VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

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Vision, Mission, PEOs, POs and PSOs

PRINCIPAL
Vignan's Institute of Management & Technology For Women
Kondapur(V),Ghatkesar(M),Medchal-Malkajgiri(Dt)-501301
Telangana State

VISION AND MISSION

INSTITUTE VISION

To empower female students with professional education using creative & innovative technical practices of global competence and research aptitude to become competitive engineers with ethical values and entrepreneurial skills

INSTITUTE MISSION

1. To impart value based professional education through creative and innovative teaching learning process to face the global challenges of the new era technology.

2. To inculcate research aptitude and to bring out creativity in students by imparting engineering knowledge imbibing interpersonal skills to promote innovation, research and entrepreneurship.

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1

DEPARTMENT VISION MISSION

ELECTRONICS AND COMMUNICATION ENGINEERING

Vision:

To transform the students into technologically competent professionals, with abilities to address the societal challenges of the time through innovative technical practices in electronics & communication engineering

Mission:

M1:To foster inquisitive-driven advanced knowledge building among students for reinforcing the domain knowledge, develop capabilities, skills and solve complex engineering problems

M2:To prepare industry-ready graduates for global Electronics as well as communication based engineering companies by conducting training programs, workshops and industry visits.

M3:To build entrepreneurship and leadership qualities, research aptitude among students for the contribution of economic and technological development in cutting edge technologies in the national and as well as in the global arena.

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COMPUTER SCIENCE AND ENGINEERING

Vision:

To achieve value oriented and quality education with excellent standards on par with evolving technologies and produce technocrats of global standards with capabilities of facing futuristic challenges.

Mission:

To enrich advanced knowledge among students for reinforcing the domain knowledge and develop capabilities and skills to solve complex engineering problems.

To impart value based professional education for a challenging career in Computer Science and Engineering.

To transform the graduates for contributing to the socio-economic development and welfare of the society through value based education

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DATA SCIENCE

Vision:

To be a leading department of Data Science that leverages cutting-edge technologies, techniques, and tools to transform data into actionable insights, and deliver innovative solutions that drive business growth, social impact, and scientific discovery.

Mission:

DM1: Advancing the state-of-the-art in Data Science through cutting-edge research that generates novel algorithms, models, and tools for analyzing and visualizing complex data.

DM2: Providing rigorous and practical training in Data Science to equip students with the skills, knowledge, and experience required to excel in the field

DM3: Collaborating with industry partners and government agencies to apply Data Science to real-world problems and deliver innovative solutions that create value for businesses, communities, and society at large.

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ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Vision:

To be a leading department of Artificial Intelligence and Data Science that provides cutting-edge education, research, and innovation in the field, and prepares graduates to become globally competitive professionals, researchers, and entrepreneurs.

Mission:

DM1: Providing comprehensive education and training in the principles, tools, and applications of Artificial Intelligence and Data Science, to prepare graduates for a wide range of careers and research opportunities.

DM2: Conducting cutting-edge research in the field of Artificial Intelligence and Data Science, including the development of new algorithms, models, and platforms for data analysis, machine learning, and deep learning.

DM3: Fostering collaborations and partnerships with industry, government, and academia to promote the transfer of technology, innovation, and entrepreneurship.

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5

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Vision:

To be a globally recognized center of excellence in education, research, and innovation in Artificial Intelligence and Machine Learning.

Mission:

DM1: To Providing a comprehensive curriculum that covers foundational concepts and advanced topics in AI and machine learning, and emphasizes hands-on experience and project-based learning.

DM2: Encouraging and supporting cutting-edge research in AI and machine learning, and fostering collaborations with industry and academia.

DM3: Providing opportunities for professional development, networking, and lifelong learning, and supporting our alumni in their continued success in the field of AI and machine learning.

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INFORMATION TECHNOLOGY

Vision:

To be a centre of excellence in core Information Technology and multidisciplinary learning and research, where students get trained in latest technologies for professional and social growth.

Mission:

M1: To enable the students acquire skills related to latest technologies in IT through practice-oriented teaching and training.

M2: To mould young graduates to unleash their abilities for innovation and demands of the industry.

M3: To implant innovative thinking through collaborative research.

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PROGRAM OUTCOMES

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

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

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

PO4: Conduct Investigations of Complex Problems: 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.

PO5: Modern Tool Usage: 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: The Engineer and Society: 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.

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

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

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

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

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

PO12: Life-Long Learning: Recognize the need for and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

PROGRAM EDUCATIONAL OBJECTIVES AND PROGRAM SPECIFIC OUTCOMES

ELECTRONICS AND COMMUNICATION ENGINEERING

Program Educational Objectives (PEOs):

PEO1: To develop the students ability on technical concepts to design, simulate, and synthesize various electronic and communication circuits & systems for their research advancements.

PEO2: To impart analytical skills and to prepare the students excel in applying state of the art hardware and software tools to solve complex engineering problems for R&D, Industry and societal requirements.

PEO3: To prepare students to work in teams, take independent decisions and integrate engineering issues for successful career in multi-disciplinary environment.

PEO4: To promote entrepreneurship among the students to become successful entrepreneurs with professional ethics.

Program Specific Outcomes (PSOS):

PSO1:1. Professional Skills Ability: Identify, design electronics & communication circuits and conduct experiments with electronics & communication systems, analyze and interpret data, formulate and solve electronics & communication engineering problems.

