



माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर  
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

Deemed University

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

NAAC ACCREDITED WITH A++ Grade

Gola Ka Mandir, Gwalior (M.P.)- 474005, INDIA

Ph.:+91-751-2409300, E-mail: [vicechancellor@mitsgwalior.in](mailto:vicechancellor@mitsgwalior.in), Website: [www.mitsgwalior.in](http://www.mitsgwalior.in)



MITS



## Editorial Board:

### 1. Faculty Members

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

### 2. Student Members

- Deepansh Shrivastava  
(EC - 4<sup>th</sup> year)
- Piyush Shrivastava  
(EC - 4<sup>th</sup> year)

### Contact:

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

DEPARTMENT OF ELECTRONICS ENGINEERING

E-NEWSLETTER

July-September 2024



माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर  
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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

**DEPARTMENT OF ELECTRONICS ENGINEERING**



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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**

**DEPARTMENT OF ELECTRONICS ENGINEERING**





July-September 2024

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DEPARTMENT OF ELECTRONICS ENGINEERING





# FDP/STC Attended Outside the Institute

**Dr. Vandana Vikas Thakare, Dr. Karuna Markam and Dr. Jenkin Suji attended**

STTP on Innovation and Challenges in Curriculum, Pedagogy and Assessment in the context of NEP 2020 from NITTTR Bhopal during 22-07-2024 to 26-07-2024

**Dr. Karuna Markam and Dr. Jenkin Suji and Mrs. Pooja Sahoo attended**

5-day Faculty Development Program on Building Web Development Solutions with Cloud Computing under the Next Gen Employability Program from 17-09-2024 to 21-09-2024.

**Dr. Vandana Vikas Thakare attended**

5-day Faculty Development Program on Building advanced data analytics applications with cloud under the Next Gen Employability Program from 25-09-2024 to 29-09-2024

**Dr. Rahul Dubey attended**

FDP on AI/ML for Geodata analysis

**Dr. Shubhi Kansal and Mr. Prateek Bhadauria attended**

Short term course on " Hands on Machine learning for communication and networking" from July 15 - 21 July 2024 organized by ABV-IIITM Gwalior

**DEPARTMENT OF ELECTRONICS ENGINEERING**



# FDP/STC Attended Outside the Institute

**Mrs. Pooja Sahoo attended**

NPTEL-AICTE FDP on “Advanced linear continuous control systems\_application with MATLAB programm” from July-September 2024.

**Dr. Varun Mishra attended**

NPTEL-AICTE FDP on "System Design Through Verilog” from July-September 2024.

**Mr. Rachit Jain attended**

NPTEL-AICTE FDP on “Introduction to Machine Learning” from July-September 2024.

**Dr. Mukesh Kumar Mishra and Dr. Himanshu Singh attended**

1. 7-Days short term course on "Role of AI-Powered techniques for next generation IoT Networks", Organized by ABV-IIITM Gwalior, from 16 July 2024 to 22 July 2024.
2. NPTEL-AICTE Faculty Development Programme on Research Methodology



