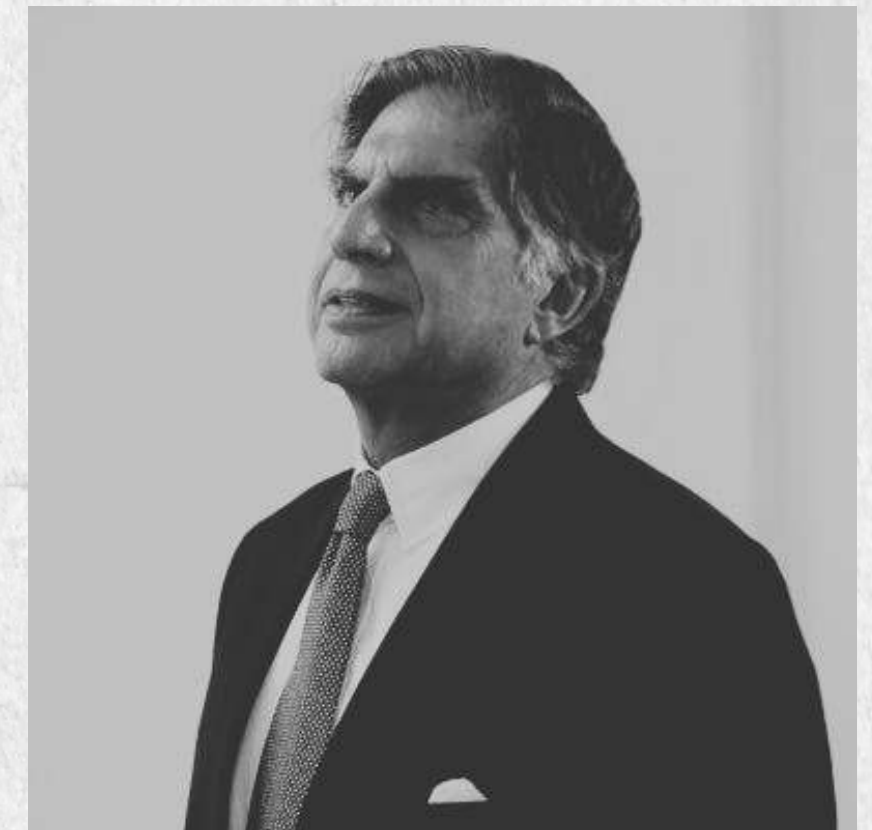


# ELEC-TECH TIME'S

*Be persistent and resilient in the face of challenges, for they are the building blocks of success*

*By : Late Mr. Ratan Naval Tata*



**माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत**  
**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA**

**Deemed to be University**

**(Declared Under Distinct Category By Ministry Of Education, Government Of India)**

**NAAC ACCREDITED WITH A++ GRADE**



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The Department of Electrical Engineering established in 1957, boasts a rich history as one of the institution's most earliest departments, initially enrolling 40 students. Currently, the department provides a diverse spectrum of educational opportunities, encompassing undergraduate, postgraduate, and doctoral programs in various Electrical Engineering disciplines. As of now, the B.Tech. program has a total capacity of 120 students, while the M.E. program in "Industrial Systems & Drives" accepts 25 students. Notably, in 2020, the department introduced a novel B.Tech. program focused on "Internet of Things," accommodating up to 60 students.

The department's primary areas of emphasis include Power Systems, Power Electronics, Control Systems, and Biomedical Instrumentation. To foster high-quality research, the department offers M.E. and Ph.D. programs, nurturing a culture of excellence in academic exploration. Equipped with cutting-edge laboratories, our department is dedicated to providing hands-on experiences that strengthen students' practical skills and actively support groundbreaking research initiatives.

Our department's mission is to prepare students for challenging roles in a wide array of industries and encourage engagement in research and development endeavors aimed at advancing society. To stay abreast of rapid technological advancements, our course syllabi are continually updated, and our laboratories are modernized. Our course offerings cater to a broad spectrum of learning needs, spanning from foundational knowledge to advanced expertise. Furthermore, the department offers a wide range of elective courses to cover contemporary technological trends and developments.



# VISION

- To create world class quality Engineers and Technocrats capable of providing leadership in all spheres of life and society

# MISSION

- To provide quality education in technical and allied disciplines.
- To organize and arrange innovative courses in Engineering and Technology.
- To arrange vocational courses in the upcoming fields and innovative subjects to meet global advancement.
- To promote research in the fields of Technology and Science.



# FACULTY ACHIEVEMENTS

## WORKSHOP/WEBINAR ATTENDED

- Training Program on “Grid Connected Rooftop Solar System: Dr. Yashwant Sawle delivered an insightful talk on “Grid Connected Rooftop Solar System” during a training program for DISCOM officials, organized by the National Power Training Institute (NPTI), Shivpuri. The event, held on 7-8 October 2024, was part of the PM SURYA GHAR: MUFT BIJLI YOJNA (PMSGMBY) initiative, aiming to promote rooftop solar systems and empower officials with technical expertise.
- Participation in IEEE PES Asian Meet: From 9-11 November 2024, Dr. Yashwant Sawle attended the IEEE PES Asian Meet in Bangalore. The meet brought together experts and professionals from across Asia to discuss emerging trends, challenges, and innovations in power and energy systems.
- Workshop on Ethical Publication Behavior: On 2 September 2024, Dr. Yashwant Sawle participated in a workshop titled “An Introduction to Ethical Publication Behavior” organized by the Web of Science. This workshop emphasized the importance of maintaining integrity in academic publishing and provided valuable insights into ethical research practices.



# FACULTY ACHIEVEMENTS

## WORKSHOP/WEBINAR ATTENDED

- Dr. Shishir Dixit chaired a session at the 16th IEEE International Conference on Computational Intelligence and Communication Networks (CICN-2024), held at Oriental University, Indore on 22-23 December 2024. His involvement in this event demonstrated his expertise in computational intelligence and communication networks.
- Dr. Shishir Dixit chaired a session at the 6th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET 2024) which took place at the Madhav Institute of Technology & Science, Gwalior, on October 26-27, 2024. This conference focused on sustainable solutions for engineering and technology, with Dr. Dixit contributing his knowledge and leadership.
- Dr. Shishir Dixit participated in the Software Defined Vehicles (SDV) Workshop: On 5th October 2024, Dr. Dixit attended the Software Defined Vehicles (SDV) workshop organized by BVICAM, New Delhi. The workshop provided valuable insights into the innovative field of Software Defined Vehicles, further enhancing Dr. Dixit's expertise in emerging technologies.



# FACULTY ACHIEVEMENTS

- Dr.Yashwant Sawle has contributed as a reviewer in IEEE IATMSI-2024 organised by IEEE MP Section & ABV-IIITM Gwalior





# FACULTY ACHIEVEMENTS

We are pleased to announce the opening of the IEI Student Chapter at the Electrical Engineering Department of MITS, Gwalior, MP. This chapter will provide students with opportunities for academic and professional growth through various technical and extracurricular activities.

The Faculty Advisor for the chapter is Dr. Vishal Chaudhary, Assistant Professor at MITS-DU, Gwalior. His mentorship will be instrumental in ensuring the success of the chapter and its activities.





# FACULTY ACHIEVEMENTS

Dr. Shishir Dixit,, chaired a session at the 6th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET 2024). The conference, held on October 26-27, 2024, provided a platform for discussing sustainable solutions in engineering and technology.



The image shows a certificate of appreciation for Dr. Shishir Dixit. At the top, there are five logos: a circular logo with a book, a logo with a stylized 'M' and 'L', a logo with a lightning bolt and 'MITS', a logo with 'PES' and a globe, and a circular logo with 'SCRS'. Below the logos is a blue banner with white text: "6th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET 2024)". Underneath is a white box with an orange header "ORGANIZED BY" and text in Hindi and English: "माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत" and "MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA". It also mentions "Deemed University" and "NAAC ACCREDITED WITH A++ GRADE". Below this is another blue banner: "TECHNICALLY SPONSORED BY: SOFT COMPUTING RESEARCH SOCIETY". The date "OCTOBER 26-27, 2024" is centered. The title "Certificate of Appreciation" is in bold. The main text reads: "We appreciate the support and cooperation of Dr. Shishir Dixit For chairing the session titled TS 05: Computational Intelligence & Machine learning in the 6th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET 2024) held during October 26-27, 2024." At the bottom, there are two signatures: "Prof. Manjaree Pandit (General Chair)" on the left and "Dr. Jagdish Chand Bansal (General Secretary, SCRS)" on the right. A vertical watermark "MITS\_DIJ/SCRS/ICSISCET\_2024/SC/20" is on the left side. The URL "https://scrs.in/conference/icsiscet2024" is at the bottom.

