



Vision of the Department

To inspire and educate female students in Computer Science and Engineering to become skilled, ethical, and innovative professionals prepared for future technologies and challenges.

Mission of the Department

- M1: To provide strong foundational and advanced knowledge in core areas of Computer Science and Engineering, enabling students to design, analyse, and solve engineering problems using modern Computing tools.
- M2: To promote research skills, innovation, entrepreneurship and lifelong learning by encouraging students to participate in research, development, and interdisciplinary activities in emerging technologies.
- M3: To inculcate professional ethics, social responsibility, and sustainable practices, enabling graduates to contribute positively to society.

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.

EDITORIAL BOARD

Dr. B Phijik, HOD (CSE)

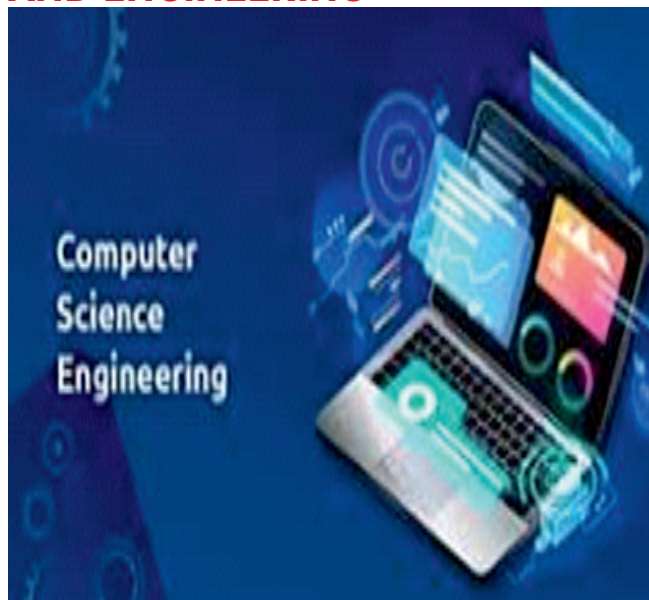
Mrs. V. Suzan Shalini, Assistant Professor, BS&H.

Mrs. B. Geetha, Assistant Professor, CSE.

Ms. P. Lahari CSE (Student)

Ms. Shahana, CSE (Student)

COMPUTER SCIENCE AND ENGINEERING



Established in 2008, the CSE Department at VMTW has grown from an intake of 90 to 240 students, reflecting its commitment to excellence. The department earned NBA accreditation in 2019 and reaccreditation in 2022, ensuring high academic standards.

With experienced and research-driven faculty, the department promotes innovation through Centres of Excellence in IoT and AI & ML and collaborations with MSME, ALEAP, and TASK. Active associations with ISTE, CSI, and IETE enrich student learning through workshops and seminars.

Boasting 90% placements in leading companies like Amazon, Flipkart, Accenture, and Cognizant, and a highest package of ₹ 20 LPA, the department stands as a hub of innovation, research, and success.



HOD'S MESSAGE

Dr. Phijik Battula,
Associate Professor &
HoD, DEPARTMENT OF
COMPUTER SCIENCE AND
ENGINEERING

Dr. Phijik Battula brings over 20 years of academic and research experience to his role as Associate Professor and Head of the Department of Computer Science & Engineering at Vignan's Institute of Management and Technology for Women (VMTW), Hyderabad. He earned his Ph.D. in Computer Science from Osmania University, Hyderabad in 2023. He holds an M.Tech. in Computer Science and Engineering from Jawaharlal Nehru Technological University Hyderabad (JNTUH). Dr. Battula's expertise spans Computer Networks, Software Engineering, Operating Systems, Machine Learning, and Blockchain Technologies. He has made significant scholarly contributions, including: 3 national patents, 1 authored book, 10 journal publications, including (1 in SCIE-indexed journal, 4 in SCOPUS-indexed journals, 5 in UGC- approved journals, 2 international conference papers). He also served as an Academic Counsellor with the Indra Gandhi National Open University (IGNOU), Regional Services Division, Maidan Garhi, New Delhi, through Aurora Degree College Study Center (Code: 0111), Hyderabad. A dedicated mentor and educator, Dr. Battula has guided over 100 B.Tech graduates from VIGNAN's Group Institutions, Hyderabad. He is an active member of several professional organizations, Life Member, Indian Society for Technical Education (ISTE) – LM-137313, Life Member, International Association of Engineers (IAENG) – Member No: 277087, Life Member, Society of Digital Information and Wireless Communication (SDIWC) – ID: 30616.

