



NEWSLETTER

OCTOBER - DECEMBER 2025
COMPUTER SCIENCE & ENGINEERING DEPARTMENT



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DEPARTMENT VISION

“

To create professionally competent and socially responsible technocrats with latest knowledge and innovative ideas to uplift the academia, industry and society.

”

DEPARTMENT MISSION

1. To achieve academic excellence by imparting in-depth knowledge to the students through effective pedagogies and practical exposure on latest tools and technologies.

2. To provide environment & opportunity for students to bring out their inherent talents for their overall development through training programs, workshops, projects and internships.

3. To promote innovative research in Computer Science and Engineering and interdisciplinary domains to cater the needs of the Government, Industry and Society.

4. To Educate and nurture entrepreneurial and ethical values through guidance and support.

FACULTY PUBLICATIONS

PUBLICATION:

1. SCIE INDEXED PUBLICATION:

Tiwari, D., Jha, A., Ahmad, M.T., Bhatele, K.R., Dixit, M. (2025). A novel hybrid deep learning approach for COVID-19 detection using CT scans and chest X-rays: CovVoxTrada. *Traitement du Signal*, Vol. 42, No. 5, pp. 2877-2892. <https://doi.org/10.18280/ts.420537>.

2. Scopus indexed publication :

Gupta, P., Dixit, M. Automated underwater crack classification using modified EfficientNet for infrastructure safety inspection. *Life Cycle Reliab Saf Eng* (2025). <https://doi.org/10.1007/s41872-025-00384-9>.

FACULTY ACHIEVEMENTS

FACULTY ACHIVEMENT:

1. Dr. Smita Parte Received NPTEL certificate for 1. ML&DL-Fundamentals and Application, 2-Computer Architecture and Organization.
2. Dr. Smita Parte actively participated in faculty Enablement Program (FEP) on cloud computing Conducted from November 10, 2025 to November 14, 2025.



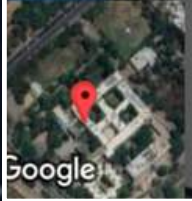
DEPARTMENTAL WORKSHOPS

1. THE RESEARCH ROADMAP: FROM QUESTION TO CONCLUSION

IEEE student chapter & IEI student chapter organised a workshop THE RESEARCH ROADMAP: From question to conclusion, Duration : 8th October 2025 and 9th October 2025.



DEPARTMENTAL WORKSHOPS



Gwalior, Madhya Pradesh,
Department Of Civil Engineering, Mela Gro
Gwalior, Madhya Pradesh 474005, India
Lat 26.231459° Long 78.205398°
08/10/2025 06:01 PM GMT +05:30



Gwalior, Madhya Pradesh, India 🇮🇳
Department Of Civil Engineering, Mela Ground, Thatipur, Gwalior,
Madhya Pradesh 474005, India
Lat 26.231458° Long 78.205384°
09/10/2025 05:33 PM GMT +05:30

DEPARTMENTAL WORKSHOPS



DEPARTMENTAL WORKSHOPS

2. PYTHON ESSENTIAL FOR ENGINEERING APPLICATIONS

Date: 21-22 NOVEMBER 2025

The Department organized a two-day Python Programming Workshop to enhance the programming skills of students and to introduce them to the practical applications of Python in modern computing. The workshop was conducted in three sessions spread across two days, and each session focused on gradually building the students' understanding of Python through theory, demonstrations, and hands-on practice



