An Autonomous Institute Affiliated to JNTU-GV Vizianagaram All UG Courses are accredited by **NBA**Institute Accredited by **NAAC** with "**A**" grade (3rd cycle)
Ranked 188th in NIRF-2022



GMR Nagar,RAJAM-532 127 Vizianagaram (Dist.) Andhra Pradesh T+91 (8941) 251 592/251 593/ 252 989 F+91 (8941) 251 591 W www.gmrit.edu.in

Additional Information

2.6.1. Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution. **Dissemination of POS and COs**

S.No	Additional Proof	Page
1	B.Tech (Civil Engineering)	2-2
2	B.Tech (Electrical & Electronics Engineering)	3-5
3	B.Tech (Mechanical Engineering)	6-9
4	B.Tech (Electronics & Communication Engineering)	10-16
5	B.Tech (Computer Science Engineering)	17-18
6	B.Tech (Information Technology)	19-23

GMR Institute of Technology Department of Civil Engineering(Display of CO and PO)



GAR

Department of Civil Engineering

Programme Educational Objectives

- Graduates with ability to solve core engineering problems through continuous self-paced learning in tune with changing technologies
- Reinforce engineering skills, critical thinking and problem-solving skills in professional
 engineering practices and deal with socio-economical, technical and business challenges
- 3. Nurture professionalism with soft skills, managerial & leadership skills and ethical values

Programme Outcomes

- Apply the knowledge of basic sciences and fundamental engineering concepts in solving civil engineering problems (Engineering knowledge)
- Identify and define civil engineering problems and investigate to analyze and interpret data to arrive at substantial conclusions. (Problem analysis)
- Propose appropriate solutions for engineering problems complying with functional constraints such as economic, environmental, societal, ethical, safety and sustainability in accordance with Indian standard codes of practices. (Design/development of solutions)
- Perform Investigations, design and conduct experiments, analyze and interpret the results to provide valid conclusions. (Conduct investigations of complex problems)
- Select/develop and apply appropriate techniques and IT tools to analyze, design and scheduling of activities with an understanding of the limitations and successfully implement and adopt to technological changes in civil engineering with intervention of IT industries (Modern tool usage)
- Give reasoning and assess societal, health, legal and cultural issues with competency in professional engineering practice. (The engineer and society)
- Demonstrate professional sloils and contextual reasoning to assess environmental/societal issues for sustainable development. (Environment and sustainability)
- 8. Demonstrate knowledge of professional and ethical practices. (Ethics)
- Function effectively as an individual, and as a member or leader in diverse teams, and in multi-disciplinary situations. (Individual and team work)
- 10. Communicate effectively with respect to oral, written and graphical communication (Communication)
- Demonstrate and apply engineering & management principles in their own / team projects in multidisciplinary environment. (Project management and finance)
- Recognize the need for, and have the ability to engage in independent and lifelong learning. (Life-long learning)

Programme Specific Outcomes

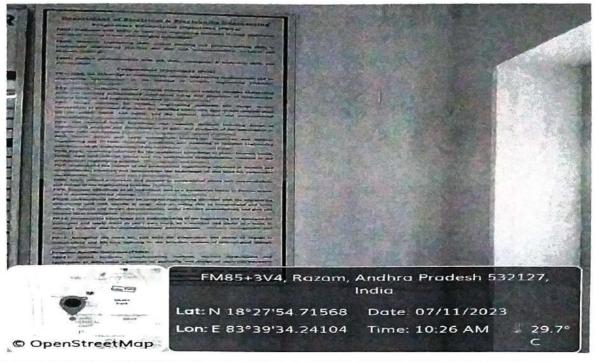
- 1. Demonstrate the quality and suitability of construction materials
- 2. Ability to apply the practical aspect of analysis, design and safe construction practices

