



Mechanical Engineering

- [B.Tech. Programme Educational Objectives & Programme Outcomes](#)
- [M.Tech. Sessional Examination Question Papers & keys/schedules](#)
- [B.Tech. Mechanical Sessional Examination Question Papers & keys](#)

"GATE" EXAM

- [GATE Old Question Papers](#)
- [GATE Study Materials](#)

VISION

To be a preferred department of learning for students and teachers alike, with dual commitment to Academics & Research, serving students in an atmosphere of innovation and critical thinking.

MISSION

- To provide an adoptable education for the graduates in preparing them for a rewarding career to develop academics and research in collaboration with industry and other institutions in the field of Mechanical Engineering.
- To prepare the students as thinking professionals and good citizens who will be able to apply their knowledge critically and innovatively in solving contemporary professional and social problems.

COURSE HANDOUTS

- [B.Tech. Course Handouts](#)
- [B.Tech. 3rd Sem Power Engineering Handouts](#)

News



Faculty Conferences, Workshops

COURSES REVISED AS PER CTLP

CODE	NAME OF THE SUBJECT	YEAR	NAME OF THE AUTHOR	
19MA302	Engineering Mathematics-III(Integrated)	II	Varunkumar Merugu	View.....
19ME302	Engineering Mechanics	II	B VENKATA SURESH	View.....
19ME401	Applied Thermodynamics	II	Chiranjeeva Rao Seela	View.....
19ME402	Theory of Machines	II	K Santa Rao	View.....
19ME404	Mechanics of Solids	II	M Vykuntarao	View.....
20ME302	Computer Aided Machine Drawing	II	Pankaj Kumar	View.....
19ME501	Computer Aided Design and Manufacturing	III	G Dinesh Reddy	View.....
16ME603	HEAT TRANSFER-(20-21)	III	SIMHADRI KAMBALA	View.....
16ME604	Mechatronics	III	Sasidhar Gurugubelli	View.....
16ME006	Automobile Engineering	III	Dr.GVSS Sharma	View.....



GMR Institute of Technology
An Autonomous Institute Affiliated to JNTU, Kakinada

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- Computer Science Engineering
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- CSE-Artificial Intelligence & Data Science
- CSE-Artificial Intelligence & Machine Learning

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UG Programs

[Electrical & Electronics Engineering](#)

Vision

To be a most preferred Electrical & Electronics Engineering department of learning for students and teachers alike, with dual commitment to research and serving students in an atmosphere of innovation and critical thinking.

Mission

- To provide high-quality education in Electrical & Electronics Engineering, to prepare the graduates for a rewarding career in Electrical & Electronics Engineering and related industries, in tune with evolving needs of the industry..
- To prepare the students to become thinking professional and good citizens who would apply their knowledge critically and innovatively to solve professional and societal problems.

Overview

Welcome to the department of Electrical & Electronics Engineering of GMRIT. Department of EEE offers Four year B.Tech and Two year M.Tech programs. The department has a rich

Related Links

PEOs & POs

- [Programme Educational Objectives\(PEOs\) & Programme Outcomes\(POs\)](#)

Contact

- For further information, contact the Head of the Department at: hod_eee@gmr.it.edu.in

Downloads

- [Download the Structure & Syllabus .](#)

Faculty Directory

- To know more about the Department Faculty, [click here.](#)

News Letter (Builder Trends)

2015-16

- [Volume I, Issue I](#)
- [Volume I, Issue II](#)

2016-17

- [Volume II, Issue I](#)
- [Volume II, Issue II](#)

2017-18

- [Volume III, Issue I](#)
- [Volume III, Issue II](#)

Photo Galory of Display of POs and COs

Department of Mechanical Engineering

Programme Educational Objectives

1. Graduates will be engaged in ongoing learning and professional development through self-study, continuing education in mechanical engineering and also in other allied fields.
2. Graduates will apply their engineering skills, exhibiting critical thinking and problem solving skills in professional engineering practices or tackle social, technical and business challenges.
3. Graduates will adopt ethical attitude and exhibit effective skills in communication, management, teamwork and leadership qualities.

Programme Outcomes

At the end of the programme, a graduate will be able to:

1. Apply the knowledge of basic sciences and fundamental engineering concepts in solving engineering problems.
2. Identify and define engineering problems, conduct experiments and investigate to analyze and interpret data to arrive at substantial conclusions.
3. Propose an appropriate solution for engineering problems complying with functional constraints such as economic, environmental, societal, ethical, safety and sustainability.
4. Perform investigations, design and conduct experiments, analyze and interpret the results to provide valid conclusions.
5. Select/develop and apply appropriate techniques and IT tools for the design & analysis of the systems.
6. Give reasoning and assess societal, health, legal and cultural issues with competency in professional engineering practice.
7. Demonstrate professional skills and contextual reasoning to assess environmental/societal issues for sustainable development.
8. Demonstrate knowledge of professional and ethical practices.
9. Function effectively as an individual, and as a member or leader in diverse teams, and in multi-disciplinary situations.
10. Communicate effectively among engineering community, being able to comprehend and write effectively reports, presentation and give/receive clear instructions.
11. Demonstrate and apply engineering & management principles in their own/team projects in multidisciplinary environment.
12. Recognize the need for, and have the ability to engage in independent and lifelong learning.

