



**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**

**Deemed University**

(Declared under Distinct Category by Ministry of Education, Government of India)

**NAAC Accredited With A++ Grade**



ELECTRICAL ENGINEERING  
DEPARTMENT

OCTOBER-DECEMBER  
2025

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# ELEC-TECH TIMES

## *Vision*

*Our Vision: To Prepare Professionally Competent Electrical Engineers for Global Industrial requirements and Social needs*

## *Mission*

*Our mission: Quality technical education, technology awareness, collaboration, and holistic student development through soft skills and ethics training.*



[eednewsletter@gmail.com](mailto:eednewsletter@gmail.com)



[eedmitsgwalior](https://www.instagram.com/eedmitsgwalior)

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.

# FACULTY ACHIEVEMENTS

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1. Rajesh Sharma successfully participated in Five Days Faculty Development Programme on 'Artificial Intelligence Tools for Research & Academic Writing', jointly organized by the Avantika University, Ujjain Madhya Pradesh in association with Pencilbitz held from 8 October 2025 to 12 October 2025.



2. Rajesh Sharma successfully participated in a 40-hours Faculty Development Programme on 'AI/ML Applications in Smart Grid: Theory, Concepts and Solutions', jointly organized by the Electronics and ICT Academy (Phase-II), PDPM Indian Institute of Information Technology, Design and Manufacturing (IIITDM), Jabalpur, and Rustamji Institute of Technology, Gwalior, held from November 19 to 26, 2025.



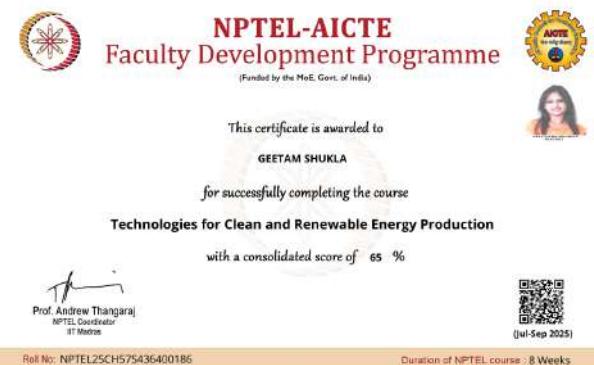
# FACULTY ACHIEVEMENTS

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3. Dr. Geetam Shukla got certificate of Appreciation for being recognized as NPTEL ENTHUSIATIC July Dec 2025.



## 4. NPTEL Certification Courses



# Publications

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EED, MITS Gwalior publications in renowned journals and conferences. Details of these are as follows:

1. Geetam Shukla, Akash Kumar Shukla, K.N. Shukla, Shishir Dixit, IoT-enabled solar PV systems: real-time monitoring and efficiency optimization, Results in Optics, Volume 22, 2026, 100949, ISSN 2666-9501, <https://doi.org/10.1016/j.rio.2025.100949>. [SCI].
2. Geetam Shukla, Akash Kumar Shukla, K.N. Shukla, Shishir Dixit, Synergizing artificial intelligence and battery energy storage systems for a sustainable clean energy transition, Journal of Energy Storage, Volume 149, 2026, 120343, ISSN 2352-152X, <https://doi.org/10.1016/j.est.2026.120343>. [SCI].
3. Rajvardhan Singh Tomar, Priyanka, Vishal Chaudhary, “TinyML-Driven Predictive Maintenance for Smart Factory Tools: A Lightweight Edge AI System”, presented in IEEE International Conference on Electrical, Communication, and Computing Technologies (iCONECCT-2025), held at Madhav Institute of Technology & Science, Deemed University, Gwalior, India, in collaboration with NIT Uttarakhand and technically sponsored by the IEEE Madhya Pradesh Section, during 26–28 December 2025.

