



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



Department of Information Technology

ITSPECTRUM

IT NEWS LETTER

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Volume : 8



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, HOD, IT.

M. Vasanthi (IV-I Student)

T. Madhavi (IV-I Student)

Jukanti Anjali (III-I Student)

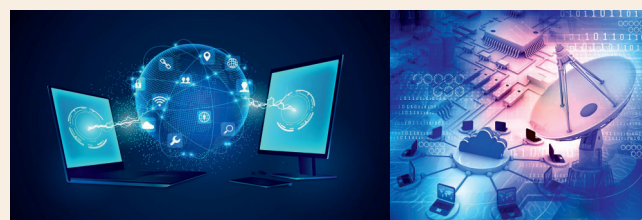
Manasi Agarwal (II-I Student)

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.A.Sudheer Babu

Professor & Head of the Department,
Department of Information Technology

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.



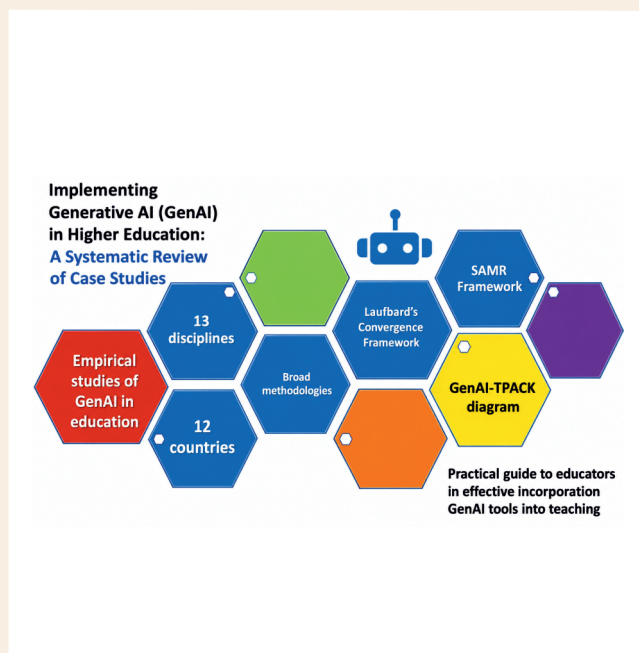
1. FACULTY ARTICLE'S INTEGRATING GENAI TOOLS FOR ENHANCED ACADEMIC DELIVERY

By Mr. Venkat Rao U
Assistant Professor
Dept of IT

Title: Integrating GenAI Tools for Enhanced Academic Delivery



The integration of Generative AI tools into engineering education is reshaping academic delivery and learning effectiveness. Faculty now leverage AI-assisted lecture preparation, automated assessment support, and intelligent simulation tools to enhance teaching precision and efficiency. These technologies allow educators to focus on conceptual depth, mentorship, and personalized student guidance. By incorporating AI-driven labs, adaptive learning modules, and project-based evaluations, institutions can significantly improve academic outcomes. As AI adoption continues to accelerate across industries, preparing students through structured and ethical integration of GenAI within the curriculum has become a strategic priority for modern engineering colleges.



