



**VIGNAN'S INSTITUTE OF MANAGEMENT AND
TECHNOLOGY FOR WOMEN**



Department of Information Technology

ITSPECTRUM

IT NEWS LETTER

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Vision of the Department

“To impart technical education producing competent and socially responsible engineering professionals in the field of Information Technology”.

Mission of the Department

- M1: To make the teaching–learning process more engaging, effective, and stimulating.
- M2: To impart strong foundational knowledge in sciences and information technology while fostering a positive attitude.
- M3: To create a conducive environment for developing skills and technologies aligned with industry needs.

Program Educational Objectives

- PEO1: Apply knowledge of mathematics and information technology to Analyze, design, and implement effective solutions for real-world problems in core as well as multidisciplinary domains.
- PEO2: Communicate effectively, work collaboratively in teams, uphold professional ethics, and leverage computing technologies for the betterment of society.
- PEO3: Pursue professional growth through lifelong learning, continuous skill enhancement, or higher education.

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 awareness of network security related issues.
- PSO3: Develop IT Application services with the help of different current engineering Tools.

Editorial Board

Dr. A. Sudheer Babu,
Associate Professor, Dept of IT.
M. Vasanthi (IV-I Student)
T. Madhavi (IV-I Student)
Jukanti Anjali (III-I Student)
Manasi Agarwal (II-I Student)

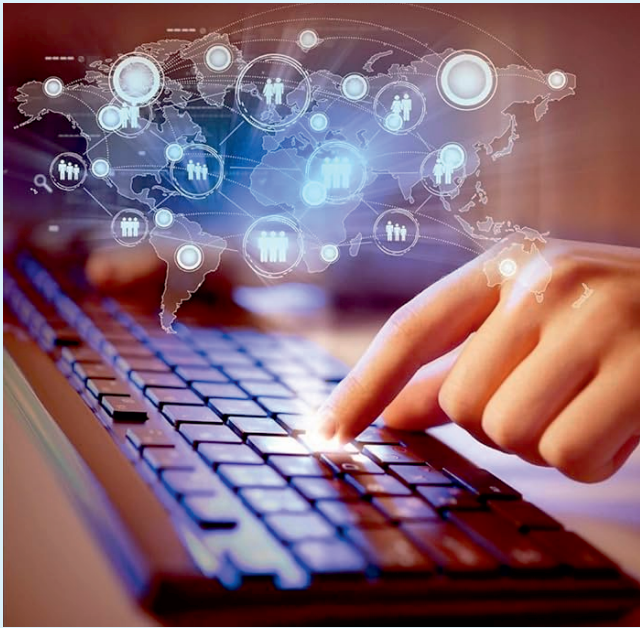
INFORMATION TECHNOLOGY

The Department of Information Technology was established in 2019 with an initial intake of 60 students. Since its inception, the department has been committed to providing excellent learning facilities and a dynamic academic environment that nurtures competent engineers capable of meeting both national and global industry standards.

The department's success is driven by the creativity, innovation, and dedication of its faculty and students. To strengthen technical competence, students are offered various in-house training programs designed to enhance their practical skills and domain expertise. The academic focus extends beyond theoretical knowledge, emphasizing holistic personality development through a blend of technical, analytical, and interpersonal skills.

The department regularly organizes workshops, seminars, and conferences to keep students and faculty abreast of emerging technologies in the field of Information Technology. Many of our students have secured placements in leading IT companies, while others have pursued higher education at top-ranked universities in the USA and other countries.





The collective efforts of both faculty and students have significantly contributed to the department's achievements and recognition. Furthermore, students are encouraged to participate in social outreach programs and extracurricular activities, fostering a spirit of leadership, teamwork, and community engagement.