STUDENT ACTIVITIES & CLUBS

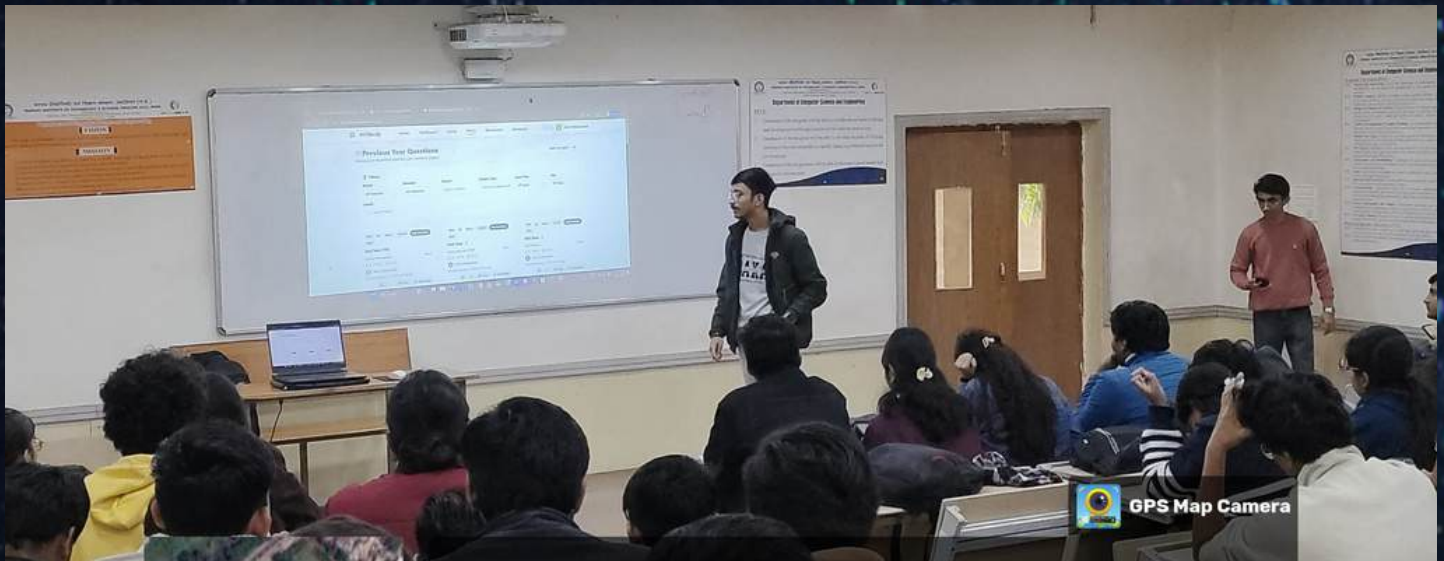
1. CAREER GUIDANCE SESSION :

Topic: Latest Technology Domains & Emerging Career Opportunities

Date: 22 Decemder 2025

Coordinator: Dr. Rahul Dubey, Assistant Professor

A dedicated career guidance session was organized for the 1st-year admitted students of the Computer Science & Engineering (CSE) Department. The session aimed to provide early exposure to modern technology trends, emerging career pathways, and industry-oriented insights. It contributed positively to the academic and professional orientation of the students.



STUDENT ACTIVITIES & CLUBS



STUDENT ACTIVITIES & CLUBS

2. TECH XPOSURE ACTIVITY :

TechXposure Organized by Innovation and DIY Club in collaboration with IEEE and IEI Student Chapter, 11 October 2025 Saturday, VENUE SH07

The event "TechXposure: From Curiosity to Clarity" was organized by the Innovation and DIY Club in collaboration with IEEE and IEI Student Chapter, with the primary objective of providing students with exposure to various software and technology domains.

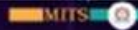
The technological domains that were covered included:

- Web Development**
- Artificial Intelligence (AI)**
- Machine Learning (ML)**
- App Development**
- Internet of Things (IoT)**
- Computer Vision**

The event's aim was to help students explore different technological fields, understand their real-world applications, and identify their own areas of interest and potential career paths.

STUDENT ACTIVITIES & CLUBS

(DECLARED UNDER DISTINCT CATEGORY BY MINISTRY OF EDUCATION, GOVERNMENT OF INDIA)
NAAC ACCREDITED WITH A++ GRADE



INNOVATION & DIY CLUB AND IEI STUDENT CHAPTER PRESENTS



TechXposure

"FROM CURIOSITY TO CLARITY"

WHAT'S IN IT FOR YOU?