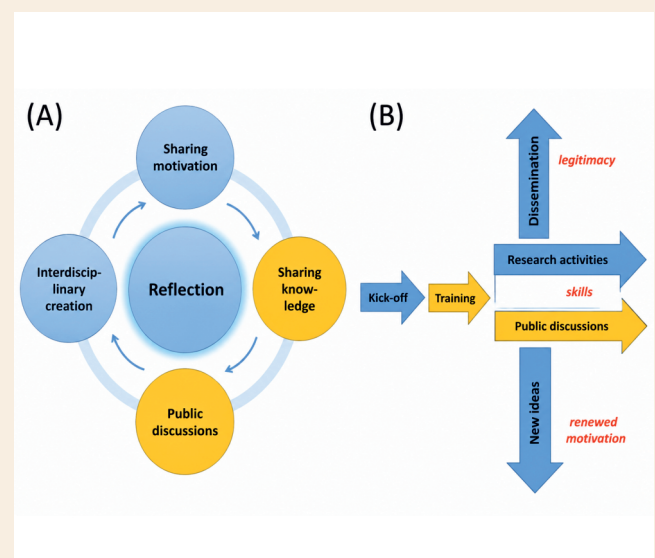
2. FACULTY ARTICLE'S ON STRENGTHENING INTERDISCIPLINARY RESEARCH COLLABORATIONS

By Mrs. B Archana
Assistant Professors
Dept of IT

Title: Strengthening Interdisciplinary Research Collaborations



Interdisciplinary research has gained prominence as engineering challenges increasingly require combined expertise from multiple fields. Faculty are actively collaborating across departments such as computer science, electronics, mechanical engineering, and environmental studies to develop impactful solutions. This approach promotes innovation in emerging areas including smart healthcare systems, sustainable technologies, and intelligent automation. Research centers and funding agencies now encourage cross-disciplinary projects, enabling faculty to publish high-quality research and guide students toward holistic problem-solving. Strengthening interdisciplinary collaboration enhances institutional research capabilities and contributes to advancements that address complex societal and industrial needs.



STUDENT'S ARTICLE ON IMPROVING COMMUNICATION SKILLS THROUGH PRESENTATIONS AND SEMINARS

By Gruddanti Preethi 20UP1A1210

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.

STUDENT'S ARTICLE ON STUDENT STARTUPS AND ENTREPRENEURIAL MINDSET

By Loka Sneha 20UP1A1227

Title: Student Startups and Entrepreneurial Mindset

Increasing numbers of students are exploring entrepreneurship, developing innovative products and services that address real market needs. Incubation centers, startup competitions, and mentor networks within colleges help students convert ideas into functional business models. Working on startups enhances leadership, risk-taking ability, financial literacy, and strategic decision-making. Entrepreneurship encourages a mindset of innovation and independence, supporting national growth and technological development.

STUDENT PARTICIPATION

S.No.	Name	Program	National/International	Date
1	Gurram Sneha Reddy	Web HACKATHON 22	National	30-11-2022
2.	Lingampally Nishitha	Web HACKATHON 22	National	30-11-2022
3.	Pendam Vineetha	Web HACKATHON 22	National	30-11-2022
4.	Sanjana Saraswathi G	Web HACKATHON 22	National	30-11-2022
5.	Sridasyam Keerthi	Web HACKATHON 22	National	30-11-2022
6.	Sripathi Harshitha	Web HACKATHON 22	National	30-11-2022
7.	Turlapati Rithika	Web HACKATHON 22	National	30-11-2022
8.	Vangaveeti Sravani	Web HACKATHON 22	National	30-11-2022

NSS Activities

TITLE IMPORTANCE OF “GIRL CHILD EDUCATION” AT ZPHS, AUSHAPUR – 23-12-2022

The VMTW Extension Activity Center conducted an awareness program on the Importance of Girl Child Education at ZPHS, Aushapur. The session highlighted the role of education in empowering girls, improving socio-economic conditions, and strengthening community development. Students were encouraged to pursue academic excellence, participate actively in learning, and recognize education as a pathway to independence and opportunity.

Title: Food Donation at Kondapur Village – 05-12-2022

A community-focused Food Donation program was organized at Kondapur village by the VMTW Extension Activity Center. Students and volunteers distributed essential food items to underprivileged families, fostering empathy, social responsibility, and service-oriented values. The initiative reinforced the importance of collective effort in supporting vulnerable communities.

Activities

Title: 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 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.



Professional Societies/Bodies

S. No.	Name of the Faculty	Name of the Professional Society /Body at National and International Level	Name of the Grade/ Level/Position
1	Dr.A.Sudheer Babu	IAENG	Life Member
2	Dr.A.Sudheer Babu	IFERP	Member
3	Mr.Janakiraman Ranjith	IAENG	Life Member
4	Mrs.Swapna Chiluguri	ISTE	Life Member
5	Mrs.Swapna Chiluguri	IFERP	Member
6	Mrs.Swapna Chiluguri	IAENG	Life Member
7	Mrs.Kolan Helini	AIMERS	Member
8	Mrs.Kolan Helini	IFERP	Member
9	Mrs. P.Amreswari	IAENG	Life Member
10	Mrs. P.Amreswari	IFERP	Member
11	Mrs.Eenaja Aileni	IAENG	Life Member
12	Mrs.Eenaja Aileni	AIMERS	Member
13	Mrs.Boijapalli Archana	AIMERS	Member
14	Mrs.Boijapalli Archana	IAENG	Life Member
15	Mrs.Boijapalli Archana	SDIWC	Member
16	Mr.U.Venkat Rao	NDU Club	Member
17	Mr.U.Venkat Rao	AIMERS	Member
18	Mr.U.Venkat Rao	IAAC	Member
19	Mr.U.Venkat Rao	CSI	Member
20	Mr.U.Venkat Rao	ABCDINDEX	Life Member
21	Mr.U.Venkat Rao	IFERP	Member
22	Mrs.FouziyaMojammed	IAENG	Life Member
23	Mrs.FouziyaMojammed	IFERP	Member
24	Mr.Srinivasarao M	IFERP	Member
25	Dr.Ch. Baswaraj	IFERP	Member