# Expert Talk Given Outside the Institute

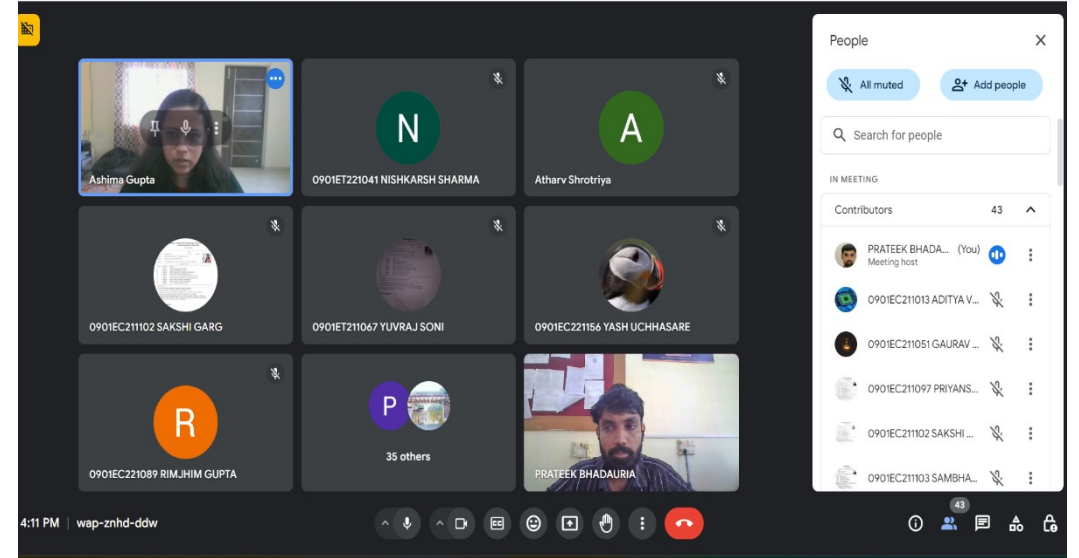
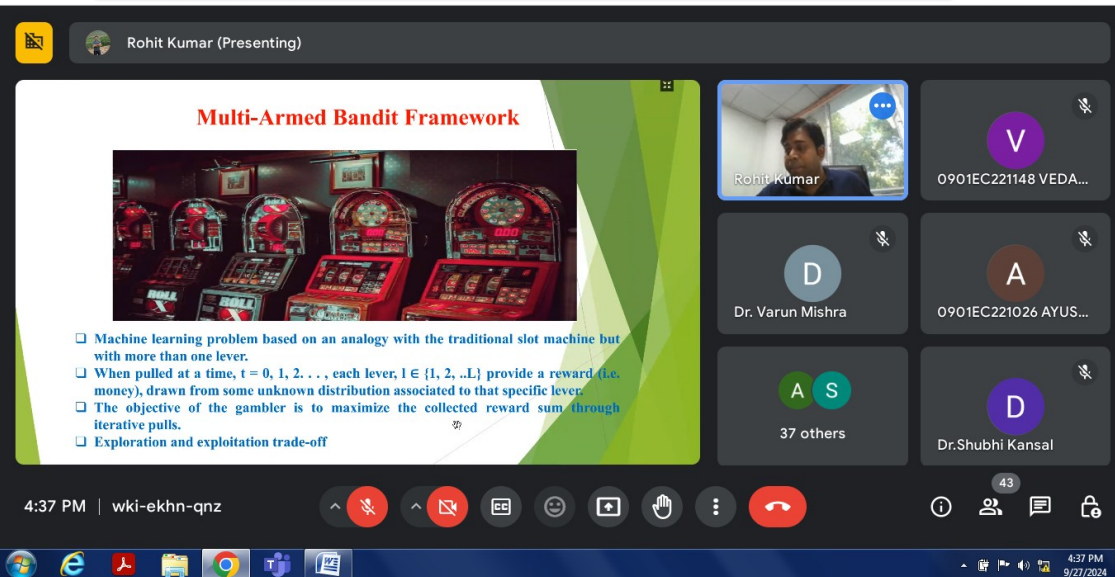
1. Mr. D.K. Parsedia delivered “My Bharat Portal training session” for various distinct programme officers at Datia, Sheopur, Ashoknagar, Gwalior etc.
2. Mr. Prateek Bhadauria delivered expert talk At National Agriculture Development Cooperative LTD. (NADCL) Baramull J&K.



# Activities Organized at Institute/Department

1. Orientation program was organized for 2,3 and 4 year on 5<sup>th</sup> August 2024 at department level.
2. An activity of “Review of CO-PO mapping” was organized on 8<sup>th</sup> August 2024 at department level.
3. A workshop titled “ Hands on workshop on PCB Designing” was organized on 17<sup>th</sup> August 2024 at department level.
4. An extension activity (Health- Hygiene awareness campaign) was organized on 30<sup>th</sup> August 2024.
5. An online workshop on “Circuit simulation using Cadence” was organized on 31<sup>st</sup> August 2024. Dr. Ashima Gupta, Analog Design Engineer, Intel Corporation, Bangalore delivered the talk.
6. An expert talk on “Machine learning for wireless communication” was organized on 27<sup>th</sup> September 2024. Dr. Rohit Gupta, Assistant Professor, DTU, Delhi delivered the talk.











# NPTEL/ATAL/Internshala Courses Attended

1. Dr. Varun Mishra successfully completed a 8 week NPTEL course on System Design Through Verilog in gold category from Jul-Sep 2024.
2. Dr. R Jenkin Suji successfully completed a 8 week NPTEL course on Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink in silver category from Jul-Sep 2024.
3. Dr. Karuna Markam & Dr .Pooja Sahu successfully completed a 8 week NPTEL course on Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink in elite category from Jul-Sep 2024.
4. Prof. Prateek Bhadauria successfully completed a 8 week NPTEL course on Fundamentals of Wireless Communication (Hindi) from Jul-Sep 2024.
5. Dr. R P Narwaria & Prof. Rachit Jain successfully completed a 8 week NPTEL course on Introduction to Machine Learning from Jul-Sep 2024.
6. Prof. Himanshu Singh successfully completed a 8 week NPTEL course on Research Methodology from Jul-Sep 2024.