- REAL-WORLD PROJECT BUILDING SKILLS FOR CAREER GROWTH.
- STEP-BY-STEP FLOWCHART AND ROADMAP EXPLANATIONS FOR TOP DOMAINS INCLUDING:

✓ WEB DEVELOPMENT

✓ INTERNET OF THINGS (IOT)

✓ APP DEVELOPMENT

✓ MACHINE LEARNING

✓ ARTIFICIAL INTELLIGENCE

✓ COMPUTER VISION

TEST YOUR KNOWLEDGE AND WIN GOODIES THROUGH INTERACTIVE QUIZES.

SOME GOODIES FOR EVERYONE



WHY JOIN?

- Hardcopy Certificates & Exciting Goodies for Everyone
- Get Exposure to Real Projects and Innovative Ideas
- Interact, Learn, and Network with Seniors
- Enjoy a Perfect Blend of Fun, Knowledge & Prizes
- Surprise for Everyone.
- T-shirts for selected participants

JOIN FOR
RS. 29 ONLY



REGISTRATION

DATE: 11 OCT
VENUE: SHOB

FOR QUERIES:

ADITI GUPTA
(9817772848)

MEDHAVI AGRAWAL
(6299317545)

STUDENT ACTIVITIES & CLUBS



STUDENT ACTIVITIES & CLUBS



WINNERS



STUDENT ACTIVITIES & CLUBS

3. Competitive Coding Club, MITS-DU, Gwalior :

Date: 16.08.2025 , Date: 17.08.2025

Date: 23.08.2025, Date: 20.09.2025

A 40 Hours workshop on “ Competitive Coding Practices” Coordinators: Dr. Ranjeet Kumar Singh, Assistant Professor. Dr Yashwant Swale, Assistant Professor.

The vision of this short-term course is to build the conceptual thinking ability of the students. The key concepts enhance the capability of the students to face interviews. Being an engineer through this course students learn to design solutions to real-world problems.

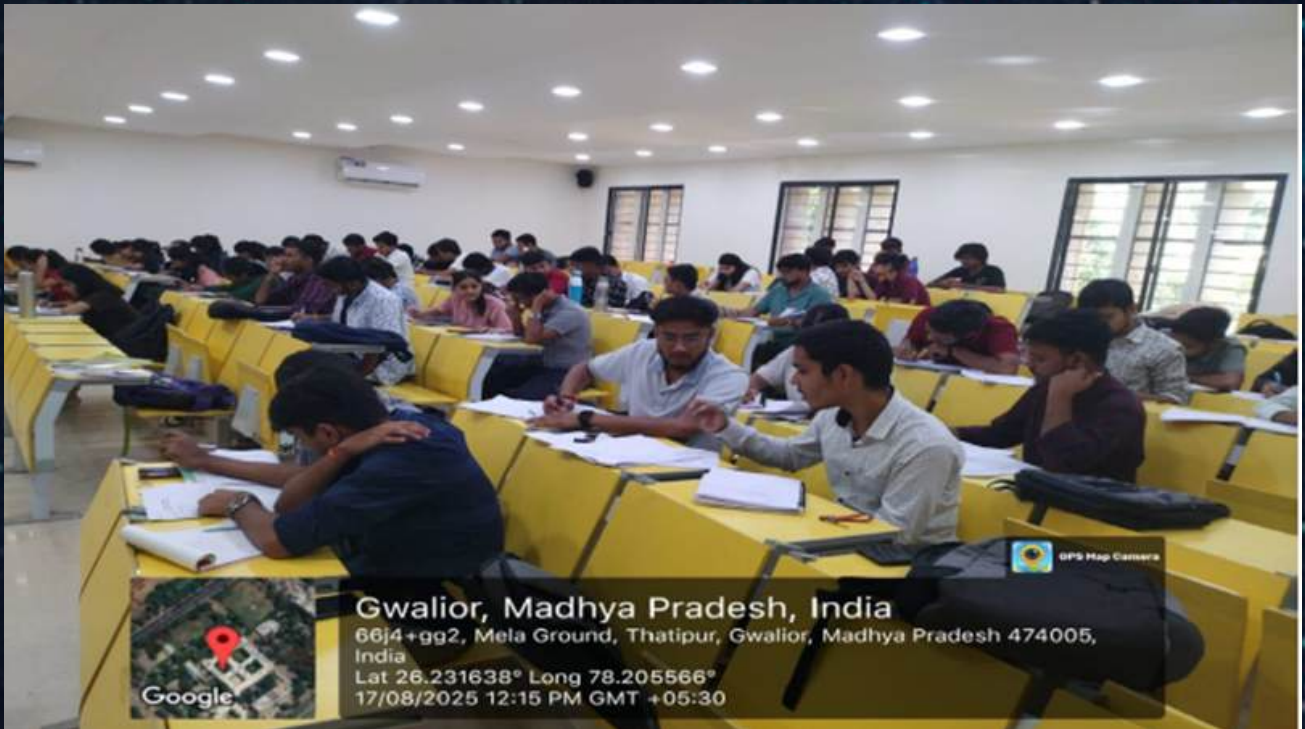
Objectives of the activity:

