VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

INSIGHT

NEWS LETTER

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VOLUME NO:33

JUL - SEP, 2024

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. Amulya Rachna, Assistant Professor, CSE.
Ms. Jiya Batra, CSE (Student)
Ms. Ch Deepika, CSE(Student)
Ms. Nimitha Cirasanagandla, CSE(Student)
Ms. Aishwarya Bulusu , 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 Indira 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.

Events at Department: BIS Event:

The "Orientation of Standards Club - 2024" event was organized on September 25, 2024, at Vignan's Institute of Management and Technology for Women. The event aimed to introduce students to the Standards Club, focusing on raising awareness about national and international standards. The orientation encouraged students to engage with standardization, technical knowledge, and a culture of quality, innovation, and sustainable development.

Objectives of the Event

- ▶ To introduce the Standards Club's mission and objectives to students.
- ▶ To educate students on the significance of standards across industries and how they support sustainable development.
- ▶ To highlight how standards foster innovation, sustainability, and infrastructure development aligned with Sustainable Development Goal 9 (SDG 9): Industry, Innovation, and Infrastructure.
- ▶ To encourage active participation in club activities related to quality standards, sustainability, and AI applications.

Debate Competition conducted during event:

IOrientation Programme: CSE Dept participated in orientation programme which was organized on 30th Aug 2024

FACULTY ARTICLE ON TECHNOLOGY IS CHANGING THE FUTURE OF JOBS

By, Mrs G Anitha, Assistant Professor (CSE)

How Technology is Changing the Future of Jobs

The rapid advancement of technology is redefining the global job landscape. Emerging technologies such as artificial intelligence, automation, robotics, and cloud computing are not only transforming industries but also reshaping the skills and roles required in the modern workplace.

While automation is taking over repetitive and manual tasks, it is simultaneously creating new opportunities in areas like data analytics, cybersecurity, machine learning, and digital transformation. This shift emphasizes the need for a workforce that is both technologically competent and adaptable to continuous change.

As educators, our role is to prepare students for this evolving future by equipping them with the right mix of technical expertise, problem-solving abilities, and lifelong learning attitudes. Encouraging innovation, creativity, and ethical use of technology will be key in

ensuring that our graduates thrive in this dynamic job market.

The future of work will be shaped by the synergy between human intelligence and technological advancement—a partnership that promises progress, productivity, and new possibilities.

FACULTY PUBLICATIONS

Sl No	Author	Title	ISSN No	Journal name
1	Mrs. D Vaishnavi	Accepted A* search optimization method customized path proposal utilizing neural networks	0130-7673	MIR research journal
2	Mrs. D Vaishnavi	A Review on Cyber Security: A Three Line Model	0130-7673	MIR research journal

FDP ATTENDED

Sl No	Name of the faculty	Event Type	Date of event	Mode of attending
1	Mrs B Mamatha	FDP- AI, ML &DL	8th TO 18th July 2024	Online
2	Mrs B Mamatha	Deep learning and smart driven applications	24th to 29th June -2024	Online
3	Mrs Amulya Rachna	Data Visualization and Analytics with Excel, Power BI, Tableau and Generative AI	05th to 11th July 2024	Online
4	Mrs Amulya Rachna	FDP- AI, ML &DL	8th TO 18th July 2024	Online

Sl No	Author	Title of book	ISSN No
1	Mrs M Parimala	Artificial intelligence- A sophisticated approach	978-93-93769-55-8
2	Dr. P Rajendra Prasad	Artificial intelligence- A sophisticated approach	978-93-93769-55-8
3	Mr. R Krishna Nayak	Artificial intelligence- A sophisticated approach	978-93-93769-55-8
4	Mrs. G Anitha	Artificial intelligence- A sophisticated approach	978-93-93769-55-8

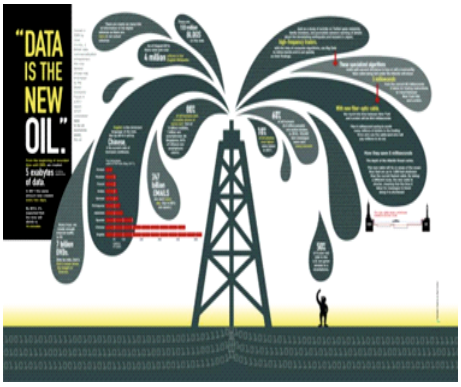
STUDENT ARTICLE ON FUELING THE DIGITAL ECONOMY

By, K S Preethi IV year (CSE)

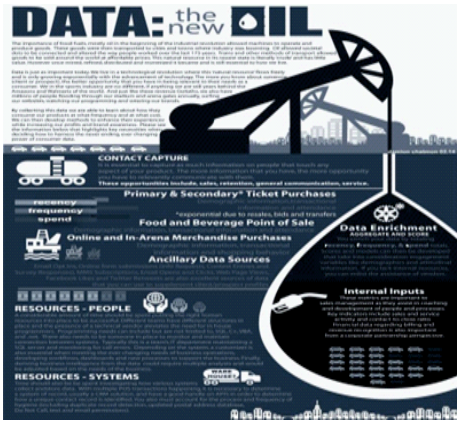
Data is the New Oil – Fueling the Digital Economy

In today's digital age, data has become the most valuable resource, often compared to oil for its immense power to drive innovation and growth. Just as oil fueled the industrial revolution, data is fueling the digital revolution—powering technologies like artificial intelligence, machine learning, and cloud computing.

Every click, purchase, and online interaction generates data that organizations use to understand customer behavior, improve products, and make smarter decisions. Companies like Google, Amazon, and Netflix thrive on data analytics to deliver personalized experiences and stay ahead in the competitive market.



