



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



ISSUE 4 | OCTOBER - DECEMBER 2025

NEWSLETTER

DEPARTMENT OF ELECTRONICS ENGINEERING

Madhav Institute of Technology & Science, Gwalior (M.P.), INDIA
Deemed University





Department Vision

To Prepare Globally Competent Electronics Engineers for Industrial Challenges and Societal needs.

Department Mission

- To provide quality education through need based curriculum and effective teaching learning process.
- To imbibe professional ethics, leadership and entrepreneur skills with a passion for lifelong learning.
- Strengthening of employability skills through multidisciplinary projects and internships.
- To inculcate the spirit of innovation and research to serve the needs of the society and industry.

Programme Educational Objectives

PEO-1

Graduates of the program will be successful global collaborators with thriving technical and professional careers in the field of Electronics Engineering.

PEO-2

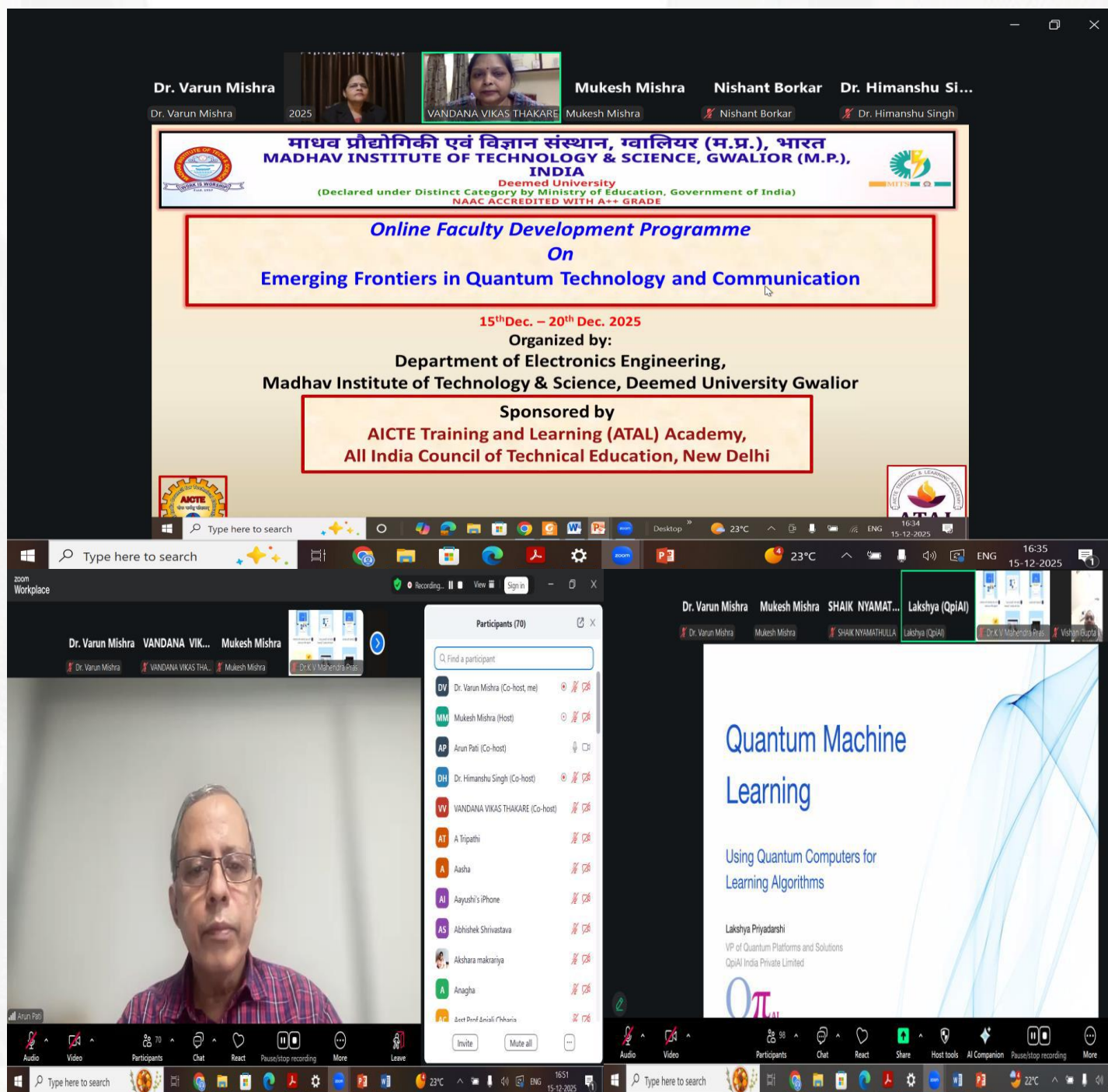
Graduates will have the ability to adapt latest technologies to contribute for sustainable development of society with effective research and entrepreneurship attitude.

PEO-3

Graduates will have the teamwork, professional excellence, communication, and interpersonal skills to enable them to work effectively with interdisciplinary teams in Industry, Government, and Academia.

