DEPARTMENT PROFILE

Godavari Institute of Engineering & Technology (A), Rajahmundry ranks among the top civil engineering colleges in Andhra Pradesh. The departmen of civil engineering established in the year 2008 with a sanctioned intake of 60 and currently 120. Post graduate course was started in the year 2012 with current intake of 18, with specialization in structural engineering.

Civil Engineering is a good choice for students who want to work directly with society and serve it. The primary purpose of any Civil Engineer is to provide various facilities and build necessary infrastructure to meet all social needs. Shelter, drinking water, and waste water management, as well a the movement of people and products via various forms of transportation such as roads, railways, Airways & Urban Transportation Systems, Management of Water Resources through Dams & Reservoirs are addressed by a Civil Engineer. Communication, Organizational, Leadership and Decision making skills are very important to civil engineer as every infrastructure projects requires huge man power and team management. Key ski that differentiates a Civil Engineer from others are emotional intelligence and Creativity with societal responsibility

The emphasis at GIET(A) is equally divided between classroom knowledge and practical applications. Academic courses are held in high regard by industry and research organizations. The goal of the teaching-learning process is for students to acquire solid technical and practical knowledge. In addition to the regular curriculum, add-on courses provide students with the skills they need to succeed.

Vision

To be the best Civil Engineering department in the region by means of good teaching, research and consultancy that serves the society

MISSION

1. Arranging field visits, guest lectures and interactive sessions with subject experts
2. Creating a strong bond between industrial needs and academic research outcomes
3. Undertaking collaborative projects which offer opportunities for long-term interaction between academia and Industry
4. Promoting the career of the faculty members by encouraging their research work
5. Adopting best teaching practices, imparting employability skills and empowering to become entrepreneurs in the trade

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POs

At the end of the programme, the student will be able to

PO-1. Apply knowledge of computing, mathematics, science and engineering basics related to Civil Engineering.

PO-2. Identify the problems and analyze the solutions by simulating, conducting experiments and interpreting data.

PO-3 Design civil engineering structures to meet industrial needs.

PO-4 Explore and investigate contemporary engineering problems and proposed solutions.

PO-5 Use latest techniques, skills and modern machinery for engineering practices.

PO-6 Propose civil engineering solutions to solve societal problems.

PO-7 Design sustainable systems in congruence with social and environmental issues.

PO-8 Practice professional ethics with legal awareness and societal responsibilities.

PO-9 Work as an individual or in a team to achieve targets.

PO-10 Articulate thoughts and ideas effectively at different levels.

PO-11 Manage financial and human resources for better execution of project.

PO-12 Participate in lifelong learning process.

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Dr. D.Venkateswarlu (M.Tech-IIT-KGP,Ph.D-JNTUK-Kakinada) is Head of the Department of Civil Engineering.

PEOs

Program Educational Objectives (PEOs)

Civil Engineering Graduates. after few years will be

PEO-1: Learning new technologies and/or undertaking higher education.

PEO-2: Leading a team of engineers in executing projects

PEO-3: An entrepreneur in civil engineering community and/or a leadership role exhibiting systematic approach to resolve societal problems with ethical values

PSOs

PSO 1 : Get proficiency in management and communication skills to become an entrepreneur.

PSO 2 : Ability to use earth sciences in execution of civil engineering projects.

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Description	Subject Teaching Methodology	L	T	P	C
Course Code	BUILDING MATERIALS AND CONSTRUCTION	3	1	0	3
Teaching	Total contact hours - 65				
Prerequisite (s)	Basics of civil structures, Material requirement, Units of different materials and finished items of civil work. Knowledge of technical terms in civil engineering in English language.				

Course Learning Objectives:

The objective of the course is to expose to the student to

a. The Various construction materials and products used in the building industry, their nature, characteristics, variety and applications.
b. Various components of civil building/ structure.
c. The various construction methods/ Techniques to build the structures with the above materials.

UNIT-I

Stones, Bricks and Tiles

Properties of building stones-relation to their structural requirements, classification of stones – stone quarrying - precautions in blasting, dressing of stone, composition of good brick earth, various methods of manufacturing of bricks. Characteristics of good tile – manufacturing methods, types of tiles. Uses of materials like Aluminium, Gypsum, Glass and Bituminous materials - their quality structural glazing.

→ CSE-Cyber Security
→ CSE-Data Science
→ EEE
→ ECE
→ Mechanical Engineering
→ Mining Engineering
→ Petroleum Engineering
→ Freshmen Engineering Department
→ MCA
→ MBA
→ Course M-Tech

halls. The Machines lab. Measurement Lab. Digital and Electronics Lab. Control and Power Electronics Lab. Power Systems Simulation Lab. Electrical Workshop. MATLAB. MiPower and PSCAD software has been installed in the Power Systems Simulation Lab. The department has qualified and dedicated faculty members with PhD & M.Tech qualification and is instrumental in building the career of the students.

Vision

To be a pioneering department in preparing students to compete globally in their profession. and making significant contribution to the society.

MISSION

Department of EEE will strive continuously

- To be the center of excellence with focus on advanced technology.
- To prepare the students for successful career based on strong moral and ethical foundations.
- Commitment to world class teaching, mentoring, intellectual stimulation, industry collaborations, and state of the art research.
- To train and educate students as Global Citizens to become entrepreneurs in their chosen field.

POs

PO1: Apply knowledge of mathematics. science and engineering in solving the problems of Electronics and Communication Engineering.

PO2: Analyze problems related to Electronics and Communication Engineering Field.

PO3: Design Systems and develop solutions for problems in the field of Electronics and Communication Engineering.

PO4:Identify. formulate and solve complex engineering systems

PO5: Employ modern tools for improving efficiency.

