



Centre for Internet of Things

NEWSLETTER



The IoT-Insider



"Purity, patience, and perseverance are the three essentials to success."

SWAMI VIVEKANANDA

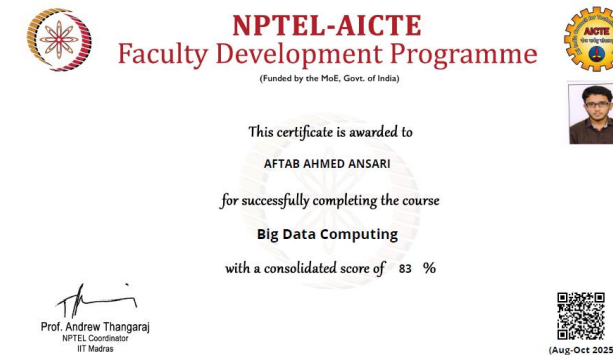
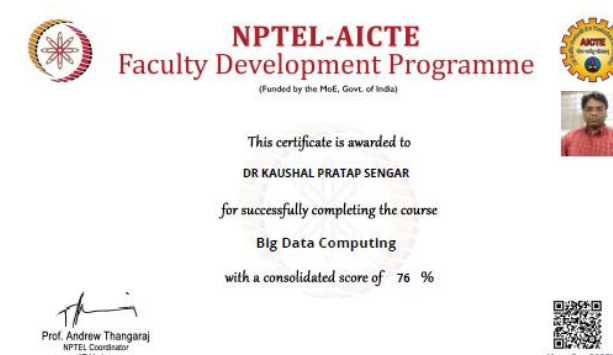
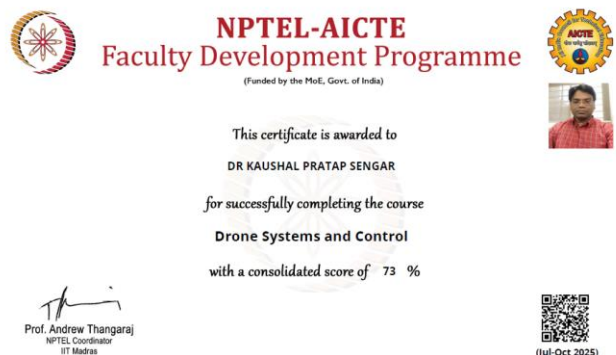


	Faculty Attended FDP Programs	
	Faculty Attended Workshops/Seminars	
	Faculty Publications	
	Faculty Achievements	
	Faculty Interaction with Outside World	
	Students Achievements , Awards and Internship	
	Latest News in IoT	



FACULTY TRAINING PROGRAMME/ FDP ATTENDED

- Dr. Kaushal Pratap Sengar** Completed 12 week faculty development program on “Drone Systems and Control” conducted by NPTEL-AICTE July-Oct 2025.
- Dr. Kaushal Pratap Sengar** Completed 12 week faculty development program on “Big Data Computing” conducted by NPTEL-AICTE Aug.-Oct 2025.
- Dr. Aftab Ahmed Ansari** Completed 12 week faculty development program on “Big Data Computing” conducted by NPTEL-AICTE Aug.-Oct 2025.





FACULTY NPTEL COURSE

- Dr. Kaushal Pratap Sengar** has completed **Elite + Silver** Certification in 8 week NPTEL Course on "Big Data Computing" from IIT Kanpur Aug.- Oct. 2025.
- Dr. Kaushal Pratap Sengar** has completed **Elite** Certification in 12 week NPTEL Course on "Drone Systems and Control" from IISc Bangalore July- Oct. 2025.
- Dr. Aftab Ahmed Ansari** has completed **Elite + Silver** Certification in 8 week NPTEL Course on "Big Data Computing" from IIT Kanpur Aug.- Oct. 2025. .





FACULTY TRAINING PROGRAMME/ FDP ATTENDED

- Dr. Dhananjay Bisen** has successfully participated in AICTE Training And Learning (ATAL) Academy Faculty Development Program on Geospatial Data Analytics: A fusion of spatial science and AI at A. P. SHAH INSTITUTE OF TECHNOLOGY from 24/11/2025 to 29/11/2025
- Dr. Dhananjay Bisen** has successfully participated in AICTE Training And Learning (ATAL) Academy Faculty Development Program on Emerging Trends in UAV-Aided Next Generation Wireless Communication: Challenges, Protocols, and Applications at RAJKIYA ENGINEERING COLLEGE KANNAUJ from 04/12/2025 to 09/12/2025.