6th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET 2024)

ORGANIZED BY

माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत  
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA  
Deemed University  
(Declared under Distinct Category by Ministry of Education, Government of India)  
NAAC ACCREDITED WITH A++ GRADE

TECHNICALLY SPONSORED BY: SOFT COMPUTING RESEARCH SOCIETY

OCTOBER 26-27, 2024

**Certificate of Appreciation**

We appreciate the support and cooperation of  
Dr. Shishir Dixit  
For chairing the session titled  
TS 05: Computational Intelligence & Machine learning  
in the 6th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET 2024) held during October 26-27, 2024.

Prof. Manjaree Pandit  
(General Chair)

Dr. Jagdish Chand Bansal  
(General Secretary, SCRS)

<https://scrs.in/conference/icsiscet2024>



# PUBLICATIONS

- Mittal, Neharika, Bhavna Rathore, and Yashwant Sawle. "Approach for Automatic Irrigation with Farm Security Using Arduino." International Conference on Signal, Machines, Automation, and Algorithm. Springer, Singapore, 2024.
- Sikarwar, Shivangi, Rahul Sharma, and Yashwant Sawle. "Guardian Eye: Advanced Drowsiness Detection System for Safer Roads." International Conference on Signal, Machines, Automation, and Algorithm. Springer, Singapore, 2024.
- Singh, Himmat, and Yashwant Sawle. "State Estimation Approach Based on Hopfield Neural Networks." International Conference on Signal, Machines, Automation, and Algorithm. Springer, Singapore, 2024.
- Rajput, S. K., Kulshrestha, D., Paliwal, N., Saxena, V., Manna, S., Alsharif, M. H., & Kim, M. K. (2025). Forecasting capacitor banks for improving efficiency of grid-integrated PV plants: A machine learning approach. Energy Reports, 13, 140-160. <https://doi.org/10.1016/j.egyr.2024.12.011> (SCI Indexed)



# PUBLICATIONS

- Kratika Sharma, Ritu Tiwari, Arun Kumar Wadhvani & Shobhit Chaturvedi Evaluating the impact of land use land cover changes on urban ecosystem services in Nashik, India: a RS-GIS based approach, Environmental Earth Sciences, December (2024) 83:683 [\\_https://doi.org/10.1007/s12665-024-11965-9](https://doi.org/10.1007/s12665-024-11965-9), Environmental Earth Sciences, Springer, (SCI)
- Santosh Kumar, Arun Kumar Wadhvani, "Mathematically Design and Application of LCL Filter for Solar Photovoltaic System" Technische Sicherheit, Scopus And Ugc Care group 2 Journal TSJ, Paper Id: TSJ/2387, Volume 24, Issue 12, December 2024, DOI:16.0006, SAH, ISSN NO: 1434-9728/2191-0073, (Scopus Indexed).
- Babu, S., Wadhvani, A.K. (2025). Investigation of the Impact of EEG Signal Processing Techniques on Classification Performance. In: Kumar Singh, K., Singh, S., Srivastava, S., Bajpai, M.K. (eds) Machine Vision and Augmented Intelligence. MAI 2023. Lecture Notes in Electrical Engineering, vol 1211. Springer, Singapore. [\\_https://doi.org/10.1007/978-981-97-4359-9\\_27](https://doi.org/10.1007/978-981-97-4359-9_27)., Published:15 December 2024, Publisher Name: Springer, Singapore, Print ISBN:978-981-97-4358-2,Online ISBN:978-981-97-4359-9,-eBook Packages: Computer Science Computer Science. (Book Chapter)



# PUBLICATIONS

- Kulshrestha, D., Trivedi, I., Mansuri, M. S., Panse, G., Rajput, S. K., Sagwal, R. (2024). Performance and Cash-flow Study of Rooftop Photovoltaic Plant for Dispensary Building Energy Demand. Proceedings of the 4th IEEE International Conference on Advancement in Electronics & Communication Engineering (AECE-2024), 22nd-23rd November 2024. Successfully presented and accepted for publication.
- Rajput, S. K., Deo, A., Kulshrestha, D., Nandanwar, S. R., & Kolhee, M. L. (2024). Impact of Solar Intensity and PV Module Temperature on Power Quality and Transformer Life in Grid Connected Solar Photovoltaic Power Plants. Proceedings of the 10th International Symposium on Hydrogen Energy, Renewable Energy, and Materials, Bangkok, Thailand. Successfully presented and accepted for publication.
- Karodi, T., Rajput, S. K., Singhal, N., & Kulshrestha, D. Forecasting the Impact of High Solar Module Temperature on Power Output and CO<sub>2</sub> Mitigation: A Machine Learning Approach. Proceedings of the 2025 IEEE 1st International Conference on Smart and Sustainable Developments in Electrical Engineering (SSDEE), IIT (ISM), Dhanbad, India. Accepted for publication.



# ACTIVITIES ORGANIZED

## MITs - THE UNSEEN BEAUTY

This event was organized by Holistic health club (Faculty Coordinator Dr. Vishal Chaudhary). This event encourages participants to know the better overview of the institute, its history, and its achievements and they showcased cutting-edge research of the University through different work: Photography, Reel Making, Memes, Animation, Content Write-up And submit their amazing task via G-form.

Madhav Institute of Technology & Science, Gwalior(M.P), India  
माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर(म.प्र), भारत  
Deemed University, Gwalior  
(Declared under distinct category by Ministry of education, Govt. of India)  
NAAC ACCREDITED WITH A++ GRADE

**Holistic Health Club**  
Presents:  
**MITs: The Unseen Beauty**

Unleash your Creative Skills and get featured on Main hall Screen on Founder's Day:

- ◇ Reel Making 🎥
- ◇ Creative Write-Up 📝
- ◇ Photography 📷
- ◇ Animation 🎬
- ◇ Meme Creation 🖱️

Submission : 10<sup>th</sup>-12<sup>th</sup> November  
Mode: Online  
Result : 14<sup>th</sup> November  
E-Certificates for all

Scan to Register

Aditya Singh Tomar: 9424968570  
Aayushi Sharma : 6266192578



# ACTIVITIES ORGANIZED

## ENERGY IQ CHALLENGE

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA  
NAAC ACCREDITED WITH A++ GRADE  
Deemed University  
(Declared under Distinct Category by Ministry of Education, Government of India)

THE INSTITUTION OF ENGINEERS (INDIA)  
IEI STUDENTS' CHAPTER EED MITS

PRESENTS

**Energy IQ Challenge**  
National Level Quiz Competition

HARD COPY CERTIFICATES AND PRIZES FOR WINNER

E-CERTIFICATES FOR ALL THE PARTICIPANTS

DATE : 29 / 12 / 2024

TIME : 4 PM

FEES : RS 10

REGISTER HERE

COORDINATOR  
Prof. Vishal Chaudhary  
+91 99262 45805

This event was organized by IEI Students Chapter EED MITS (Faculty Advisor Dr. Vishal Chaudhary).

## CODE VERSE

MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR (M.P.) INDIA  
NAAC ACCREDITED WITH A++ GRADE  
DEEMED UNIVERSITY  
(Declared Under Distinct Category by Ministry of Education, Government of India)

INDIAN SOCIETY FOR TECHNICAL EDUCATION  
PRESENTS

**CODE VERSE**  
The Gauntlet of Algorithms Awaits the Worthy

November 14  
Mode : Online

REGISTER HERE

Who Can Join?  
Open to all skill levels!  
Showcase your talent, learn, and connect with fellow

Event Highlights  
Coding Challenges  
National Level E- certificate for all participants

Perks  
Get to know the practice questions from leading tech companies

For Queries Contact  
Anushka Thapa: 62655 26845  
Aman Bhadoria: 74157 59687

Certificate Partner

DON'T MISS OUT ON THIS OPPORTUNITY TO CODE, COMPETE, AND CONQUER!