1. To provide an understanding of fundamentals concepts of data structures algorithms.
2. To solve the previous year's questions on data structure in Placements.
3. Enhance the technical skills and problem-solving capability of students to face interviews

STUDENT ACTIVITIES & CLUBS



STUDENT ACTIVITIES & CLUBS



INNOVATION & HACKATHONS

1. HackIgnite 1.0 2k25:

An innovation-driven hackathon, was successfully organized at Madhav Institute of Technology and Science (MITS), Gwalior on 5 December 2025. The event served as a dynamic platform to ignite creativity, analytical thinking, and collaborative problem-solving among newly admitted first-year students.

The hackathon was conducted from 08:00 AM to 08:00 PM at the Student Activity Center (SAC), providing participants with an immersive 12-hour environment for ideation, development, and innovation.

HackIgnite 1.0 2k25 proved to be a highly impactful event that aligned with the institute's vision of nurturing young innovators and promoting problem-solving through technology.

The enthusiastic participation of students, the guidance of esteemed faculty members, and the support of the student volunteer team collectively contributed to the remarkable success of the event.



INNOVATION & HACKATHONS



Gwalior, Madhya Pradesh, India
Racecourse Rd, Near Gola Ka Mandir, Mela Ground
Thalipour, Gwalior, Madhya Pradesh 474005, India
Lat 26.230776° Long 78.206021°
Friday, 05/12/2025 11:02 AM GMT +05:30



Gwalior, Madhya Pradesh, India
Racecourse Rd, Near Gola Ka Mandir, Mela Ground,
Thalipour, Gwalior, Madhya Pradesh 474005, India
Lat 26.230891° Long 78.205912°
Friday, 05/12/2025 11:02 AM GMT +05:30



तकनीक और नवाचार भविष्य की दिशा निर्धारित करते हैं

एमआईटीएस में हैकथॉन का आयोजन

काठगुड्डा • ग्वालियर

गुणवत्ता और नवाचार को बढ़ावा देने के लिए आयोजित हैकथॉन कार्यक्रम में 240 विद्यार्थियों (40 टीमों, प्रत्येक में 6 सदस्य) ने अपनी उत्कृष्टता के साथ भाग लिया। कार्यक्रम के मुख्य अतिथियों में संस्थान के माननीय कुलपति डॉ. अशोक शंकर ने भाग लिया और डॉ. अशोक शंकर ने कहा कि तकनीक और नवाचार भविष्य की दिशा निर्धारित करते हैं।

कार्यक्रम के मुख्य अतिथियों में संस्थान के माननीय कुलपति डॉ. अशोक शंकर ने भाग लिया और डॉ. अशोक शंकर ने कहा कि तकनीक और नवाचार भविष्य की दिशा निर्धारित करते हैं। कार्यक्रम के मुख्य अतिथियों में संस्थान के माननीय कुलपति डॉ. अशोक शंकर ने भाग लिया और डॉ. अशोक शंकर ने कहा कि तकनीक और नवाचार भविष्य की दिशा निर्धारित करते हैं।

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दैनिक ग्वालियर • ग्वालियर • दिनांक 2025 • वर्ष 27 • अंक 138 • पृष्ठ 16 • मूल्य 104

सच्चा सुधार

असत्य से सत्य असत्य से असत्य

गुणवत्ता और नवाचार
भविष्य की दिशा निर्धारित करते हैं

INNOVATION & HACKATHONS

2. Launch of SAR Management System :

The Department organized a workshop for the launch of the **SAR Management System** to familiarize faculty with its features and workflow. The session demonstrated SAR submission, verification, and report generation, emphasizing centralized accreditation data management and effective platform adoption through live demonstrations.