FACULTY TRAINING PROGRAMME/ FDP ATTENDED

- **Dr. Aftab Ahmed Ansari** has successfully participated in AICTE Training And Learning (ATAL) Academy Faculty Development Program on *Next-Gen AI for Fog and Edge Computing : Building Intelligent, Decentralized IoT Networks* at Kongu Engineering College from 15/12/2025 to 20/12/2025.
- **Dr. Aftab Ahmed Ansari**, has successfully participated in AICTE Training And Learning (ATAL) Academy Faculty Development Program on *Emerging Power Converter Topologies and Control Methods for Electric Vehicles and Renewable Energy Systems* at NIT Bhopal from 17/11/2025 to 22/11/2025.





FACULTY FDP ATTENDED

- Dr. Saurabh Kumar Rajput** successfully participated in AICTE Training and Learning (ATAL) Academy Faculty Development Program on Driving the Future: Sustainable Mobility through Electric Vehicle Technologies and MATLAB Simulations at SHRI VISHWAKARMA SKILL UNIVERSITY from 08/12/2025 to 13/12/2025.
- Dr. Priyanka Garg** successfully participated in AICTE Training and Learning (ATAL) Academy Faculty Development Program on Smart Sensing for a Greener Tomorrow: Effective Usage of Electronic Sensors for Environmental Sustainability at RAJALAKSHMI INSTITUTE OF TECHNOLOGY from 15/12/2025 to 20/12/2025.





FACULTY Publications

- **Bisen, D., Saurabh, P., Dubey, A. et al.** Advancing Neural Architecture Search Through an Innovative Genetic Algorithm with Inverted Swap Crossover. *Natl. Acad. Sci. Lett.* (2025). <https://doi.org/10.1007/s40009-025-01733-z>. (SCIE (Q2 Journal), Scopus) (Impact Factor- 1.3)



FACULTY Publications (Conference)

- **Rajput, S.K.**, Singh, R., Gaur, M.K., Pandit, M. (2025). Comparative Study of Opaque and Bifacial Rooftop PV Plants at Residential Buildings. In: Tiwari, G.N., Dimri, N., Gupta, N. (eds) Energy, Ecology and Environment, Volume 1. SOLARIS 2024. Springer Proceedings in Energy. Springer, Singapore. https://doi.org/10.1007/978-981-96-7368-1_12
- Mausam Yadav, **Kaushal Pratap Sengar** “Modeling of wind turbine grounding electrode under lightning incidence” presented in “*International Conference on Electrical, Communication, and Computing Technologies (iCONECCT-2025)*” held from 26th to 28th December 2025 at Madhav Institute of Technology & Science (MITS), Deemed University, Gwalior (M.P)





FACULTY ACTIVITIES ORGANIZED (WORKSHOP/CONFERENCE/FDP/STC/WEBINAR)

- Dr. Priyanka Garg & Dr. Saurabh Kumar Rajput**, served as organizing secretary of the *International conference "ICSISCET- 2025"* organized in hybrid mode from **November 1 & 2, 2025** at MITS- DU



ग्वालियर 02-11-2025

एमआईटीएस: सम्मेलन का उद्घाटन

ग्वालियर। सातवां अंतरराष्ट्रीय सम्मेलन 'इंजीनियरिंग एवं प्रौद्योगिकी में वर्तमान चुनौतियों के लिए सतत एवं नवोन्मेषी समाधान (आईसीएसआईएससीईटी-2025)' का उद्घाटन शनिवार को माधव प्रौद्योगिकी एवं विज्ञान संस्थान (डीम्ड यूनिवर्सिटी) में सॉफ्ट कम्प्यूटिंग रिसर्च सोसाइटी (एससीआरएस) के सहयोग से सम्पन्न हुआ। उद्घाटन सत्र की शुरुआत प्रो. मंजरी पंडित प्रो-वाइस चांसलर, एमआईटीएस-डीयू एवं सम्मेलन की जनरल चेयर द्वारा सम्मेलन से संबंधित प्रमुख आंकड़े प्रस्तुत करने से हुई।