ACTIVITIES CONDUCTED

- AICTE-sponsored ATAL Online Faculty Development Programme (FDP) on “Emerging Frontiers in Quantum Technology and Communication”, being held from December 15–20, 2025.



- **Board of Studies** meeting held on **3rd December 2025** with external member, **Prof. Y K. Prajapati**, from **MNNIT Allahabad**.
- **OBE meeting** was held on **24th December 2025** to discuss the **CO-PO** attainment for the odd semester of 2025.

ACTIVITIES CONDUCTED

- Expert talk on **"Free Space Optics: Opportunities and Challenges"** by Dr Dheeraj Dubey, Assistant Professor, IIIT-Pune held on 2nd November 2025



ACTIVITIES CONDUCTED

- IEI, IETE student chapter and Electronics Department of MITS-DU organized **Workshop on” Digital Circuit Design using Verilog HDL”**, 1-2 November 2025 where **Dr. Varun Mishra** and **Dr. Shailendra Singh** of the Department served as **Resource Person**.



STUDENT CLUB ACTIVITY CONDUCTED

- Organized **Movie screening** - October Sky on 11 October 2025



PROFESSIONAL CONTRIBUTIONS OUTSIDE THE INSTITUTE

- **Invited Talk at EACE-2025 (28–29 Nov 2025)** Dr. Shailendra Singh, Assistant Professor, MITS Gwalior delivered an **Invited Talk** titled “**VTFET-Based pH Sensor for Healthcare and Environmental Monitoring**” at the International Conference **EACE-2025 (Emerging Technologies in Automation, Computation, and Electronics)** held on **28–29 November 2025** at **PSIT, Kanpur**.
- **Dr. Kumar Gaurav** took a part in Short Invited Talk in 4 International Conference on Advances in Nanomaterials and Devices for Energy and Environment (**CANDEE-2025**) organised by Department of Engineering Sciences, ABV-IIITM Gwalior.
- On 4th November 2025 **Dr. Laxmi Shrivastava** delivered an online expert lecture on "**Green Wireless Sensor Networks** " for the students of Department of Electronics & Communication Engineering, College of Technology, GBPUAT, Pantnagar, Uttarakhand.
- **Dr. Varun Mishra** served as **Session Chair** in IEEE International Conference on **Communication Networks and Computing (CNC–2025)** held on 29-30th December 2025 at Rajkiya Engineering College Sonbhadra (U.P.), India.
- **Dr. Laxmi Shrivastava** served as **Session Chair** in IEEE International Conference on Recent Advances in Computing and Systems 19-20 December 2025 • ABV-IIITM Gwalior, India.
- **Dr. Laxmi Shrivastava** served as **Session Chair** in IEEE International Conference on Electrical, Communication, and Computing Technologies (iCONECCT- 2025) in Collaboration with NIT Uttarakhand and IEEE MP Section, From 26 – 28 December 2025.
- **Dr. Laxmi Shrivastava** served as **Session Chair** in 2nd IEEE International Conference on Intelligent Signal Processing and Effective Communication Technologies (INSPECT-2025), organized by ABV-IIITM Gwalior, India, scheduled on 7th – 8th November 2025.
- **Dr. Laxmi Shrivastava** served as **Session Chair** in 17th IEEE International Conference on Computational Intelligence and Communication Networks (CICN-2025) at NIT, 20-21 December, 2025.

FDP/STC ACTIVITIES

- **Dr. Laxmi Shrivastava** completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Next Generation Communication for 6G and Beyond at Indian Institute of Technology (Indian School of Mines) Dhanbad from 01/12/2025 to 06/12/2025.
- **Dr. Laxmi Shrivastava** attended Faculty Development Program on Modern Web Development & AI Integration under the Next Gen Employability Program from 10 November 2025 – 14 November 2025.
- **Dr. Prateek Bhadauria** attended International conference on mathematical analysis and its applications (ICMAA-2025).
- **Dr. Varun Mishra** attended ATAL online FDP “Emerging Frontiers in Quantum Technology and Communication”, being held from December 15–20, 2025.

NPTEL/ATAL/Internshala Courses Attended

Elite

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

This certificate is awarded to
RAVINDRA PRATAP NARWARIA
for successfully completing the course

Machine Learning (ML) in Hindi

with a consolidated score of **65** %

Online Assignments	22.69/25	Proctored Exam	42.38/75
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Total number of candidates certified in this course: **177**

Prof. Sumit J. Darak
Dean of Academic Affairs,
IIT Delhi

Jul-Oct 2025
(12 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

swayam
FREE ONLINE EDUCATION
कौशल भारत - कुशल भारत

Roll No: NPTEL25CS162S557600017 To verify the certificate No. of credits recommended: 3 or 4

- **Dr. Ravindra Pratap Narwaria** successfully completed the NPTEL course “**Machine Learning (ML) in Hindi**” and secured **Elite** certification during **July–October 2025**.