Instagram, LinkedIn, Facebook icons

iste\_mits\_gwl | @iste-student-chapter-mits | istemits

This event was organized by ISTE Students Chapter MITS (Faculty Coordinator Dr. Vishal Chaudhary)



# ACTIVITIES ORGANIZED

## WORKSHOP ON RESEARCH PAPER WRITING

The Workshop on Research Paper Writing, organized by the Multidisciplinary Learning & Research Club and ISTE Student Chapter, MITS-DU, on 22nd November 2024, featured Dr. Manjaree Pandit as Chief Guest and Dr. Manoj Kumar Gaur as Speaker. Faculty Coordinators included Dr. Nikhil Paliwal, Dr. Saurabh Rajput, Dr. Vishal Chaudhary, Dr. Gagandeep Kaur & Dr. Mir Shahnawaz Ahmad, and . The session focused on academic writing, citation techniques, and publishing in high-impact journals.



**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA**  
DEEMED UNIVERSITY  
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NAAC ACCREDITED WITH A++ GRADE

**WORKSHOP ON RESEARCH PAPER WRITING**

ORGANISED BY  
**MULTIDISCIPLINARY LEARNING & RESEARCH CLUB**  
IN COLLABORATION WITH  
**ISTE STUDENTS' CHAPTER, MITS**

**Chief Guest**

  
**Dr. Manjaree Pandit**  
Dean Faculty of Engineering & Technology, MITS-DU, Gwalior

**Speaker**

  
**Dr. Manoj Kumar Gaur**  
Member, Research Advisory Cell  
Professor, MED, MITS-DU, Gwalior

**22.11.2024**  
**03:30 PM**  
**Onwards**

**Venue:**  
**MITS - DU**

**Open for All**  
**Across India**

**REGISTER NOW**

**E-CERTIFICATE WILL BE AWARDED TO ALL PARTICIPANTS WHO WILL ATTEND THE EVENT**

Student Coordinators:  
Aniket Kale  
Jalaj Sharma

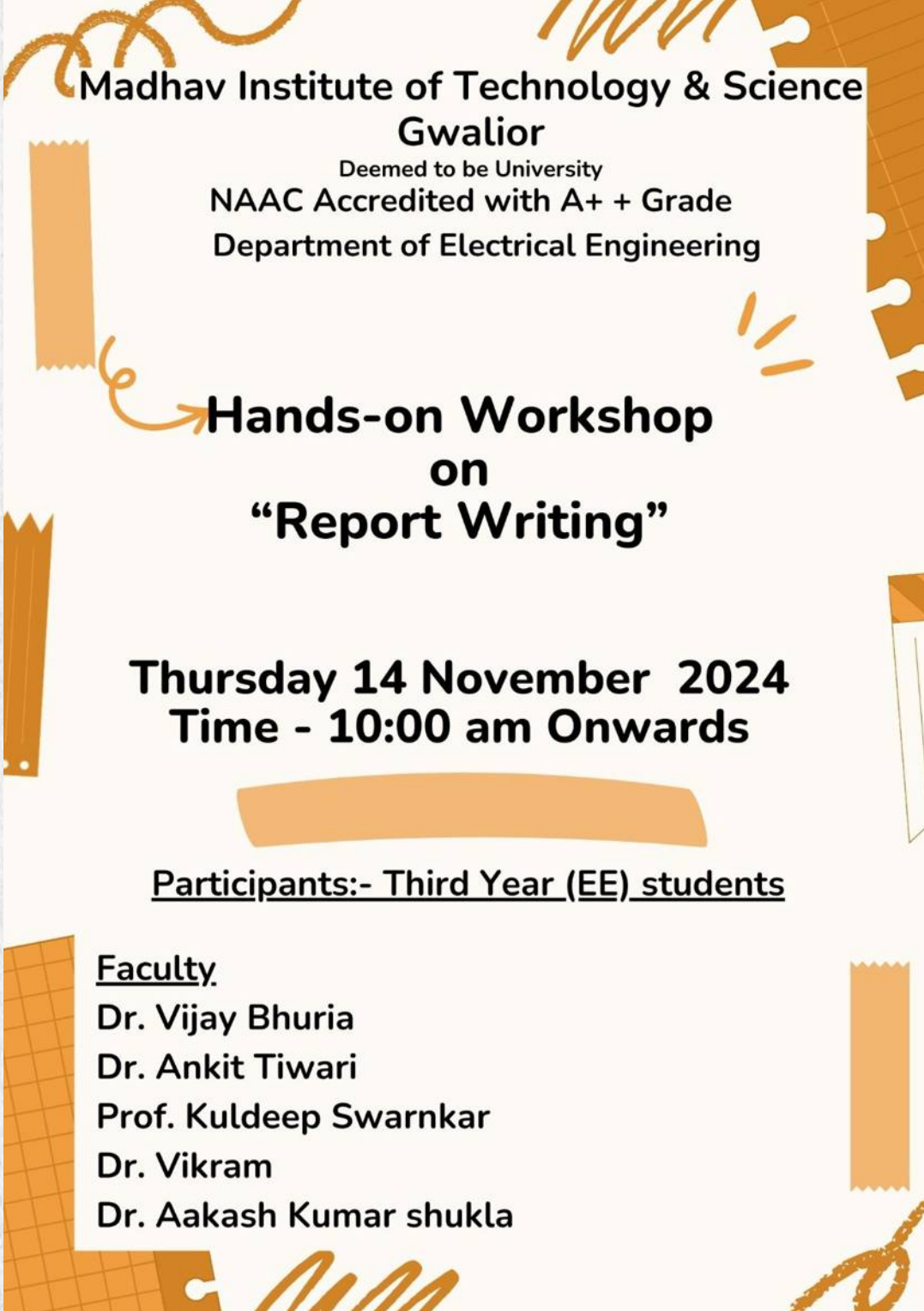
Contact  
+91-8450021055  
mdlrcmits@gmail.com



# ACTIVITIES ORGANIZED

## HANDS-ON-WORKSHOP

A workshop on Report Writing for Minor Project was organized for 3rd-year B.Tech Electrical Engineering students, conducted by Dr. Vijay Bhuria, Dr. Ankit Tiwari, Prof. Kuldeep Swarnkar, Dr. Vikram, and Dr. Aakash Kumar Shukla. The session focused on improving students' skills in structuring and writing technical reports, maintaining academic integrity, and adhering to standards. It aimed to equip students with the necessary tools to document their minor projects effectively and professionally.



Madhav Institute of Technology & Science  
Gwalior  
Deemed to be University  
NAAC Accredited with A+ + Grade  
Department of Electrical Engineering

**Hands-on Workshop  
on  
"Report Writing"**

**Thursday 14 November 2024  
Time - 10:00 am Onwards**

Participants:- Third Year (EE) students

Faculty.  
Dr. Vijay Bhuria  
Dr. Ankit Tiwari  
Prof. Kuldeep Swarnkar  
Dr. Vikram  
Dr. Aakash Kumar shukla



# ACTIVITIES ORGANIZED

## INTERACTION WITH ALUMINI

The event "Interaction with Alumni" organized by the Electrical Department of Madhav Institute of Technology & Science, Gwalior, has successfully been conducted. During the session, Mr. Sanidhya Chaturvedi (2022 batch), who achieved AIR 11 in GATE'24 and AIR 1 in UPSC (JE)'23, shared valuable insights from his academic and professional journey. The seminar was an inspiring experience for all attendees, with guidance on achieving success in competitive exams and career development. Faculty coordinators Dr. Vijay Bhuria and Prof. Kuldeep Swarnkar ensured the event's smooth execution.