भविष्य की तकनीक तभी सार्थक होगी, जब वह मानव केंद्रित और सस्टेनेबल विकास की ओर उन्मुख हो

नईदुनिया प्रतिनिधि, ग्वालियर: एमआईटीएस में आयोजित दो दिवसीय अंतरराष्ट्रीय सम्मेलन का समापन रविवार को किया गया। इसमें 15 तकनीकी सत्र (एक आफलाइन एवं 14 आनलाइन) आयोजित किए गए, जिनमें आर्टिफिशियल इंटेलिजेंस, मशीन लर्निंग, साइबर सिक्योरिटी, क्लाउड कम्प्यूटिंग, एम्बेडेड सिस्टम, वीएलएसआई डिजाइन और सस्टेनेबल इंजीनियरिंग जैसे समकालीन विषयों पर विस्तृत चर्चा हुई। विभिन्न तकनीकी विषयों पर आमंत्रित वक्ताओं ने विचारात्तेजक व्याख्यान दिए गए, जिनमें गुगल, एएमडी, कैपिटल वन, साइनापटेक एलएलसी, राजकीय अभियांत्रिकी कालेज उग्र तथा भिस्सीरि यूनिवर्सिटी आफ साइंस एंड टेक्नोलॉजी (यूएसए) जैसे संस्थानों के विशेषज्ञ शामिल रहे। सम्मेलन के कोनोटेशन शिक्षाविदों और उद्योग विशेषज्ञों ने 'सस्टेनेबिलिटी एंड इंटेलिजेंस इन



अंतरराष्ट्रीय सम्मेलन में देश-विदेश से विशेषज्ञों ने व्याख्यान दिए। नईदुनिया

समुदाय को एकजुट कर सस्टेनेबल एवं नवोन्मेषी समाधान की दिशा में सार्थक योगदान दिया है। संस्थान के कुलपति डा. आरके पंडित ने कहा कि इस प्रकार के सम्मेलन शोध संस्कृति को सशक्त बनाते हैं और विद्यार्थियों में नवाचार के प्रति नई दृष्टि विकसित करते हैं। प्रो. केके अग्रवाल ने इंडस्ट्री 5.0 की दिशा में हो रहे वैश्विक परिवर्तन पर कहा कि भविष्य की तकनीक तभी सार्थक होगी, जब वह मानव-केंद्रित और सस्टेनेबल विकास की ओर उन्मुख हो।

FACULTY ACTIVITIES ORGANIZED (WORKSHOP/CONFERENCE/FDP/STC/WEBINAR)

- Dr. Bhavna Rathore, **Dr. Murli Manohar & Dr. Saurabh Kumar Rajput**, served as organizing secretary of the **IEEE International conference “iCONECCT- 2025”** organized in hybrid mode from December 26 to 28, 2025 at MITS- DU in Collaboration with NIT Uttarakhand and IEEE MP Section.



एमआईटीएस में आई ट्रिपल ई की अंतरराष्ट्रीय कॉन्फ्रेंस का शुभारंभ

स्वदेश संवाददाता ■ ग्वालियर
माधव इंस्टीट्यूट ऑफ टेक्नोलॉजी एंड साइंस (एमआईटीएस) डीम्ड यूनिवर्सिटी में आई ट्रिपल ई की अंतरराष्ट्रीय कॉन्फ्रेंस आई-कनेक्ट 2025 का शुभारंभ शुक्रवार को हुआ। यह कॉन्फ्रेंस इलेक्ट्रिकल, कंप्यूटेशन एवं कंप्यूटिंग टेक्नोलॉजी में हो रहे नवीन अनुसंधान और नवाचारों पर केंद्रित है। आयोजन एनआईटी उत्तराखंड के सहयोग से तथा आई ट्रिपल ई मध्यप्रदेश सेक्शन के तकनीकी संरक्षण में किया जा रहा है। कॉन्फ्रेंस के उद्घाटन सत्र में अतिथि के रूप में एमआईटीएस डीम्ड यूनिवर्सिटी के प्रो-चांसलर



प्रो. के. के. अग्रवाल एवं एबीवी ट्रिपलआईटीएम ग्वालियर के निदेशक डॉ. एस. एन. सिंह, आई ट्रिपल ई यूएसए के वाइस प्रेसिडेंट दीपक माथुर, आई ट्रिपल ई इंडिया काउंसिल की चेयर डॉ. प्रेरणा गौर सहित देश-विदेश के ख्यातिप्राप्त शिक्षाविद उपस्थित रहे। अतिथियों ने युवाओं को आर्टिफिशियल इंटेलिजेंस, स्टार्टअप और उद्योग