PSO2: Industrial Skills Ability: Design digital and analog systems, algorithms, firm ware, modern engineering tools, software, etc. as per needs and specifications and work in laboratory and multidisciplinary tasks.

PSO3: Ethical and Social Responsibility: Communicate effectively in both verbal and written form, will have knowledge of professional and ethical responsibilities and will show the understanding of impact of engineering solutions on the society and also will be aware of contemporary issues

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10

COMPUTER SCIENCE AND ENGINEERING

Program Educational Objectives:

PEO1: To acquire logical and analytical skills in core areas of Computer Science & Information Technology.

PEO2: To adapt new technologies for the changing needs of IT industry through self-study, graduate work and professional development.

PEO3: To demonstrate professional and ethical attitude, soft skills, team spirit, leadership skills and execute assignments to the perfection.

Program Specific Outcomes:

PSO1: Software Development Ability: To grasp the software development life cycle of software systems and possess competent skill and knowledge of software design process.

PSO2: Industrial Skills Ability: Ability to interpret fundamental concepts and methodology of computer systems so that students can understand the functionality of hardware and software aspects of computer systems.

PSO3: Ethical and Social Responsibility: Communicate effectively in both verbal and written form, will have knowledge of professional and ethical responsibilities and will show the understanding of impact of engineering solutions on the society and also will be aware of contemporary issues.

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11

DATA SCIENCE

Program Educational Objectives:

PEO1: To demonstrate professional excellence in Data Science by applying their knowledge and skills to solve complex problems and create value for businesses, organizations, and society.

PEO2: To adapt continuous learning and professional development to stay abreast of the latest developments in Data Science and related fields.

PEO3: To inculcate ethical and social responsibility by upholding high standards of professional conduct and contributing to the well-being of society.

Program Specific Outcomes:

PSO1: Apply knowledge of mathematics, statistics, computer science, and domain-specific expertise to analyze complex data and derive insights that support decision-making.

PSO2: Develop and implement data-driven models, algorithms, and visualization techniques to solve real-world problems in diverse domains, such as finance, healthcare, education, and social sciences.

PSO3: Use modern data management systems, software tools, and platforms to collect, store, retrieve, process, and analyze large volumes of data efficiently and effectively. Apply ethical, legal, and social considerations to data science projects and uphold professional standards of conduct and confidentiality.

ARITIFICIAL INTELLIGENCE AND DATA SCIENCE

Program Educational Objectives :

PEO1: To demonstrate technical excellence in Artificial Intelligence and Data Science by applying their knowledge and skills to develop and implement advanced algorithms, models, and platforms for data analysis, machine learning, and deep learning.

PEO2: To acquire continuous learning and professional development to stay abreast of the latest developments in Artificial Intelligence and Data Science and related fields, and to advance their careers.

PEO3: To exhibit professionalism and leadership skills by upholding high ethical standards and contributing to the development and dissemination of best practices in Artificial Intelligence and Data Science.

Program Specific Outcomes:

PSO1: Ability to develop and implement data-driven models, algorithms, and visualization techniques using state-of-the-art tools and platforms for Artificial Intelligence and Data Science to solve real-world problems in diverse domains.

PSO2: Ability to advanced techniques such as machine learning, deep learning, and natural language processing to design and develop intelligent systems that can learn from data and adapt to changing environments.

PSO3: Collaborate effectively in interdisciplinary teams to design, develop, and deploy Artificial Intelligence and Data Science solutions that meet business, social, and scientific requirements. Conduct independent research in Artificial Intelligence and Data Science, and contribute to the development of new techniques, algorithms, and systems for the field.

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Telangana State

13

ARITIFICAL INTELLIGENCE AND MACHINE LEARNING

Program Educational Objectives:

PEO1: Exhibit the knowledge of artificial intelligence and machine learning concepts to solve complex problems in diverse industries.

PEO2: To implement necessary skills to design, develop, and implement intelligent systems that can analyze large datasets, learn from them, and make informed decisions.

PEO3: Apply deep understanding of ethical considerations in the development and deployment of AI systems, including privacy, security, and fairness.

Program Specific Outcomes :

PSO1: Engineering Fundamentals: Ability to apply mathematical foundations, algorithms, and statistical models to analyze and solve complex problems in AI and machine learning.

PSO2: Industrial Skills Ability: Ability to design and develop AI and machine learning models using various tools and programming languages such as Python, R, and TensorFlow., Ability to evaluate the performance of AI and machine learning models using various performance metrics and data visualization techniques.

PSO3: Ethical and Social Responsibility: Understanding of the ethical, social, and legal issues associated with the development and deployment of AI and machine learning systems. Ability to work collaboratively in interdisciplinary teams to design and implement AI and machine learning solutions to real-world problems.

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INFORMATION TECHNOLOGY

Program Educational Objectives:

PEO1: To empower students with substantial knowledge in mathematics, scientific and primitive engineering concepts required to solve computing problems and pursue higher studies.

PEO2: To equip students with profound knowledge about the vital information technology and allied engineering concepts to deal with industry oriented problems and develop novel products.

PEO3: To inculcate professional-social ethics, team work in students and acquaint them with requisite technical and managerial skills to attain a successful career.

Program Specific Outcomes:

PSO1: Apply standard practices for software project development using hands-on programming skills for analysis, design and creation of software solutions.

PSO2: Design networks and also aware of network security related issues

PSO3: Create and maintain database for providing back-end support to IT applications.

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