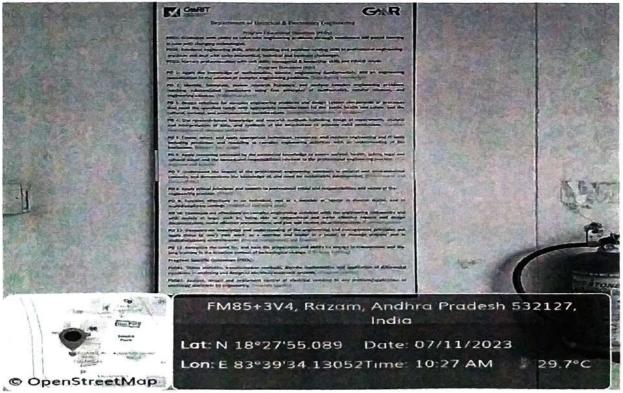
Signature of HoD



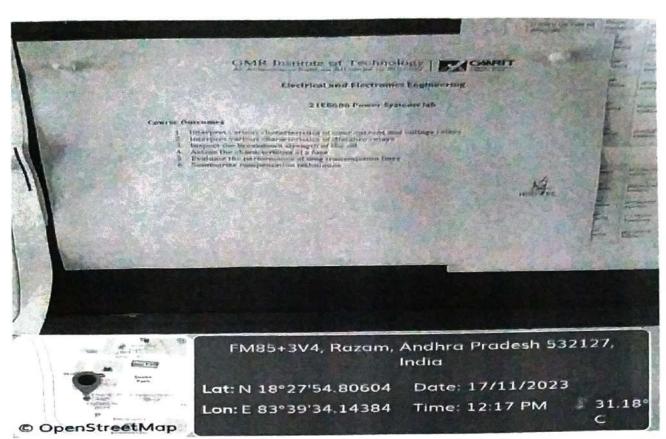
Department of Electrical and Electronics Engineering

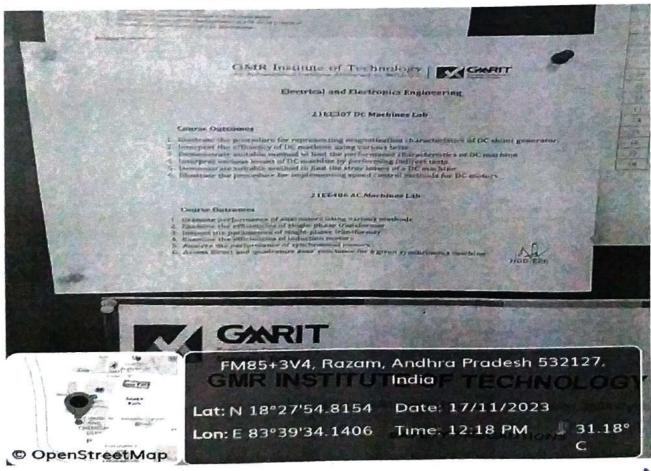
Geo tagged Photos of POs and Cos are displaced in the department:



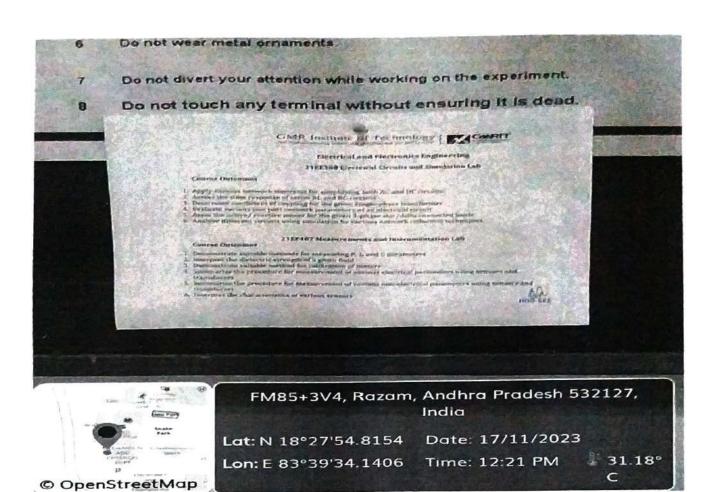


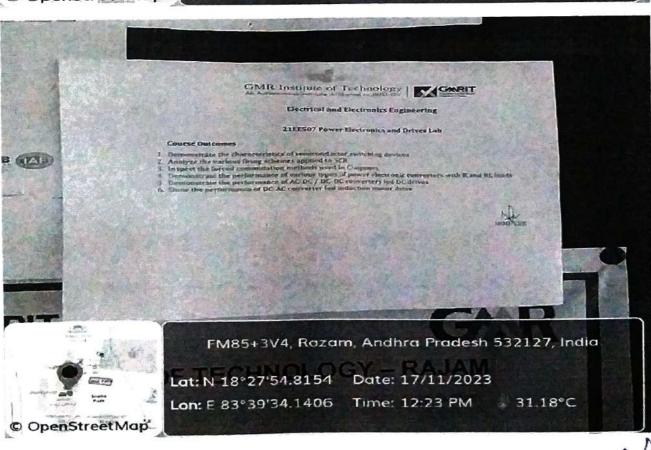














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GMR Institute of Technology Department of Mechanical Engineering

