



**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

Mrs. A.Rajini Devi

Assistant Professor, Dept of IT.

K N S S J Naimisha (IV-I Student)

V. Chetana (III-I Student)

D. Sathvika (III-I Student)

A. Harika (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. The Information Technology Students' Association (ITSA) plays an active role in organizing diverse academic and co-curricular activities such as quizzes, extempore sessions, mock interviews, debates, alumni seminars, guest lectures, and technical fests. ITSA also conducts specialized training programs to bridge curriculum gaps and explore topics beyond the syllabus.

Furthermore, students are encouraged to participate in social outreach programs and extracurricular activities, fostering a spirit of leadership, teamwork, and community engagement.



HOD'S MESSAGE

Dr. D. Shanthi

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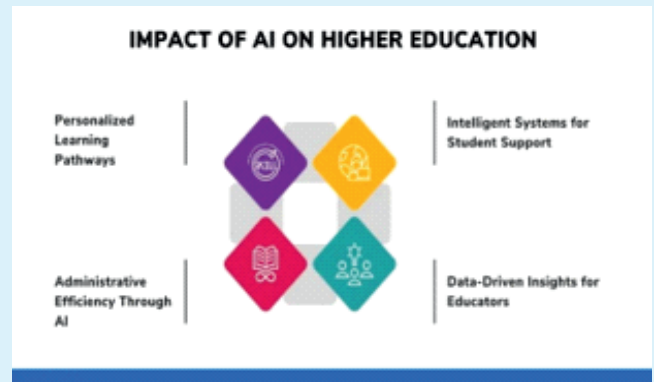
Dr. D. Shanthi brings 18 years of experience to her role as Professor and Head of the Department of Information Technology at VMTW, Hyderabad, India. She completed her Postdoctoral research at California Public University (USA) and holds a PG Diploma in AI & ML with a 3.66 CGPA from NITW. Dr. Shanthi 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).



1.FACULTY ARTICLE ON ARTIFICIAL INTELLIGENCE IN HIGHER EDUCATION

By Mr. R. Krishna Nayak
Assistant Professor,
Dept of IT



Artificial Intelligence (AI) is reshaping higher education by making teaching and learning more interactive and personalized. Faculty members can use AI-powered tools to prepare lectures, create quizzes, evaluate assignments, and provide instant feedback to students. AI also helps identify students who need additional academic support through learning analytics. Technologies such as virtual assistants, intelligent tutoring systems, and automated assessment reduce faculty workload while improving learning outcomes. However, AI should be used responsibly, ensuring data privacy, ethical practices, and human supervision. By integrating AI into classrooms, educators can develop innovative teaching methods and equip students with the digital skills required for future careers.



TITLE: CYBER SECURITY AWARENESS FOR STUDENTS

By Mrs. K. Helini,
Assistant Professor,
Dept of IT



Cyber security has become an essential part of modern education as students increasingly depend on digital platforms for learning. Faculty members play a vital role in creating awareness about safe online practices, including using strong passwords, enabling two-factor authentication, identifying phishing emails, and protecting personal information. Educational institutions should regularly conduct cyber security workshops, awareness campaigns, and practical demonstrations to help students recognize online threats. Encouraging responsible internet usage and digital ethics helps reduce cyber risks and protects institutional data. By promoting cyber security awareness, faculty -

can create a safer digital learning environment and prepare students to use technology responsibly in both academic and professional settings.



STUDENT'S PARTICIPATION

S.NO.	Name of the Student	Name of the Event	State/National/International level	Date of the Event
1	Christina Joseph	CODE-A-THON	National	6th & 7th February 2026
2	Pasupuleti Usha Laxmi	CODE-A-THON	National	6th & 7th February 2026
3	K Srilaxmi	CODE-A-THON	National	6th & 7th February 2026
4	Rongali Bhanu	CODE-A-THON	National	6th & 7th February 2026
5	Kotagiri Seeja	CODE-A-THON	National	6th & 7th February 2026
6	T. Lakshmi Priya	CODE-A-THON	National	6th & 7th February 2026
7	Thangeda Radhika	CODE-A-THON	National	6th & 7th February 2026
8	Yamasani Sai Priya	CODE-A-THON	National	6th & 7th February 2026
9	Rampelly Sindhu	IDEATHON-2K26	National	7th February 2026
10	K. Lakshmi Priyanka	IDEATHON-2K26	National	7th February 2026
11	Gattupally Sloka	IDEATHON-2K26	National	7th February 2026
12	Julakanti Navya	IDEATHON-2K26	National	7th February 2026





guides, reference materials, novels, and other useful books. The collected books were donated to a public library to support students from economically disadvantaged backgrounds and encourage a reading culture. The initiative inspired participants to understand the value of sharing knowledge and contributing to society through education. The Book Donation Drive received an enthusiastic response and reflected the department's commitment to community service, social awareness, and the empowerment of future learners through accessible educational resources.



NATIONAL GIRL CHILD DAY

The Department of Information Technology, VMTW, organized an Awareness Program on National Girl Child Day on 24th January 2026 at Keesara to promote the importance of educating, empowering, and protecting the girl child. Faculty members and students actively participated in the program by interacting with the local community and spreading awareness about girls' rights, education, safety, and equal opportunities. The participants highlighted the importance of gender equality and encouraged society to support the overall development of every girl child. Through awareness activities and meaningful discussions, the program inspired the community to create a safe and inclusive environment for girls. The event

NSS ACTIVITIES

I. Book Donation Drive

The Department of Information Technology, VMTW, successfully organized a Book Donation Drive on 24th February 2026 at the VMTW Campus with the objective of promoting education, knowledge sharing, and social responsibility. Faculty members and students actively participated by donating textbooks, technical books, competitive examination

reflected the department's commitment to social responsibility and its dedication to promoting equality, education, and women's empowerment.