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR (M.P) , INDIA  
DEEMED UNIVERSITY  
NAAC ACCREDITED WITH A++ GRADE

**ELECTRICAL DEPARTMENT**  
PRESENTS  
**AN ONLINE**  
*Interaction with Alumni*

  
Mr. Sanidhya Chaturvedi  
B.tech Electrical Engineering  
2022 passout batch  
1.AIR 11 GATE'24  
2.AIR 1 UPSC (JE)'23



**JOIN US:**  
**Coordinators:**  
Dr. Vijay Bhuria  
Prof. Kuldeep Swarnkar

**WHAT YOU'LL GET**

- Interactive session with a government officer
- In depth knowledge about Gate examination
- Build up Your Alumni Network

**SCHEDULE :**  
07 TH DECEMBER , 2024  
TIME : 4 TO 5 P.M

**MODE : ONLINE**

**Free e - certificates for all!!!**

**Contact Us:**  
Krishna Sharma - 9340881982  
Rajvardhan Singh Tomar - 7000299280



# 6TH ICSISCET CONFERENCE

The 6th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET 2024) was held on October 26-27, 2024, at the Madhav Institute of Technology and Science, Deemed University, Gwalior, MP, India, in Hybrid Mode (In-person & Online). Organized in collaboration with the Multidisciplinary Learning & Research Club and the IEEE PES Student Branch Chapter, and technically sponsored by the Soft Computing Research Society, the event brought together researchers, professionals, and students to share innovative ideas and sustainable solutions.

With proceedings published by Springer Nature, the conference featured keynote speeches, technical sessions, and networking opportunities. Guided by esteemed leaders, including Prof. K.K. Aggarwal, Dr. S.N. Singh, Dr. R.K. Pandit, and Dr. Manjaree Pandit, the event was a remarkable success. The Organizing Secretaries – Dr. Nikhil Paliwal, Dr. Saurabh Rajput, Dr. Gagandeep Kaur, SMIEEE, and Dr. Mir Shahnawaz Ahmad



# 6TH ICSISCET CONFERENCE



माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत  
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NAAC ACCREDITED WITH A++ GRADE

6<sup>th</sup> INTERNATIONAL CONFERENCE ON SUSTAINABLE & INNOVATIVE SOLUTIONS FOR CURRENT CHALLENGES IN ENGINEERING & TECHNOLOGY

Springer 26-27 OCTOBER

Technically Sponsored By : Soft Computing Research Society, Delhi, India  
The after-conference proceeding of the ICSISCET 2024 will be published in Springer Book Series, 'Algorithms for Intelligent Systems'

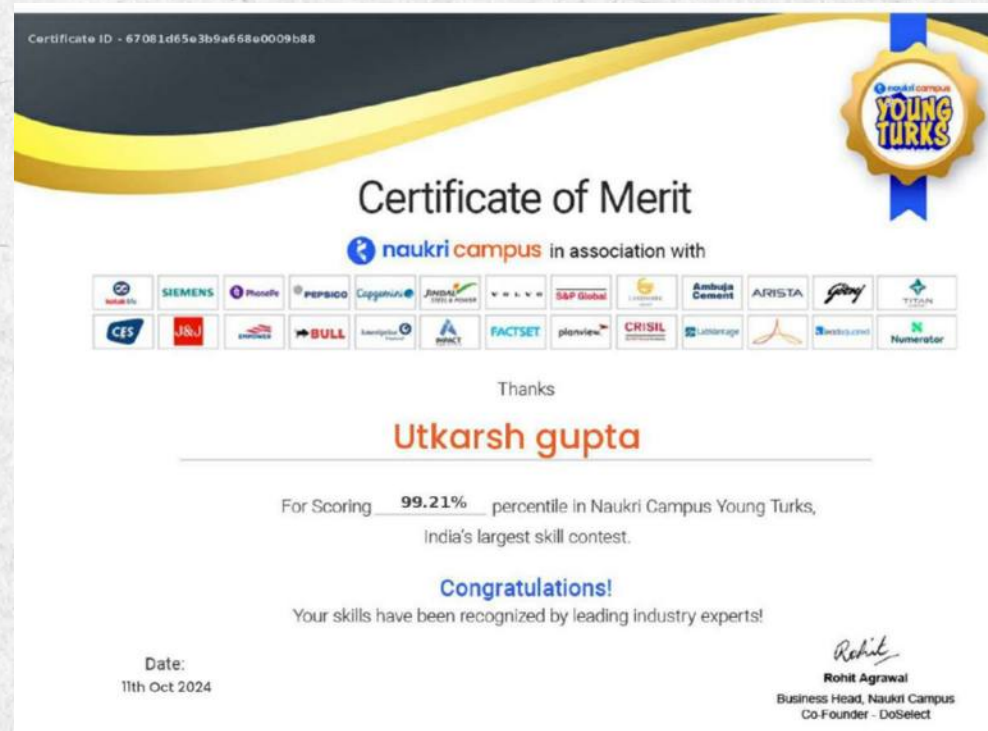
## ICSISCET-2024





# STUDENT PARTICIPATIONS & ACHIEVEMENTS

Mohini Mishra, a Final Year student at MITS Gwalior, recently showcased her exceptional talent as a commentator during the Passing Out Parade at the Officers Training Academy (OTA) in Gwalior on December 21, 2024. Her remarkable performance earned her a cash prize of 3K via cheque and a Certificate of Achievement. Mohini's ability to deliver insightful and engaging commentary reflects her skills and dedication, making her a proud representative of MITS Gwalior.



Utkarsh Gupta, Finar year student , recently participated in Round 1 of the prestigious Young Turks Program by Naukri Campus on October 11, 2024. This talent-driven initiative challenges students to demonstrate their problem-solving, analytical, and leadership skills through aptitude tests and case studies, evaluated by industry experts. Utkarsh excelled in the competition, achieving an impressive score of 99.21%! This experience has provided him with valuable exposure and real-world learning, and he eagerly looks forward to the next challenges, committed to continuous growth and learning.



# STUDENT PARTICIPATIONS & ACHIEVEMENTS

Durgesh Sen, a Final Year student at MITS Gwalior, recently participated in the Army Attachment Camp as part of the National Cadet Corps (NCC) on October 4, 2024. These camps provide NCC cadets with the unique opportunity to experience military life, living and training alongside regular Army personnel. During the 10-15 day camp, Durgesh gained valuable skills in physical fitness, discipline, and teamwork, while also gaining insights into the culture and values of the Indian Army. His participation earned him a certificate, marking a significant step in his NCC journey.



Anshika Sharma, a Final Year student at MITS Gwalior, recently participated in a Kho-Kho tournament on November 10, 2024. Her participation in this competitive event reflects her dedication to sports and teamwork. Anshika's commitment to excellence in Kho-Kho earned her a well-deserved certificate, showcasing her athletic abilities and sportsmanship.



# STUDENT PARTICIPATIONS & ACHIEVEMENTS

Sonu Kumar, a Third Year student at MITS Gwalior, recently showcased his dedication to learning by participating in several events. On December 29, 2024, he took part in the national-level Energy IQ Challenge, where his enthusiasm for energy-related topics stood out. Earlier in October, Sonu attended the Gateway to Success Insights from Top Rankers seminar on October 3rd and the Entrepreneurial Milestones event on October 19th, gaining valuable knowledge in career success and financial markets. His involvement in these events reflects his commitment to growth and learning.





# STUDENT PARTICIPATIONS & ACHIEVEMENTS

Rajat Khare, student at MITS Gwalior, has excelled in several NPTEL online courses. On November 3, 2024, he secured a Silver Medal with 81 marks out of 100 in the Smart Grid: Basics to Advanced Technologies course. Earlier, on October 27, 2024, he earned the Elite certification with 68 marks in Introduction to Industry 4.0 and Industrial Internet of Things. Additionally, Rajat completed the Advance Power Electronics and Control course on September 21, 2024, securing a Pass certification. His dedication to expanding his technical knowledge is truly commendable.