Program Educational Objections (Phot)

Graduates in Mechanical Engineering, a few years after graduation would

- Graduales the constrainty distily to solve time angineering problems through continues wellpared limiting in time with changing before legist (P101).
- Braduans applying this engineering shalls, certical filinking and problem solving skills in professional engineering practices and deal with socio-entor-mind, to being and horsesses whitespectation.
- Graduates bridged with other possisting effective regimentation phile, managerist slows telephone & higherhold quantities (PEO3)

Promain Datowies Indid

Ungereering Graduates will be able to

- PO 1: Engineering knowledge: Apply the Employee of mathematics science, engineering fundamentals and an implicenting specialization in the solution of correlar engineering problems.
- Pd 2: Problem similysis: Identify, hermaline, review research interature, and analyze complete engineering problems reaching substantiated conclusività using first principles of milliomatical material sciences, and engineering sciences.
- N. 3: Design/development of solutions: Design solutions for consider impreering problems and design system compresents or proceeds that meet the specified meets with appropriate considerations for the public health and sofety, and the collect, societies, and confirmmental considerations.
- Fig. 4. Conduct investigations of complex problems: the symmetry board browledge and research methods including Sester of experiments, in alyon and interpretagion of formation to provide valid conclusions.
- P35: Modern't tool usage: Create, select, and openy appropriate termination research, and entdern engogeting and IT tools heading physicities and that a research engage ting activities with an independent of the builtistions.
- Po 6: The engineer and suclety: Apply learning informal for the fouriedual knowledge to assess special health safety, Irial and octured issues and the sociopural responsibilities relevant to the professional engineering practice.
- PD 7. Enteronment and sustainability: Understand the unject of the professional engineering solutions in scaletal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.
- PQ 88. Ethics: Apply ethical proviptes and commit or professional ethics and responsibilities and norms of the engineering practice.
- PO 9: Individual and team work: Pointión effectively at an individual, and as a member or leader in discose teams, and in includisciplicary sections.
- PO (0) Communication: Communicate effectively on complex engineering perceities with the engineering or intensity 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 that instructions.
- PO 11: Project management and finance: Remonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a teast, to manage projects and in multidisciplinary environments.
- PO 12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the boundest context of technological change.

Program Specific Unicomes (PSOs)

- PSO It. Decrenstrate the knowledge and application of Georeetic modeling design. Analysis and Simulation of mechanical engineering systems.
- PS02: Ability to apply the advanced concepts if thermal and member turing engineering in solving

industry emiliens.

🖸 GPS Map Camera

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GMR Institute of Technology Department of Mechanical Engineering	Institute
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PO 1. Eighnering Chondelee: April the Immirity of mathematics, whence segmeeting fundamentals,	3. Eva
PO 2: Problem analysis; identify, formulate, fividate receased fiterature, and analyze complex inglocening problems reaching substantisted (bractivions being first planelples of mathematics, substantisted (bractivions being first planelples of mathematics, substantiatedes).	4. De
PO 3: Design/development of solutions: Design sulutions for Loupide engineering problems and design	5. Ve
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PD 5: Stodern tool usage: Create select and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complete organisering activities with an incident adulting of the healthques.	r.
PO 6: The engineer and society: Apply reaturing forement by the contextual annivirules to assert today. The alth, sofery, iteal and cultural issues and the contequent responsibilities presented to the professional engineering practice.	7. D 8. E
PO 7: Environment and sustainability: Understand the Implet of the professional engineering solutions to society and environmental contexts, and demonstrate the knowledge of and need for sustainable descriptions.	
PO B: Tthics: Apply emissal principles and committo professional ethics and responsibilities and nervis of the employeening practice.	9.11
[PCI 9: Indicidual and team work: Function effectively as an individual and as a member or leader in discretization and in multidisciplinary settings.	io.
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PO 11: Project management and finances Demanstrate knowledge and understanding of the engineering and analysis and analysis these to only own work, as a member and leader in a seaso, to come a projects and in modific engineery invision agency.	
PO 12: I He-long training known is the need for, and have the preparation and ability to engage is independent and life-long framing in the broadest mitted of methodogical change.	12
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Metal Cutting and Machine Tools Lab (20ME507) B.Tech 5th Semester

Course Outcomes

- 1. Build simple features by performing basic turning operations on lathe.
- 2. Develop simple features by performing basic operations on shaper and planer.
- 3. Create features by making use of grooving, boring and reaming.
- 4. Demonstrate the features by making use of milling machine.
- 5. Conducting for simple features by performing basic operations on thread cutting and knurling,
- 6. Build the basic features by making use of Cylindrical Grinder and Surface.