PO6: Understand the impact of engineering solutions in societal context

PO7: Propose environmentally sustainable solutions

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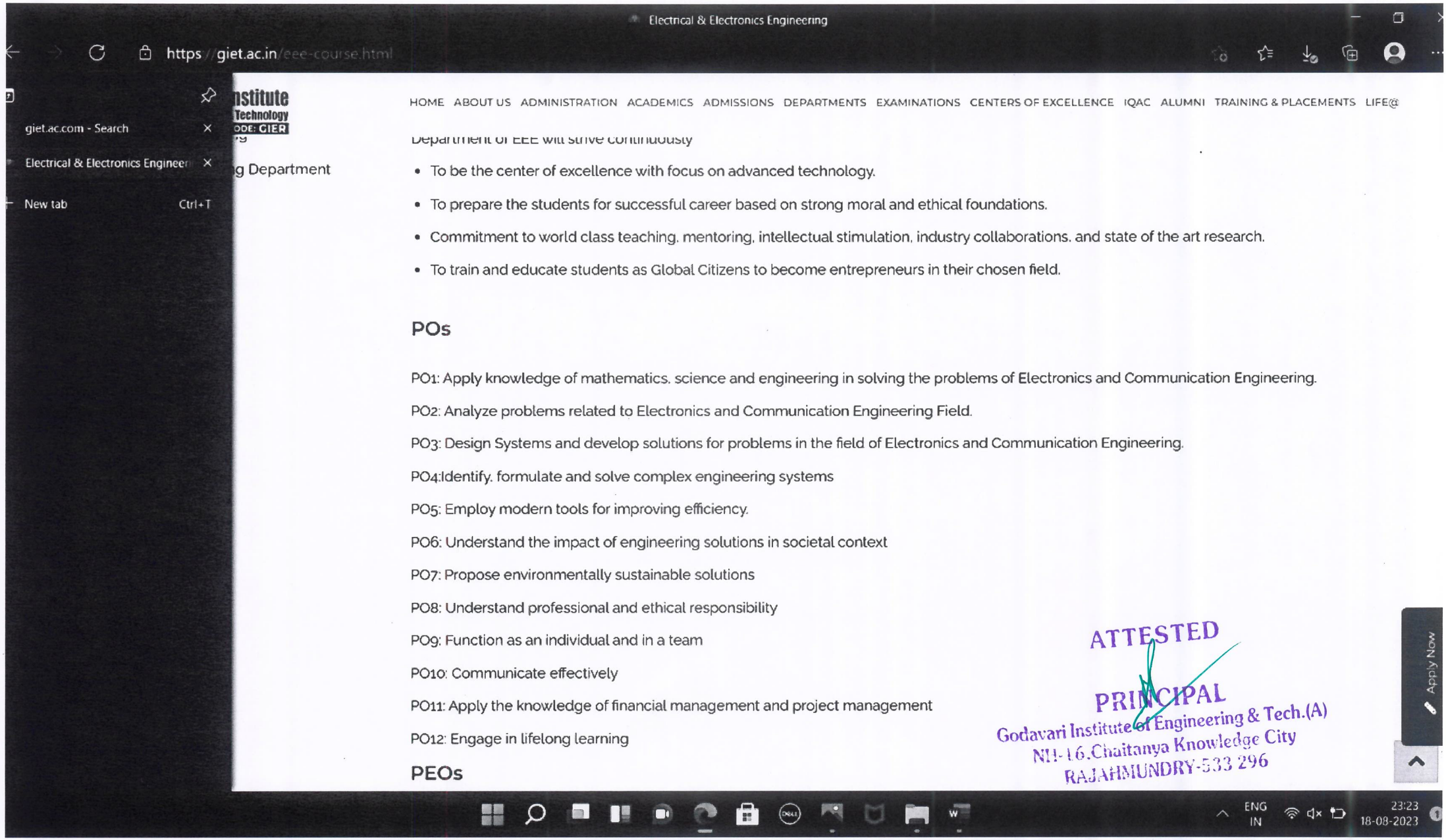
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Department of EEE will strive continuously
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• To prepare the students for successful career based on strong moral and ethical foundations.
• Commitment to world class teaching, mentoring, intellectual stimulation, industry collaborations, and state of the art research.
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PO7: Propose environmentally sustainable solutions
PO8: Understand professional and ethical responsibility
PO9: Function as an individual and in a team
PO10: Communicate effectively
PO11: Apply the knowledge of financial management and project management
PO12: Engage in lifelong learning
PEOs
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PO7: Propose environmentally sustainable solutions

PO8: Understand professional and ethical responsibility

PO9: Function as an individual and in a team

PO10: Communicate effectively

PO11: Apply the knowledge of financial management and project management

PO12: Engage in lifelong learning

PEOs

PEO-1: Engage in ongoing learning and professional development through self-study. continuing education in Electrical & Electronics Engineering and also in other allied fields.

PEO-2: Apply their engineering skills. exhibiting critical thinking and problem solving skills in professional engineering practices or tackle social. technical and business challenges.

PEO-3: Improve professional competence through life-long learning including higher education and research

PSOs

PSO1: Apply knowledge of power system configuration. electrical equipment and protection practices to the design and specification of electrical generation. transmission. distribution and utilization systems.

PSO2: To Design. analyze. test and evaluate the performance of the electrical machines and transformers.

PSO3: To develop the expertise in the technology associated with efficient conversion and control of electrical power by static means from available form to the required form.

PSO4: Graduates will able to work as research fellow and implement their knowledge in all electrical and electronics research organization of defense. renewable energy. mines. chemical and Power plants

Description	GRBT - 19	L	T	P	C
Course Code	Mathematics-I (Calculus & Algebra) Common to all branches of Engineering	3	0	0	3
Teaching	Total contact hours - 40				
Prerequisite(s)	Limits, continuity, Types of matrices				

Course Objectives:

- This course will illuminate the students in the concepts of calculus and linear algebra.
- To equip the students with standard concepts and tools at an intermediate to advanced level mathematics to develop the confidence and ability among the students to handle various real world problems and their applications.

Unit I: Matrix Operations and Solving Systems of Linear Equations **(10 hrs)**

Rank of a matrix by echelon form. solving system of homogeneous and non-homogeneous equations linear equations. Eigen values and Eigen vectors and their properties, Cayley-Hamilton theorem (without proof), finding inverse and power of a matrix by Cayley-Hamilton theorem, quadratic forms and nature of the quadratic forms, reduction of quadratic form to canonical forms by diagonalisation and orthogonal transformation.

Learning Outcomes:

At the end of this unit, the student will be able to

- solving systems of linear equations, using technology to facilitate row reduction determine the rank, eigenvalues and eigenvectors, diagonal form and different factorizations of a matrix; (L3)

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→ MBA
→ Course M-Tech

This association members are known for outstanding performance in technical paper contests. Mr Lal. ONGC Asset Manager KG Project. Rajahmundry was very much impressed with the activities of MEA. and donated books to the department library.

Vision

To be recognized as a Global Centre of Excellence in Mechanical Engineering Education. Research and Consultancy.

MISSION

Department of Mechanical Engineering strives to provide scope for all round development of the students and staff by engaging them in various activities such as:

- Participative learning so that students internalize their classroom learning practices.
- Student centric learning practices such as summary sessions. learn-ahead-of class. problem solving.
- Extensive practical courses to foster learning by observation.
- Exposing students. faculty and staff to various industrial practices and usage of modern tools to reinforce their classroom / laboratory learning.
- Sensitization towards importance of ethical practice. societal responsibility. leadership skills. entrepreneurship skills. communication skills and lifelong learning.

POs

After the Completion of the program, a successful student will be able to:

PO-1 Apply fundamental knowledge of Science. Mathematics and Engineering principles in solving problems related to Mechanical Engineering

PO-2 Apply Principles of design engineering. thermal engineering. production engineering and industrial engineering to arrive at a physically meaningful analysis of engineering problems.

PO-3 Present feasible designs for simple domestic and industrial Mechanical Engineering problems through drawings and other multimedia tools

POs

After the Completion of the program, a successful student will be able to:

PO-1 Apply fundamental knowledge of Science, Mathematics and Engineering principles in solving problems related to Mechanical Engineering

PO-2 Apply Principles of design engineering, thermal engineering, production engineering and industrial engineering to arrive at a physically meaningful analysis of engineering problems.