**Elite**  
**NPTEL ONLINE CERTIFICATION**  
 (Funded by the MoE, Govt. of India)

This certificate is awarded to  
**RAJAT KHARE**  
 for successfully completing the course

Smart Grid: Basics to Advanced Technologies

with a consolidated score of **81** %

Online Assignments	23.75/25	Proctored Exam	57/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 1968

Prof. Kaushik Ghosh, Professor (Chemistry), Coordinator CEC  
 Jul-Oct 2024 (12 week course)  
 Prof. Ranjana Pathania, Professor (BSBE), Coordinator (NPTEL)

Indian Institute of Technology Roorkee

Roll No: NPTEL24EE148S1059200444 To verify the certificate No. of credits recommended: 3 or 4

**NPTEL ONLINE CERTIFICATION**  
 (Funded by the MoE, Govt. of India)

This certificate is awarded to  
**RAJAT KHARE**  
 for successfully completing the course

Advance Power Electronics and Control

with a consolidated score of **57** %

Online Assignments	15/25	Proctored Exam	42/75
--------------------	-------	----------------	-------

Total number of candidates certified in this course: 393

Prof. Kaushik Ghosh, Professor (Chemistry), Coordinator CEC  
 Jul-Sep 2024 (8 week course)  
 Prof. Ranjana Pathania, Professor (BSBE), Coordinator (NPTEL)

Indian Institute of Technology Roorkee

Roll No: NPTEL24EE88S136200204 To verify the certificate No. of credits recommended: 2 or 3

MADHYA PRADESH POWER TRANSMISSION CO. LTD  
 Regd. Office Block no. 02 Shakti Bhawan P.O. Vidyut Nagar, Jabalpur - 482008  
 OFFICE OF THE EXECUTIVE ENGINEER (TESTING DN.1) BHOPAL  
 BIJLEE NAGAR, GOVINDPURA, BHOPAL-462023 Email : eet1.bpl@mptransco.nic.in  
 No. 335100/Estt/760 Dt. 27.12.24

**TRAINING CERTIFICATE**

This is to certify that *Shri Rajat Khare S/o Shri Arvind Kumar Khare* student of *Electrical Engineering*, IIIrd year from *MITS, Deemed to be University Gwalior*, has undergone Vocational Training of *High Voltage Electrical Equipments at 220 KV Substation MPPPTCL Bhopal* for Two weeks w.e.f. 12.12.24 to 27.12.24.

Place : Bhopal  
 Date : 27.12.24

Executive Engineer  
 Testing Division-1, MPPTCL Bhopal

**Elite**  
**NPTEL ONLINE CERTIFICATION**  
 (Funded by the MoE, Govt. of India)

This certificate is awarded to  
**RAJAT KHARE**  
 for successfully completing the course

Introduction to Industry 4.0 and Industrial Internet of Things

with a consolidated score of **68** %

Online Assignments	24.56/25	Proctored Exam	43.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 15725

Prof. Haimanti Banerji, Coordinator, NPTEL, IIT Kharagpur  
 Jul-Oct 2024 (12 week course)

Indian Institute of Technology Kharagpur

Roll No: NPTEL24CS95S459200676 To verify the certificate No. of credits recommended: 3 or 4



# STUDENT PARTICIPATIONS & ACHIEVEMENTS

Kavi Kumar, a Third Year student at MITS Gwalior, recently participated in the Neeti Summit organized by the Speakers Club on October 19-20, 2024. Additionally, Kavi attended the Understanding Body Language workshop on September 22, 2024, where he enhanced his communication skills.



Shambhavi Sharma, a Third Year student at MITS Gwalior, achieved remarkable success in sports and cultural events. She won a gold medal in the Kho-Kho Tournament on November 10, 2024, and secured a silver medal in the Basketball Tournament on October 19-20, 2024. Additionally, Shambhavi earned a gold medal for best poetry during the NCC Annual Training Camp held from October 1-10, 2024.



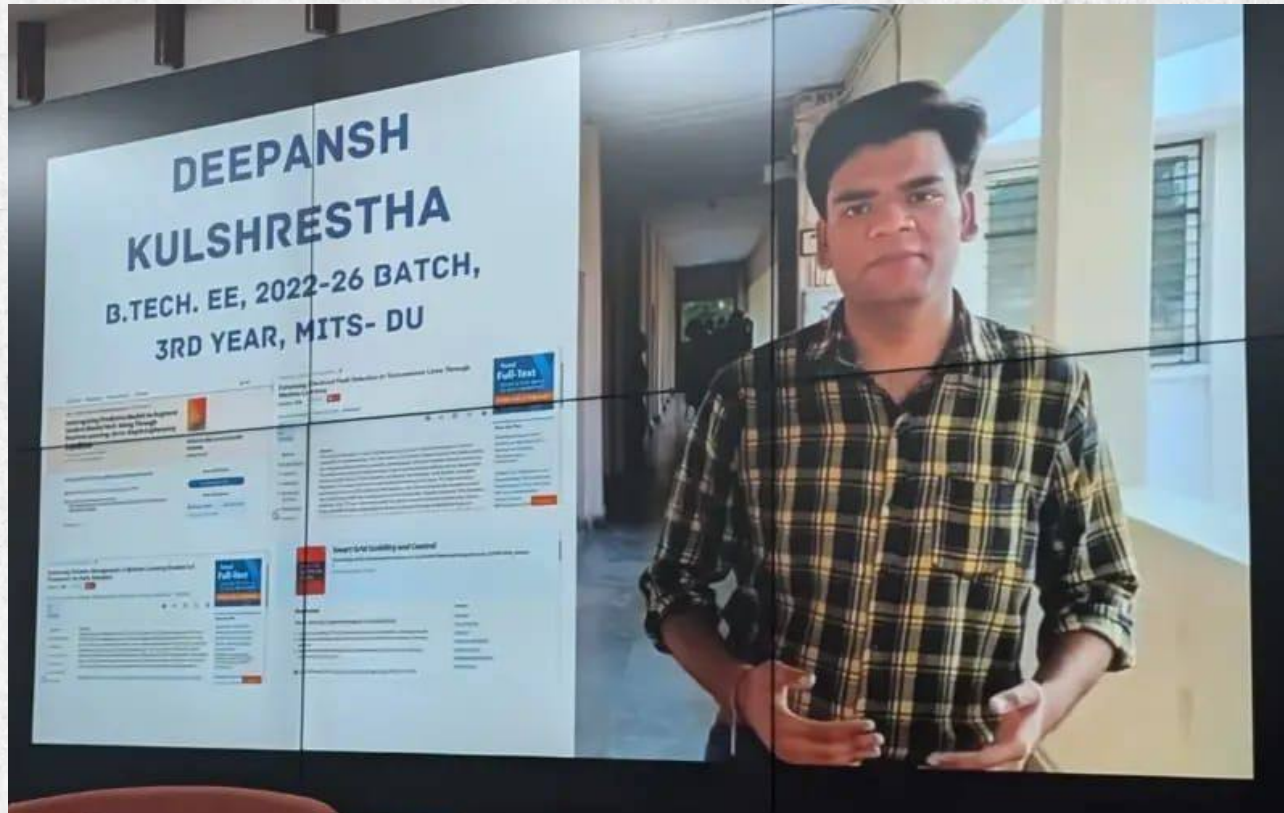


# STUDENT PARTICIPATIONS & ACHIEVEMENTS

Deepansh Kulshrestha, a 3rd-year Electrical Engineering student at MITS Gwalior, has had an exceptional year filled with leadership, academic achievements, and impactful contributions. He has taken on the role of Chairperson for the IEEE Student Branch MITS (2024-2025), guiding the IEEE community at the institute. In October, he actively participated in the IEEE MP Section Students and Leadership Congress at ABV-IIITM Gwalior. Additionally, he shared his expertise in a workshop on research paper writing at MITS Gwalior, helping his peers enhance their academic skills. Deepansh furthered his knowledge by completing an online course on Remote Sensing and Digital Image Analysis offered by IIRS, ISRO. As a core committee member, he played an integral role in organizing the 6th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET 2024) in October. Deepansh also presented a poster on "IoT Driven Machine Learning Framework for Early Detection and Monitoring of Covid-19 Suspects" at the National Poster Presentation on IoT. In November, he presented his research paper on rooftop photovoltaic plants at the 4th IEEE AECE Conference. Moreover, his research paper titled "Forecasting Capacitor Banks for Improving Efficiency of Grid-Integrated PV Plants" was published in Elsevier Energy Reports, a journal with an impact factor of 4.7. Deepansh's accomplishments reflect his commitment to academic excellence, leadership, and innovation, and we look forward to his continued success.



# STUDENT PARTICIPATIONS & ACHIEVEMENTS



**RAJ KUMAR GOEL INSTITUTE OF TECHNOLOGY**  
 (5<sup>th</sup> KM Stone Delhi-Meerut road, Ghaziabad, (U.P.)-201017)

**AECE 2024** | **IEEE**

**4<sup>th</sup> INTERNATIONAL CONFERENCE ON ADVANCEMENT IN ELECTRONICS & COMMUNICATION ENGINEERING**  
 22<sup>nd</sup> - 23<sup>rd</sup> NOVEMBER 2024

*Certificate of Appreciation*

This Certificate is presented to **Prof./Dr./Mr./Ms. Deepansh Kulshrestha** from Madhav Institute of Technology and Science (MITS-DU), Gwalior, M.P., India who has participated research paper titled *Performance and Cash-flow Study of Rooftop Photovoltaic Plant for Dispensary Building Energy Demand in the 4<sup>th</sup> International Conference on Advancement in Electronics & Communication Engineering (Technically sponsored by IEEE) held on 22<sup>nd</sup> - 23<sup>rd</sup> November 2024* jointly organized by Department of ECE and Department of CSE at Raj Kumar Goel Institute of Technology, Ghaziabad(U.P.), India.