# NPTEL/ATAL/Internshala Courses Attended



Elite

## NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**VARUN MISHRA**  
for successfully completing the course

System Design Through Verilog

with a consolidated score of **93** %

Online Assignments	24/25	Proctored Exam	69/75
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Total number of candidates certified in this course: **2329**

Jul-Sep 2024  
(8 week course)



*T. V. Bharat*  
Prof. T. V. Bharat  
Head, Centre for Educational Technology  
NPTEL Coordinator, IIT Guwahati



Indian Institute of Technology Guwahati



Roll No: NPTEL24EE94S436200334

To verify the certificate



No. of credits recommended: 2 or 3



## NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

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

Introduction to Machine Learning

with a consolidated score of **82** %

Online Assignments	25/25	Proctored Exam	56.63/75
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Total number of candidates certified in this course: **6812**

Jul-Sep 2024  
(8 week course)



*Haimanti Banerji*  
Prof. Haimanti Banerji  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL24CS81S436200258

To verify the certificate



No. of credits recommended: 2 or 3



Elite

## NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**R JENKIN SUJI**  
for successfully completing the course

Advanced Linear Continuous Control Systems: Applications with  
MATLAB Programming and Simulink

with a consolidated score of **80** %

Online Assignments	25/25	Proctored Exam	55.1/75
--------------------	-------	----------------	---------

Total number of candidates certified in this course: **81**

Jul-Sep 2024  
(8 week course)



*Kaushik Ghosh*  
Prof. Kaushik Ghosh,  
Professor (Chemistry)  
Coordinator CEC



Indian Institute of Technology Roorkee



Roll No: NPTEL24EE90S236200452

To verify the certificate



No. of credits recommended: 2 or 3



## NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**PRATEEK BHADAURIA**  
for successfully completing the course

Fundamentals of Wireless Communication (Hindi)

with a consolidated score of **47** %

Online Assignments	16.21/25	Proctored Exam	31/75
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Total number of candidates certified in this course: **104**

Jul-Sep 2024  
(8 week course)



*Anand Srivastava*  
Dr. Anand Srivastava  
Coordinator  
Continued Education Program, IITD



INDRAPRASTHA INSTITUTE of  
INFORMATION TECHNOLOGY DELHI



Roll No: NPTEL24EE82S236200392

To verify the certificate



No. of credits recommended: 2 or 3



Elite

## NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**KARUNA MARKAM**  
for successfully completing the course

Advanced Linear Continuous Control Systems: Applications with  
MATLAB Programming and Simulink

with a consolidated score of **71** %

Online Assignments	25/25	Proctored Exam	45.92/75
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Total number of candidates certified in this course: **81**

Jul-Sep 2024  
(8 week course)



*Kaushik Ghosh*  
Prof. Kaushik Ghosh,  
Professor (Chemistry)  
Coordinator CEC



Indian Institute of Technology Roorkee



Roll No: NPTEL24EE90S136200107

To verify the certificate



No. of credits recommended: 2 or 3



## NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**HIMANSHU SINGH**  
for successfully completing the course

Research Methodology

with a consolidated score of **75** %

Online Assignments	23.67/25	Proctored Exam	50.87/75
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Total number of candidates certified in this course: **3922**

Jul-Sep 2024  
(8 week course)



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



Indian Institute of Technology Madras



Roll No: NPTEL24GE41S136200220

To verify the certificate



No. of credits recommended: 2 or 3



# NPTEL/ATAL/Internshala Courses Attended



## NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**POOJA SAHOO**

for successfully completing the course

**Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink**

with a consolidated score of **80** %

Online Assignments	25/25	Proctored Exam	55.1/75
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Total number of candidates certified in this course: **81**

*Prof. Kaushik Ghosh*  
Prof. Kaushik Ghosh,  
Professor (Chemistry),  
Coordinator CEC

**Jul-Sep 2024**  
(8 week course)

*Prof. Ranjana Pathania*  
Prof. Ranjana Pathania,  
Professor (BSBE),  
Coordinator (NPTEL)