GPS Map Camera

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Long 83,659501°

27/11/28 12:31 PM GMT +05:30

Signature of the HoD

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Department of Electronics and Communication Engineering

Program Educational Objectives

- PEO 1: Excel in their technical and professional careers with the spirit of learning to learn, think and live by acquiring solid foundation in Science and Engineering.
- PEO 2: Contemplate real life problems, design and develop novel products that are technically sound, economically feasible and socially acceptable.
- EO 3: Embrace ethical attitude and exhibit effective skills in communication, management, teamwork and leadership qualities.

Program Outcomes

ngineering graduate will be able to

- O 1: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 0 2: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- O 3: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- O 4: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- O 5: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- O 6: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- O7: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- O 8: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 20 9: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO 10: 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.
- PO 11: 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.
- PO 12: 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.
- PSO 1: Apply the knowledge of technological evolutions, model / character the devices and design the integrated as to build analog and digital systems.
- PSO 2: Understand and apply the fundamentals of communication and signal processing to develop systems wrapped with industry standard protocols and standards.



Course Outcomes

- 1, Implement sampling theorem
- 2. Assess analog modulation & demodulation techniques
- 3. Demonstrate the pulse modulation techniques
- 4. Implement different Baseband modulation techniques
- 5. Implement different Digital modulation techniques
- 6. Contrast the design issues in a digital communication system

COs-POs Mapping

Ī	COs	POI	PO2	PO4	PO14	١.
ŀ	1	2	3.	- 3	3	1
ł	2	2	- 2	- 3	3	
Ì	1	2	-2	- 3	3	1
1	-1	2	2	3	3	1
	- 5	2	2.	3	3	
	- 6	2	2.	3	-3	

3-Strongly linked [2-Moderately linked] 1-Weakly linked

List of Experiments

Minimum twelve experiments to be conducted

(a) Any six experiments from the following

- 1. Verification of Sampling Theorem
- 2. Amplitude Modulation & Demodulation
- 3. AM-DSB SC -Modulation & Demodulation
- 4. Design of envelope Detector
- 5. Frequency Modulation & Demodulation
- 6. Pulse Amplitude Modulation-Modulation& Demodulation
- 7. PWM, PPM Modulation & Demodulation
- 8. Phase Locked loop(PLL)

(b) Any six experiments from the following

- 9. Verify the operation of Time Division Multiplexing
- 10. Verification of Delta Modulator
- 11. Generation and Detection of pulse code modulation
- 12. Generation and Detection of Differential Pulse Code Modulation
- 13. Generation and Detection of ASK .
- 14. Generation and Detection of PSK
- 15. Generation and Detection of of FSK

List of Augumented Experiments*

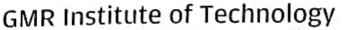
- 1. Design of AM receiver
- 2. Mobile Phone Detector
- 3. FM Transmitter
- J. I'M Receives
- 5 HAM Radio Receiver

Reading Material(s)

- 1. Simon Haykin: Digital communications, John Wiley, 4th Edition, 2013
- 2. H. Jaub and D. Schilling, Principles of Communication Systems, TMH, 4th Edition, 2017
- 3 John G. proakis, Masoundsalehi, Gerhard bakh, Contempary communication system using MATLAB & Signulink, Thomson India publishers, 2007

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Department of Electronics and Communication Engineering

Program Educational Objectives

- Embrace technical and professional skills with the spirit of learning, critical thinking while acquiring
 the fundamentals in science and technology.
- Contemplate real life problems, design and develop novel products that are technically viable, economically leasible and socially acceptable.
- Encompass ethical values, exhibit soft skills in management & teamwork acquiring leadership qualities.