Elite

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

This certificate is awarded to
SHAILENDRA SINGH
for successfully completing the course

Research Methodology

with a consolidated score of **75** %

Online Assignments	24.17/25	Proctored Exam	50.87/75
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Total number of candidates certified in this course: **4905**

Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jul-Sep 2025
(8 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

swayam
FREE ONLINE EDUCATION
कौशल भारत - कुशल भारत

Roll No: NPTEL25GE66S336400012 To verify the certificate No. of credits recommended: 2 or 3

- **Dr. Shailendra Singh** successfully completed NPTEL course on “**Research Methodology**” during **July–September 2025**.

Elite

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

This certificate is awarded to
KUMAR GAURAV
for successfully completing the course

Research Methodology

with a consolidated score of **77** %

Online Assignments	24.58/25	Proctored Exam	52.75/75
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Total number of candidates certified in this course: **4905**

Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jul-Sep 2025
(8 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

swayam
FREE ONLINE EDUCATION
कौशल भारत - कुशल भारत

Roll No: NPTEL25GE66S436400174 To verify the certificate No. of credits recommended: 2 or 3

- **Dr. Kumar Gaurav** successfully completed NPTEL course on “**Research Methodology**” during **July–September 2025**.

STUDENT ACHIEVEMENTS



- **Vartika Sharma** have received the highest award in NCC titled '**DG NCC COMMENDATION CARD**' which was given by the DG NCC himself for her incredible performance throughout in NCC journey. She will be receiving this award in **Republic Day Camp 2026** in Delhi.
- **Shubhangi Gupta**, a second year has been selected as **Co-Lead in Outreach and Public Relations** for next session of **GeeksforGeeks Campus Body**.



- **Tarun Kushwaha** received **Elite Certificate** in **NPTEL Online Certification Course "Computer Architecture"**

Publications

S.No.	Details of Publications
1.	V. Sharma, L. Shrivastava and N. Shrivastava, "Image Encryption and Decryption using Deep Learning: A Comprehensive Review," 2025 IEEE Madhya Pradesh Section Conference (MPCON), Jabalpur, India, 2025, pp. 543-547, doi: 10.1109/MPCON66082.2025.11256596.
2.	R. Tyagi, G. S. Tomar and L. Shrivastava , "Effective Unconstrained Face Recognition from Images Using RFG: A review," 2025 IEEE Madhya Pradesh Section Conference (MPCON), Jabalpur, India, 2025, pp. 641-646, doi: 10.1109/MPCON66082.2025.11251496
3.	Swati Dixit, Varun Mishra , Manisha Pattanaik, "Simulation Study of an InxGa1-xAs Vertical TFET Biosensor for Ultra Low Concentration Lung Cancer Biomarker Detection", In 2025 International Conference on Electrical, Communication, and Computing Technologies (iCONECCT) (Accepted).
4.	Swati Dixit, Varun Mishra , Manisha Pattanaik, "InGaAs Based Vertical Tunnel Field Effect Transistor For Low Power Biosensor Applications", In International Conference on Advances in Nanomaterials and Devices for Energy and Environment (CANDEE-2025), (Accepted).
5.	Hemant Choubey , Ratnesh Sagar, Suryansh Rajawat, "Design and Analysis of a Wideband Inverse Dual C-Slot Microstrip Antenna for 5G, WiMAX, WLAN, and Wi-Fi 6E Bands", In International Conference on Smart Innovations in Systems, Infrastructure, Mechanical, Power, AI & Computing Technologies (SISIMPACT 2025) (Accepted).
6.	Pratham Pingle Sonar, Hemant Choubey , Deepak Batham, "Comparative analysis of deep learning models for weed detection in agriculture", In 2025 IEEE 1st International Conference on Smart Innovations in Systems, Infrastructure, Mechanical, Power, AI and Computing Technologies (SISIMPACT), (Accepted).
7.	Urwashi Sad, Hemant Choubey , Deepak Batham, "Stockwell Transform and GDL-Based Hybrid Model for EEG Seizure Detection", In 2025 International Conference on Electrical, Communication, and Computing Technologies (iCONECCT) (Accepted).

DEPARTMENT AND FACULTY ACHIEVEMENTS



- **Dr. Mukesh Kumar Mishra** was recognized as an **NPTEL Discipline Star** for the period **July–December 2025**.
- **Two PhD** thesis has been awarded under the supervision of **Dr. Laxmi Shrivastava**.
- PhD degree has been awarded to **Dr. Madhav Singh**.
- **Dr. Shailendra Singh** was recognized as an **NPTEL Believer** for the period **July–December 2025**.



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EDITORIAL BOARD OF DEPARTMENTAL NEWSLETTER

Faculty Members :

- Dr. Laxmi Shrivastava (HoD)
- Dr. Varun Mishra (E-newsletter Coordinator)

Student Members :

- Prerna Pandey (EC- 3rd year)
- Snehal Bhardwaj (EC - 2nd year)
- Shaivya Kushwah (EC - 2nd year)

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