ग्वालियर 27-12-2025

आई-कनेक्ट 2025 कॉन्फ्रेंस 'शोध वही सार्थक है, जब वह समाज और उद्योग की जरूरतों से जुड़ा हो'

ग्वालियर। माधव इंस्टीट्यूट ऑफ टेक्नोलॉजी एंड साइंस डीम्ड यूनिवर्सिटी में आई-ट्रिपलई की अंतरराष्ट्रीय कॉन्फ्रेंस आई कनेक्ट 2025 का शुक्रवार को शुभारंभ हुआ। उद्घाटन सत्र में उपस्थित विशेषज्ञों ने छात्रों को आर्टिफिशियल इंटेलिजेंस, स्टार्टअप और उद्योग से जुड़े शोध की दिशा में आगे बढ़ने के लिए प्रेरित किया। कॉन्फ्रेंस की अर्गनाइजिंग चेयर डॉ. मंजरी पंडित ने कहा कि आज के दौर में शोध वही सार्थक है, जब वह समाज और उद्योग की जरूरतों से जुड़ा हो। उन्होंने बताया कि देश-विदेश से प्राप्त 860 से अधिक शोध पत्रों में से कड़ी समीक्षा के बाद 110 पेपर चयनित किए गए हैं।



FACULTY Achievements and Awards

- **Dr. Kaushal Pratap Sengar** has served as Session Chair in *7th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET 2025)* held at Madhav Institute of Technology & Science, Gwalior, India during November 01-02, 2025.
- **Dr. Kaushal Pratap Sengar** has served as a Reviewer for the International Conference on Electrical, Communication, and Computing Technologies (iCONECCT-2025), held at *MITS-DU Gwalior, India, in collaboration with NIT Uttarakhand and technically sponsored by the IEEE Madhya Pradesh Section*, during 26–28 December 2025.





FACULTY Achievements and Awards

- Dr. Saurabh Kumar Rajput** received Appreciation for getting Good FFI (4.38) in the course: Introduction to ECE taught to First Year B.Tech. Students of ECE, CIoT branch (July - December' 2025)
- Dr. Aftab Ahmed Ansari** received Appreciation for getting Good FFI (4.36 and 4.55) in the course: Digital Electronics, taught to First Year B.Tech. Students of IoT-A and IoT-B, C-IoT branch (July - December' 2025)
- Dr. Aftab Ahmed Ansari** has served as a Reviewer for iCONECCT-2025, held at *Madhav Institute of Technology & Science, Deemed University, Gwalior, India, in collaboration with NIT Uttarakhand and technically sponsored by the IEEE M.P Section*, during 26–28 December 2025.





FACULTY

Achievements and Awards

- Dr. Murli Manohar** delivered an expert lecture on “*AI-assisted Protection Strategies for DER-Integrated Active Distribution Networks*” in the Ten days Short Term Training Program (Online mode) on “*AI-Driven Solutions for Electrical Engineering: Intelligent Strategies to Tackle Modern EE Challenges*”, organized by Department of EE and CSE NIT Raipur from 8th October to 18th October, 2025.
- Dr. Murli Manohar** presented an expert talk on “Protection aspects of Distributed Energy Resources” during the one-week online Short Term Course (STC) on “Recent Trends in Power Electronics and Sustainable Energy Systems (RTPESES-2025)”, organized by Department of EE Dr. B. R. Ambedkar National Institute of Technology Jalandhar, from Dec. 15-19, 2025





Students Internship Attended

- **Tejaswa Karodi (0901EO221066)**, VII Semester student successfully participated & completed Altair Data Science Contest, hosted by Team Solar mobil MIT Manipal on 19th October 2025.
- **MD Nizam Ul Haque (0901IO221042)**, VII Semester student, successfully presented a research paper titled “AI-Driven Garbage Truck Monitoring & Smart Waste Management System” at a conference held on 6th November 2025, organized by GIET University, Gunupur, Odisha, India.