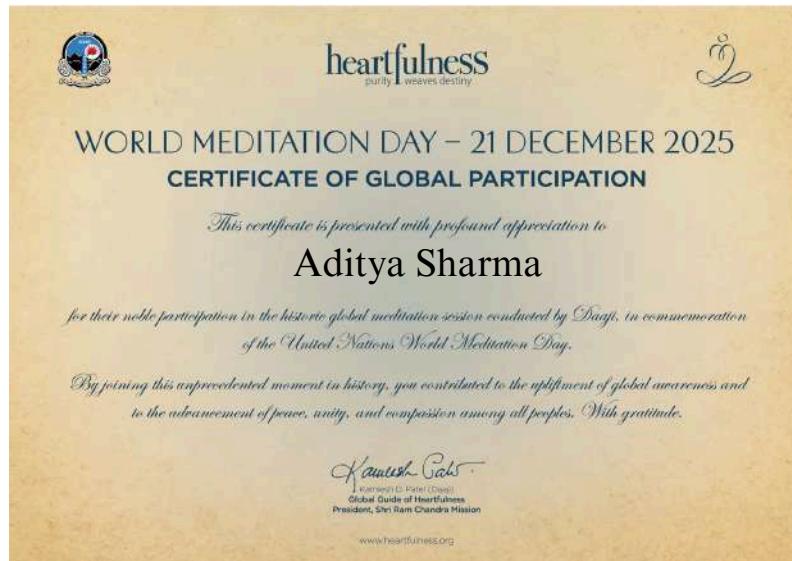
# Achievement

Ph. D. awarded to Mr. Vinay Kumar Tatikayala, “Power System Operation and Control in an Integrated Environment with Renewable Energy Sources.” on 25.11.25 (Notification Date) from RGPV, Bhopal under supervision of Dr. Shishir Dixit.

# Student Participations & Achievements

## First year

**Aditya Sharma** actively participated in a Cultural Event on the occasion of World Meditation Day on 21st December 2025 and was awarded a Certificate of Global Participation, reflecting his interest in mindfulness and spiritual well-being.



**Akriti Pandey** actively participated in cultural and analytical events at Madhav Institute of Technology & Science (MITS-DU), Gwalior. She took part in Treasure Hunt 2025 organized by the Analytics Club and Parichay 4.0 conducted by the Digital Learning Group. Her participation reflects strong analytical skills, teamwork, and active involvement in campus activities.



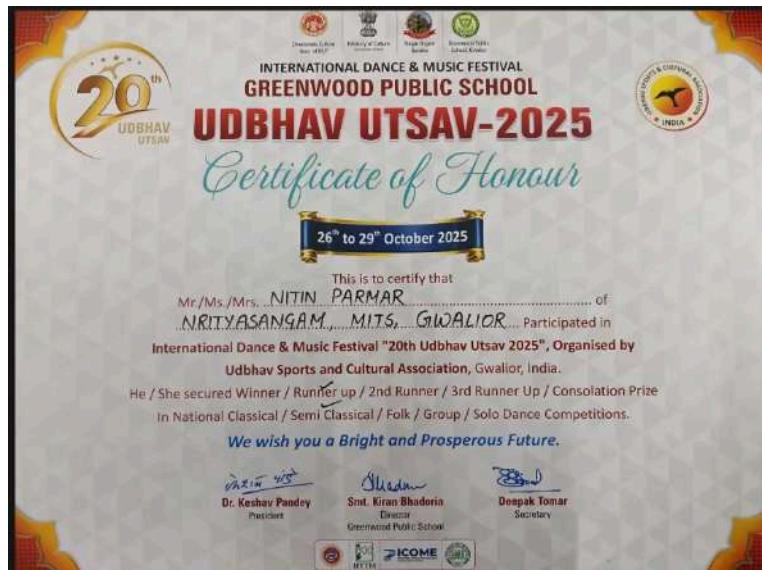
# Student Participations & Achievements

## First year

**Chahat Jadaun** actively participated in Treasure Hunt 2025, organized by the Analytics Club at Madhav Institute of Technology & Science (MITS-DU), Gwalior, on 13th September 2025. She also took part in Parichay 4.0, organized by the Digital Learning Group on 20th September 2025, reflecting her enthusiasm for analytical skills, teamwork, and active campus involvement.



**Nitin Parmar** actively participated in the International Dance & Music Festival “Udbhav Utsav–2025”, held from 26th to 29th October 2025 at Greenwood Public School, Gwalior. Representing Nrityasangam, MITS, Gwalior, he delivered a commendable performance and **secured the Runner-Up position** in Semi-Classical Dance, earning a Certificate of Honour for his achievement.