Indian Institute of Technology Roorkee



Roll No: NPTEL24EE90S136200230

To verify the certificate



No. of credits recommended: 2 or 3



## NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**MUKESH KUMAR MISHRA**

for successfully completing the course

**Research Methodology**

with a consolidated score of **75** %

*Prof. Andrew Thangaraj*  
Prof. Andrew Thangaraj,  
NPTEL Coordinator  
IIT Madras



(Jul-Sep 2024)

Roll No: NPTEL24GE41S236200357

Duration of NPTEL course : 8 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.  
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 16<sup>th</sup> Nov, 2023, similar to other refresher / orientation courses.  
F.No. AICTE / RIFD / FDP through MOOCs / 2023



## NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**HIMANSHU SINGH**

for successfully completing the course

**Data Science for Engineers**

with a consolidated score of **82** %

*Prof. Andrew Thangaraj*  
Prof. Andrew Thangaraj,  
NPTEL Coordinator  
IIT Madras



(Jul-Sep 2024)

Roll No: NPTEL24CS133S336200123

Duration of NPTEL course : 8 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.  
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 16<sup>th</sup> Nov, 2023, similar to other refresher / orientation courses.  
F.No. AICTE / RIFD / FDP through MOOCs / 2023



## NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**DEEPAK BATHAM**

for successfully completing the course

**प्रमुख हिंदी कहानियां और भारतीय समाज**

with a consolidated score of **80** %

Online Assignments	21.67/25	Proctored Exam	58.5/75
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Total number of candidates certified in this course: **36**

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

**Jul-Aug 2024**  
(4 week course)

*Prof. Satyaki Roy*  
Prof. Satyaki Roy,  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL24HS97S336200085

To verify the certificate



No. of credits recommended: 1 or 2





# Publications SCI/UGC with DOI Number

1. **Varun Mishra**, Ashish Kumar Singh, Rahul Nautiyal and Akhilesh Chauhan, "GaAs-on-insulator based vertical heterojunction tunnel FET: proposal and analysis for VLSI circuit applications", Physica Scripta 99, no. 8, (2024): 085978.<https://iopscience.iop.org/article/10.1088/1402-4896/ad62a4>
2. **Rachit Jain, Vandana Vikas Thakare, and Pramod Kumar Singhal**. "Revolutionizing Antenna Design: Machine Learning Innovations and Future Trajectories." In Design and Optimization of Wearable, Implantable, and Edible Antennas, pp. 78-101. IGI Global, 2024.“
3. **Rahul Dubey**, A Modified Regression Model for Analysing the Performance of Metamaterial Antenna Using Machine Learning and Deep Learning, Wireless Personal Communication, DOI: 10.1007/s11277-024-11359-x
4. S. Bhadoria, T. Shivhare, S. Bisen, S. Jain and **D. Batham**, "ASA: Adaptive Spectrum Allocation Schemes to Reduce Spectrum Fragmentation in Elastic Optical Networks," in IEEE 1st International Conference on Advance Computing & Emerging Technologies (ACET), Ghaziabad, India, Aug. 2024.
5. **Vandana Vikas Thakare** “Multiband PIFA Antenna for Mobile Applications”, in 2<sup>nd</sup> WCONF during 12-14 July 2024.



# Student Club Activities

1. A handmade poster-making competition on the topic “National Nutrition Week” was organized by the Dance Club on 7th September 2024.
2. A National Level Quiz was held by the Aerospace Club from 15th to 23rd August 2024 to commemorate National Space Day.
3. National Level Quiz, titled "Gurukul Quest", was organized on 5th September 2024 by the Electrical Department in celebration of Teachers' Day
4. As part of the rangoli making, each club member designed and created rangoli incorporating the colours of Indian flag . The rangoli designed featured themes of patriotism, such as depictions of Indian Flag, National symbols, AIF jets ,achievements of India like Olympics. This Rangoli Making for Independence Day event held on 14<sup>th</sup> August 2024.

