



Madhav Institute of Technology & Science, Gwalior

(Deemed University)

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

NAAC Accredited with A++ Grade



Editorial Board:

1. Faculty Members

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

2. Student Members

- Deepansh Shrivastava
(EC - 4th year)
- Piyush Shrivastava
(EC - 4th year)

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DEPARTMENT OF ELECTRONICS ENGINEERING

NEWSLETTER PRESENTATION

July-September 2024



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



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



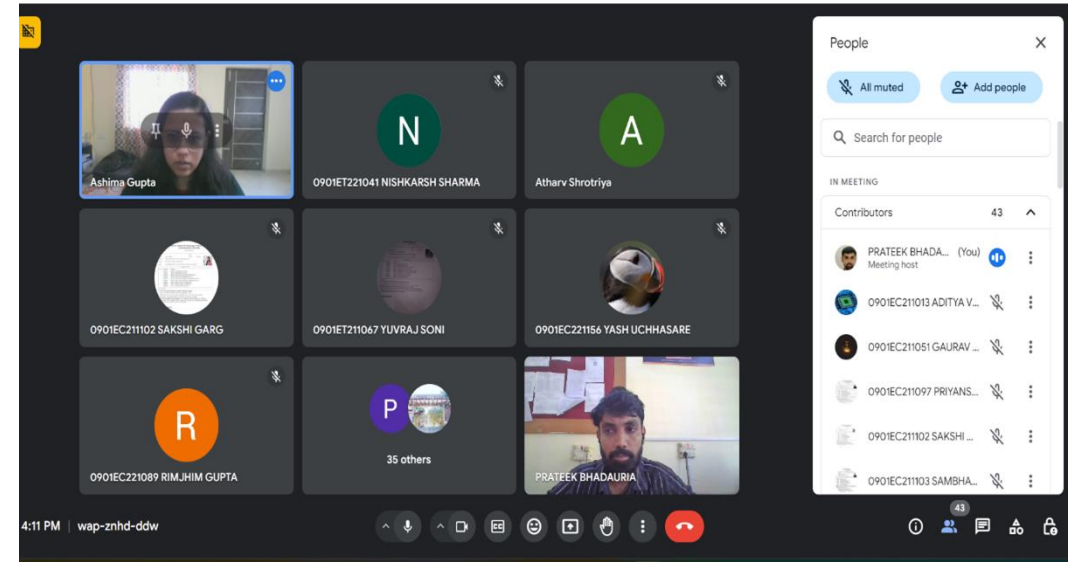
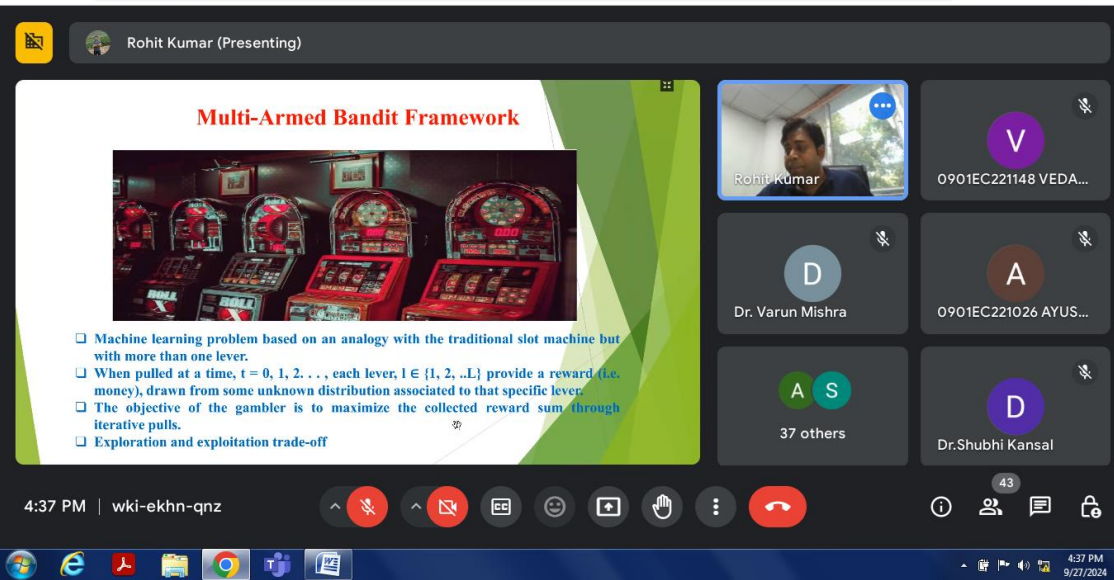
Expert Talk Given Outside the Institute

