



DEPARTMENT OF MECHANICAL ENGINEERING

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

OPEN ELECTIVE-III(1 OUT OF 4)	
1.Additive Manufacturing	0 Student Chosen Out Of 38
2.Mechatronics	38 Student Chosen Out Of 38
3.Finite Element Methods	0 Student Chosen Out Of 38
4.Introduction to Artificial Intelligence &Machine Learning	0 Student Chosen Out Of 38

OPEN ELECTIVE-IV(1 OUT OF 4)	
1.Optimization Techniques	0 Student Chosen Out Of 38
2.Smart Manufacturing	0 Student Chosen Out Of 38
3.Safety Engineering	0 Student Chosen Out Of 38
4.Operations Management	38 Student Chosen Out Of 38

PROFESSIONAL ELECTIVE-III(1 OUT OF 6)	
1. Mechanical Vibrations	0 Student Chosen Out Of 38
2. Operations Research	0 Student Chosen Out Of 38
3. Unconventional Machining Processes	38 Student Chosen Out Of 38
4. Computational Fluid Dynamics	0 Student Chosen Out Of 38
5. Gas Dynamics and Jet Propulsi	0 Student Chosen Out Of 38
6.MOOCs (NPTEL/Swayam) Course (12 Week duration)	0 Student Chosen Out Of 38

PROFESSIONAL ELECTIVE –IV (1 OUT OF 6)	
1.Power Plant Engineering	38 Student Chosen Out Of 38
2. Automation in Manufacturing	0 Student Chosen Out Of 38
3. Big Data Analytics	0 Student Chosen Out Of 38
4. Production Planning and Control	0 Student Chosen Out Of 38



AVANTHI'S St.THERESSA INSTITUTE OF Engineering & Technology

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5.Condition Monitoring	0 Student Chosen Out Of 38
6. MOOCs (NPTEL/Swayam) Course (12 Week duration)	0 Student Chosen Out Of 38

PROFESSIONAL ELECTIVE –V (1 OUT OF 6)	
1. Additive Manufacturing	38 Student Chosen Out Of 38
2. Advanced Manufacturing Processes	0 Student Chosen Out Of 38
3. Mechatronics	0 Student Chosen Out Of 38
4. Refrigeration & Air-Conditioning	0 Student Chosen Out Of 38
5. Non Destructive Evaluation	0 Student Chosen Out Of 38
6. MOOCs (NPTEL/Swayam) Course (12 Week duration)	0 Student Chosen Out Of 38

The finalized 4th 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: Mechatronics

Open Elective-IV: Operations Management (OM)

Professional Elective-III: Unconventional Machining Processes (UMP)

Professional Elective-IV: Power Plant Engineering (PPE)

Professional Elective-V: Additive Manufacturing (AM)



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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 4)	
1. Renewable Energy Sources	56 Student Chosen Out Of 56
2. Electrical Machine Design	0 Student Chosen Out Of 56
3. Intelligent Control Systems	0 Student Chosen Out Of 56

PROFESSIONAL ELECTIVE -I(1 OUT OF 5)	
1. Instrumentation & Control Systems	0 Student Chosen Out Of 56
2. Nano Technology	0 Student Chosen Out Of 56
3. Design for manufacturing	0 Student Chosen Out Of 56
4. Thermal management of Electronic Systems	0 Student Chosen Out Of 56
5. Joining Processes	56 Student Chosen Out Of 56

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

Open Elective-I: Renewable Energy Sources (RES)

Professional Elective-I: Joining Processes (JP)