Program Outcomes

Engineering graduate will be able to

- PO 1: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems (Engineering knowledge)
- PO 2: Identity, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences (Problem analysis).
- PO 3: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural societal, and environmental considerations. (Design/development of societal)
- PO 4: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions (Conduct investigations of complex problems)
- PO 5: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations (Modern tool usage)
- PO 6: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice. (The engineer and society)
- PO 7: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. (Environment and visit in childs.)
- PO 8: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice (Ethics)
- PO 9: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings (Individual and team work)
- PO 10. 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 (Communication).
- PO 11: 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 (Project management and finance).
- PO 12: 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.[Life-long-learning]

Program Specific Outcomes

- PSO 1. Apply the knowledge of technological evolutions, model / characterize devices and design the integrated circuits to build analog and digital systems.
- PSO 2. Understand and apply the fundamentals of communication and signal processing to develop systems wrapped with industry standard protocols and standards.



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- PO 9: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. (Individual and team work)
- PO 10: 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. (Communication)
- PO 11: 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.(Project management and finance)
- PO 12: 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.(Life-long learning)

Program Specific Outcomes

- PSO 1: Apply the knowledge of technological evolutions, model / characterize devices and design the integrated circuits to build analog and digital systems. (Program Specific)
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GMR Institute of Technology An Autonomous Institute Affiliated to JNTU, Kakinada



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Department of Electronics and Communication Engineering

Program Educational Objectives

- PEO 1: Excel in their technical and professional careers with the spirit of learning to learn, think and live by acquiring solid foundation in Science and Engineering.
- PEO 2: Contemplate real life problems, design and develop novel products that are technically sound, economically feasible and socially acceptable.
- PEO 3: Embrace ethical attitude and exhibit effective skills in communication, management, teamwork and leadership qualities.

Program Outcomes

Engineering graduate will be able to

- PO 1: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO 2: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO 3: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO 4: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO 5: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- PO 6: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- PO 7: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
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- PO 11: 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.
- PO 12: 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.
- PSO 1: Apply the knowledge of technological evolutions, model / character the devices and design the integrated as to build analog and digital systems.
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- Contemplate real life problems, design and develop novel products that are technically sound, economically feasible and socially acceptable.
- Embrace ethical attitude and exhibit effective skills in communication, PEO 3: teamwork and leadership qualities. management,

Program Outcomes

Engineering graduate will be able to

- Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- Identify, formulate, review research literature, and analyze complex engineering PO 2: problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- Design solutions for complex engineering problems and design system PO 3: components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- Use research-based knowledge and research methods including design of PO 4: experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- Create, select, and apply appropriate techniques, resources, and modern PO 5: engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- Apply reasoning informed by the contextual knowledge to assess societal, health, PO 6: safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice. PO 7:
- Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. PO 8:
- Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. PO 9:
- Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- Communicate effectively on complex engineering activities with the engineering PO 10: 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. PO 11:
- 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. PO 12:
- 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. PSO 1:
- Apply the knowledge of technological evolutions, model / character the devices integrated as to build analog and digital systems. PSO 2:
- Understand and apply the fundamentals of communication and signal processing to develop systems wrapped with industry standard protocols and standards.



21EC306 Electronic Devices and Circuits Lab

Course Outcomes

00315

- I. Assess the characteristics of semiconductor devices
- 2. Find the foad and fine regulation of rectifiers
- Implement D.C. Regulated perver supply
- 4. Assess the characteristics of BFT and PET
- 5. Construct the characteristics of CE and C5 amplifiers
- 6. Assess the frequency response of CE and CS amplifiers

COs - POs Mapping

COs	POI,	Hi)	PO.	150
1	3	2	2	3
2	- 3	2	2	3
3	,	2	2	3
4	3	2	Z	3
5	3	2	2	3
6	3	2	2	-

3-Strongly linked [Z-Moderately linked] 1-Weakly linked

List of Experiments

Perform any twelve Experiments

- 1 PN Junction diode characteristics
- 2. Zener diode characteristics.
- 3. Full wave center tapped rectifier with and without filter.
- 4. Bridge type Full wave rectifier
- 5. Design of Zener regulator.
- 6. Characteristics of SCR
- 7. Characteristics of UJT
- 8. Transistor CE characteristics (Input and Output)
- 9. Transistor CB characteristics (Input and Output)
- 10. JFET characteristics
- 11. Characteristics of CE Amplifier.
- 12. Characteristics of CS Amplifier
- Frequency response of CE amplifier
- 14. Frequency response of CS amplifier

List of Augmented Experiments*

- 1. Design of Regulated DC Power Supply
- 2. Applications based on FET
- 3. Applications based on BJT
- 4. Applications based on SCR
- 5. Burglar Alarm

Reading Material (s)

- N.N.Bhargava, D.C.kulshreshtha S.C.Gupta, Basic electronics and linear circuits Tata MC Graw Hill com-pany Ltd., New Delhi, 2rd Edition, 2003.
- R.L. Boylestad and Louis Nashelsky, Electronic Devices and Circuits, Pearson/Prentice Hall, 9°Edition, 2006.