FACULTY ARTICLE ON NEURAL NETWORKS

By, **B Geetha**, Assistant Professor (CSE)
Neural networks: The Brain behind AI



Artificial Intelligence (AI) has transformed the world around us, and at its core lie neural networks—computational models inspired by the human brain. These systems enable machines to recognize patterns, learn from experience, and make intelligent decisions, powering technologies like image and speech recognition, recommendation engines, and self-driving cars. A neural network is built from interconnected layers of neurons that process data and adjust their connections to improve accuracy—a process called training. Deep neural networks, with multiple hidden layers, form the foundation of deep learning, one of the most powerful branches of AI today.

Across industries, neural networks are revolutionizing how we live and work. They detect diseases from medical images, enhance fraud detection in finance, and help autonomous vehicles navigate safely. Even our daily experiences with Netflix, Spotify, and Amazon are shaped by neural networks that personalize recommendations.

However, challenges remain—these systems demand large datasets, powerful hardware, and greater transparency to overcome the “black box” dilemma of unexplained decisions. Looking ahead, innovations in CNNs, RNNs, and transformers promise to make AI even more intelligent and interpretable. Neural networks are no longer just computational models—they are partners in innovation, bridging human intelligence and machine capability to shape the future.



FACULTY PUBLICATIONS

SI No	Author	Title	ISSN No	Journal name
1	Mr. S Dilli Babu	Design of fully homomorphic multikey encryption scheme for secured cloud access & storage environment	0925-9902	SCIE
2	Dr. Rajendra Prasad	MESSB-LEW: Multi- extractable somewhere statistically binding and learning with error- based integrity and authentication for cloud storage	0920-8542	SCIE
3	Vishnu Vardhan Rao	A survey analysison data mining techniques: ANN &VSM	2347-3150	Mukt Shabd Journal
4	Dr. C Srinivasa Kumar	A sophisticated & light weight cryptographic protocols for data security in wireless sensor networks	1309-3452	Journal of algebraic statistics

BOOKS & CHAPTERS PUBLISHED:

S.NO.	AUTHOR	TITLE OF THE BOOK	TITLE OF PAPER	ISSN NUMBER
1.	C. Srinivasa Kumar, Ranga Swamy Sirisati	An Optimized Fuzzy-Based Resource Allocation for Cloud Using Secured Tabu Search Technique	Lecture Notes in Networks and Systems	978-981-16-8987-1
2.	Rajendra Prasad	Android Malware Detection Using Genetic Algorithm Based Feature Selection and Machine Learning	Challenges and Possible Solutions for emerging trends in Technologies	978-93-5627-706-9
3.	K. Bharath Reddy	Signature Recognition and Verification Using Machine Learning Softmax Regression Model	Challenges and Possible Solutions for emerging trends in Technologies	978-93-5627-777-706-9
4.	R.Krishna Nayak	AI Based Crop life prediction and analysis using Machine Learning Techniques	Challenges and Possible Solutions for emerging trends in Technologies	978-93-5627-706-9

FDP/SEMINARS CONDUCTED

S.NO.	Name of the event	Date
1.	Seminar on Trends and Challenges in Current research	20/05/2022 To 20/05/2022
2.	Seminar on Ethical Practices in Research Paper writing	19/04/2022 To 20/04/2022
3.	Seminar on Wake The Entrepreneur in You	12/04/2022 To 12/04/2022

STUDENT ARTICLE ON AI IN HEALTHCARE: WHERE INNOVATION MEETS HUMANITY

By, Shahana Illrd year (CSE)

AI in Healthcare: Where Innovation Meets Humanity



As computer science students, we stand at the intersection of innovation and humanity — where algorithms, data, and empathy unite to redefine healthcare.