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HOD'S MESSAGE

Dr. D. Shanthi

Postdoc (USA), PHD(CSE),
M.Tech(CSE), B.Tech(CSE), PG.Diploma
in AI(NITW), (M.SC.(Psychology), AU)
Professor & Head of the Department,
Department of Information Technology
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Dr. D.Shanthi brings 18 years of experience to her role as Professor and Head of the Department of Information Technology at VMTW, Hyderabad, India. She completed her Postdoctoral research at California Public University (USA) and holds a PG Diploma in AI & ML with a 3.66 CGPA from NITW. Dr. Shanthi earned her Ph.D. in Computer Science from JNTU Hyderabad in 2020. She comes from a core Computer Science Engineering background. She also qualified the UGC NET examination in 2024. Additionally, she holds 3 copyrights, including 2 national and 1 international. Dr. Shanthi has been invited as an expert by esteemed organizations such as RCI (Hyderabad), IEI (Hyderabad), Telangana State Residential Degree Colleges, Thiruvalluvar University (Tamil Nadu), SRM (AP),

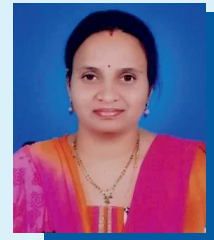
and Chaitanya Deemed University (Hyderabad). She has 2 scholars from CDU and Lincoln University College (Malaysia), under her guidance one scholar got his PHD. She has also been recognized as a research guide by JNTUH. She has authored 45 research papers in prominent international and national journals, including IEEE, Springer, and Inderscience, and few are presented at notable conferences. Her research citations are 537 H-Index: 12 and I10 Index: 13 and one of her research article won the “Best Paper Award” in 2019. Her accolades include the “Young Scientist Award” from DK International Research Foundation Faculty Awards in 2019, the “Outstanding Research Faculty Award” from Amaravathi Research Academy Faculty Excellence Awards in 2020, and the “APJ Abdul Kalam Award” from Shikshak Kalyan in 2021. Dr. Shanthi has published 2 national-level books, 4 international books, 3 Scopus-indexed book with Bentham Science, and 1 AICTE local language translation of a Software Engineering textbook. She is an active member of professional bodies such as FSIESRP, MIAENG, LMCSI, MEMRC, and MIEEE, and serves on the editorial boards of several journals, including the American Journal of Software Engineering and Applications, IJERT, and Microprocessors and Microsystems (SCI Journal), Discover Computing (springer Journal).