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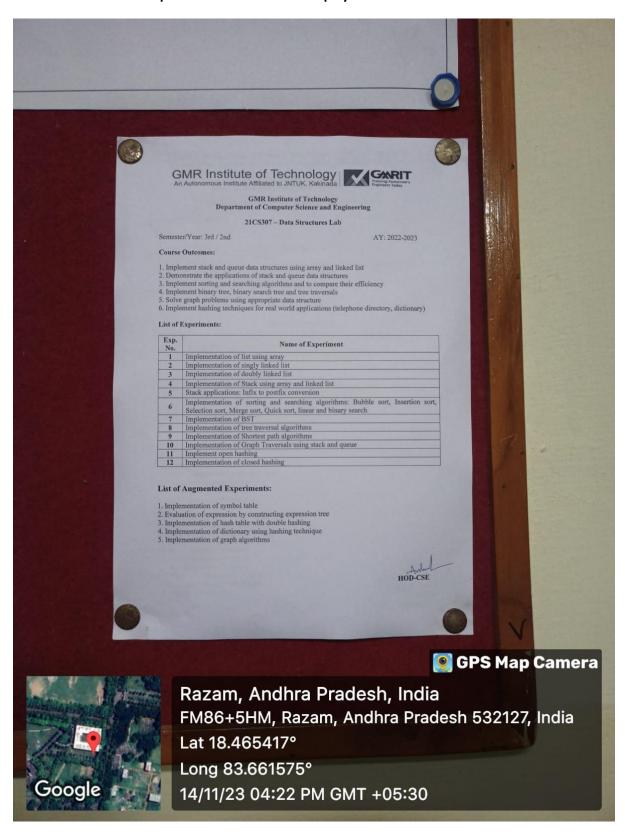
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Students shall opt any one of the Augmented experiment in addition to the regular experiments

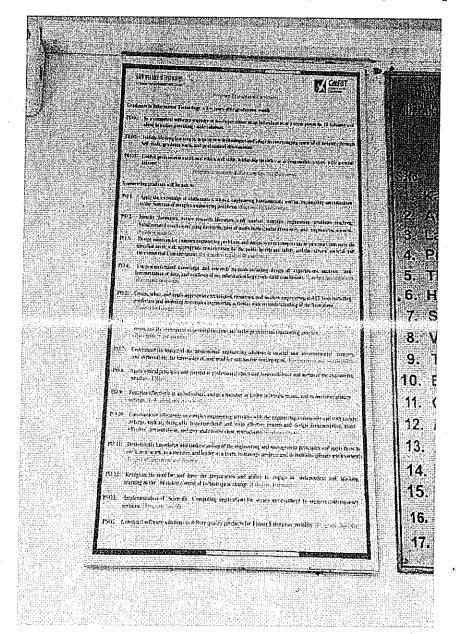
CSE Department - PO is displayed on the board in the second-floor corridor



CSE Department - Lab COs are displayed on the lab notice board



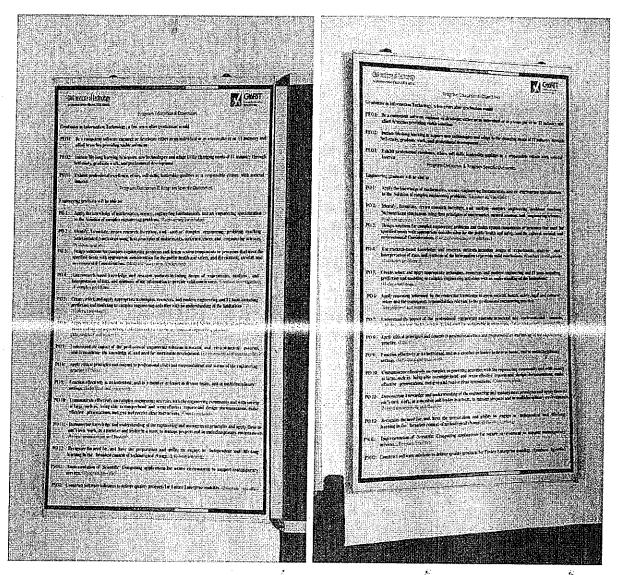
Photographs where the POs and COs are displaced in your department