PO-3 Present feasible designs for simple domestic and industrial Mechanical Engineering problems through drawings and other multimedia tools to meet desired needs.

PO-4 Identify, formulate and solve Mechanical engineering problems through rigorous research methodology.

PO-5 Use drafting, modelling and Analysis software and /or hardware tools for meaningful and economically viable Engineering practice.

PO-6 Apply knowledge of Thermal, Design, Automation Technologies and Management principles to inter-disciplinary engineering problems and their societal implications.

PO-7 Understand and propose, wherever possible, environment-friendly and sustainable solutions to Mechanical Engineering problems.

PO-8 Expertise in following ethical code of conduct in professional activities.

PO-9 Use their analytical, teamwork, leadership skills in the development of products and provide solutions to problems sought by local and/or global community.

PO-10 Communicate verbally, textually and graphically to collaborate effectively towards engineering activities.

PO-11 Inspire confidence in team members to realize the goals of the organization and manage finances and sizeable projects by choosing the right blend of common sense solutions.

PO-12 Develop confidence and a sense of curiosity towards life-long learning to adopt to ever changing technologies. Working professionals in Mechanical Engineering field or other disciples to develop products, processes to solve Mechanical Engineering related or other problems for betterment of society.

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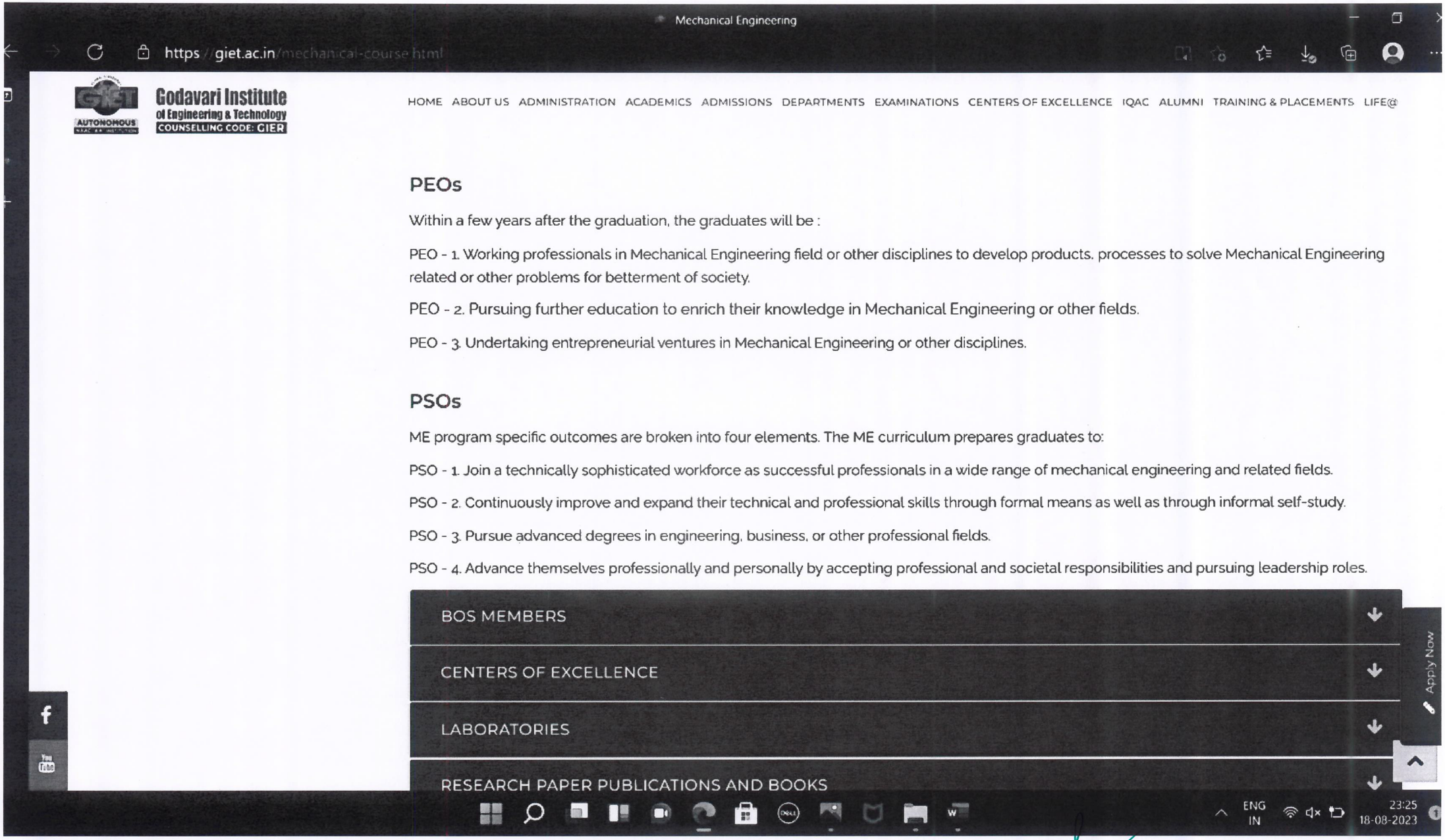
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PEOs
Within a few years after the graduation, the graduates will be :
PEO - 1. Working professionals in Mechanical Engineering field or other disciplines to develop products, processes to solve Mechanical Engineering related or other problems for betterment of society.
PEO - 2. Pursuing further education to enrich their knowledge in Mechanical Engineering or other fields.
PEO - 3. Undertaking entrepreneurial ventures in Mechanical Engineering or other disciplines.
PSOs
ME program specific outcomes are broken into four elements. The ME curriculum prepares graduates to:
PSO - 1. Join a technically sophisticated workforce as successful professionals in a wide range of mechanical engineering and related fields.
PSO - 2. Continuously improve and expand their technical and professional skills through formal means as well as through informal self-study.
PSO - 3. Pursue advanced degrees in engineering, business, or other professional fields.
PSO - 4. Advance themselves professionally and personally by accepting professional and societal responsibilities and pursuing leadership roles.
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Approved by AICTE, Accredited by NBA & NAAC 'A+' Grade, Recognized under 2(f) and 12(b) of UGC, Permanently Affiliated to JNTUK, Kakinada

DEPARTMENT OF MECHANICAL ENGINEERING

4 Years B.Tech. (Mechanical Engineering) Course Structure: (2019-20)

Regulation GRBT-20	**Godavari Institute of Engineering & Technology (Autonomous)**				I B.Tech. (I Semester)
Course Code XXXXXXX	**MATHEMATICS - I (ALL BRANCHES)**				
Teaching	Total contact hours - 48	L	T	P	C
Prerequisite(s): Types of matrices, Differentiation and Integration.		3	0	0	3

Course Objective:

- This course will illuminate the students in the concepts of calculus and linear algebra.
- To equip the students understand advanced level mathematics to develop the confidence and ability to handle real world problems and their applications.