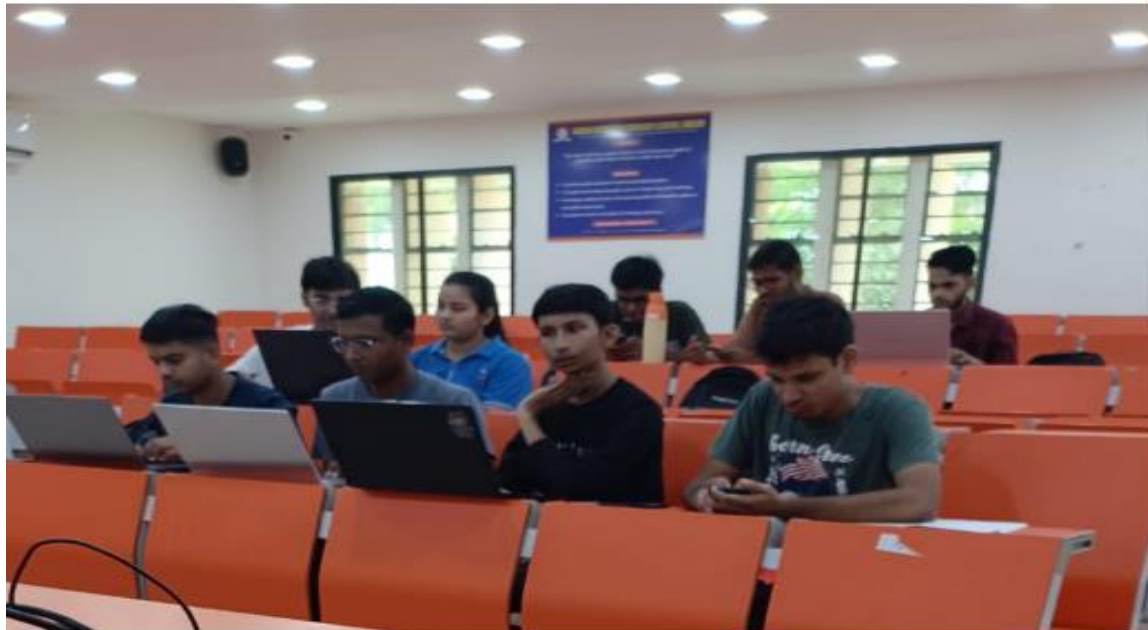
1. Mr. D.K. Parsedia delivered “My Bharat Portal training session” for various distinct programme officers at Datia, Sheopur, Ashoknagar, Gwalior etc.
2. Mr. Prateek Bhaduria delivered expert talk At National Agriculture Development Cooperative LTD. (NADCL) Baramull J&K.



Activities Organized at Institute/Department

1. Orientation program was organized for 2,3 and 4 year on 5th August 2024 at department level.
2. An activity of “Review of CO-PO mapping” was organized on 8th August 2024 at department level.
3. A workshop titled “ Hands on workshop on PCB Designing” was organized on 17th August 2024 at department level.
4. An extension activity (Health- Hygiene awareness campaign) was organized on 30th August 2024.
5. An online workshop on “Circuit simulation using Cadence” was organized on 31st 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 27th September 2024. Dr. Rohit Gupta, Assistant Professor, DTU, Delhi delivered the talk.







NPTEL/ATAT/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/ATATL/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



T.V. Bharat

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

Jul-Sep 2024
(8 week course)



Indian Institute of Technology Guwahati



Roll No: NPTEL24EE94S436200334

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
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



Haimanti Banerji

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Jul-Sep 2024
(8 week course)



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
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Total number of candidates certified in this course: 81



Ranjana Pathania

Prof. Ranjana Pathania,
Professor (BSSE)
Coordinator (NPTEL)

Jul-Sep 2024
(8 week course)



Indian Institute of Technology Roorkee



Roll No: NPTEL24EE90S236200452

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

Kaushik Ghosh

Prof. Kaushik Ghosh,
Professor (Chemistry)
Coordinator CEC

Jul-Sep 2024
(8 week course)



Indian Institute of Technology Roorkee



Roll No: NPTEL24EE90S136200107

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
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



Andrew Thangaraj

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

Jul-Sep 2024
(8 week course)



Indian Institute of Technology Madras



Roll No: NPTEL24GE41S136200220

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

Anand Srivastava

Dr. Anand Srivastava
Coordinator
Continued Education Program, IITD

Jul-Sep 2024
(8 week course)



INDRAPRASTHA INSTITUTE OF
INFORMATION TECHNOLOGY DELHI



Roll No: NPTEL24EE62S236200392

To verify the certificate



No. of credits recommended: 2 or 3



NPTEL/A TAL/Internshala Courses Attended

Elite

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**

Jul-Sep 2024
(8 week course)

Prof. Kaushik Ghosh,
Professor (Chemistry)
Coordinator CEC

Prof. Ranjana Pathania,
Professor (RSBE)
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** %

Jul-Sep 2024

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Kanpur

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 16th 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** %

Jul-Sep 2024

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Kanpur

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 16th Nov, 2023, similar to other refresher / orientation courses. F.No. AICTE / RIFD / FDP through MOOCs / 2023