Department officie

CAD LAB

Do's & Don'ts

1. Students before availing CAD Lab should enter their necessary information in the log book (S.No, Name, Admin No, System No, etc.)
2. Students should use Z drive only for their storage.
3. Strict discipline is to be maintained in the lab.
4. Students are allowed to use internet facility with prior permission faculty / Programmer
5. Pen Drives are not allowed
6. Don't enter CAD Lab during the class work
7. While leaving the lab, shutdown the computer, turn-off monitor and put the chair properly.

CAD LAB

B.TECH. (MECH) 7th SEMESTER

Course Objectives

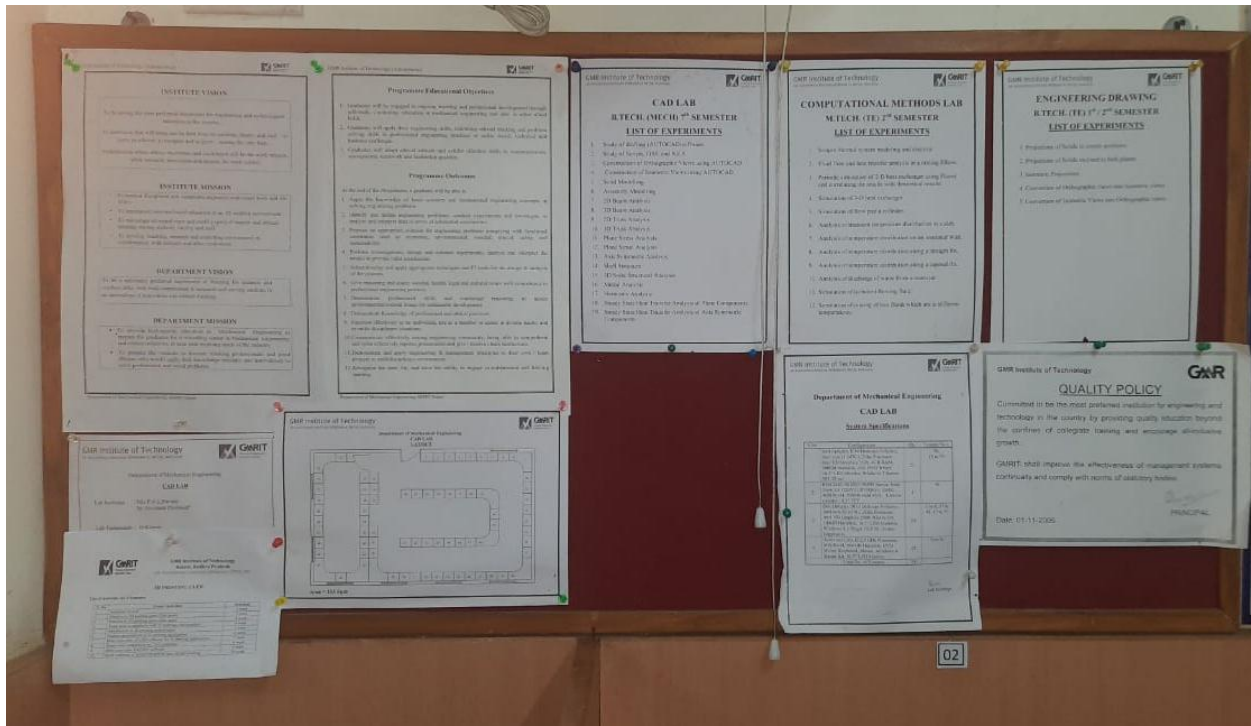
The course content enables students to:

1. Enable them in orthographic and isometric views of simple mechanical components using any drafting software as per the BIS standard.
2. Understand them in modeling and assembling 3D objects in Solid modeling software.
3. Learn a systematic approach for solving FEM problems.
4. Enable them to solve, analyze and validate the results using ANSYS.

Course Outcomes

At the end of the course students are able to:

1. Draw orthographic and isometric views of simple mechanical components using any drafting software as per the BIS standard.
2. Model and assemble 3D objects in Solid modeling software.
3. Prepare a systematic approach for solving FEM problems.
4. Solve, analyze and validate the results using ANSYS.



POs and COs Display : Notice board