Course Outcomes:

On Completion of the course, the students will be able to-	
CO1:	Transform the knowledge of solving system of linear equations using matrices.
CO2:	Evaluate nature of the Quadratic form.
CO3:	Acquire the knowledge maxima and minima of function of several variables
CO4:	Evaluate multiple integrals and their applications
CO5:	Understand and apply vector derivatives and vector integration theorems.

Syllabus:

Unit I: Matrix Operations and Solving Systems of Linear Equations **10 hrs**

Rank of a matrix by echelon form, solving system of linear homogeneous and non-homogeneous equations – Gauss elimination method, Eigen values and Eigen vectors and their properties, Cayley-Hamilton theorem (without proof), finding inverse and power of a matrix by Cayley-Hamilton theorem.

Unit II: Quadratic forms **8 hrs**

Quadratic forms and nature of the Quadratic forms, reduction of Quadratic form to canonical form by diagonalisation and orthogonal transformation.

Unit III: Partial differentiation and Applications **10 hrs**

Partial derivatives, total derivatives, chain rule, Homogeneous functions and Euler's theorem, change of variables, Jacobians, maxima and minima of functions of two variables,

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→ Mining Engineering
→ Petroleum Engineering
→ Freshmen Engineering Department
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Values (UHV),IPR & Patents. Programming with Python Lab,Problem solving & Programming in C. Data structure using C , Programming with Java Lab.

Vision

To establish a school of Electronics Centre of Excellence and to become a pioneer in higher learning and research to produce creative solutions to societal needs.

MISSION

To Promote the establishment of centre of excellence in niche technology areas to nurture the spirit of innovation and creativity among faculty and students.

POs

1 Apply knowledge of mathematics, science, and engineering in solving the problems of Electronics and Communication Engineering.

2. Analyze problems related to Electronics and Communication Engineering field

3. Design systems and develop solutions for problems in the field of Electronics and Communication engineering.

4. Identify, formulate, and solve complex engineering Systems

5. Employ modern tools for improving efficiency

6. Understand the impact of engineering solutions in societal context

7. Propose environmentally sustainable solutions

8. Understand professional and ethical responsibility

9. Function as an individual and in a team

10. Communicate effectively on complex activities with the engineering community and with society at large, such as, being able to comprehend and

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students.

POs

1 Apply knowledge of mathematics, science, and engineering in solving the problems of Electronics and Communication Engineering.

2. Analyze problems related to Electronics and Communication Engineering field

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5. Employ modern tools for improving efficiency

6. Understand the impact of engineering solutions in societal context

7. Propose environmentally sustainable solutions

8. Understand professional and ethical responsibility

9. Function as an individual and in a team

10. Communicate effectively on complex 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.

11. Apply the knowledge of financial management and project management.

12. Engage in life-long learning

PEOs

1. Acquire a strong background in basic science and mathematics.

2. Use modern tools in design and analysis of complex problems in electronics and communication engineering.

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7. Propose environmentally sustainable solutions

8. Understand professional and ethical responsibility

9. Function as an individual and in a team

10. Communicate effectively on complex 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.

11. Apply the knowledge of financial management and project management.

12. Engage in life-long learning

PEOs

1. Acquire a strong background in basic science and mathematics.

2. Use modern tools in design and analysis of complex problems in electronics and communication engineering.

3. Able to understand human, social, ethical and environmental context of their profession and contribute positively to the needs of individuals and society.

4. Exhibiting professionalism, communication skills, team work in their profession and adapt to current trends by engaging in lifelong learning.

PSOs

1. Analyze and design analog and digital circuits or systems for a given specification and function.

2. Implement functional blocks of hardware-software co-designs for signal processing and communication applications.

Regulation: GRBT-20	Godavari Institute of Engineering & Technology (Autonomous)	I B.Tech. (I Semester)			
Course Code XXXXXXX	MATHEMATICS - I (ALL BRANCHES)				
Teaching	Total contact hours - 48	L	T	P	C
Pre-requisite(s): Types of matrices, Differentiation and Integration.		3	0	0	3

Course Objective:

- This course will illuminate the students in the concepts of calculus and linear algebra.
- To equip the students understand advanced level mathematics to develop the confidence and ability to handle real world problems and their applications.

Course Outcomes:

On Completion of the course, the students will be able to-

CO1:	Transform the knowledge of solving system of linear equations using matrices.
CO2:	Evaluate nature of the Quadratic form.
CO3:	Acquire the knowledge maxima and minima of function of several variables
CO4:	Evaluate multiple integrals and their applications
CO5:	Understand and apply vector derivatives and vector integration theorems.

Syllabus:

Unit I: Matrix Operations and Solving Systems of Linear Equations **10 hrs**

Rank of a matrix by echelon form, solving system of linear homogeneous and non-homogeneous equations – Gauss elimination method, Eigen values and Eigen vectors and their properties, Cayley-Hamilton theorem (without proof), finding inverse and power of a matrix by Cayley-Hamilton theorem.

Unit II: Quadratic forms **8 hrs**

Quadratic forms and nature of the Quadratic forms, reduction of Quadratic form to canonical form by diagonalisation and orthogonal transformation.

Unit III: Partial differentiation and Applications **10 hrs**

Partial derivatives, total derivatives, chain rule, Jac

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Vision

To be a renowned department for imparting education in the specialized domain of Artificial Intelligence and Machine Learning and in moulding students into professional engineers.

MISSION

Develop professionals who are skilled in the area of artificial intelligence by imparting knowledge in cutting edge areas like image processing, speech recognition, natural language processing, knowledge representation, expert systems, machine learning, deep learning, etc.

Impart quality and value-based education and contribute towards innovation in these areas of computing.

Organize conferences, seminars, workshops, short term trainings, extra- and co-curricular activities in these areas.

Apply new advances using high performance computing hardware and software.

Establish centre of excellence in interdisciplinary areas of computing, especially in science and engineering applications.

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Program Outcomes (POs):

After completion of the programme, the under graduate in Computer Science and Engineering (Artificial Intelligence and Machine Learning) will be able to:

1: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

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.

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.

5: Create, select, and apply appropriate techniques, resources, and modern engineering and AIMLapplications including prediction and modeling to complex engineering activities with an understanding of the limitations

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.

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

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

9: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings

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.

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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.

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.

Program Educational Objectives (PEOs):

1. To apply appropriate theory, practices, and tools to provide solution for real-world challengesinvolving multidisciplinary/interdisciplinary areas.

2. To function effectively in the workplace for professional growth or pursue higher education in leading institutions in the specialized areas of Artificia Intelligence & Machine Learning.

3. To adapt, contribute and innovate new technologies in the key domains of Artificial Intelligence & Machine Learning for application in societal development, industrial growth and academic research.

Program Specific Outcomes (PSO)

PSO1. Apply the capabilities in the areas of Health Care, Education, Agriculture, Intelligent Transport,Environment,Smart Systems, Societal Needs, etc.and in other multi-disciplinary area of science and engineering domains.

PSO2. Demonstrate engineering practice learned through industry internship to solve live problems in various domains.