*Participants name:* 1.Ankush 2.Divyansh 3.Varsha 4.Pranjal 5.Ayushi 6.Nivedita 7.Sahaj 8.Shivani 9.Khushi sonare 10.Khushi bohare 11.Siddhi 12.Manushree 13.Vikram 14.Chirag



# Student Club Activities



## GLIMPSES OF THE EVENT





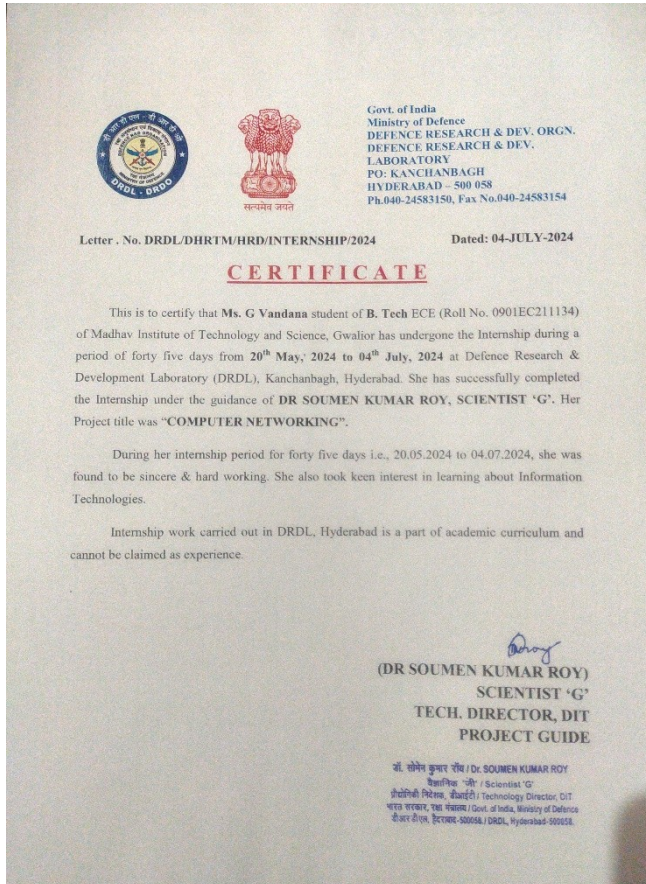
# Student Achievements

1. Vandana Gurjar - Completed Summer Internship in **DRDL-DRDO**.
2. Swasti Jain - Completed Summer Internship in **ANG technologies**.
3. Aditya Verma - Completed Summer Internship in **BSNL**.
4. Srajan Sharma - Completed Summer Internship in **BHEL**.
5. Udit Marwaha - Completed Summer Internship in **SAC-DRDO**.
6. Deepansh Shrivastava - Completed Course on AI/ML for Geodata Analysis offered by **IIRS-ISRO**.
7. Piyush Shrivastava - Completed Summer Internship in **Cadbury India**.
8. Somya jain - Completed Summer Internship in **BSNL**.
9. Aman Gupta - Completed Course on Java with DSA & System Design offered by **SCIAKU**.
10. Shruti Gupta - Completed Summer Internship in **CAVISSON**.

