



# 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)

Web:[www.srinivasuniversity.ac.in](http://www.srinivasuniversity.ac.in), Email: [info@srinivasuniversity.ac.in](mailto:info@srinivasuniversity.ac.in)

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

## COLLEGE OF ENGINEERING & TECHNOLOGY

### Bachelor of Technology ( B.Tech )

### Artificial Intelligence and Machine Learning

**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 Artificial Intelligence and Machine Learning:

The B.Tech in Artificial Intelligence and Machine Learning is specialisation program designed to enable students to build intelligent machines, software, or 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:

- 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 Artificial Intelligence and Machine Learning provides career roles as

- Data Scientist
- Data Engineer
- Business Analyst
- Data Analyst
- IoT/AI/ML 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 (Artificial Intelligence and Machine Learning)  
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	Technical English (ESEP – Xlanz)	8	Professional English ( ESEP – Xlanz)
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	Data structures and Applications	2	Design and Analysis of Algorithms
3	Analog & Digital Electronic Circuits	3	Object Oriented Concepts
4	Microprocessors & Embedded Systems	4	Sensors and Sensor Applications
5	Analog & Digital Electronics Lab	5	Design and Analysis of Algorithms Lab
6	Data structures lab	6	Database Management Lab
7	Microprocessors Lab	7	Computer Graphics and Visualization Laboratory
8	ESEP – Python Programming	8	ESEP- Object Oriented programming Lab
9	ESEP-Xlanz	9	ESEP-Xlanz
10	Co-curricular Activities/ Sports	10	Co-curricular Activities/ Sports
SEMESTER 5		SEMESTER 6	
S. No	S. No	S. No	Subject
1	Automata Languages and Artificial Intelligence	1	Advanced AI and ML techniques
2	Computer Networks	2	Web applications using Machine Learning Techniques
3	Core-Elective -1	3	Core-Elective -2
4	Machine Learning with Python	4	Digital Image Processing
5	AI and Machine Learning with Python Laboratory	5	Image Processing Lab
6	Computer Network Lab	6	Web applications Lab
7	Microcontrollers & Embedded Systems Lab	7	Advanced AI and ML Lab
8	ESEP – IPR in EC	8	ESEP – Patent Analysis
9	ESEP-Xlanz	9	ESEP-Xlanz
10	Co-curricular Activities/ Sports	10	Co-curricular Activities/ Sports

SEMESTER 7		SEMESTER 8	
S.No.	Subject	S.No.	Subject
1	Robotic Process Automation	1	Project based Internship with applied Patent
2	Internet of Things with Machine Learning	2	Technical Seminar
3	Virtual Reality	3	Patent Filing
4	Core Elective - 3		
5	Mobile Application development Laboratory		
6	Internet of Things Laboratory Lab		
7	Lab on Core Elective		
8	ESEP –Project Phase -1		
9	ESEP-Xlanz		
10	Co-curricular Activities/ Sports		

\* ESEP – Employability Skills Enhancement Program

### Electives:

S.No.	Core-Elective- 5th Semester	S.No.	Core-Elective- 6th Semester
1	Operating Systems	1	Designing Embedded Systems
2	Natural Language Processing	2	IOT Technology & Applications
3	Advanced Computer Graphics with Virtual Reality	3	Data Warehousing and Data Mining

Core-Elective- 7th Semester	
1	Block chain
2	Cloud computing
3	Multimedia Processing

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