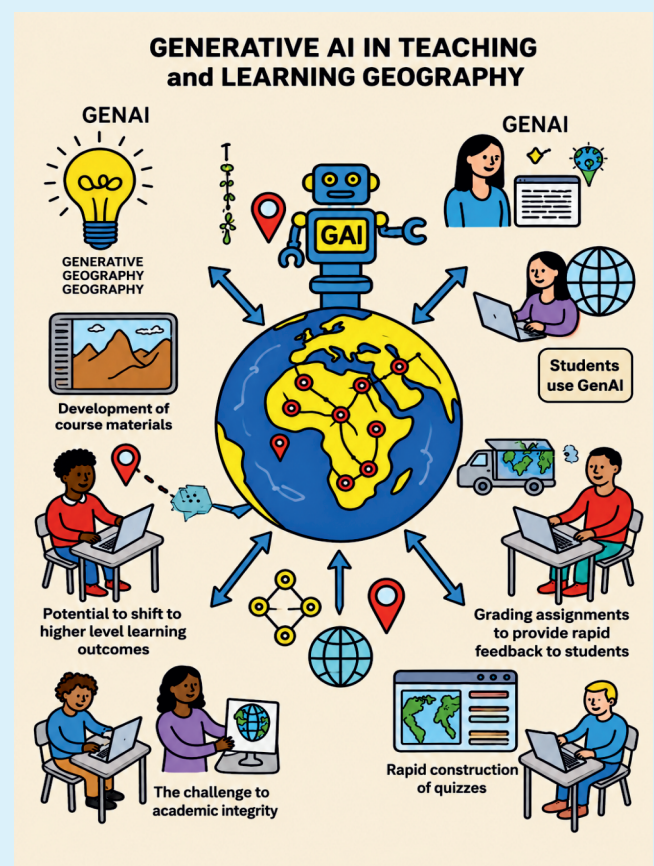
2. FACULTY ARTICLE'S GENERATIVE AI IN ENGINEERING EDUCATION

By Mrs. K. Helini
Assistant Professors
Dept of IT

Title: Generative AI in Engineering Education



Generative AI has emerged as a transformative tool in engineering education, enabling personalized learning, rapid content creation, and intelligent assessments. By integrating AI-powered platforms in classrooms, faculty can automate routine tasks and focus on mentoring and advanced knowledge delivery. Students benefit from real-time feedback, virtual simulations, and adaptive learning models that align with individual performance. As institutions adopt AI responsibly, engineering graduates will develop practical skills required to operate in automation-driven industries, ensuring academic relevance in a rapidly evolving technological landscape.



2. FACULTY ARTICLE IMPORTANCE OF RESEARCH GRANTS AND FUNDING OPPORTUNITIES

By Mrs. B Archana
Assistant Professors
Dept of IT

Title: Importance of Research Grants and Funding Opportunities



Securing research grants from government and industry agencies enhances the research ecosystem of engineering institutions. Faculty-led funded projects drive innovation, support laboratory development, and encourage student participation in cutting-edge research. Writing competitive proposals, publishing high-impact papers, and collaborating with external organizations strengthen institutional visibility and create opportunities for technology commercialization. A strong funding culture elevates the overall academic and research profile of the institution.



1. Student's Article On Importance Of Certifications For Career Growth

By GOLLA AKHILA 22UP1A1225-IT

Title: Importance of Certifications for Career Growth

Industry-recognized certifications play a crucial role in helping engineering students gain specialized knowledge and professional credibility. Platforms like NPTEL, Coursera, AWS, and Google Cloud offer structured programs aligned with current market requirements. Earning certifications in areas such as AI, data science, cybersecurity, embedded systems, and cloud computing strengthens student resumes and improves placement prospects. Continuous upskilling ensures students stay competitive in a rapidly evolving global job market.

2. Student's Article On Improving Communication Skills Through Presentations And Seminars

By THANGEDA RADHIKA _22UP1A1258-IT

Title: Improving Communication Skills Through Presentations and Seminars

Presentations, group seminars, and technical talks help engineering students strengthen communication skills essential for careers in dynamic industries. These activities encourage students to research topics deeply, structure ideas clearly, and engage effectively with audiences. Participation builds confidence and improves public speaking, technical documentation, and professional interaction abilities. Institutions that promote frequent academic presentations observe measurable improvements in student performance and career readiness.

SAC Activities

Title: “Ethical Election”

An Awareness Program on “Ethical Election” was conducted on 6 November 2023 at VMTW under the SVEEP initiative (Systematic Voters Education and Electoral Participation) by the District Election Officer and Collector, Medchal–Malkajgiri District, Telangana. The program aimed to educate students on responsible voting, electoral values, and democratic participation. Officials highlighted the importance of voting as a civic duty and stressed that elections must remain free, fair, and transparent. Participants learned about voter registration, ethical campaigning, and the role of youth in shaping future governance. The event encouraged students to uphold integrity in elections and inspired them to become responsible and informed voters.

Title: Graduation Day For The Final-year Students Of The 2019–23



Graduation Day for the final-year students of the 2019–23 batch was held on 18 November 2023 at the VMTW Seminar Hall. The ceremony marked a significant academic milestone, celebrating years of hard work, perseverance, and personal development. Dignitaries, faculty, and parents attended the event, offering congratulations and best wishes to the graduating class. Leadership speeches highlighted commitment to lifelong learning,

professional growth, and societal contribution. Students received certificates and expressed gratitude toward faculty for their guidance and support. The event concluded with a sense of pride, achievement, and optimism as graduates prepared to embark on their careers and future endeavors.

Title: “Christmas Celebrations”



Christmas Celebrations were held at VMTW Ground on 23 December 2023 with vibrant cultural spirit and student participation. The program included traditional Christmas carols, festive performances, and speeches highlighting the values of peace, compassion, and harmony. Students decorated the venue with thematic artwork and a beautifully adorned Christmas tree, adding to the festive atmosphere. Faculty and students came together to share the joy of the season, reinforcing the importance of unity and goodwill. The celebrations provided an opportunity for participants to appreciate cultural diversity, promote social bonding, and conclude the academic term on a cheerful and memorable note.