# Student Participations & Achievements

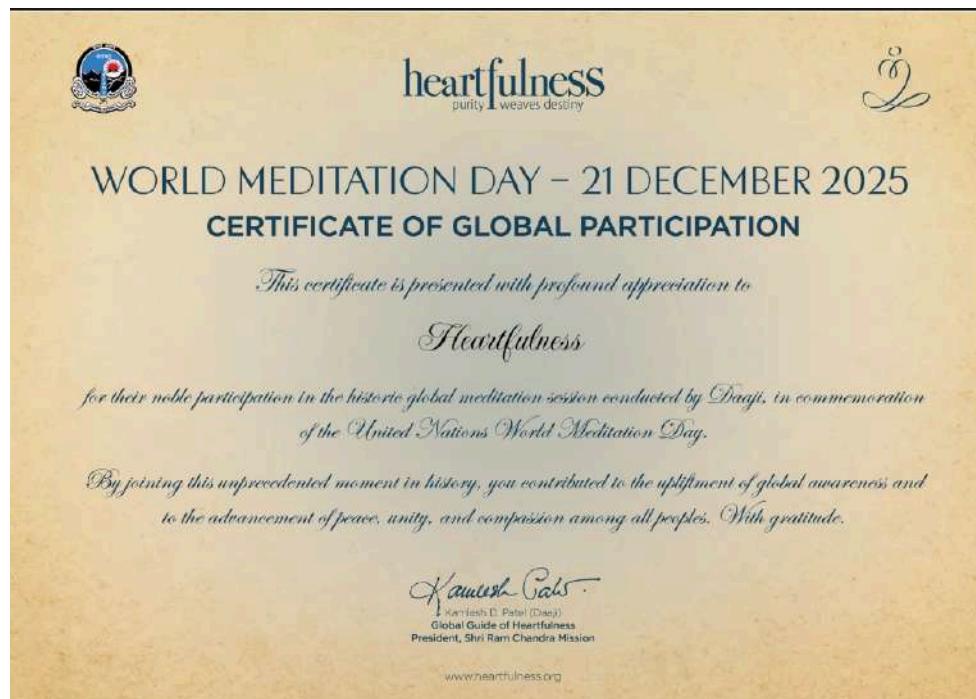
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## First year

**Devam Singh** actively participated in the Fun Factor Event organized by IEEE PES on 26/12/2025. The event included an introduction to the IEEE organization, expert talks by distinguished IEEE members, and a quiz competition. His participation reflects interest in technical organizations, learning initiatives, and active student engagement.



**Vaishnavi Dubey** actively participated in a Cultural Event on the occasion of World Meditation Day on 21st December 2025 and was awarded a Certificate of Global Participation, reflecting his interest in mindfulness and spiritual well-being.



# Student Participations & Achievements

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## Second Year

**Shreya Singh** actively participated in a National Level Webinar on “Next-Gen Power Networks: Smart Grid with AI & IoT” organized by IEEE PES Madhya Pradesh Section on 12th October 2025. She delivered an outstanding performance in the webinar quiz and secured the 2nd Prize, earning a Certificate of Appreciation, which reflects her strong technical knowledge and enthusiasm for emerging power system technologies.



**Prapti Kushwah** actively participated in a National Level Webinar on “Next-Gen Power Networks: Smart Grid with AI & IoT” organized by IEEE PES Madhya Pradesh Section on 12th October 2025. She also took part in the webinar quiz and was awarded a Certificate of Appreciation, reflecting her interest in emerging technologies and power systems.



# Student Participations & Achievements

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## Third Year

**Ramu Mahor** successfully participated in the National Students Paryavaran Competition (NSPC) 2025 and was awarded an e-certificate for his commendable participation. His involvement reflects awareness and commitment towards environmental studies and sustainability initiatives.



**Rohan Pratap Singh** actively participated in the West Zone Inter-University Volleyball Tournament, held from 10th to 14th December 2025 at LNCT University, Bhopal. His participation reflects strong sportsmanship, teamwork, and active involvement in inter-university sports competitions.



# Student Participations & Achievements

## Third Year

**Rajvardhan Singh Tomar** actively demonstrated academic and technical excellence by presenting a research paper titled “TinyML-Driven Predictive Maintenance for Smart Factory Tools: A Lightweight Edge AI System” at the International Conference on Electrical, Communication and Computing Technologies (iCONECCT-2025), held at Madhav Institute of Technology & Science, Gwalior, from 26–28 December 2025. In addition, he secured 1st Place in “BrainBytes 5.0”, organized by the FunTech Club, reflecting his strong analytical skills, innovation, and outstanding performance in technical competitions.



Ref: FC/2K25/BB5W001

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## ***Editorial Board***

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**Dr. Shishir Dixit**  
Prof & Head EED  
(Advisior)



**Dr. Vishal Chaudhary**  
Newsletter Coordinator

# ***Editorial Board***

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## ***STUDENT COORDINATORS***



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EED, 4th-year



**Abhinav Tiwari**

EED, 4th-year



**Manushree Ghosh**

EED, 3rd-year



**Manasvi Saxena**

EED, 3rd-year



**Shreya Singh**

EED, 2nd-year