSUIT ESEP - Practical Electronics Design-I	8	HOLOSUIT ESEP - Practical Electronics Design-II
9	Principles of Environmental Studies	9	Constitution & Professional Ethics
10	Kannada/ Co-curricular Activities/Sports (ESEP)	10	Kannada/ Co-curricular Activities/Sports (ESEP)
SEMESTER 3		SEMESTER 4	
S. No	Subject	S. No	Subject
1	Numerical Techniques and Integral Transforms	1	Probability theory and Statistical Methods
2	Analog & Digital Electronic Circuits	2	Design and Analysis of algorithms
3	Microcontrollers & Embedded Systems	3	HOLOSUIT Sub: Sensors & Actuators
4	HOLOSUIT Sub Introduction to Robot Programming	4	Principles of Communication Systems
5	HOLOSUIT Lab Robot Programming Lab	5	HOLOSUIT Lab Virtual Lab – Sensors & Actuators
6	Analog Digital Electronics Lab System	6	Basic Communications Lab
7	Microcontrollers & Embedded Systems Lab	7	Algorithms and OOPs
8	HOLOSUIT ESEP Printed Circuit Board Designing	8	HOLOSUIT ESEP 3D Design
9	HOLOSUIT ESEP Mobile application Development	9	HOLOSUIT ESEP Circuit Design Competition
10	Co-curricular Activities/ Sports (ESEP)	10	Co-curricular Activities/ Sports (ESEP)
SEMESTER 5		SEMESTER 6	
S. No	S. No	S. No	Subject
1	Machine Learning	1	Internet of Things
2	Computer Networks	2	Basics of Robotics
3	Core-Elective	3	Core-Elective
4	HOLOSUIT Sub Robotics Navigation	4	HOLOSUIT Sub Robotics Vision based Manipulation
5	Machine Learning Lab	5	Internet of Things Lab
6	Computer Network Lab	6	Digital Image Processing Lab
7	HOLOSUIT Lab Robotics Navigation Lab	7	HOLOSUIT Lab Holosuit based Robotic AI Manipulation Lab
8	HOLOSUIT ESEP 3D Printing	8	HOLOSUIT ESEP Codeathon
9	HOLOSUIT ESEP Workshop on building Practical Robots	9	HOLOSUIT ESEP Robotics Challenge
10	Co-curricular Activities/ Sports (ESEP)	10	Co-curricular Activities/ Sports (ESEP)

SEMESTER 7		SEMESTER 8	
S.No.	Subject	S.No.	Subject
1	Artificial Intelligence	1	Project based Internship with applied Patent Guided by HoloSuit
2	Digital Image Processing	2	Technical Seminar
3	Core/Elective/Soft	3	Patent Filing
4	HOLOSUIT Sub Autonomous Robotics		
5	HOLOSUIT Lab Autonomous Robotics Lab		
6	Lab on Core Elective		
7	Project –Phase 1 HoloSuit		
8	HOLOSUIT ESEP Workshop on Assistive technology		
9	HOLOSUIT ESEP Workshop on Product Development Life Cycle		
10	Co-curricular Activities/ Sports (ESEP)		

**Electives:**

SEMESTER 7		SEMESTER 8	
S.No.	Core-Elective- 5th Semester	S.No.	Core-Elective- 6th Semester
1	Data Warehousing and ETL Techniques	1	Data Visualization
2	Time Series Analysis	2	Design and Analysis of Experiments
3	Data Aggregation & Pre-processing	3	Data Mining Techniques

SEMESTER 7	
S.No.	Core-Elective- 5th Semester
1	RPA Fundamentals
2	Chat Bot Development
3	Fuzzy Logic

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