NSS Activities

An Awareness Program on Road Safety was conducted on 29-12-2023 at Ghatkesar by the VMTW Extension Activity Center in collaboration with Ghatkesar Municipality. The initiative



aimed to educate students and community members on safe commuting practices, traffic rules, accident prevention, and responsible pedestrian and driver behavior. Officials explained the importance of wearing helmets, seat belts, avoiding mobile phone usage while driving, and following road signage. Demonstrations and interactive discussions helped clarify common misconceptions and reinforced civic responsibility. The program successfully enhanced awareness on personal and public safety and encouraged participants to adopt disciplined road habits.

Title: Women's Health Camp



A Women's Health Camp was organized on 09-12-2023 at VMTW campus by the VMTW Extension Activity Center. The camp focused on promoting women's wellness, preventive healthcare awareness, and early diagnosis of common health issues. Medical professionals conducted general health checkups, counseling sessions, and informative talks on nutrition, hygiene, mental wellbeing, and lifestyle-related concerns. Students and women employees benefited from personalized medical guidance and learned essential self-care practices. The program fostered a proactive approach toward health management and encouraged participants to prioritize regular health monitoring for long-term wellbeing.

Professional Societies/Bodies

S.N.	Name of the Faculty	Name of the Professional Society /Body at National and International Level	Name of the Grade/Level/Position
1	Dr.D. Shanthi	CSI	Life Member
2	Dr.D. Shanthi	IEEE	Member
3	Dr.D. Shanthi	IAENG	Life Member
4	Dr.D. Shanthi	FSIESRP	Life Member
5	Dr.D. Shanthi	AIMERS	Member
6	Dr.D. Shanthi	IFERP	Member
7	Dr.D. Shanthi	MEMRC	Life Member
8	Dr.P.Eswaraiah	IAENG	Life Member
9	Dr.P.Eswaraiah	IFERP	Life Member
10	Mr.Janakiraman Ranjith	IAENG	Life Member
11	Mrs.Swapna Chiluguri	ISTE	Life Member
12	Mrs.Swapna Chiluguri	IFERP	Member
13	Mrs.Swapna Chiluguri	IAENG	Life Member
14	Mrs.Kolan Helini	AIMERS	Member
15	Mrs.Kolan Helini	IFERP	Member
16	Mrs. P.Amreswari	IAENG	Life Member
17	Mrs. P.Amreswari	IFERP	Member
18	Mrs.Eenaja Aileni	IAENG	Life Member
19	Mrs.Eenaja Aileni	AIMERS	Member
20	Mrs.Bojapalli Archana	AIMERS	Member
21	Mrs.Bojapalli Archana	IAENG	Life Member
22	Mrs.Bojapalli Archana	SDIWC	Member
23	Mr.U.Venkat Rao	NDLI Club	Member
24	Mr.U.Venkat Rao	AIMERS	Member
25	Mr.U.Venkat Rao	IAAC	Member
26	Mr.U.Venkat Rao	CSI	Member
27	Mr.U.Venkat Rao	ABCDINDEX	Life Member
28	Mr.U.Venkat Rao	IFERP	Member
29	Mrs.FouzuyaMojammed	IAENG	Life Member
30	Mrs.FouzuyaMojammed	IFERP	Member
31	Mr.ChandraShekher Sangishetty	IAENG	Life Member
32	Mr.ChandraShekher Sangishetty	IFERP	Member
33	Mr.Srinivasarao Munagala	IFERP	Member
34	Mrs.Sandhya Rani Gangu	IAENG	Life Member
35	Mrs.Sandhya Rani Gangu	FSIESRP	Member
36	Mrs.Sandhya Rani Gangu	AIMERS	Member
37	Dr.A.Sudheer Babu	IFERP	Member
38	Dr.Ch. Baswaraj	IFERP	Member

Activities

Dussehra Celebration by the IT Department at VMTW

The IT Department of VMTW celebrated the Dussehra festival with great cultural enthusiasm and traditional spirit on the college campus. The event was organized to highlight the significance of Dussehra as a festival that symbolizes the triumph of good over evil, righteousness over injustice, and knowledge over ignorance. The celebration aimed to promote cultural awareness among students while creating a sense of unity and shared values within the department.

