



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

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

NAAC ACCREDITED WITH A++ GRADE



Editorial Board:

Faculty Members :

- Dr. Vandana Vikas Thakare (H.O.D.)
- Dr. Shubhi Kansal (Faculty Coordinator)

Student Members :

- Divyansh Singh (ET-1st year)
- Jesika Jain (ET-1st year)

Contact: electronicsnewsletter@gmail.com

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING
E-NEWSLETTER
OCTOBER-DECEMBER 2025



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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.

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PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

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.

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FDP/STC attended (Outside) the Institute

➤ Dr. Vandana Vikas Thakare:

- ❖ Dr. Vandana Vikas Thakare has actively participated in National Level Virtual FDP on "*Strategic Research Proposal Development and Grant Acquisition*" organized by Department of Electronics and Communication Engineering, Lord Institute of Engineering, Hyderabad in collaboration with IETE from 05-01-2026 to 09-01-2026.
- ❖ Dr. Vandana Vikas Thakare has successfully completed the Faculty Development Program on "*Modern Web Development & AI Integration*" under the Next Gen Employability Program from 10-11-2025 to 14-11-2025.
- v Dr. Vandana Vikas Thakare has successfully completed the Faculty Development Program on "*Next Generation Communication for 6G and Beyond*" at IIT Dhanbad from 01-12-2025 to 06-12-2025.

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FDP/STC attended (Outside) the Institute

➤ Dr. Vandana Vikas Thakare:



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FDP/STC attended (Outside) the Institute

➤ Dr. Himanshu Singh:

- ❖ Dr. Himanshu Singh served as a Session Chair at the 2nd IEEE International Conference on Intelligent Signal Processing and Effective Communication Technologies (INSPECT-2025), held at ABV-IIITM Gwalior during 07-08 November 2025.
- ❖ Dr. Himanshu Singh has been awarded a Certificate of Appreciation for being recognized as an NPTEL Believer for the period July-December 2025.
- ❖ Dr. Himanshu Singh has successfully completed a Faculty Development Programme (FDP) in the form of an NPTEL Online Certification (Elite) course titled *“Advanced R Programming for Data Analytics in Business”*, held during July-October 2025.



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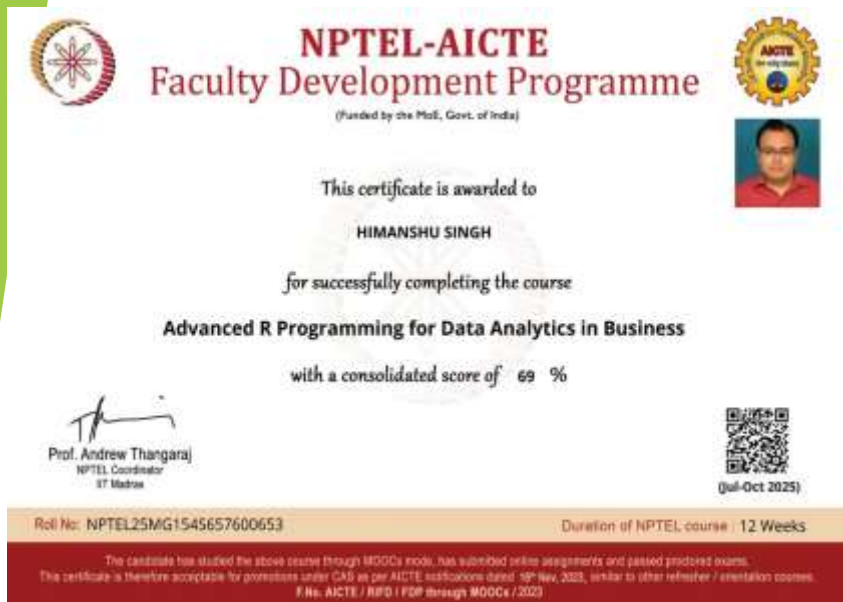
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MITS

FDP/STC attended (Outside) the Institute

➤ Dr. Himanshu Singh:



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FDP/STC attended (Outside) the Institute

➤ Dr. Himanshu Singh:

- ❖ Dr. Himanshu Singh has successfully completed a Faculty Development Programme (FDP) in the form of an NPTEL Online Certification course titled *“Signal Processing for mm Wave Communication for 5G and Beyond”*, held during July–October 2025.
- ❖ Dr. Himanshu Singh has successfully participated in and completed an AICTE Training and Learning (ATAL) Academy Faculty Development Programme titled *“Emerging Frontiers in Quantum Technology and Communication”*, organized by Madhav Institute of Technology & Science (MITS), Gwalior, under the aegis of AICTE, held from 15th December to 20th December 2025.



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➤ Dr. Himanshu Singh:



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FDP/STC attended (Outside) the Institute

➤ Mrs. Pooja Sahu:

- ❖ Mrs. Pooja Sahoo, Assistant Professor of Madhav Institute of Technology and Science has successfully participated & 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.
- ❖ Mrs. Pooja Sahoo has successfully completed the Faculty Development Program on "*Modern Web Development & AI Integration*" under the Next Gen Employability Program from 10 November 2025 – 14 November 2025 .
- ❖ Mrs. Pooja Sahoo has successfully completed "*3-hour Advanced Excel Workshop*" given on 4th Jan-2026, organized by Ira Skills.

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Expert Talk organized at Department Level

➤ Dr. Shubhi Kansal & Dr. Nidhi Saxena:

- ❖ Dr. Shubhi kansal and Dr. Nidhi Saxena organized an expert talk at the department level. Dr. Debanjan Sadhya, Assistant Professor, from Computer Science department of IIITM Gwalior took the lecture on Demystifying Block chain on 4th November.