**Dr. R.K. Yadav** (Conference Chair) | **Dr. B.C. Sharma** (Director, RKGIT)

भारतीय अंतरिक्ष अनुसंधान संगठन / **INDIAN SPACE RESEARCH ORGANISATION**  
 भारतीय सूक्ष्म संवेदन संस्थान, देहरादून / **INDIAN INSTITUTE OF REMOTE SENSING, DEHRADUN**

नामांकन सं. / Enrolment No.: 20241472511301

**CERTIFICATE OF ATTENDANCE ONLINE COURSE**

यह प्रमाणपत्र **MR. DEEPANSH KULSHRESTHA** को "सूक्ष्म संवेदन एवं अंतरिक्ष छवि विश्लेषण" में ऑनलाइन पाठ्यक्रम पूर्ण करने पर प्रदान किया जाता है। इस ऑनलाइन पाठ्यक्रम का आयोजन 2024-08-27 से 2024-09-20 (कुल पाठ्यक्रम की अवधि = 24 घंटे) के दौरान किया गया। (सर्वभूमि आर्क.आई.आर.एस. नोडल केंद्र - माधव प्रौद्योगिकी एवं विज्ञान संस्थान)

**THIS CERTIFICATE IS AWARDED TO MR. DEEPANSH KULSHRESTHA ON COMPLETION OF THE ONLINE COURSE ON "Remote Sensing and Digital Image Analysis"**

THIS ONLINE COURSE WAS CONDUCTED DURING 27 August 2024 to 20 September 2024 (Total course duration = 24 hrs). (Concerned IIRS Nodal Centre- Madhav Institute of Technology & Science)

Attendance: 75 %  
 Date: 21-10-2024

समन्वयक, विश्वविद्यालय/संस्थान | निदेशक/Director

**MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR(M.P.) INDIA**  
 माधव प्रौद्योगिकी एवं विज्ञान संस्थान ग्वालियर (म.प्र.) भारत (DEEMED TO BE UNIVERSITY) SAAC ACCREDITED WITH A++ GRADE

**CERTIFICATE OF PARTICIPATION**  
 CIOT/2024/EXPO/164

This is to certify that **Dr./Mr./Ms. Deepansh Kulshrestha** of "Madhav Institute of Technology & Science Deemed University Gwalior, Madhya Pradesh" has participated/presented a poster titled "IoT Driven Machine Learning Framework for Early Detection and Monitoring of Covid-19 Suspects" in one day National level poster presentation on Visualizing Connectivity: IoT Poster Expo-2024, organized by Centre for Internet of Things, Madhav Institute of Technology and Science Deemed University Gwalior (M.P.) on 19.10.2024

**Dr. Priyanka Garg** (Event Coordinator) | **Dr. Haushal Pratap Senger** (Event Coordinator) | **Dr. Praveen Bansal** (Coordinator, Center for IOT)

**Energy Reports**  
 Volume 13, June 2025, Pages 140-160

Research Paper  
**Forecasting capacitor banks for improving efficiency of grid-integrated PV plants: A machine learning approach**

Saurabh Kumar Rajput <sup>a</sup>, Deepansh Kulshrestha <sup>b</sup>, Nikhil Paliwal <sup>b</sup>, Vivek Saxena <sup>c</sup>, Saibal Manna <sup>c</sup>, Mohammed H. Alsharif <sup>d</sup>, Mun-Kyeom Kim <sup>e</sup>

<https://doi.org/10.1016/j.egyrs.2024.12.011>

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Abstract  
 Grid-connected rooftop PV systems are becoming more popular to promote renewable



# STUDENT PARTICIPATIONS & ACHIEVEMENTS

Ankit Yadav, a dedicated participant from our institution, showcased his talent in the Nukad Natak held during the Ek Bharat Shreshtha Bharat (EBSB) Camp in Ujjain from 23rd September to 4th October 2024. Competing against various teams, Ankit's exceptional performance captivated the audience and judges alike, earning him the First Prize. His efforts highlighted the rich cultural diversity and creativity of our students.



Akash Singh Tiwari participated in the Coding Ninjas event, a two-day technical coding competition held on 18th March 2024. Demonstrating exceptional problem-solving skills and enthusiasm, Akash was awarded a Certificate of Appreciation for his commendable performance in the event. His participation reflects the technical prowess and dedication of our students.





# STUDENT PARTICIPATIONS & ACHIEVEMENTS

Kshitij Singh Chauhan, a third-year student, excelled in both technical and cultural events at MITS Gwalior. In September 2024, he participated in the Xcalibre Mock Interview event, advancing to the final round and securing a position among the Top 20 ([View Certificate](#)). Additionally, in October 2024, he demonstrated exceptional debate and negotiation skills at the Neeti Summit Mock Parliament (AIPPM), earning recognition as one of the Top 5 Delegates, showcasing his versatility and leadership.



Aditya Singh Tomar, a third-year student, attended an Alumni Session on 7th December 2024, organized by the Department of Electrical Engineering, MITS Gwalior, featuring Mr. Sanidhya Chaturvedi (GATE AIR 11, UPSE JE AIR 1). He received a Participation Certificate for this insightful event.



# STUDENT PARTICIPATIONS & ACHIEVEMENTS

Kunal Gupta, a third-year student, participated in the Neta Ji Ghar Pe Hai political event and the Baatein Bachpan Ki poetry competition at MITS Gwalior. He received a Certificate for the political event and an E-certificate for his creative contribution to the poetry competition.

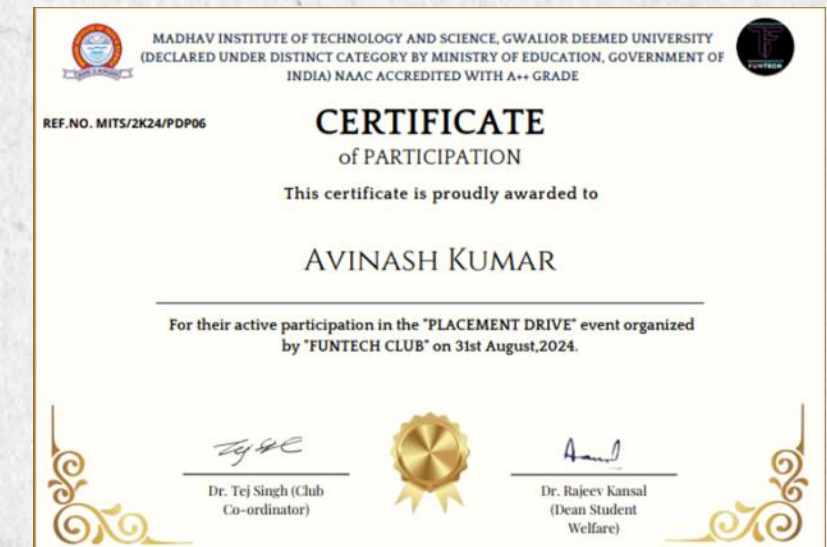


Khushi Khandelwal a third-year student, attended an Alumni Session on 7th December 2024, organized by the Department of Electrical Engineering, MITS Gwalior, featuring Mr. Sanidhya Chaturvedi (GATE AIR 11, UPSE JE AIR 1). He received a Participation Certificate for this insightful event.



# STUDENT PARTICIPATIONS & ACHIEVEMENTS

Avinash Kumar, a third-year student, participated in a Placement Drive at MITS Gwalior on 31st October 2024, where speakers discussed the future of AI and Data Science. The event provided valuable insights, helping him chart his career path. He received an E-certificate for his participation.



Krishna Sharma (Second Year) participated as an Organizer in the Alumni Session organized by the Department of Electrical Engineering, MITS Gwalior, on 7th December 2024. The session, held online, featured Mr. Sanidhya Chaturvedi (AIR 1 UPSC JE 23, AIR 11 GATE 24), who shared valuable insights on career and competitive exams. Krishna also participated in the National Level Poster Presentation on "Visualizing Connectivity: IoT" at Poster Expo-2024.





