

SCHOOL OF ENGINEERING AND TECHNOLOGY
SRI PADMAVATI MAHILA VISVAVIDYALAYAM, TIRUPATI
(WOMEN'S UNIVERSITY)
DEPARTMENT OF MECHANICAL ENGINEERING

PROGRAM EDUCATIONAL OBJECTIVES – B.TECH (ME)

- PEO1:** To provide a quality education for students of Mechanical Engineering profession through outcome based education.
- PEO2:** To equip students with Robotics, Mechatronics, CFD, Siemens and Dassault 3D experience technologies for deliberating engineering solutions.
- PEO3:** To promote research leading to innovation, incubation & patenting of research outcomes for stake holders.
- PEO4:** To disseminate technical information through scholarly publication, conferences and continuing education.
- PEO5:** To acquire knowledge of relevant technologies in multidisciplinary field of social engineering.

SCHOOL OF ENGINEERING AND TECHNOLOGY
SRI PADMAVATI MAHILA VISVAVIDYALAYAM, TIRUPATI
(WOMEN'S UNIVERSITY)

DEPARTMENT OF MECHANICAL ENGINEERING

PROGRAM OUTCOMES – B.TECH (ME)

Engineering Graduates will be able to

PO1:Engineering Knowledge: Apply knowledge of mathematics, science and engineering fundamentals and Production and Industrial Engineering specialization to the solution of complex Production and Industrial Engineering problems.

PO2:Problem Analysis: Identify, formulate, research literature and analyze complex Production and Industrial Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

PO3: Design/Development of Solutions: Design solutions for complex Production and Industrial Engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.

PO4: Conduct investigations of complex Production and Industrial Engineering problems: using research-based knowledge and research methods including analysis, interpretation of data and synthesis of information to provide valid conclusion

PO5: Modern Tool Usage: To apply appropriate techniques, resources and engineering and IT tools for modeling of different Production and Industrial Engineering problems with an understanding of the limitations.

PO6: The Engineer and Society: Apply contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.

PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

SCHOOL OF ENGINEERING AND TECHNOLOGY
SRI PADMAVATI MAHILA VISVAVIDYALAYAM, TIRUPATI
(WOMEN'S UNIVERSITY)
DEPARTMENT OF MECHANICAL ENGINEERING

PROGRAMME SPECIFIC OUTCOMES – B.TECH (ME)

Engineering Graduates will be able to

- PSO 1:** Graduate engineers will be equipped with all the basic principles of Mechanical Engineering.
- PSO 2:** Apply Engineering knowledge, analysis and design tools to solve problems in the domains of Thermal, Manufacturing and Design.
- PSO 3:** Engage professionally in industries or as an Entrepreneur by applying Manufacturing, Industrial Engineering and Management practices.

● **SCHOOL OF ENGINEERING AND TECHNOLOGY**
SRI PADMAVATI MAHILA VISVAVIDYALAYAM, TIRUPATI
(WOMEN'S UNIVERSITY)
DEPARTMENT OF MECHANICAL ENGINEERING

B.TECH (ME)

H – HIGH

M – MODERATE

L– LOW

1. PROGRAM EDUCATIONAL OBJECTIVES (PEOs) – PROGRAM OUTCOMES (POs) MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
PEO1	H	H	H	M	M	L	L	-	M	L	L	-
PEO2	-	-	-	-	-	-	-	L	H	H	-	-
PEO3	H	-	M	L	M	H	M	H	L	-	-	-
PEO4	H	H	H	H	M	M	M	H	H	M	M	H
PEO5	H	H	M	H	L	H	L	H	M	M	M	H

2. PROGRAM EDUCATIONAL OBJECTIVES (PEOs) –PROGRAM SPECIFIC OUTCOMES (PSOs) MAPPING

	PSO1	PSO2	PSO3	PSO4
PEO1	H	M	M	-
PEO2	-	L	H	-
PEO3	-	M	H	-
PEO4	M	M	M	H
PEO5	L	M	-	H

3. PROGRAM EDUCATIONAL OBJECTIVES (PEOs) – MISSION STATEMENTS MAPPING

	M1	M2	M3	M4
PEO1	M	H	-	-
PEO2	L	-	H	-
PEO3	M	-	-	H
PEO4	H	M	-	-
PEO5	M	-	-	H