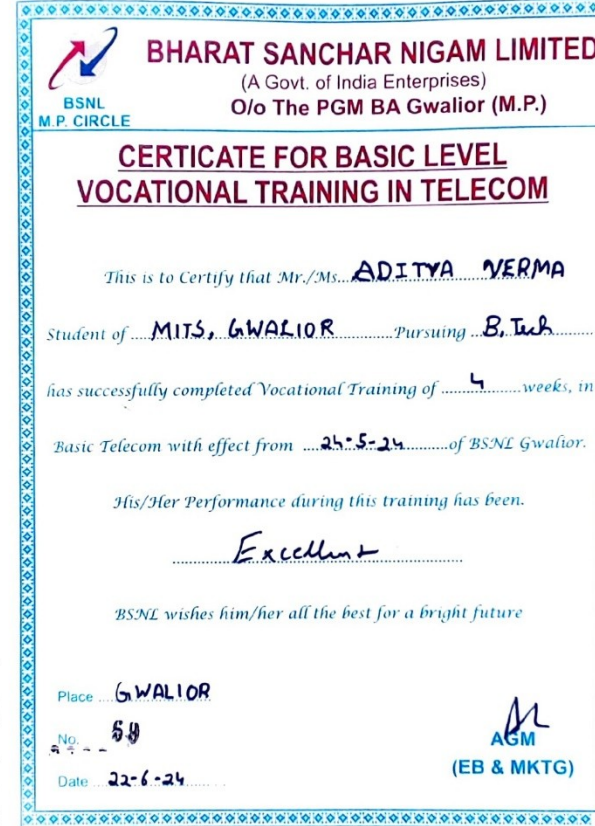




# Student Achievements



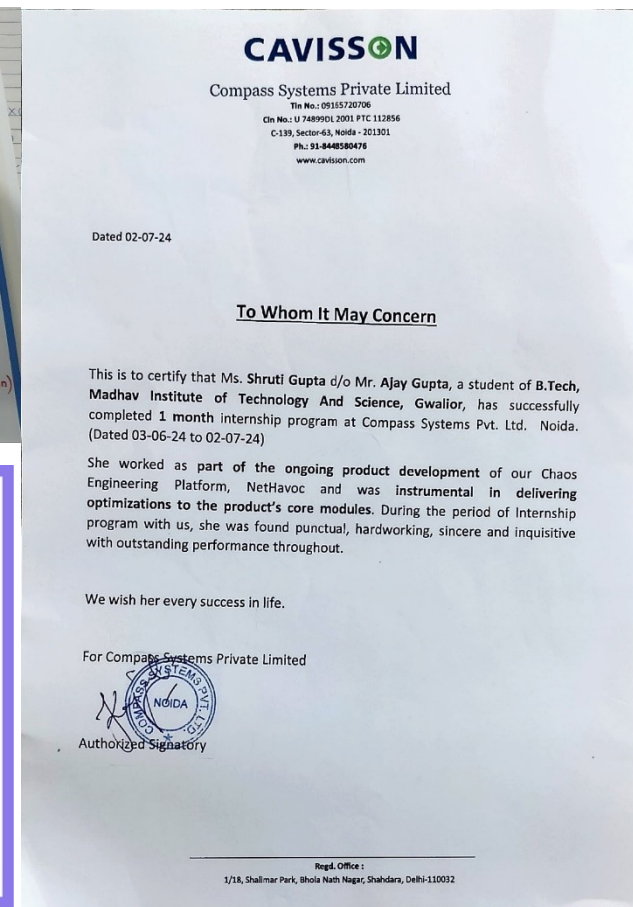
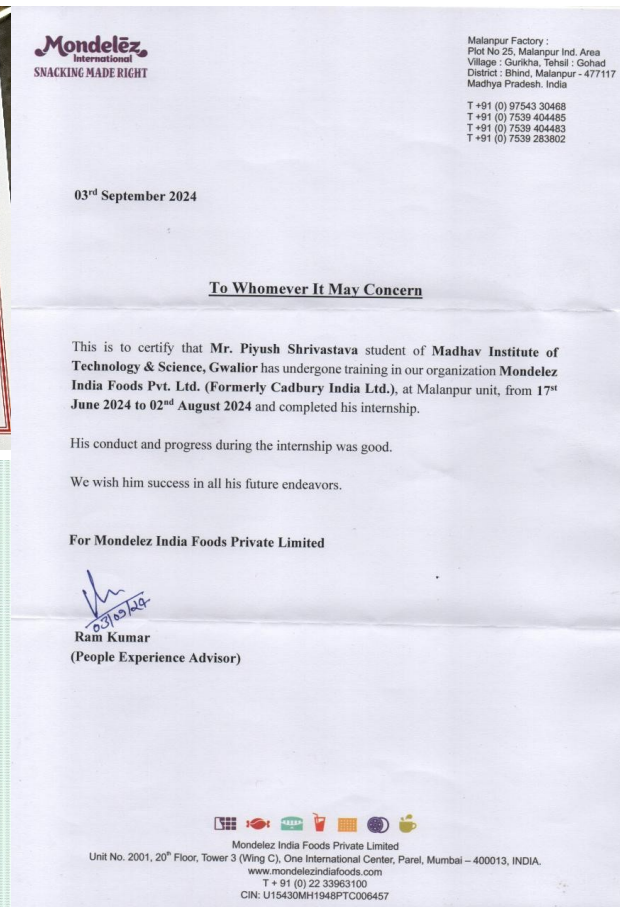
ANG technologies.  
Office No. SF-3, 2nd Floor, Reliable Arcade At Jaipuria Enclave, Plot No,  
Kaushambi, Ghaziabad - 201010  
GSTIN: 09AFVPG5950F12G







# Student Achievements





# Placed Students



Nitya Kaurav  
EC



Anushka Mishra  
EC



Ayush  
ET



Nihal  
ET

Dear student,

Congratulations! We are glad to inform you that you have received an offer in **Volvo Eicher's - Graduate Engineer Trainee.**

Dear student,

Congratulations! We are glad to inform you that you have received an offer in **Volvo Eicher's - Graduate Engineer Trainee.**

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