Developed by Anuj Shrivastava, B.Tech (CSE), 2023-27 Batch

Website: <http://sar.mitsgwalior.in>



INNOVATION & HACKATHONS



CULTURAL & HOLISTIC DEVELOPMENT

1. CLUB ACTIVITY:

Nritya Sangam - The Dance Club organised 20th Udhav Utsav

Date : 27th -29th Oct 2025

Venue:

- Day 1: Indian Institute of Tourism and Travel Management (IITTM) Govindpuri
- Day 2: Jiwaji University, Gwalior
- Day 3: Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya (RVSKVV) Gwalior

Faculty Coordinators:

- Dr. Parul Saxena (Dept of CSE),
- Dr. Bhavna Rathore (Dept of IOT EE)
- Prof. Vivek Sharma



CULTURAL & HOLISTIC DEVELOPMENT



CULTURAL & HOLISTIC DEVELOPMENT



उद्भव के मंच पर एम.आई.टी.एस. ने बिखेरी नृत्य की आभा



ग्वालियर। 20वें उद्भव उत्सव का भव्य समापन सांस्कृतिक उल्लास और कलात्मक प्रस्तुतियों के साथ हुआ। 25 अक्टूबर से 29 अक्टूबर के मध्य इस उत्सव में विभिन्न शिक्षण संस्थानों से प्रतिभागियों ने भाग लिया। इस तीन दिवसीय राष्ट्रीय स्तर के सांस्कृतिक आयोजन में नृत्य, संगीत, नाटक और लोककला की मनमोहक प्रस्तुतियाँ देखने को मिलीं। माधव प्रौद्योगिकी एवं विज्ञान संस्थान (एम.आई.टी.एस.), ग्वालियर की टीम ने नृत्य संगम से अपनी उत्कृष्ट प्रस्तुति से सभी का मन मोह लिया। टीम ने सेमी क्लासिकल (ओपन श्रेणी) में शानदार प्रदर्शन करते हुए ग्रुप कैटेगरी में नृत्यसंगम ने प्रथम उपविजेता का स्थान प्राप्त किया। वहीं सोलो कैटेगरी में आयुषी सारस्वत ने प्रथम स्थान हासिल कर एम.आई.टी.एस. का गौरव और बढ़ाया। यह उपलब्धि न केवल संस्थान के लिए गर्व का विषय है, बल्कि यह नृत्य संगम टीम के समर्पण और भारतीय शास्त्रीय नृत्य परंपरा के प्रति उनकी गहरी निष्ठा का प्रतीक भी है।

CULTURAL & HOLISTIC DEVELOPMENT

2. MITS-DU मेंतीन दिवसीय कार्यशाला (“Refine Your Life with Heartfulness Practice”)

कंप्यूटरविज्ञान एवं अभियांत्रिकी विभाग तथा यांत्रिक अभियांत्रिकी विभाग द्वारा संचालित “भगवद्गीता – एन इंट्रोडक्शन” और “माइंडफुलनेस मेडिटेशन” पाठ्यक्रमोंके अंतर्गत हार्टफुलनेस के सहयोग सेतीन दिवसीय कार्यशाला का आयोजन कियागया।

एम.आई.टी.एस.-डी.यू., ग्वालियरमें 9 से 11 अक्टूबर 2025 तक “Refine Your Life with Heartfulness Practice” शीर्षकसे तीन दिवसीय कार्यशालाका सफल आयोजन कियागया। इस कार्यशाला का मुख्य उद्देश्य प्रतिभागियों को हार्टफुलनेस साधनाके माध्यम से जीवन मेंशांति, संतुलन और सकारात्मकता स्थापितकरने हेतु प्रेरित करनाथा।