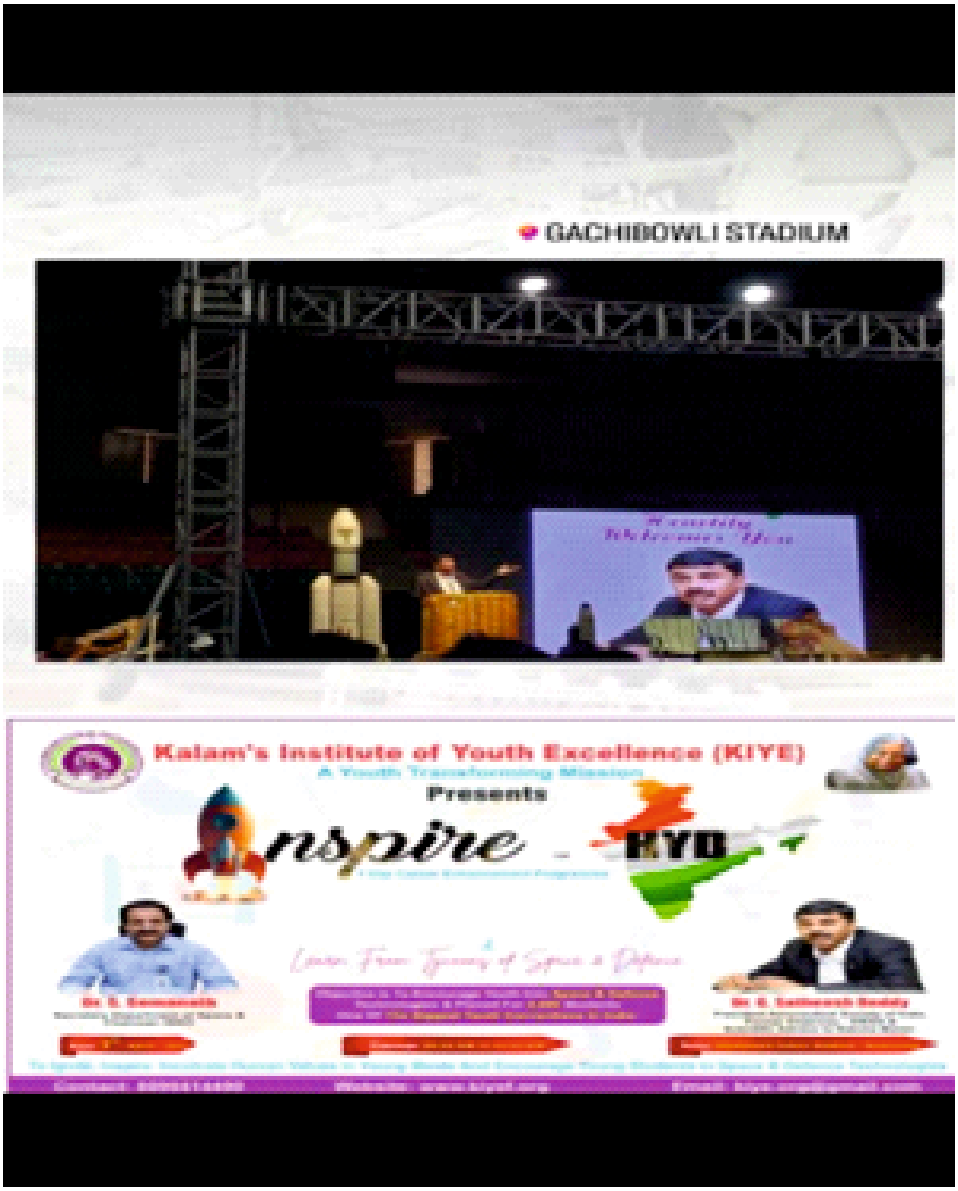
However, with great power comes great responsibility. Protecting user privacy, ensuring data security, and using data ethically are crucial in this data-driven world.



For today's tech-savvy students, learning to harness and analyze data effectively can unlock endless opportunities in the fields of data science, AI, and business intelligence. Truly, in the 21st century, data is the new oil—the key to shaping the future.

ACHIEVEMENTS

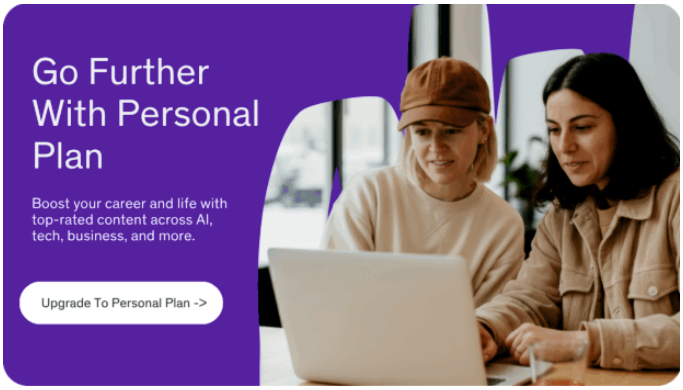
National Youth Festival: Jiya Batra of CSE & others received appreciation certificate and momento from G Sateesh Reddy sir at KIYE foundation.



CAMPUS RECRUITMENT

Sl No	Company Name	Package	Designation	No. of CSE Students placed
1	Deloitte	4.12 LPA	Associate analyst	6
2	Quality matrix	3 LPA	Testing engineer	2
3	Amazon	3.5 LPA	CSA	1
4	Avya IT	2.4 LPA- 8 LPA	Professional developer	2

Time Management



Responsibility

Inspiration

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.

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