S. A. ENGINEERING COLLEGE
(An Autonomous Institution , Affiliated to Anna University , Chennai)
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Counselling Code 1114

BEST ACCREDITED STUDENT BRANCH AWARD-CSI | BEST DEPARTMENT AWARD

M.E. COMPUTER SCIENCE AND ENGINEERING

CHOICE BASED CREDIT SYSTEM SIMPLE AND FLEXIBLE METHOD OF VERSATILITY

- Choice-based Credit System
- PG scholar Research Publication in SCI/Scopus Indexed journals
- Anna University recognized Research Center since 2015(4111406)
- Coursera campus license, MATLAB campus license(Machine Learning, Deep Learning Tool box), Microsoft campus license, Oracle Academy license (20590248)

RESEARCH FACILITIES
- Anna University Recognized Supervisors
- 80% of faculty with doctorate and pursuing Ph.D
- Highly qualified and well-experienced faculty members with expertise in the field of Machine Learning, Cyber Security, Data Mining,Network Security, Cloud Computing.
- Separate R&D laboratory for PG students
- Established R&D facilities from R&D projects worth Rs.1 Crore(DST,AICTE,DRDO,TNSCST)

INNOVATIVE LEARNING
- Project based learning
- AICTE-Parakh program
- E-Learning
- IEEE and Science Direct Digital Library
- Online Platforms
- Video Conference
- Virtual Lab
- MAT journals

GLOBAL CERTIFICATION COURSES
- IZO-808 - Oracle Java
- Certification CCNAv7 - Cisco Certified Network Associate
- EX200-Red Hat Certified System Administrator
- Exam 98-349 - Windows OS
- Exam 98 -381 - Microsoft Python Certification
- Exam AZ-220 IoT
- Az-900 Microsoft Azure Fundamentals
- IZO-082 Oracle DBA

CENTRE OF EXCELLENCE
- Data Science
- Internet of Things
- Networking
- Cloud Computing
- Cyber Security

Contact us:
saec@saec.ac.in

Choice Based Credit System
Curriculum for I- IV Semester

Semester I
Mathematical Foundation of Computer Science
Advanced Data Structures and Algorithm
Advanced Database Systems
Network technologies
High Performance Computing
Research Methodologies and IPR
Audit Course
Practicals : Advanced Data Structures and Algorithms Laboratory

Semester II
Advanced Operating System
Machine Learning Techniques
Internet of Things
Advanced Software Engineering
Professional Elective – I
Professional Elective – II
Software Engineering Laboratory
Term Paper Writing and Seminar

Semester III
Security Practices
Professional Elective –III
Professional Elective –IV
Project Work – I

Semester IV
Project Work – II

LIST OF ELECTIVES

II SEMESTER ELECTIVE I
Human Computer Interaction
Cloud Corputing Technologies
Foundations of Data Science
Wireless Communications
Agile Methodologies
Performance Analysis of Computer Systems
Advanced Operating System.
Digital Image Processing

II SEMESTER ELECTIVE II
High Performance Compuing for Big Data
Information Retrieval Techniques
Software Quality Assurance
Autonomous Systems
Web Analytics
Cogntive Computing
Quantum Compuring
Big Data Mining and Analytics

Audit Courses
English for Research Paper Writing
Disaster Managemnet
Constitution of India
நற்றமிழ் இலக்கியம்

III SEMESTER ELECTIVE III
Mobile and Pervasive Computing
Web Services and API Design
Data Visualization Techniques
Compiler Optimization Techniques
Formal Models of Software Systems
Robotics
Natural Language Processing
GPU Computing

III SEMESTER ELECTIVE IV
Devops and Microservices
Mobile Application Development
Deep Learning
Blockchain Technologies
Embedded Software Development
Full Stack Web Application Development
Bio Informatics
Cyber Physical Systems
Mixed Reality

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