Students Achievements and Awards

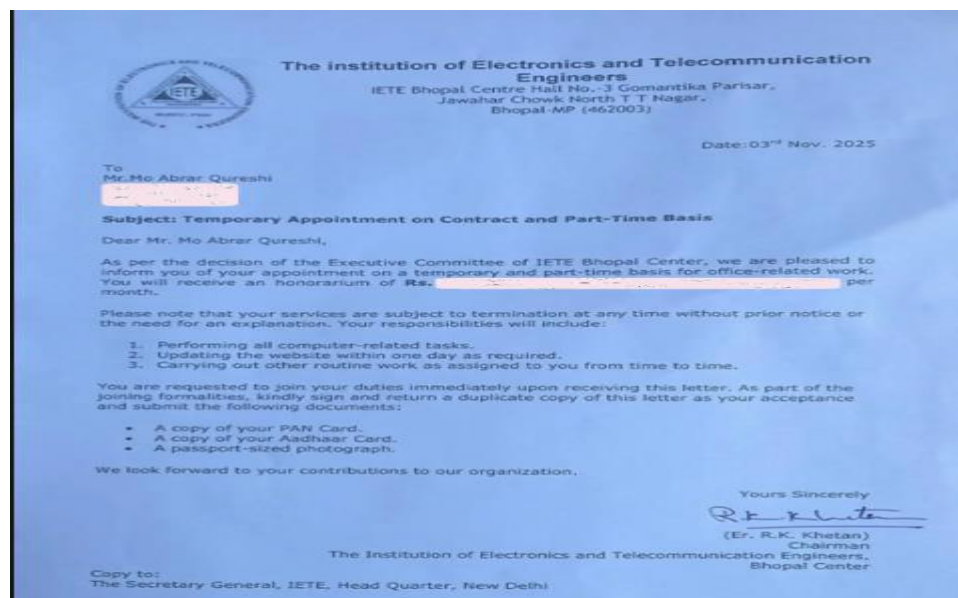
- Vivek Dabi (0901IO231076)**, V Semester student successfully participated & NPTEL Online Certification Indian Institute of technology Madras The Joy of Computing using Python Jul-Oct 2025.
- Om Chouksey (0901IO231037)**, V Semester student, Certificate of Completion has successfully completed the HP LIFE online course Professional Networking for Career Growth Presented 12/28/2025.





Students Achievements and Awards

- **Mo Abrar Qureshi (0901IO231034)**, V Semester student has received Offer letter as a Software engineer The Institution of Electronics and Telecommunication(IETE) Bhopal Presented on 11/3/2025.
- He has also successfully registered a startup, “SF Smartlabs,” under MSME India. presented on: 25/11/2025.



UDYAM REGISTRATION CERTIFICATE

UDYAM REGISTRATION NUMBER: UDYAM-MP-20-0896918

NAME OF ENTERPRISE: SF SMART LABS

TYPE OF ENTERPRISE: 1

MAJOR ACTIVITY: SERVICES

SOCIAL CATEGORY OF ENTREPRENEUR: OBC

NAME OF UNIT(S): SF Smart Labs

OFFICIAL ADDRESS OF ENTERPRISE: Plot/Door/Block No., Village/Town, Road/Street/Lane, State: MADHYA PRADESH, District: GWALIOR, Pin: 474005, Mobile: 9750712847, Email: sfsmartlabs@gmail.com

DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE: 14/09/2025

DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS: 14/09/2025

NATIONAL INDUSTRY CLASSIFICATION CODE(S): 88 - Education

DATE OF UDYAM REGISTRATION: 25/11/2025

For any assistance, you may contact:
1. District Industries Centre: GWALIOR (MADHYA PRADESH)
2. MSME-DFO: INDORE (MADHYA PRADESH)

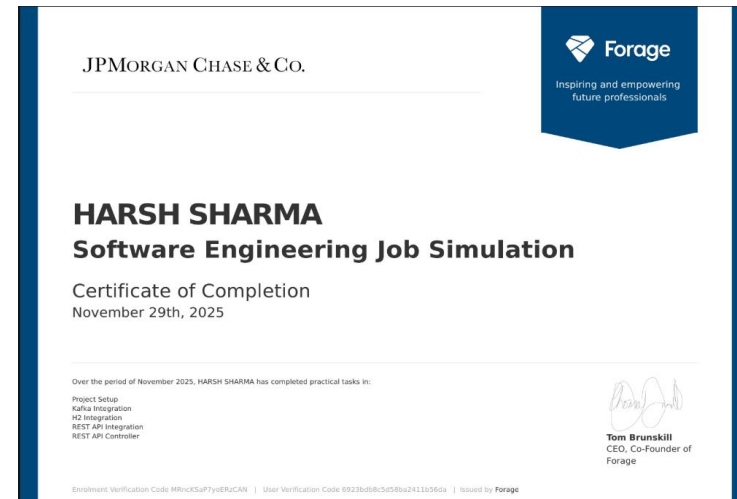
Visit: www.msme.gov.in ; www.domsme.gov.in ; www.mca2018.gov.in

