



AVANTHI'S

St.THERESSA INSTITUTE OF

Engineering & Technology

(Approved by AICTE, Recognised by the Govt. of A.P., & Affiliated to JNTU-GV, Vizianagaram)
Garividi (Cheepurupalli) Vizianagaram Dist - 535101
website : www.sttheressaengg.ac.in email : astiet@sttheressaengg.ac.in

Phone : 08952-281061
Cell : 7893433345
9704755549

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Program Name: Computer Science and Engineering (AI&ML)

Professional Elective and Open Electives for 4th year 1st Semester students and allocating subjects to faculty.

OPEN ELECTIVE-III(1 OUT OF 8)

1. Basics of Signals and Systems	0 out of 30 students chosen
2. Electronic Measurements and Instrumentation	0 out of 30 students chosen
3. Principles of Signal Processing	0 out of 30 students chosen
4. Industrial Electronics	0 out of 30 students chosen
5. Consumer Electronics	0 out of 30 students chosen
6. Fundamentals of Microprocessors and Microcontrollers	30 out of 30 students chosen
7. Transducers and Sensors	0 out of 30 students chosen
8. IOT and Applications	0 out of 30 students chosen

OPEN ELECTIVE-IV(1 OUT OF 2)

1. Concepts of Power System Engineering	30 out of 30 students chosen
2. Concepts of Smart Grid Technologies	0 out of 30 students chosen

PROFESSIONAL ELECTIVE-III(1 OUT OF 5)

1. Reinforcement Learning	0 out of 30 students chosen
2. Soft Computing	0 out of 30 students chosen
3. Cryptography and Network Security	0 out of 30 students chosen
4. Block Chain Technologies	30 out of 30 students chosen
5. Speech Processing	0 out of 30 students chosen

PROFESSIONAL ELECTIVE-IV(1 OUT OF 5)

1. Robotic Process Automation	0 out of 30 students chosen
2. Cloud Computing	30 out of 30 students chosen
3. Big Data Analytics	0 out of 30 students chosen



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4. NOSQL Databases	0 out of 30 students chosen
5. Video Analytics	0 out of 30 students chosen

PROFESSIONAL ELECTIVE-V(1 OUT OF 5)	
1. Social Network Analysis	0 out of 30 students chosen
2. Recommender Systems	0 out of 30 students chosen
3. AI Chatbots	0 out of 30 students chosen
4. Object Oriented Analysis and Design	30 out of 30 students chosen
5. Semantic Web	0 out of 30 students chosen

4rd year 1st semester Open elective-III, Open elective-IV and Professional Elective-III, Professional Elective-IV, Professional Elective-V based on student's interests are:

Open Elective-III: Fundamentals of Microprocessors and Microcontrollers (FMPMC)

Open Elective-IV: Concepts of Power System Engineering (CPSE)

Professional Elective-III: Block Chain Technologies (BCT)

Professional Elective-IV: Cloud Computing (CC)

Professional Elective-V: Object Oriented Analysis and Design (OOAD)



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Open Elective-I and Professional Elective-I subject for the 3rd Year 1st Semester Students.

OPEN ELECTIVE-I (1 OUT OF 3)	
1. Renewable Energy Sources	21 out of 21 students chosen
2. Electrical Machine Design	0 out of 21 students chosen
3. Intelligent Control Systems	0 out of 21 students chosen

PROFESSIONAL ELECTIVE-I (1 OUT OF 5)	
1. Software Engineering	21 out of 21 students chosen
2. Digital Twin	0 out of 21 students chosen
3. Mobile Edge Computing	0 out of 21 students chosen
4. Optimization Techniques	0 out of 21 students chosen
5. SWAYAM/NPTEL Course	0 out of 21 students chosen

The finalized 3rd year 1nd semester Open Elective-I and Professional Elective-I based on students interests are:

Open Elective-I: Renewable Energy Sources (RES)

Professional Elective-I: Software Engineering (SE)