# STUDENT PARTICIPATIONS & ACHIEVEMENTS

Rishabh Shrivastava, a second-year student at MITS Gwalior, participated in the Treasure Hunt event held during the Hindi Mahotsav, a cultural event, from 25th to 27th October 2024. He was awarded a Certificate for his involvement in this exciting and engaging event.



Viplav Dixit, a second-year student at MITS Gwalior, participated in two sports events: the Football Tournament held on 18th and 19th October 2024, organized by the institute, for which he received a Certificate. He also organized and played in the Kho Kho Tournament on 8th November 2024, earning a Certificate for both playing and organizing the event.



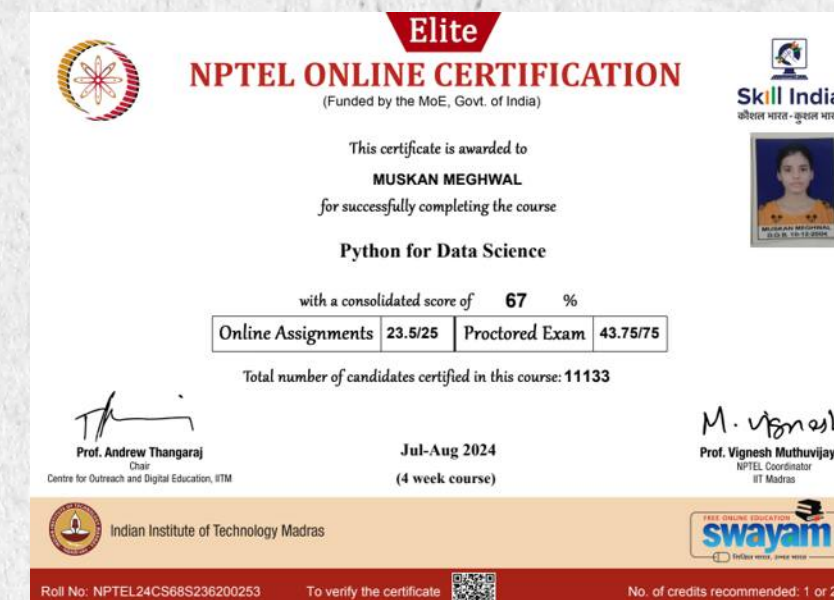
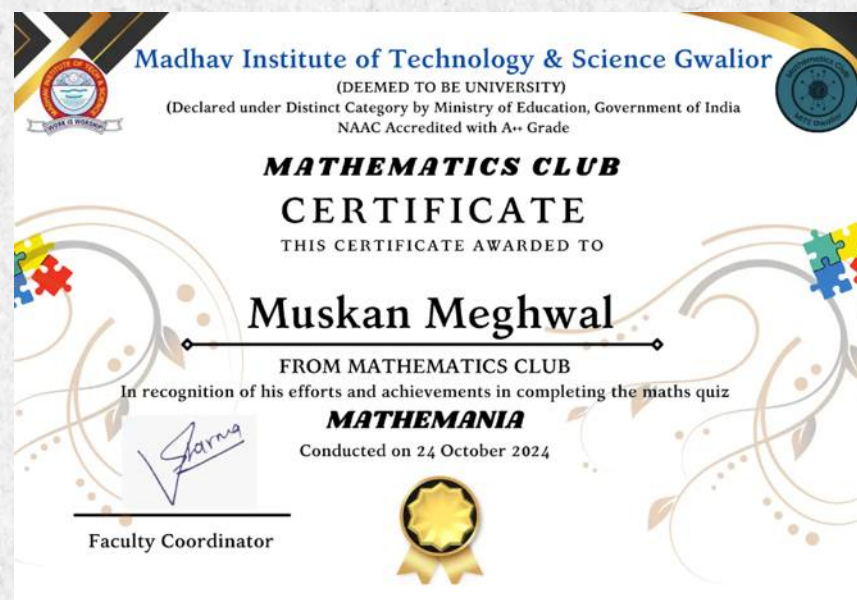


# STUDENT PARTICIPATIONS & ACHIEVEMENTS

Manasvi Gupta, a second-year student at MITS Gwalior, participated in the Quiz Competition held during the Tulsi Mahotsav on 26th October 2024. She received a Participation Certificate for her involvement in this cultural event.



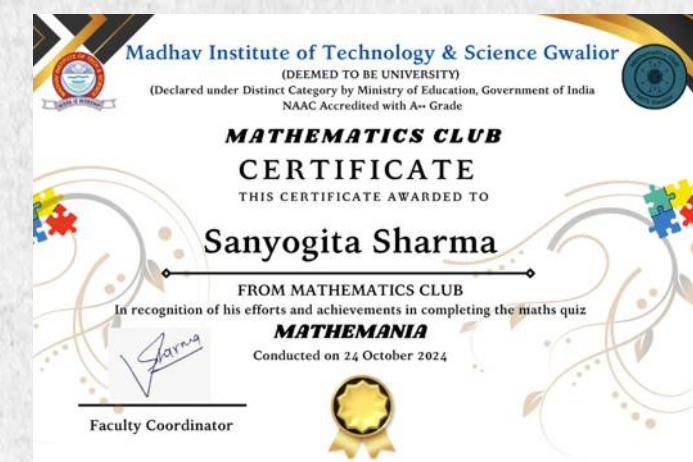
Muskan Meghwal, a second-year student at MITS Gwalior, actively participated in various events. She attended a Workshop on Entrepreneurial Milestones in October 2024, earning a certificate for her participation. Additionally, she took part in the Gurukul Quest Quiz and received a certificate. Muskan also successfully completed the NPTEL course on Python for Data Science, earning another certificate. Furthermore, she participated in an Online Maths Quiz, for which she was awarded a certificate. Her involvement in these diverse technical and cultural events reflects her commitment to both personal and academic development.





# STUDENT PARTICIPATIONS & ACHIEVEMENTS

Sanyogita Sharma, a second-year student at MITS Gwalior, has actively participated in a variety of events, showcasing her enthusiasm and versatility. She took part in the technical quiz "Brain Byte 3.0" on October 28, 2024, and the "Gateway to Success" seminar on October 3, 2024, gaining valuable insights from top rankers. Sanyogita also participated in the creative event "The Unseen Beauty" on November 14, 2024, and the mathematics quiz "Mathemania" on October 24, 2024, earning certificates of participation for each. Additionally, she attended an enriching "Interaction with Alumni" session on December 7, 2024, and showcased her interest in space science by participating in the National Space Quiz held from August 15 to August 23, 2024. Her active involvement in these diverse activities highlights her commitment to both academic and personal growth.





# STUDENT PARTICIPATIONS & ACHIEVEMENTS

Kratika Samadhiya, a second-year student at MITS Gwalior, has actively participated in various cultural, academic, and unique events. She showcased her singing talent in "Shruti Sangam," an open mic singing competition, on October 27. On October 26, she attended a guest lecture on "Gender Segregation in Occupation," gaining valuable insights into societal dynamics. She also participated in a webinar session titled "Interaction with Alumni" on December 7, fostering connections with accomplished alumni. Additionally, Kratika was part of the **world record** event for the largest attendance in a virtual meditation class on December 21, earning a participation certificate for this extraordinary experience.





# STUDENT PARTICIPATIONS & ACHIEVEMENTS

Shreya Singh, a first-year student at MITS Gwalior, has actively participated in diverse cultural and technical events, showcasing her talents and enthusiasm. She attended NEXTWAVE: Smart Living, an IEEE Day workshop organized by IEEE PES, Student Branch Chapter, in collaboration with ConnectTech Club and the Centre for Internet of Things, held from September 28 to 29, 2024. As a participant, she gained insights into innovative smart living solutions.