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Students Achievements and Awards

- HARSH SHARMA (0901IO231021)** V Semester student has successfully completed Simulations and Training Programs: JPMorgan Chase & Co. – Job Simulation Completed on: 30/12/2025 Deloitte – Technology Job Simulation Completed on: 30/12/2025 and completed Startup School: Prompt to Prototype – Google for Startups on: 30/12/2025





Students Achievements and Awards

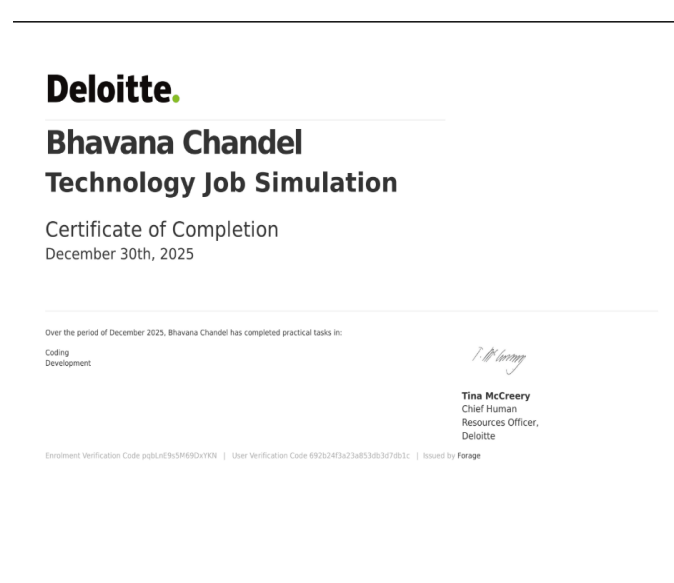
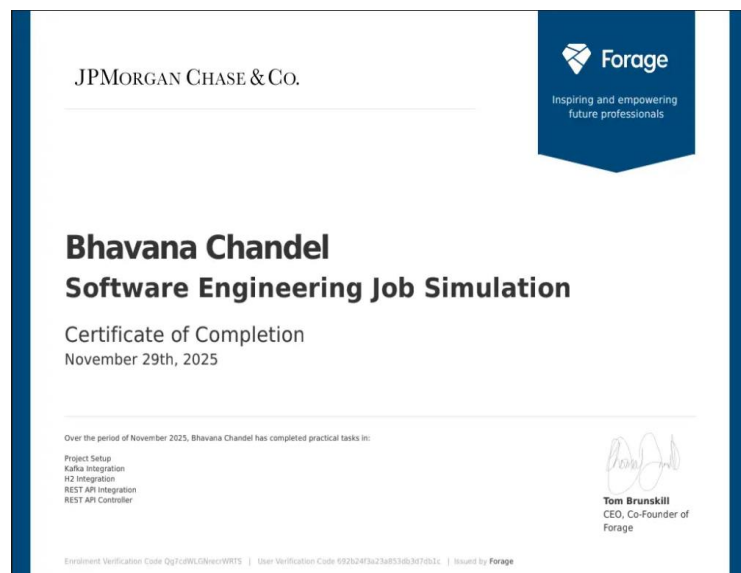
- **Piyush Paliya (0901EO231042)** V Semester student, participated in the Smart India Hackathon organized under the Ministry of Education. Date: 13/12/2025.
- **Kishan Shrivastava (0901EO231028)**, a V Semester student, participated in the Smart India Hackathon 2025 organized by AICTE. Date: 08/12/2025.





Students Achievements and Awards

- Bhavana Chandel (0901CD231015)** V Semester student has successfully completed the JP Morgan Software Engineering Job Simulation conducted by JPMorgan on 29/11/2025. Deloitte Technology Job Simulation conducted by Deloitte on 30/12/2025, and Startup School: Prompt to Prototype conducted by Google for Startups on 30/12/2025.



