



**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)

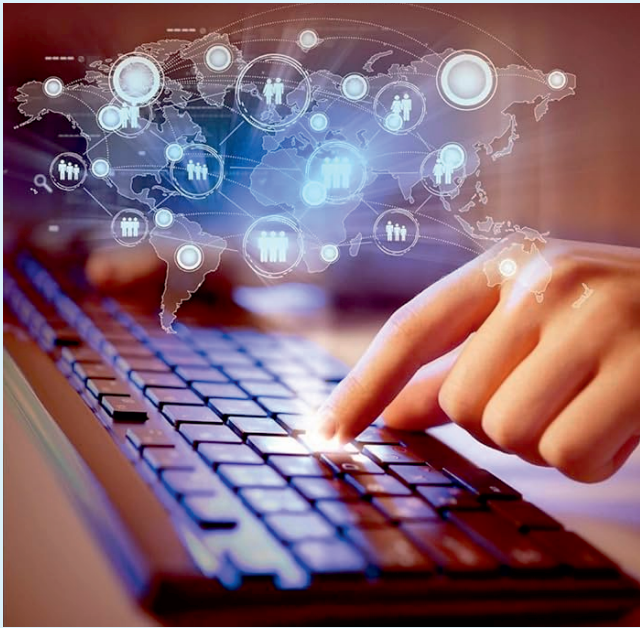
INFORMATION TECHNOLOGY

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)
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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'S ON BUILDING STRONG ALUMNI NETWORKS FOR INSTITUTIONAL DEVELOPMENT

By Mrs D Kousari Kumari

Assistant Professor

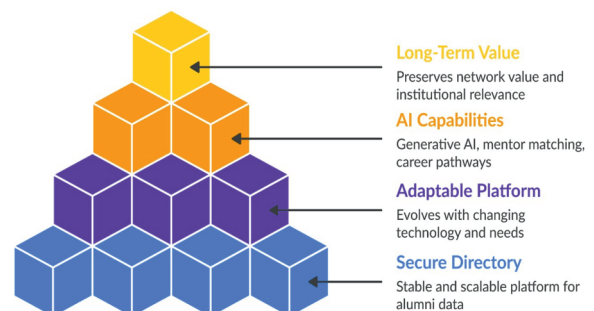
Dept of IT

Title: Building Strong Alumni Networks for Institutional Development



Alumni contribute significantly to the advancement of engineering institutions through knowledge sharing, mentorship, placements, networking, and financial support. Establishing structured alumni engagement programs helps colleges maintain long-term connections with graduates who have succeeded in various professional domains. Regular alumni meets, guest lectures, and collaborative initiatives provide current students with insights into industry expectations and career pathways. Faculty can also leverage alumni expertise for curriculum updates and research collaborations. A well-connected alumni base enhances institutional relevance, reputation, and continuous development.

Building a Future-Ready Alumni Network



2. FACULTY ARTICLE'S ON ENCOURAGING STUDENTS TOWARD ENTREPRENEURSHIP AND STARTUPS

By Mrs.A Rajini Devi
Assistant Professors
Dept of IT

Title: Encouraging Students Toward Entrepreneurship and Startups



Entrepreneurship education has become crucial in transforming students from job seekers to job creators. Engineering institutions that provide startup incubation, mentorship, industry networking, and seed funding empower students with the confidence to convert ideas into viable ventures. Faculty mentors guide interdisciplinary collaboration, business planning, and technical validation. Such initiatives nurture innovation and prepare graduates to address market challenges independently. As national economies shift toward knowledge-driven growth, entrepreneurship programs within engineering colleges play an essential role in developing business-minded innovators.



1. STUDENT'S ARTICLE ON ENCOURAGING INNOVATION THROUGH HACKATHONS

By A.Ramya Sri, 21UP1A1201 -IT

Title: Encouraging Innovation Through Hackathons

Hackathons provide students with opportunities to brainstorm ideas, collaborate in teams, and build prototype solutions within a defined timeframe. These events simulate real-world engineering challenges and require participants to apply programming, design thinking, and problem-solving skills. Students gain practical experience, exposure to industry expectations, and recognition for innovative solutions. Hackathons also foster creativity, teamwork, and professional networking, enabling participants to develop both technical and interpersonal skills essential for future success.

2. STUDENT'S ARTICLE ON IMPACT OF ONLINE LEARNING PLATFORMS ON ENGINEERING EDUCATION

By Burra Tejaswini, 21UP1A1205 -IT

Title: Impact of Online Learning Platforms on Engineering Education

Online learning platforms have transformed the academic experience for engineering students by offering flexible access to high-quality lectures, tutorials, and certification programs. Students can explore advanced topics, revise complex subjects, and learn at their own pace. Platforms such as NPTEL, Coursera, and MOOCs supplement classroom learning and support skill enhancement. Online assessments and interactive content further improve understanding. This blended approach helps students achieve better academic outcomes and prepares them for technologically advancing industries.