FACULTY PUBLICATIONS

S.No	Name of the Authors	Title of the Paper	ISSN No	Volume, Issue, Page No	Year of Publication	Link to website of the Journal	Link to Article/ Paper/ Abstract of the article	Is it listed in UGC Care List/ Scopus/ Web of science/ Other, mention
1	Mr.U.Venkat Rao	A STUDY ON CSF- CLOUD COMPUTING IMPACT ORGANIZATION PERFORMANCE AND IDENTIFY THE CRITICAL SUCCESS FACTORS	ISSN NO.: 2347-	October/2022	Mukt Shabd Journa	3150Volume XI, Issue X, OCTOBER/2022		UGC

FACULTY MEMBERS OBTAINED CERTIFICATE

S.N0	Name of the Faculty	Name of Course Passed	Course Offered by (agency)	Completion Date
1	Mrs. K. Helini	Machine Learning	NPTEL	Oct/2022
2	Mrs. K. Helini	Internet of Things	NPTEL	Oct/2022
3	Mrs. K. Helini	OS Fundamental	NPTEL	Oct/2022
4	Mrs. A. Eenaja	Discrete Mathematics	NPTEL	Oct/2022

FACULTY AS RESOURCE PERSON

S.N.	Name of the Faculty as Resource Person	Name of the STTP/FDP	Date	Location	Organized by
1	Dr. Ch. Baswaraj	A One Week FDP on "Machine Learning and its Applications"	19-12-2022	Hyderabad	KLU

FACULTY PROFESSIONAL ACTIVITIES PROFESSIONAL SOCIETIES/BODIES CHAPTER, CLUBS, AND PROFESSIONAL ENGINEERING EVENTS ORGANIZED

S.N.	Name of the Professional Societies/Bodies/ Chapters/Clubs	Name of the Event	National/ International level	Date of Event
1.	AIMERS	A Guest Lecture "Neural Network Deep Learning "	International	16/11/2022
2.	TECHNEWEIL	Smart India Hackathons 2k22	National	5/10/2022 & 6/10/2022

STUDENT PUBLICATIONS

S.N.	Name of the Student & Semester	Name of the Publisher	Name of the Journal/ Conference, etc.	Volume No. & Issue No.	Name of the award if any
35	P. Sony (19UPIA1220) IV-II	Longman Publishers	International Journal of basic and applied research	Volume 12, Issue 4, 2022	-

FACULTY PATENT PUBLICATION'S

Sl. No.	Patent Applicati on No.	Status of Patent (Publish ed/ Granted)	Inventor/s Name	Title of the Patent	Applicant/s Name	Patent Filed Date (DD/MM/ YYY Y)	Patent Published Date / Granted Date (DD/MM/ YYYY)	Patent Publicat ion Number / Patent Granted Number	Assignee/s Name (Institute Affiliation/s at time of Application)	Here, attach Source Proof Screenshots/URL/ Website Links, etc.
1	375099-001	Granted	MD.FOUZI YA	Agriculture drone for monitoring and spraying pesticides	MD.FOUZI A	05/12/2022	25/01/2023	375099-001	Vignan's Institute of Management and Technology for Women	https://search.ipindia.gov.in/DesignApp licationStatus/DesignRegister/index
2	375291-001	Granted	Mr. U. Venkat Rao	Solar and Wind Operated Hybrid Power Satiation	Mr. U. Venkat Rao	08/12/2022	25/01/2023	375291-001	Vignan's Institute of Management and Technology for Women	https://search.ipindia.gov.in/DesignApp licationStatus/DesignRegister/index

Certificate of Achievement



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.