Students Achievements and Awards

- **Sneha Narwaria(0901EO231065)** V Semester student, successfully participated in the Smart India Hackathon 2025 Hardware Edition Grand Finale organized by O.P. Jindal University.
- **Gaurav Arya (BTIO24O1031)** III Semester student successfully p in the TechXposure event organized by the Innovation and DIY Club in collaboration with the IEI Student Chapter and IEEE Student Chapter at Madhav Institute of Technology & Science, Gwalior, on 11th October 2025





Students Achievements and Awards

- **Harshita Sharma (BTEO24O1018)** III Semester student, successfully participated in the Smart India Hackathon 2025 Hardware Edition Grand Finale organized by O.P. Jindal University.
- **Amit Kumar Vishwakarma (BTIO24O1009)** III Semester student, successfully participated in the Cloud Track Workshop conducted by the Google Developer Group (GDG) DevFest Gwalior, held on 20th December 2025.





Students Achievements and Awards

- **Twinkle Golhani (BTIO25O1137)** I Semester student, successfully participated in the Build with AI 3.0 event organised by Gemini CLI which conducted on 18th October 2025.
- **Harshita Gupta (BTIO25O1058)** I Semester student, successfully participated in the AI Unboxed organised by Soft Computing Research Club MITS Gwalior which conducted on 13th September 2025.



Students Achievements and Awards

- **Suhani Srivas (BTIO25O1129)** I Semester student, successfully participated in the Oracle's Trail organised by Aritistery Club MITS Gwalior on 11th October 2025
- **Rashmi Shivhare (BTIO25O1099)** I Semester student, successfully participated in the Oracle's Trail organised by Aritistery Club MITS Gwalior on 11th October 2025



Students Achievements and Awards

- **Alok Pratap Singh Jadon (BTIO2501016)** I Semester student, successfully participated in the Robo Code workshop organised by Robotic Club MITS Gwalior on 6th september 2025
- **Ajay Dhakad (BTIO2501014)** I Semester student, successfully participated in the Robo Code Workshop organised by Robotic Club MITS Gwalior on 6th september 2025





Students Achievements and Awards

- **Aaradhya Pandey (BTIO25O1003)** I Semester student, successfully participated in National Engineer's Day which organised by IEI Student Chapter MITS Gwalior on 15th September 2025
- **Avinash Paviya (BTEC25O1014)** I Semester student, successfully participated in the Deadlift Competition organised by Fitness Club MITS Gwalior on 11th August 2025
- **Anishk Rajawat (BTEC25O1007)** I Semester student, successfully participated in *Battlezone 4.0*, organized by the IEEE Student Branch of ABV-IIITM Gwalior, held on 3rd December 2025. The event encouraged teamwork, strategic thinking, and competitive spirit, contributing to the overall success of the program.





Latest Trends in IoT

IoT in Industrial Waste Monitoring

IoT enables real-time monitoring of industrial waste discharge by using smart sensors that continuously measure pollution levels in water and air, helping industries detect problems instantly. Water quality sensors connected through IoT monitor parameters such as pH, turbidity, temperature, and dissolved oxygen, ensuring early detection of water pollution. IoT systems help in detecting toxic chemicals and heavy metals in industrial wastewater, preventing harmful substances from entering natural water bodies. In air pollution control, IoT devices monitor harmful gases and particulate matter released from industrial chimneys and exhaust systems. Continuous emission monitoring systems (CEMS) based on IoT ensure industries comply with environmental regulations by providing accurate and automated data.





Newsletter Team



Dr. Manjaree Pandit
Professor & Pro Vice-Chancellor
Centre for Internet of Things
(Advisor)



Dr. Praveen Bansal
H.O.D
Centre for Internet of Things



Dr. Kaushal Pratap Senger
News Letter Coordinator
Assistant Professor
Centre for Internet of Things



Newsletter Team



Amit Kumar Vishwakarma
Student
IoT-2th Year
Centre for Internet of
Things



Aman Sharma
Student
IoT-2th Year
Centre for Internet of
Things



Pragya Singh
Student
IoT-3th Year
Centre for Internet of
Things



Khushi Mishra
Student
IoT-3th Year
Centre for Internet of
Things