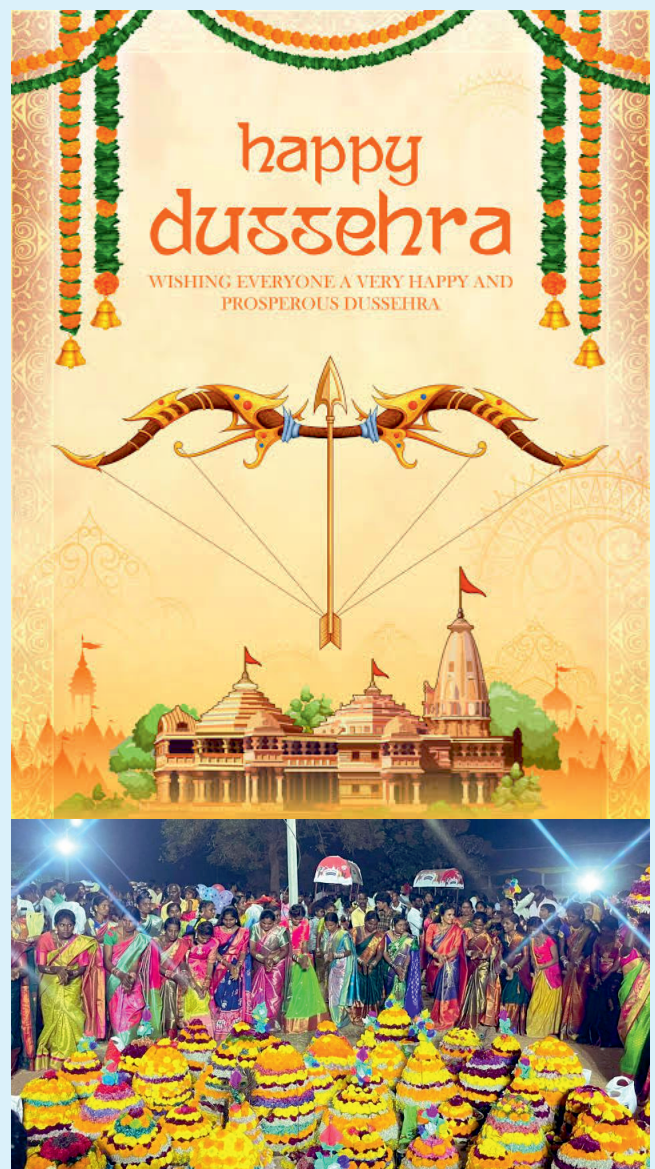


The program began with a traditional prayer and invocation, followed by the decoration of the venue with colorful rangoli, marigold flowers, and festive elements that showcased the essence of Indian heritage. Students and faculty members actively participated in cultural performances, including devotional songs, classical dance, skits, and speeches explaining the relevance of Dussehra in modern times. These activities not only provided a platform for students to showcase their artistic talent but also encouraged values such as teamwork, confidence, and cultural appreciation.

A symbolic representation of the victory of good over evil was conducted through a short

drama depicting the story of Lord Rama and the defeat of Ravana. Faculty members addressed the gathering and emphasized the importance of ethical conduct, discipline, and positive thinking in both academics and daily life. They encouraged students to carry forward the message of Dussehra by adopting honesty, commitment, and strong moral principles in their professional careers.

The celebration concluded with a sense of joy, togetherness, and inspiration. The event successfully strengthened cultural bonding among students while reflecting the institution's commitment to preserving traditional values alongside academic excellence.



Program Outcomes (Adapted from NBA)

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

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.

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 and safety, and the cultural, societal, and environmental considerations.

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.

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.

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.

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.

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

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

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.

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

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