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NPTEL/ATAL/Internshala courses attended

➤ Dr. Vandana Vikas Thakare:

❖ Next Generation
Communication For 6G and Beyond .



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➤ Dr. Himanshu Singh:

❖ Signal Processing for mm Wave
Communication for 5G and Beyond .

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

This certificate is awarded to
HIMANSHU SINGH
for successfully completing the course
**Signal Processing for mm Wave Communication for
5G and Beyond**
with a consolidated score of **54** %

Online Assignments	20.1/25	Proctored Exam	33.68/75
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Total number of candidates certified in this course: **116**

Jul-Oct 2025
(12 week course)

Indian Institute of Technology Kharagpur

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

swayam

Roll No: NPTEL25EE161S1157600224 To verify the certificate

No. of credits recommended: 3 or 4

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NPTEL/ATAL/Internshala courses attended

➤ Dr. Himanshu Singh:

❖ Advanced R Programming for Data Analytics In Business.

The certificate is titled "Elite NPTEL ONLINE CERTIFICATION" and is funded by the MoE, Govt. of India. It is awarded to HIMANSHU SINGH for successfully completing the course "Advanced R Programming for Data Analytics in Business". The certificate shows a consolidated score of 69% with 25/25 in Online Assignments and 43.5/75 in the Proctored Exam. The total number of candidates certified in this course is 1036. The certificate is signed by Prof. B. V. Ratish Kumar, Chairman, Centre for Continuing Education, IIT Kanpur, and Prof. Satyaki Roy, NPTEL Coordinator, IIT Kanpur. The course was held from Jul-Oct 2025 (12 week course). The certificate is issued by the Indian Institute of Technology Kanpur and is part of the Swayam program. The roll number is NPTEL25MG154S657600653. To verify the certificate, a QR code is provided. The number of credits recommended is 3 or 4.

with a consolidated score of		69 %	
Online Assignments	25/25	Proctored Exam	43.5/75

Total number of candidates certified in this course: 1036

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Jul-Oct 2025
(12 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

swayam

Roll No: NPTEL25MG154S657600653 To verify the certificate

No. of credits recommended: 3 or 4

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NPTEL/ATAL/Internshala courses attended

➤ Dr. Himanshu Singh:

❖ Programming with Generative AI.

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

This certificate is awarded to
HIMANSHU SINGH
for successfully completing the course
Programming with Generative AI
with a consolidated score of **51** %

Online Assignments	20.63/25	Proctored Exam	30/75
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Total number of candidates certified in this course: 2636

Aug-Oct 2025
(8 week course)

Indian Institute of Science Bangalore

Prof. L. Umanand
NPTEL Coordinator & Chair, Centre for Continuing Education, IISc Bangalore

swayam

Roll No: NPTEL25CS137S957600251 To verify the certificate No. of credits recommended: 2 or 3

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NPTEL/ATAL/Internshala courses attended

➤ **Dr. Himanshu Singh:**

❖ Emerging Frontiers in
Quantum Technology and Communication.



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NPTEL/ATAL/Internshala courses attended

➤ **Mrs. Pooja Sahu:**

❖ Analysis and Design Principles of Microwave Antenna.



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to

POOJA SAHOO

for successfully completing the course

Analysis and Design Principles of Microwave Antennas

with a consolidated score of **53** %

Online Assignments	19.58/25	Proctored Exam	33/75
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Total number of candidates certified in this course: **176**

Aug-Oct 2025

(8 week course)



Skill India
कौशल भारत - कुशल भारत



Banerji

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL25EE128S1257600674

To verify the certificate



No. of credits recommended: 2 or 3

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Publications SCI/Scopus/UGC with DOI Number

➤ Dr. Yogesh Kumar:

- ❖ Monu Kumar, Varun Goel, and Yogesh Kumar, "Temperature-Modulated Short-Term and Long-Term Memory in Solution-Processed ZnO Schottky Synapses", IEEE Sensors Letters (Early Access), December 2025, doi: 10.1109/LSENS.2025.3647319.

➤ Dr. Ranbeer Tyagi:

- ❖ Ranbeer Tyagi, Geetam Singh Tomar and Laxmi 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: <https://doi.org/10.1109/MPCON66082.2025.11251496>.



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Publications SCI/Scopus/UGC with DOI Number

➤ **Mrs. Pooja Sahu:**

- ❖ Pooja Sahoo, et al. "Deep Learning-Based Noninvasive Brain Feature Fusion for Alzheimer's Disease Classification." Advances in Ubiquitous Sensing Applications for Healthcare: Recent Advances in Computational Intelligence Applications for Biometrics and Biomedical Devices, edited by Aditya Khamparia et al., Academic Press, 2026, pp. 171-196. 2- Kanishka shivhare, Neetesh Sharma and Pooja Sahoo, "Sign to Shine: A Hand Gesture Light-Controlled System " in IEEE ICCCA 2025, 28-29th November 2025.

➤ **Dr. Shubhi Kansal :**

- ❖ Jyoti Ahirwar, Shubhi kansal, " A comparative review and Evaluation of Handcrafted v/s Deep Learning Methods for Low Light Image Enhancement ", in ICONNECT-2025, held in December 26-28 at MITS, Gwalior.



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Publications SCI/Scopus/UGC with DOI Number

➤ Atul Sharma:

- ❖ Atul Sharma has been awarded the Best Paper for presenting the paper titled "Compact Meander-Line Rectenna Operating at 3.5 GHz for RF Energy Harvesting in IoT and Wearable Devices", authored by Atul sharma, Vandana vikas thakare, PK Singhal, at the International Conference on Electrical, Communication, and Computing Technologies (iCONECCT-2025).



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