CULTURAL & HOLISTIC DEVELOPMENT



FACULTY DEVELOPMENT PROGRAM(FDP):

Faculty Development Program (FDP)

Topic: Cyber Security in the Age of GenAI: Threats, Defenses, and Intelligent SOCs with LLM Integration. Dates: 31st Dec 2025 to 5th Jan 2026 (Hybrid Mode) Collaborator: Electronics and ICT Academy, IIITDM Jabalpur.

This FDP aims to equip faculty, researchers, and professionals with knowledge of modern cyber security integrated with Generative AI. It covers Zero Trust, SOC operations, and AI-driven defense strategies.



FACULTY DEVELOPMENT PROGRAM(FDP):



SOME NEW RESEARCH IN CSE/AI FIELDS/ROBOTICS

LATEST COMPUTER TECHNOLOGIES (2025) :

1. ARTIFICIAL INTELLIGENCE (AI) & LLMs :

Recent research in AI has focused heavily on more efficient, reliable, and multimodal models. New Large Language Models (LLMs) can now process text, images, audio, and video together, enabling advanced assistants and agents. Researchers are improving reasoning, memory, and tool-usage abilities, allowing AI systems to plan tasks and execute them step-by-step. Significant progress has also been made in on-device AI, reducing dependence on cloud servers and improving privacy.

2. GENERATIVE AI & MULTIMODAL SYSTEMS :

Generative AI research has advanced toward real-time generation of videos, 3D objects, and code. New diffusion and transformer-based models generate high-quality visuals with less data and compute. Multimodal models can now understand charts, documents, diagrams, and real-world scenes, making them useful in education, healthcare, and software development.

3. AI AGENTS & AUTONOMOUS SYSTEMS :

AI agents are being developed that can interact with software, browse the web, write code, and make decisions autonomously. Research emphasizes long-term memory, feedback learning, and coordination between multiple agents. These systems are being tested for real-world applications such as customer support automation, research assistance, and DevOps workflows.

5. ROBOTICS & EMBODIED AI :

Recent robotics research focuses on general-purpose robots that can learn multiple tasks instead of single fixed actions. Vision-Language-Action (VLA) models allow robots to understand instructions in natural language and perform physical tasks. Progress in simulation-to-real transfer enables robots to learn faster in virtual environments and apply knowledge in the real world with minimal retraining.

SOME NEW RESEARCH IN CSE/AI FIELDS/ROBOTICS

6. HUMANOID & INDUSTRIAL ROBOTS :

Humanoid robots have shown improvements in balance, object manipulation, and coordination. New AI-driven control systems allow robots to perform factory, warehouse, and service-based tasks more safely alongside humans. Research is also focusing on energy-efficient actuators and adaptive grip mechanisms.

7. CYBERSECURITY & AI SAFETY :

AI research now strongly emphasizes model safety, hallucination reduction, and alignment. New techniques detect deepfakes, AI-generated malware, and prompt-based attacks. AI-powered security systems can automatically analyze threats and respond in real time, improving protection for cloud and enterprise systems.

8. EDGE COMPUTING & AIoT :

AI models are increasingly optimized for edge devices like mobile phones, sensors, and embedded systems. Research in AIoT (AI + IoT) enables real-time decision-making without constant internet connectivity, which is crucial for smart cities, healthcare monitoring, and autonomous vehicles.

9. QUANTUM COMPUTING & AI :

Recent studies explore hybrid quantum-classical algorithms for optimization, cryptography, and machine learning. While still experimental, research shows promise in speeding up complex AI computations and solving problems beyond classical limits.

10. SOFTWARE ENGINEERING & AI-ASSISTED DEVELOPMENT :

AI is now widely used in code generation, debugging, testing, and documentation. Research focuses on context-aware coding assistants, automated refactoring, and vulnerability detection, significantly improving developer productivity.