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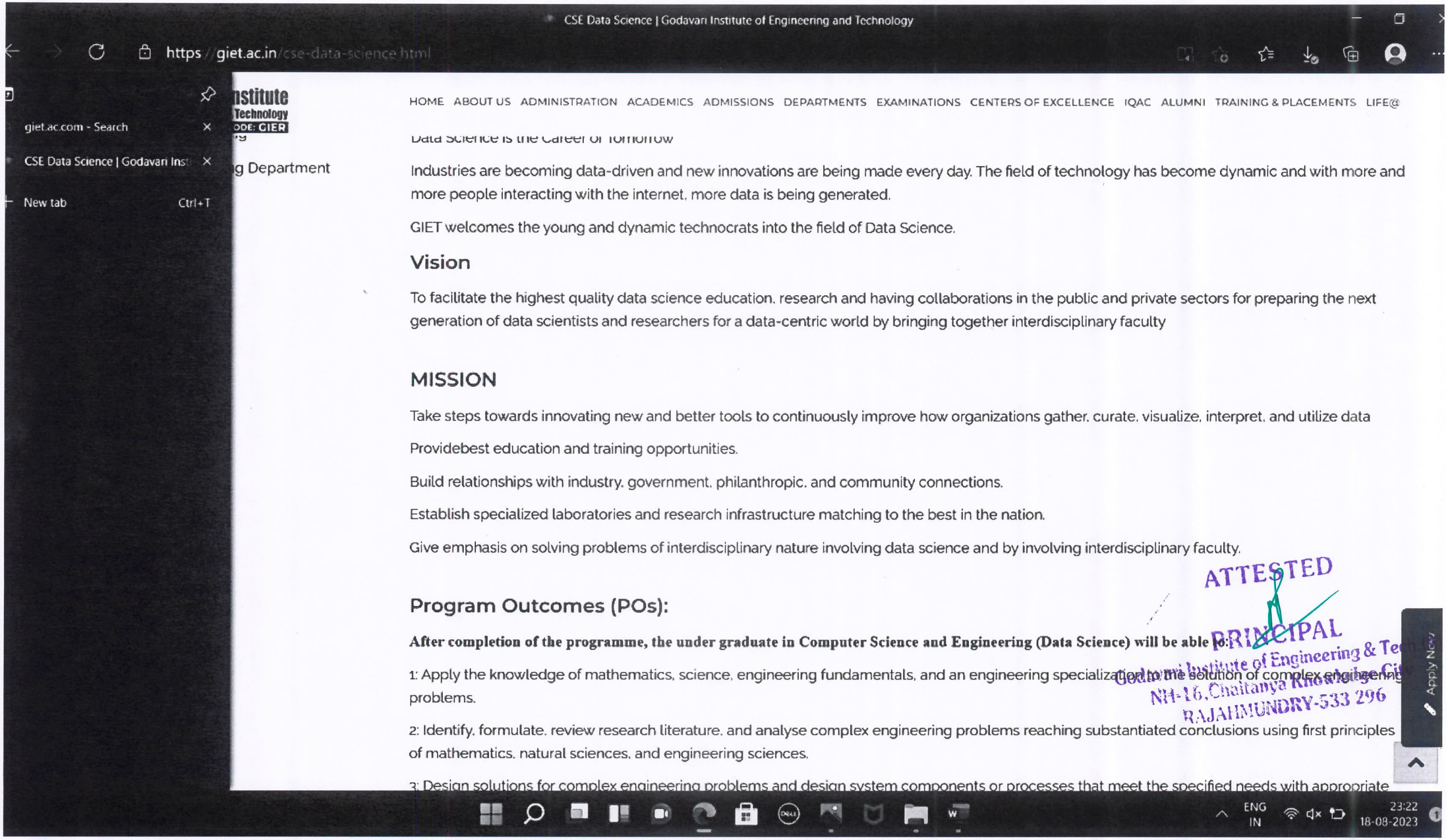
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Data Science is the career of tomorrow
Industries are becoming data-driven and new innovations are being made every day. The field of technology has become dynamic and with more and more people interacting with the internet, more data is being generated.
GIET welcomes the young and dynamic technocrats into the field of Data Science.
Vision
To facilitate the highest quality data science education, research and having collaborations in the public and private sectors for preparing the next generation of data scientists and researchers for a data-centric world by bringing together interdisciplinary faculty
MISSION
Take steps towards innovating new and better tools to continuously improve how organizations gather, curate, visualize, interpret, and utilize data
Providebest education and training opportunities.
Build relationships with industry, government, philanthropic, and community connections.
Establish specialized laboratories and research infrastructure matching to the best in the nation.
Give emphasis on solving problems of interdisciplinary nature involving data science and by involving interdisciplinary faculty.
Program Outcomes (POs):
After completion of the programme, the under graduate in Computer Science and Engineering (Data Science) will be able to:
1: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate
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Build relationships with industry, government, philanthropic, and community connections.

Establish specialized laboratories and research infrastructure matching to the best in the nation.

Give emphasis on solving problems of interdisciplinary nature involving data science and by involving interdisciplinary faculty.

Program Outcomes (POs):

After completion of the programme, the under graduate in Computer Science and Engineering (Data Science) will be able to:

1: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

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.

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.

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 limitation.

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.

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

8: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice

9: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings

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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.

11: Demonstrate knowledge and understanding of the engineering and management principles and apply the set to one's own work, as a member and leader in a team, to manage projects and in multi-disciplinary environments.

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.

Program Educational Objectives (PEOs):

1. Graduates of the program can have a globally competent skilled career in information Science domain.

2. To prepare students to surpass in knowledge Science with the technical skills and competence to hold out analysis and address basic wants of the society.

3. Graduates of the program can have bourgeois skills with a womb-to-tomb learning angle so as to support the expansion of economy of a rustic.

Program Specific Outcomes (PSO)

PSO1. To spot, formulate and solve real world complicated engineering issues visage in industries and /or throughout analysis work with due thought for the general public health and safety, within the context of cultural, societal, and environmental things.

PSO2. An ability to style and develop information Science strategies for analyzing huge datasets.

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CSE-CYBER SECURITY

DEPARTMENTS

- Automobile Engineering
- Civil Engineering
- CSE
- CSE-Artificial Intelligence & Machine Learning
- CSE-Cyber Security
- CSE-Data Science
- EEE
- ECE
- Mechanical Engineering
- Mining Engineering
- Petroleum Engineering
- Freshmen Engineering Department
- MCA
- MBA
- Course M-Tech

DEPARTMENT PROFILE

New areas of computing are evolving fast such as High-Performance Computing, Robotics, IoT, Augmented Reality, Virtual Reality, etc. in addition to the Artificial Intelligence, Machine Learning, Deep Learning, Cyber Security, Data Science, etc. The dept. encourages students to take up major projects in these areas.

The dept. is known for imbibing human values and feel of nationalism in addition the regular teaching-learning activities. Large number students undertake courses beyond syllabus and obtain certification.