Artificial Intelligence (AI) is revolutionizing medicine faster than ever before. What once took years of research can now be achieved in hours. From diagnosing complex diseases to discovering new drugs, AI empowers doctors with data-driven insights that save lives and reduce treatment costs.

In **robotic surgery**, AI-guided systems assist surgeons with precision, ensuring safer operations and quicker recovery. In **drug discovery**, AI models simulate molecular interactions, drastically cutting development time and expenses.

AI's influence extends to **mental healthcare**, where chat bots and apps help individuals manage anxiety and depression by detecting emotional changes early and connecting them to timely support. Meanwhile, in gene editing, AI enhances tools like CRISPR, enabling scientists to target and correct faulty genes — a leap toward personalized medicine and potential cures for genetic disorders.



The future of digital healthcare lies in predictive analysis, wearable devices, and intelligent systems that anticipate illnesses before they occur. AI won't replace doctors; it will empower them to make faster, smarter, and more compassionate decisions.



As emerging engineers, we see how code can heal — and how innovation, guided by ethics and empathy, can shape a healthier, more connected world.

STUDENTS ATTEMPTED COMPETITIVE EXAMS:

Sl No	Roll No	Name	Exam Reg No	Name of the Exam
1	19UP1A0408	LIKHITHA GADDAM	1792910	GRE
2	19UP1A0408	LIKHITHA GADDAM		DUOLINGO
3	19UP1A0430	JAYASREE BHAVANI SAKSHI	1981454	GRE
4	19UP1A0477	TELUKUNTALA SREYA REDDY	1821183	GRE

STUDENT ACHIEVEMENTS

Award of Excellence – Indian Red Cross Society

Vignan's Institute of Management and Technology for Women (VMTW) received the "Award of Excellence" from the Indian Red Cross Society, Telangana State Branch, for its successful voluntary blood donation drive in 2022.

This recognition highlights VMTW's commitment to social responsibility and humanitarian service. The institute appreciates the efforts of all students, faculty, and staff who contributed to this noble cause.



Best Plastic-Free Campus Award 2022

Vignan's Institute of Management and Technology for Women received the "Best Plastic-Free Campus Award 2022" from Jeeva Nadi Foundation, India, recognizing the institute's commitment to sustainability and its efforts in maintaining an eco-friendly, plastic-free campus.

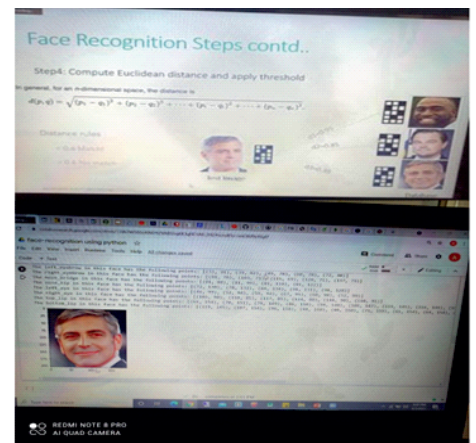


GUEST LECTURE

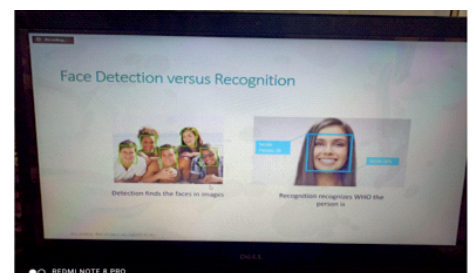
On Face Recognition Using Python

Organized by Department of CSE, VMTW

The Department of Computer Science and Engineering organized a workshop on "Face Recognition Using Python" on May 3, 2022, conducted by Dr. Anil Sharma from IIIT Delhi. The session aimed to introduce students and faculty to emerging technologies and career opportunities in the field of AI and face recognition.