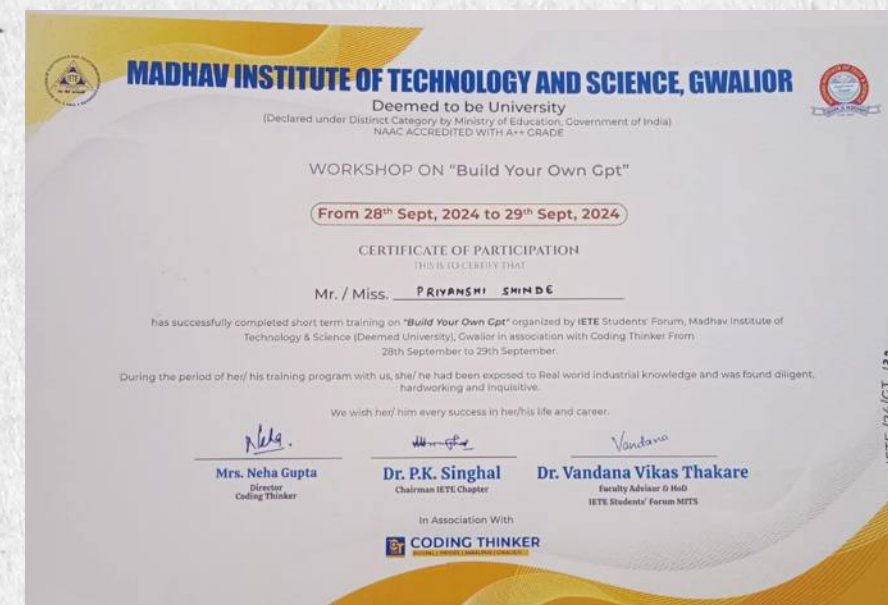
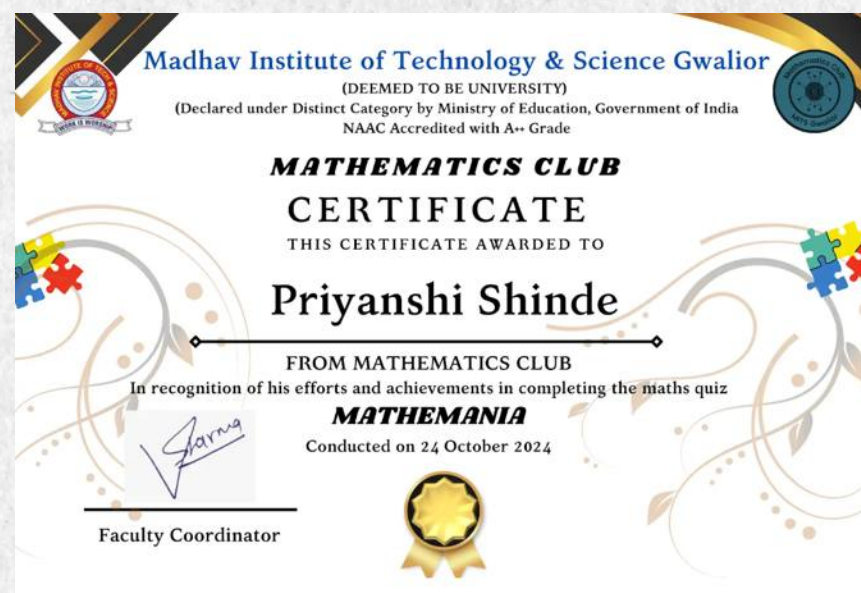
In the cultural domain, Shreya was a graphic designer for the team organizing indieरस, a two-day cultural fest hosted by the Nutrition Ninja Club on October 18 and 19, 2024. Her creative contributions added vibrancy to the event. Additionally, she participated in the three-day Tulsi Mahotsav 2024, an inter-university cultural event organized by the Hindi Samiti at MITS Gwalior from October 25 to 27, where she secured the 3rd prize in the poetry competition, highlighting her literary prowess.





# STUDENT PARTICIPATIONS & ACHIEVEMENTS

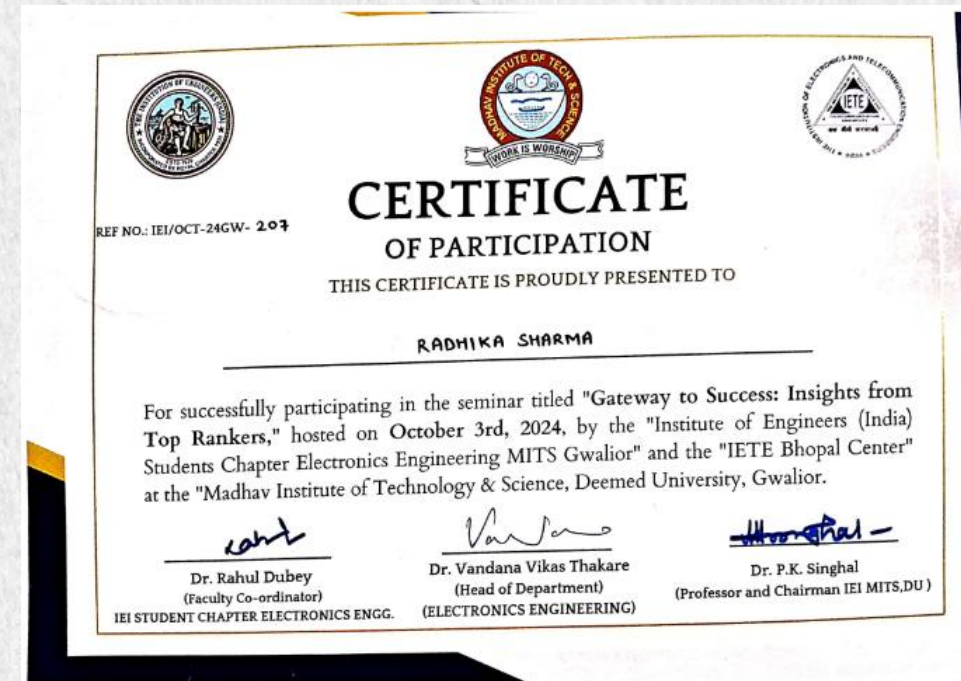
Priyanshi Shinde, a first-year student at MITS Gwalior, is actively involved in various technical events. She holds membership in the IEI Students Chapter for the Electrical Engineering Department, awarded on December 15, 2024. She participated in The Viral Quiz (November 1-3, 2024) and Mathemania, a mathematics quiz held on October 24, 2024. Priyanshi attended the Interaction with Alumni session on December 7, 2024, and the Build Your Own GPT workshop on September 28-29, 2024. Additionally, she participated in the Gateway to Success seminar on October 3, 2024, receiving certificates for her active participation.





# STUDENT PARTICIPATIONS & ACHIEVEMENTS

Radhika Sharma, a first-year student at MITS Gwalior, actively participated in both cultural and technical events. She took part in the Treasure Hunt at the Tulsi Mahotsav, a cultural event held from October 25 to October 27, 2024, where various activities like poetry, songs, and the treasure hunt were organized. She earned a certificate for her participation.



Radhika also attended the 3rd International Conference on Advances in Nanomaterials and Devices for Energy and Environment (CANDEE) at IIITM Gwalior from December 3 to December 5, 2024, earning recognition for her involvement.

Additionally, she participated in the Gateway to Success technical event on October 3, 2024, which provided insights into GATE preparation, study strategies, and competition success tips, receiving a certificate of participation.





# STUDENT PARTICIPATIONS & ACHIEVEMENTS

Priyanshu Singh Thakur, a first-year student, has shown remarkable interest in technical events. He attended a Workshop on Sensors and Supercapacitors Modeling: Simulations and Experiments organized by IIITM Gwalior from December 3 to December 9, 2024. The workshop provided in-depth knowledge about sensors, supercapacitors, and nanoparticles. He earned a certificate for his participation. Additionally, Priyanshu became a member of the Institute of Engineers (India) Students Chapter on December 10, 2024. This membership signifies his commitment to technical excellence and his aspirations for growth in engineering.





# STUDENT PARTICIPATIONS & ACHIEVEMENTS

Prem Sharma, a first-year student at MITS Gwalior, has actively participated in diverse events. He showcased his IQ skills in the "Build IQ Quiz" (Nov 2, 2024), attended the "Gateway to Success" GATE session (Oct 3, 2024), and enhanced his musical talents in "The Art of Music" workshop (Oct 9-11, 2024). During the Tulsi Mohotsav (Oct 25-27, 2024), he excelled in singing and poetry. Additionally, he participated in a Mathematics Club quiz on Ramanujan (Dec 23, 2024), reflecting his academic and cultural engagement.





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**Dr. Vishal Chaudhary**  
Newsletter Coordinator



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