CANCER SCREENING AND AWARENESS CAMP



The Department of Information Technology, VMTW, organized a Cancer Screening and Awareness Camp on 24th February 2026 at the VMTW Campus in collaboration with Basavatharakam Indo-American Cancer Hospital & Research Institute and Srinidhi Cancer Foundation. The program was conducted to create awareness about cancer prevention, the importance of early detection, and the adoption of healthy lifestyles. Medical experts conducted health screenings and

educated students and faculty on cancer symptoms, risk factors, preventive measures, and the need for regular medical check-ups. Participants actively interacted with healthcare professionals to clarify their concerns and gain valuable health guidance. The initiative successfully promoted health awareness, encouraged preventive healthcare practices, and reflected the department's commitment to the well-being of students and the community.

BLOOD DONATION CAMP



The Department of Information Technology, VMTW, organized a Blood Donation Camp on 27th February 2026 at the VMTW Campus in collaboration with Lions Clubs International. The program was conducted to promote voluntary blood donation and create awareness about the importance of donating blood to save lives. Faculty members and students enthusiastically participated in the camp and donated blood under the supervision of experienced medical professionals, who ensured safe and hygienic donation procedures. The initiative encouraged a sense of social responsibility, compassion, and humanitarian service among participants while

emphasizing the vital role of blood donation in supporting emergency medical care. The event was a great success and reflected the department's commitment to community welfare and public health awareness.

HOLI FESTIVAL



The Department of Information Technology, VMTW, celebrated Holi – the Festival of Colors with great enthusiasm and joy on the college campus. The celebration brought together students and faculty members in a vibrant atmosphere that reflected the values of unity, friendship, and cultural harmony. Participants enjoyed the festival by playing with eco-friendly colors, listening to festive music, and engaging in fun-filled activities that strengthened mutual bonding and teamwork. The event provided a refreshing break from academic routines while promoting inclusiveness, respect, and togetherness among students. The colorful celebration created memorable moments for everyone and highlighted the department's commitment to encouraging cultural values, student engagement, and a positive campus environment.



NO-CODE HACKATHON

The Department of Information Technology, VMTW, successfully organized a No-Code Hackathon to inspire students to transform innovative ideas into practical digital solutions using no-code and low-code development platforms. The event provided a dynamic platform for students to enhance their creativity, problem-solving abilities, and teamwork by developing applications without extensive programming knowledge. Working in teams, participants identified real-world challenges, designed user-friendly solutions, and presented their projects before a panel of faculty members for evaluation. The projects were assessed based on innovation, functionality, usability, and presentation skills. The hackathon concluded with the recognition of the best-performing teams for their outstanding ideas and project execution. The event successfully promoted innovation, collaborative learning, and entrepreneurial

thinking among students while demonstrating the growing potential of no-code technologies in software development.



WEB RIPPLE (WORKSHOP)



The Department of Information Technology, VMTW, successfully organized Web Ripple, a hands-on workshop on Web Development to provide students with practical knowledge of modern web technologies and responsive website design. The workshop introduced participants to the fundamentals of HTML, CSS, and JavaScript through interactive sessions, live demonstrations, and real-time coding exercises. Students actively participated in hands-on activities, developed responsive web pages, and interacted with the resource persons to clarify concepts and enhance their technical skills. The session offered valuable insights into industry-standard web development practices and encouraged students to build innovative web-based applications. The workshop successfully strengthened students' practical understanding of front-end development while fostering creativity, problem-solving, and continuous learning in the field of web technologies.





Professional Societies/Bodies

Sl.No	Name	Designation	Professional Bodies	Validity
1	Dr. D. Shanthi	Professor & HOD	CSI	Lifetime
			IEEE	Yearly
			IAENG	Lifetime
			FSIESRP	Lifetime
			AIMERS	Yearly
			IFERP	Yearly
			MEMRC	Lifetime
2	Mr. R. Krishna Naik	Assistant Professor	CSI	Lifetime
3	Dr. J. Ranjith	Assistant Professor	IFERP	Yearly
			AIMERS	Lifetime
4	K. Helini Reddy	Assistant Professor	AIMERS	Yearly
			IFERP	Yearly
			IAENG	Lifetime
5	A. Eenaja	Assistant Professor	AIMERS	Yearly
			IFERP	Yearly
			IAENG	Lifetime
6	A. Rajini Devi	Assistant Professor	IAENG	Lifetime
7	S. Chandra Sekhar	Assistant Professor	IAENG	Lifetime
8	K. Sandhya Rani	Assistant Professor	IAENG	Lifetime
			FSIESRP	Lifetime
			AIMERS	Yearly
9	Mr. M. Srinivasarao	Assistant Professor	IAENG	Lifetime
10	D. Kousari Kumari	Assistant Professor	IAENG	Lifetime
11	Srikanth Kumar	Assistant Professor	IAENG	Lifetime
12	B. Archana	Assistant Professor	IAENG	Lifetime
			FSIESRP	Lifetime



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.