Department of CSE maintains a library with a large collection of books to substantiate the requirements of students. There are other collections as well such as UG and PG project reports, copy of research publications, magazines, journals, course files, etc. in the dept. library

Vision

A commitment to effectively meet the needs of the society by establishing excellence and leadership in the educational, professional and research fields of cybersecurity at the regional and global level.

MISSION

Prepare professionals in both academic and industrial settings capable of leading, designing and developing various projects in different areas of cybersecurity.

To innovate in scientific research, to provide the required security services to individuals and contribute to the development of society.

To introduce best practices of Cyber and Information Security protection, integrate them seamlessly with Organizational processes.

Focus on processes, procedures, and policies required for the protection of confidential information.

Program Outcomes (POs):

After completion of the programme, the under graduate in Computer Science and Engineering (Cyber Security) will be able to:

1: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

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.

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.

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 limitation.

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.

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

8: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice

9: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

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.

11: Demonstrate knowledge and understanding of the engineering and management principles and apply the set to one's own work, as a member and leader in a team, to manage projects and in multi-disciplinary environments.

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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.

11: Demonstrate knowledge and understanding of the engineering and management principles and apply the set to one's own work, as a member and leader in a team, to manage projects and in multi-disciplinary environments.

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.

Program Educational Objectives (PEOs):

1. To be able to comprehend, understand and analyze computer science, cyber security problems and relate them with real life.

2. To impart exhaustive knowledge of cyber security to cater the industrial needs, excel in higher studies and innovation in related engineering and management fields.

3. To promote collaborative learning and spirit of team work through innovation or entrepreneurship in technology development, deployment and diverse cyber ethics.

Program Specific Outcomes (PSO)

PSO1. Develop secure software with vulnerability assessment, and security requirements, designed with the least privileges for the protection of digital applications.

PSO2. Evaluate the function of cyber security by identifying the tools and systems to minimize the risk to an organization's cyberspace.

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deemed to fall within the upstream sector of the oil and gas industry. Petroleum Engineering is a combination of innovation, exploration and expansion. This program trains students in petroleum engineering and focuses primarily on exploration and production of oil and gas. This stream provides a good knowledge of many other related disciplines such as geophysics, petroleum geology, drilling, economics, reservoir simulation, reservoir engineering and gas facilities engineering.

Vision

To be recognized as the best educational institute in the field of Petroleum Engineering with a strong foundation of social and professional ethics

MISSION

Our mission is

- To produce quality petroleum engineering graduates by providing them broad knowledge of its subjects, induce team building skills, and professional values
- To create, creative learning environment work, practical exposure of the subjects by giving case studies and conducting field visits.
- To enable the students to create and apply innovative technologies in drilling, production and reservoir engineering as well as efficiently utilize their knowledge and skills to find solutions of any problems related to petroleum industry.
- To improve overall acceptability of students in industry level.
- To improve productivity of supporting staff by encouraging them for skill up-gradation.

POs

After successful completion of the program, the graduates will be able to

PO1: Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

PO2: Identify, formulate, research literature and analyze complex engineering problems, reaching substantiated conclusions using first principles of mathematics, natural science and engineering sciences

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POs

After successful completion of the program, the graduates will be able to

PO1: Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

PO2: Identify, formulate, research literature and analyze complex engineering problems, reaching substantiated conclusions using first principles of mathematics, natural science and engineering sciences.

PO3: Design solutions for complex 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 problems using research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.

PO5: 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.

PO6: Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.

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

PO8: Apply ethical principle and commit to professional ethics and responsibilities and norms of engineering practices.

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

PO10: 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 clean instructions.

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

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

PO10: 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 clean instructions.

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

PO12: 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.

PEOs

Graduates of the program will

PEO 1: Be successful in diverse career paths in the petroleum or allied industries.

PEO 2: Enhance problem-solving skills that involve designing and conducting experiments, analyzing and interpreting data.

PEo 3: Continue professional development by active participation in professional society activities.

PEO 4: Display lifelong learning through continuing education or postgraduate education.

PSOs

PSO1: An ability to understand basic components of petroleum engineering operations.

PSO2: An ability to analyses, formulate and design to produce solution that meets specific needs of the industry.

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BOS MEMBERS

LABORATORIES

RESEARCH PAPER PUBLICATIONS AND BOOKS

- CSE
- CSE-Artificial Intelligence & Machine Learning
- CSE-Cyber Security
- CSE-Data Science
- EEE
- ECE
- Mechanical Engineering
- Mining Engineering
- Petroleum Engineering
- Freshmen Engineering Department
- MCA
- MBA
- Course M-Tech

institutes in the country. All the 2nd, 3rd & 4th year students will be undergoing internship/summer training during their summer vacations which will make them understand the practical applications of mining. Curriculum focuses on producing engineers in the field of mining with best technical and practical knowledge in view of industry requirements. Experienced Faculty from various NITs, IITs and other reputed universities are guiding the students in right direction for the progress of the careers of the individual students.

Vision

To be recognised as a National Centre of Excellence in Mining Engineering to cope with the challenges of sustainable development in Mining industry.

MISSION

1. To provide high quality programmes supported by up-to- date curriculum and practical courses.
2. We prepare students to understand eco-friendly and sustainable development in mining industry.
3. Extensive practical courses to foster learning by observation.
4. Exposing students to various mining projects to reinforce their classroom / laboratory learning.
5. Sensitization towards ethical, social responsibilities, leadership, entrepreneurship, communication skills and lifelong learning.

POs

Our graduates will.

PO-1 Apply skills/techniques to solve the problems of projects.

PO-2 Critically analyze and interpret the data to solve project problems.

PO-3 Plan and design the mine layouts to evaluate the project performance and productivity.

PO-4 Manage & execute the project plans to meet goals of economic, environmental, social, political, ethical, health and safety.

PO-5 Apply latest skills/techniques of computer software, modern instrumentation, novel technologies in engineering activities.

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POs

Our graduates will.

PO-1 Apply skills/techniques to solve the problems of projects.

PO-2 Critically analyze and interpret the data to solve project problems.

PO-3 Plan and design the mine layouts to evaluate the project performance and productivity.

PO-4 Manage & execute the project plans to meet goals of economic, environmental, social, political, ethical, health and safety.

PO-5 Apply latest skills/techniques of computer software, modern instrumentation, novel technologies in engineering activities.

PO-6 Comprehend the efficiency of mines, allied industries and suggest solutions in improving the economics, safety and optimization.

PO-7 Comprehend the professional and ethical values.

PO-8 Comprehend need for higher learning and engage in life-long learning.

PO-9 Make effective communication in verbal and written forms with confidence.

PO-10 Demonstrate leadership in project planning/ execution to obtain quality and quantity.

PO-11 Demonstrate teamwork with other teams of inter-disciplinary department.

PO-12 Excel and improvise their skills under challenging circumstances at their projects.

PEOs

Our graduates will.

PEO-1 Plan and design mine project operations.

PEO-2 Apply engineering skills/techniques to manage mining operations effectively and able to solve Mining engineering problems.

PEO-3 Be able to design/execute all project operations of surface and underground mining projects in an eco-friendly manner.