Department Corridor (2nd Floor)

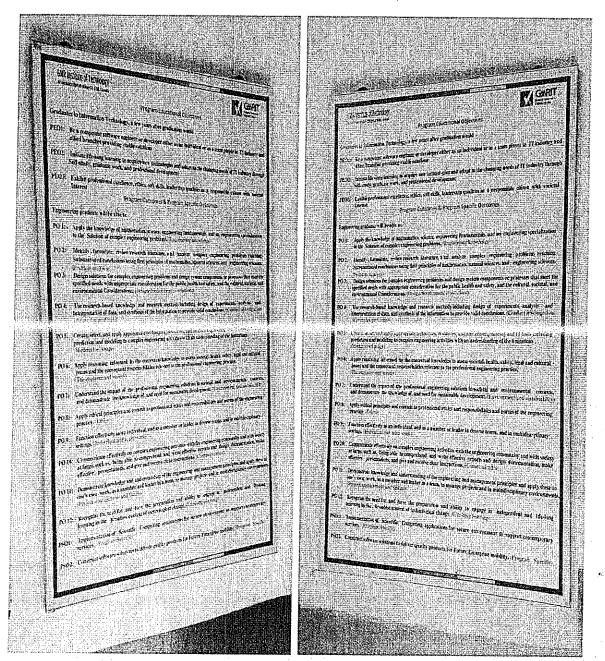
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2nd Floor Class Rooms



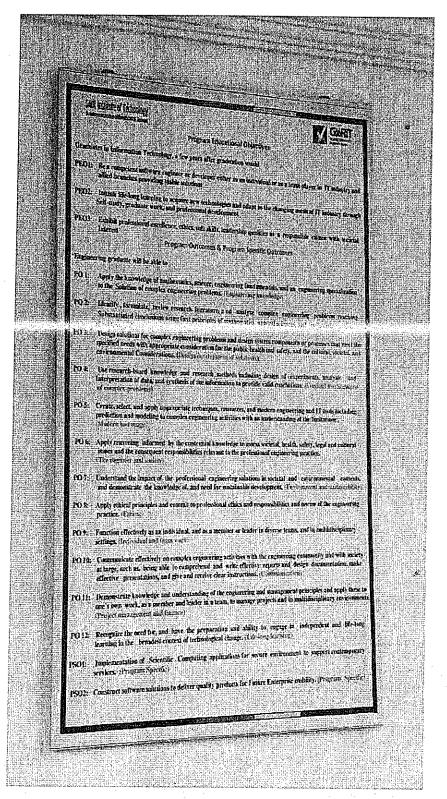


First Floor Class Rooms



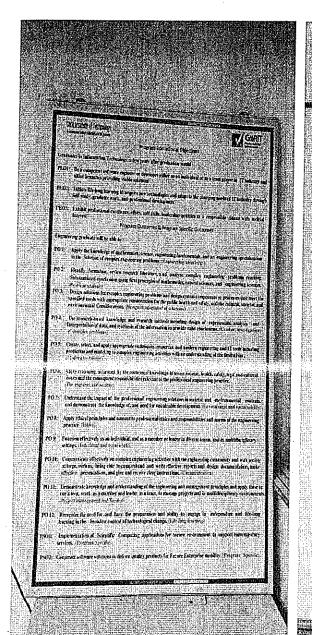
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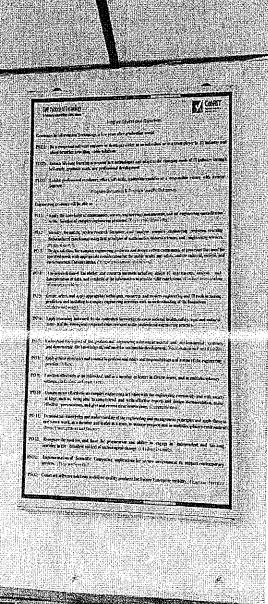
Ground Floor LABS



I- LAB

Wh





NT Lab

UNIX Lab

Wle