Dr. Sharma highlighted the growing significance of Python in developing face recognition systems and encouraged participants to explore research possibilities and project-based learning. The workshop emphasized how such technologies can address real-world challenges and lead to innovative publications and proposals.



A total of 90 participants, including 20 faculty members, actively engaged in the event. The session inspired students to pursue research and innovation, fostering a strong culture of learning and collaboration within the department.

Workshop Conducted:

Title: A New Trend – Cloud Application

Dates: 20th & 21st April 2022

Conducted by: Dr. K. Kiran Kumar, SMSK, Hyderabad

Organized by: Faculty of CSE Department



A two-day workshop on “A New Trend – Cloud Application” was conducted by Dr. K. Kiran Kumar to provide insights into the deployment and management of cloud-based applications. The session focused on identifying suitable applications for cloud deployment, selecting the best deployment models, and understanding performance and monitoring tools essential for cloud environments.

Along with the technical aspects, Dr. Kiran Kumar also emphasized relaxation techniques to help participants manage stress and maintain a healthier lifestyle in today's fast-paced tech world. The interactive sessions, discussions, and hands-on exercises received excellent feedback from all 40 participants. The workshop proved to be both informative and engaging, offering valuable knowledge to students and faculty on modern cloud application trends.



An inspiring seminar on “Wake the entrepreneur in you” brought together curious minds at VMTW. The expert session by Dr. M Srinivas Rao offered fresh perspectives and practical insights. The event sparked thoughtful discussions and left students motivated to learn beyond the classroom!



CAMPUS RECRUITMENT

S.NO.	COMPANY'S NAME	OFFERS	PACKAGE	ROLE
1.	Accenture	5	4.5 LPA	Associate Software Engineer
2.	Accolite Digital	1	8 LPA	Software Engineer
3.	ADP	2	5 LPA	Technical Developer
4.	Amazon	2	4.5 LPA	TL Operations, Developer
5.	Amdocs	5	5 LPA	Software Developer
6.	Capegemini	3	4 LPA	Analyst
7.	Cognizant	11	4 LPA	Gen C
8.	CSS Corp	1	4 LPA	Developer
9.	DBS	1	8.5 LPA	Developer
10.	DXC Technology	5	4 LPA	Associate professional

OTHER EVENTS CONDUCTED

S.NO.	Name of the activity	Date
1.	Awareness Program On "Nutrition And Hydration" at Kondapur	28-05-2022
2.	Awareness On "Good Touch And Bad Touch" at ZPHS Kondapur	21-05-2022
3.	Butter Milk Distribution at Kondapur	07-05-2022
4.	Blood Donation: "Your Blood Saves Life" at VMTW Campus	12-05-2022
5.	Awareness Program On "She Team QR Code" at VMTW College Campus	30-04-2022
6.	"Social Giving"- To The "AIDS Effected People" at Ghatkesar	09-04-2022

EVENTS AT DEPARTMENT

A seminar on ethical practices in research paper writing was organized by the CSE on 19th & 20th April 2022. The session featured Dr. K Mahesh, who shared valuable insights on paper writing. It was an enriching and interactive experience that broadened students' understanding of research & development.



SUCCESS STORIES...

Congratulations!

23 STUDENTS HAS BEEN SELECTED FOR

PACKAGE: 4.5 LPA

accenture

SUCCESS STORIES...

Congratulations!

13 STUDENTS HAS BEEN SELECTED FOR

WITH PACKAGE: 5 LAKHS PER ANNUM + 20K OTHER BENEFITS

amdcs



IMAGES OF PROFESSIONAL ETHICS



Program Outcomes (Adapted from NBA)

Engineering Graduates will be able to:

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 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.

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 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 lifelong learning in the broadest context of technological change.