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PO-12 Excel and improvise their skills under challenging circumstances at their projects.

PEOs

Our graduates will.

PEO-1 Plan and design mine project operations.

PEO-2 Apply engineering skills/techniques to manage mining operations effectively and able to solve Mining engineering problems.

PEO-3 Be able to design/execute all project operations of surface and underground mining projects in an eco-friendly manner.

PEO-4 Be able to analyze and evaluate the economics of mining projects for sustainable development.

PEO-5 Apply the skills/techniques in project management, execution, and decision-making.

PEO-6 Execute/ apply engineering principles in the exploration, exploitation and reclamation of Mineral resources.

PSOs

Our Graduates will.PSO - 2. Ability to pursue higher education and research.

PSO-1 Develop strong skills in systematic planning, developing, implementing in different domains for betterment of life.

PSO-2 Plan and operate mining projects by using various engineering/technological tools to meet the volatile needs of the industry.

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BOS MEMBERS

LABORATORIES

RESEARCH PAPER PUBLICATIONS AND BOOKS

Regulation GRBT-19	Godavari Institute of Engineering & Technology (Autonomous)	I B.Tech. I Sem (1 semester)			
Course Code XXXXX	COMMUNICATIVE ENGLISH –I (common for all the branches)				
Teaching	Total contact hours - 64	L	T	P	C
Prerequisite(s): **Learner should be equipped with basic language and communication skills like Reading, Writing, Listening and Speaking .**		3	-	-	3

Course Objective: The course aims

1. To focus on appropriate reading strategies for comprehension of various academic texts and authentic materials
2. To impart effective strategies for good writing and demonstrate the same in summarizing, writing well organized essays, record and report useful information
3. To Provide knowledge of grammatical structures and vocabulary and encourage their appropriate use in speech and writing

Course Outcomes:

On Completion of the course, the students will be able to-	
CO1:	Apply their learning in different fields and can serve the society accordingly.
CO2:	Identify safety measures against different kinds of accidents at home and also in the Workplace.
CO3:	Experiment the usefulness of animals for the human society.
CO4:	Appraise writing skills that is required for professional development
CO5:	Experience the innvative methods of using langauge in the professional context

Syllabus:

UNIT-I **(14H)**

READING: Detailed Text: Exploration- A Proposal to Girdle the Earth (Excerpt) by Nellie Bly, from **English All Round**: Communication Skills for Under Graduate Learners by ORIENT BLACK SWAN.

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M.TECH

DEPARTMENTS

- Automobile Engineering
- Civil Engineering
- CSE
- CSE-Artificial Intelligence & Machine Learning
- CSE-Cyber Security
- CSE-Data Science
- EEE
- ECE
- Mechanical Engineering
- Mining Engineering

DEPARTMENT PROFILE

A Spirit of Entrepreneurship in education, scholarly activity and participation in engineering practice infuse GIET's Post graduate Programmes. The exclusive disciplines offered in GIET offer research oriented experience. The students are actively involved in faculty-directed research and independent study projects leading to M.Tech degrees in the areas of specialization. The faculty drawn for these programmes represents eminent professors from IITs & strong highly qualified scholars from all over the country, and from different backgrounds. The makes study of GIET much more exciting & interesting.

1. CAD/CAM
2. Computer Science & Engineering
3. Power Systems(High voltage)
4. Structural Engineering
5. VLSI & Embedded Systems

Vision

MISSION

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CO3: To know foreign direct Investment (FDI), modes of foreign investment, international

cash management, capital structure decisions and project financing.

CO4: To know the types of risk in multinational corporations, hedging.

CO5: To know the types of taxes at the international level, tax treaties.

CO6: The students can also emerge as good traders of currency futures as they will come to

know about hedging, speculation and various international corporate taxation

procedures

HR

Course: 17400463A-GLOBAL HUMAN RESOURCE MANAGEMENT

Course Outcome:

CO1: Overview of HRM and GHRM

CO2: Knowledge of HR issues and concern of cross cultural theories and negotiations

CO3: Demonstrate the knowledge of Domestic and International recruitment and training

process

CO4: Apply the knowledge for HRD

CO5: Gain knowledge of Employees' compensation

MASTER OF BUSINESS ADMINISTRATION (MBA)

DEPARTMENTS

- Automobile Engineering
- Civil Engineering
- CSE
- CSE-Artificial Intelligence & Machine Learning
- CSE-Cyber Security
- CSE-Data Science
- EEE
- ECE
- Mechanical Engineering
- Mining Engineering

DEPARTMENT PROFILE

Of late India has been very rapidly changing in corporate sector. in addition to the gross change in marketing arena. There is huge demand for managerial people from every nook and corner. A repeated word from corporate circles is 'lots of talented people are required'. Hence. GIET has come forward to supply dynamic. sharp and industrious managerial personnel to industry.

Vision

To be a centre of excellence for management education and research to nurture young minds into professionals with values. passion. integrity and entrepreneurial spirit.

MISSION

- To Offer enriching learning experience.
- To Provide cutting edge paradigms to the aspiring Managers.
- To Highlight the contemporary Management practices and enlighten the budding Managers.
- To Adopt Innovative Approach in introducing business world to the students.

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DEPARTMENTS

DEPARTMENT PROFILE

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- To Provide cutting edge paradigms to the aspiring Managers.
- To Highlight the contemporary Management practices and enlighten the budding Managers.
- To Adopt Innovative Approach in introducing business world to the students.
- To Influence the students with uncompromising Human Values so as to make them as ideal Corporate Citizens.

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SHORT TERM GOALS

- To create Entrepreneurship Development Cell to generate young Entrepreneurs. To conduct Industry relevant Training Programmes for students so that they are ready for Industry.
- To enhance Training and Placement activities so that the Department achieves 90% of employment to all eligible candidates.
- To work closely with Industry in developing curriculum commensurate with Industry needs.

- To be trust worthy.

POs

- To Offer enriching learning experience.
- To Provide cutting edge paradigms to the aspiring Managers.
- To Highlight the contemporary Management practices and enlighten the budding Managers.
- To Adopt Innovative Approach in introducing business world to the students.
- To Influence the students with uncompromising Human Values so as to make them as ideal Corporate Citizens.
- To develop ideas and ideologies to inspire and impress the business world with effective personality and communication skills.
- To be proactive to critical situations and changes of business management.
- To be responsive for the difficulties of the society with possible solutions.
- To sustain in competition with optimal performance.
- To practice knowledge management for potential enrichment.
- To make continuous improvement and practice Kaizen.
- To execute feasibility study for effective decision making.
- To contribute to business consultancy.
- To be a Professional with care for, concern and consistency in performance
- To be trust worthy.

PEOs

- To instill clear theoretical understanding of management concepts

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- To be trust worthy.