NSS Activities

Title World Tourism Day was celebrated on 27-09-2023

World Tourism Day was celebrated on 27-09-2023 at the VMTW campus under the coordination of the VMTW Extension Activity Center and NYK. The program highlighted the importance of tourism in promoting cultural exchange, sustainable development, and economic growth. Students participated in presentations and discussions emphasizing responsible tourism, heritage preservation, and environmental protection. The event also showcased the diversity of global destinations and the cultural richness they represent. Faculty members encouraged students to view tourism not just as travel, but as an opportunity for learning, livelihood, and global understanding. The celebration concluded with active student engagement and increased awareness of global citizenship.

Title: the Eco-Ganesha initiative



The VMTW Extension Activity Center organized the Eco-Ganesha initiative on 16-09-2023 at both VMTW campus and Kondapur village. The program aimed to promote environmentally friendly festivities by encouraging the use of clay Ganesha idols instead of plaster-of-Paris models, which damage water bodies. Students demonstrated idol-making techniques, conducted awareness sessions, and distributed informational materials to the community. The initiative emphasized sustainability, pollution control, and cultural responsibility during the Ganesh Chaturthi festival. The event was well-received by local residents, reinforcing the importance of adopting eco-friendly practices. The program strengthened student involvement in environmental protection and meaningful community participation.

Title: educate young voters on the importance of active participation in democratic processes.



VMTW Extension Activity Center in collaboration with Ghatkesar Municipality. The initiative aimed to educate young voters on the importance of active participation in democratic processes. Representatives

discussed voter registration procedures, electoral rights, and the significance of informed voting for societal development. Students were encouraged to understand the political system, uphold civic responsibility, and contribute to transparent democratic governance. Interactive sessions helped clarify commonly misunderstood aspects of elections. The program successfully inspired first-time voters to participate responsibly in upcoming elections and strengthened awareness of democratic empowerment.

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.Bojjapalli Archana	AIMERS	Member
21	Mrs.Bojjapalli Archana	IAENG	Life Member
22	Mrs.Bojjapalli 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.FouziyaMojammed	IAENG	Life Member
30	Mrs.FouziyaMojammed	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

Blood Donation Camp 28 Th July 2023 Blood Donation Camp In Collaboration With Red Cross On The Occasion Of Charmian Sir Birthday

A Blood Donation Camp was organized on 28 July 2023 at VMTW in collaboration with the Red Cross, marking the occasion of the Chairman Sir's birthday. The event encouraged voluntary contribution and social responsibility among students, faculty, and staff. Medical teams supervised the camp, ensuring safety, proper screening, and professional guidance for all donors. The initiative aimed to support blood banks and hospitals, helping patients in urgent medical need. Participants expressed pride in contributing to a life-saving cause while honoring the Chairman's commitment to community welfare. The program concluded successfully with strong participation and appreciation from all stakeholders.



Title : VMTW celebrated India's 77th Independence Day on August 15, 2023



VMTW celebrated India's 77th Independence Day on August 15, 2023, with patriotic enthusiasm and active participation from students, faculty, and staff. The celebration began with the hoisting of the national flag, followed by the singing of the National Anthem, honoring the sacrifices and contributions of freedom fighters. Cultural performances, including patriotic songs, speeches, and dance programs, highlighted India's journey of progress, unity, and democratic values. Speakers emphasized the responsibilities of youth in nation-building and the importance of preserving India's heritage and constitutional ideals. The event concluded with the distribution of sweets, fostering a sense of pride and national spirit across the campus.



Bathukamma Celebrations were held at VMTW Ground on 20 September 2023 with great cultural fervor and student participation. Faculty and students came together to celebrate the traditional floral festival of Telangana, showcasing regional heritage and festive spirit. The event featured beautifully

arranged flower stacks prepared by student groups, traditional dance performances, and devotional songs, creating an atmosphere of joy and togetherness. Participants expressed pride in preserving cultural values and rituals while strengthening connections within the campus community. The celebration not only promoted cultural awareness but also offered students a meaningful opportunity to engage in tradition, unity, and festivity on the VMTW campus.

Orientation Programmed

An Orientation Programme for the first-year students of the 2023–24 academic batch was conducted at VMTW Ground on 4 September 2023. The event welcomed new entrants to the institution, introducing them to academic procedures, campus facilities, and student support services. Faculty members, administrators, and academic leaders addressed the gathering, outlining expectations, opportunities, and professional growth pathways available to students. The programme helped students understand the transition into college life, promoting confidence and motivation. Interactive sessions provided clarity on academic regulations, extracurricular participation, and campus culture. The event served as a strong start for the new academic year, fostering a sense of belonging and readiness.



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.