PEOs

- To instill clear theoretical understanding of management concepts.
- To Focus more on upcoming trends of management with institute-industry interface.
- To incorporate the sense of continuous learning and problem solving skills in students.
- To develop a tendency of experimenting new and broadening the scope of management applications.
- To rejuvenate the young minds with the spirit of entrepreneurship and leadership.
- To make students partners in corporate culture through business simulation.
- To foster the social responsibility attitude through vibrant activities, workshops and social interactions.
- To make students challenge the boundaries with clarity in thought, originality in approach and accuracy in action.
- To develop the project management skills among the students with the efficient tool of mentorship.
- To create the environment which enhances the corporate etiquettes and effective communication.
- To motivate students through 360 degree development programmes for Total Quality Management (TQM).

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INFRASTRUCTURE
FACULTY DETAILS
BOS MEMBERS
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Regulation GRBT-20	Godavari Institute of Engineering & Technology (Autonomous)	I B.Tech. II Sem (2 semester)			
Course Code	PYTHON PROGRAMMING CSE				
Teaching	Total contact hours - 48	L	T	P	C
Prerequisite(s): Knowledge of any programming language		3	0	0	3

Course Objective(s):

- Acquire knowledge on different data structures technique.
- To develop solutions for problems demonstrating usage of control structures, modularity, I/O and other standard language constructs.

Course Outcomes:

On completion of the course, the students will be able to-

CO-1: Handle different data structures.

CO-2: understand the use of control statements, function overloading, operator overloading in real time application

CO-3: Implement files using various file operations.

UNIT-1

Introduction to Python: History Features, Installing Python, Running Python, Comments, Operators, Identifiers, Variables, Indentation, Data Types: Initializing values to variables, Multiple assignment, Multiple statement in a single line.

UNIT-2

Types and Expressions: Types: Integers, Booleans, Strings. Expressions and order of evaluation control flow of Conditional Statements: if-statement, if-else statement, Nested-if statement, if-elif-else statement, Loops: for, while, Nested loops, Break statement, continue statement and Pass statement.

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UNIT-3

Data Structures and Files: Data structures: Lists- operations, Slicing, Inbuilt Functions, Dictionaries,

→ Freshmen Engineering Department
→ MCA
→ MBA
→ Course M-Tech

students and presently with strength of 120. The department is excelled with good faculty and well equipped laboratories. It has an association named MACRAME which encourages students to take part in various events. "OMNIS" an annual magazine has released by the department..

Vision

To achieve and evolve as a centre of academic excellence and research in the field of computer applications.

MISSION

To realize the vision. the Dept. of Computer Applications will take up following activities:

- Preparing students on latest trends in techniques by doing suitable changes in syllabus and maintaining very good academic report.
- Providing the students with in-depth understanding of technology by establishing specialized labs.
- Conducting trainings in high tech areas of computing as well as providing an environment of deep learning leading to innovative projects.
- Maintaining strong liaison with industry and creating an environment of competition for students.
- Putting efforts in strengthening student in all aspects like concern for society, better citizens, ethics and moral values. while respecting tradition.

POs

PO-1 Apply mathematical foundation. computing and domain knowledge for the conceptualization of computing model of problems.

PO-2 Identify. analyze the computing requirements of a problem and Solve them using computing principles.

PO-3 Design and Evaluate a computer based system. components and process to meet the specific needs of applications.

PO-4 Use current techniques and tools necessary for complex computing practices.

PO-5 Use suitable architecture or platform on design and implementation with respect to performance.

PO-6 CCommit to cyber regulations and responsibilities in Professional and computing practices.

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POs

PO-1 Apply mathematical foundation, computing and domain knowledge for the conceptualization of computing model of problems.

PO-2 Identify, analyze the computing requirements of a problem and Solve them using computing principles.

PO-3 Design and Evaluate a computer based system, components and process to meet the specific needs of applications.

PO-4 Use current techniques and tools necessary for complex computing practices.

PO-5 Use suitable architecture or platform on design and implementation with respect to performance.

PO-6 CCommit to cyber regulations and responsibilities in Professional and computing practices.

PO-7 Take up societal, environmental, health, legal, ethical issues within local and global contexts and the consequential responsibilities relevant to professional practice.

PO-8 Identify opportunities and use innovative ideas to create value and wealth for the betterment of the individual and society.

PO-9 Use knowledge to analyze, interpret the data and synthesis the information to derive valid conclusions using research methods.

PO-10 Demonstrate in developing applications with required domain knowledge.

PEOs

Within a few years after the graduation, the graduates will be :

PEO-1 Working in key-roles developing and identifying computer applications which will increase the efficiency of organizations and/or

PEO-2 Pursuing entrepreneurial ventures in information technology areas or in other allied areas and/or

PEO-3 Conducting research in frontier areas of information technology either in eminent organizations or in premier educational institutions

PSOs

The MCA curriculum prepares graduates to:

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PEOs

Within a few years after the graduation. the graduates will be :

PEO-1 Working in key-roles developing and identifying computer applications which will increase the efficiency of organizations and/or

PEO-2 Pursuing entrepreneurial ventures in information technology areas or in other allied areas and/or

PEO-3 Conducting research in frontier areas of information technology either in eminent organizations or in premier educational institutions

PSOs

The MCA curriculum prepares graduates to:

PSO - 1. Join a technically sophisticated workforce as successful professionals in a wide range of computing and related fields.

PSO - 2. Continuously improve and expand their technical and professional skills through formal means as well as through informal self-study.

PSO - 3. Advance themselves professionally and personally by accepting professional and societal responsibilities and pursuing leadership roles.

BOS MEMBERS
LABORATORIES
RESEARCH PAPER PUBLICATIONS AND BOOKS
PATENTS
AWARDS RECEIVED BY FACULTY MEMBERS
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Regulation GRBT-19	**Godavari Institute of Engineering & Technology (Autonomous)**	I B.Tech. I Sem (1 semester)			
Course Code XXXXX	**COMMUNICATIVE ENGLISH –I** (common for all the branches)				
Teaching	Total contact hours - 64	L	T	P	C
Prerequisite(s): **Learner should be equipped with basic language and communication skills like Reading, Writing, Listening and Speaking .**		3	-	-	3

Course Objective: The course aims

1. To focus on appropriate reading strategies for comprehension of various academic texts and authentic materials
2. To impart effective strategies for good writing and demonstrate the same in summarizing, writing well organized essays, record and report useful information
3. To Provide knowledge of grammatical structures and vocabulary and encourage their appropriate use in speech and writing

Course Outcomes:

On Completion of the course, the students will be able to-	
CO1:	Apply their learning in different fields and can serve the society accordingly.
CO2:	Identify safety measures against different kinds of accidents at home and also in the Workplace.
CO3:	Experiment the usefulness of animals for the human society.
CO4:	Appraise writing skills that is required for professional development
CO5:	Experience the innvative methods of using langauge in the professional context

Syllabus:

ATTESTED

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UNIT-I **(14H)**

READING: Detailed Text: Exploration- A Proposal to Girdle the Earth (Excerpt) by Nellie Bly, from **English All Round**: Communication Skills for Under Graduate Learners by ORIENT BLACK SWAN.

Non-Detailed Text: 'An Ideal Family' by Katherine Mansfield from 'Passages: A Course of