Elite

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**

Jul-Aug 2024
(4 week course)

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

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

NPTEL-AICTE Faculty Development Programme
(Funded by the MoE, Govt. of India)

This certificate is awarded to
RACHIT JAIN
for successfully completing the course
Introduction to Machine Learning
with a consolidated score of **76** %

Jul-Sep 2024

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Kanpur

Roll No: NPTEL24CS81S436200180 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 16th Nov, 2023, similar to other refresher / orientation courses. F.No. AICTE / RIFD / FDP through MOOCs / 2023



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 2nd 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 14th 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



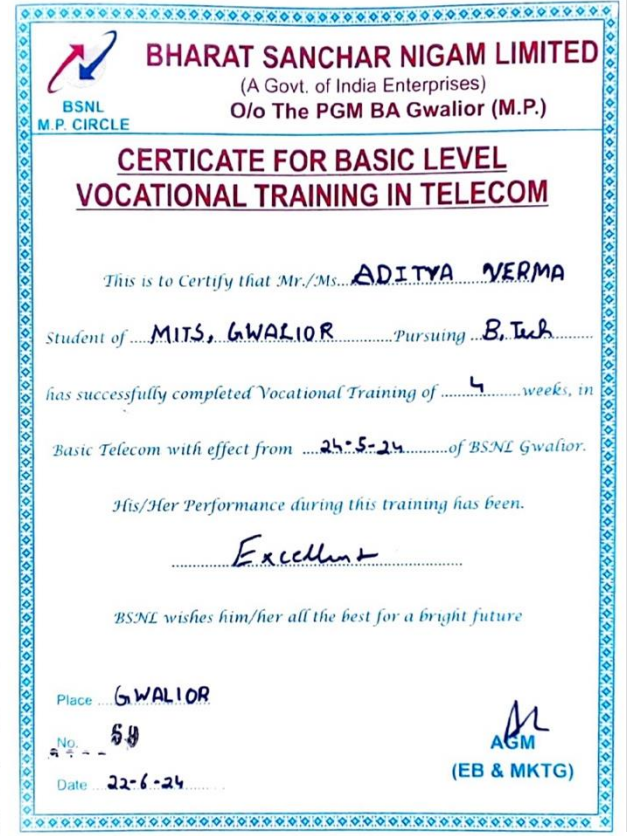
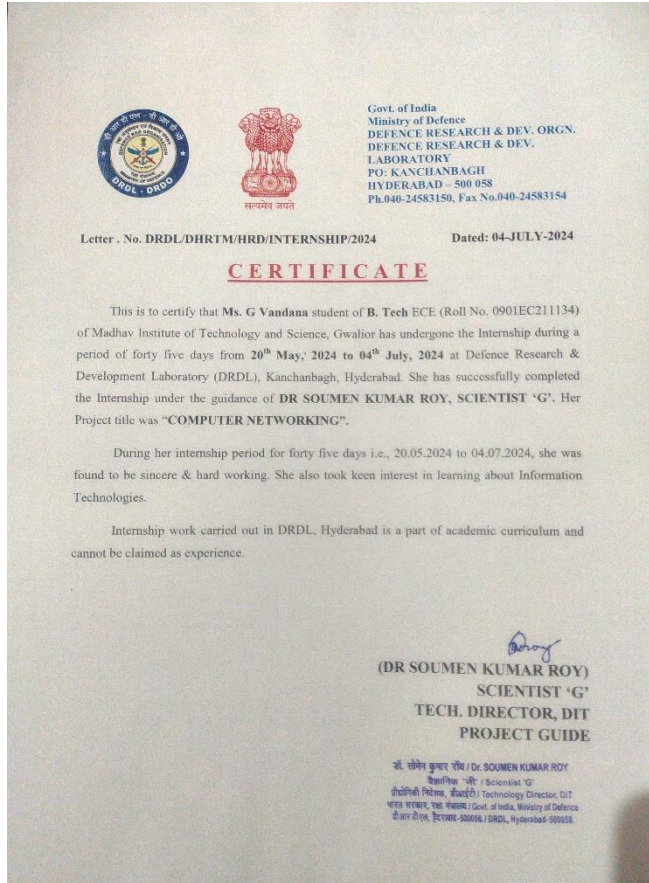


Student Achievements

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**.

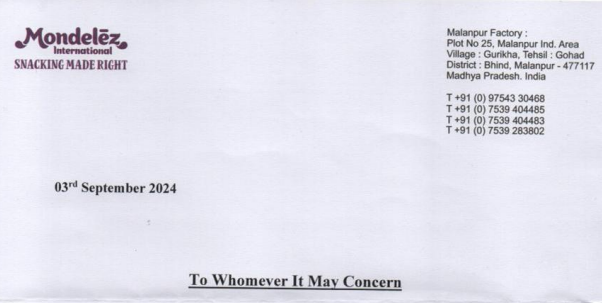
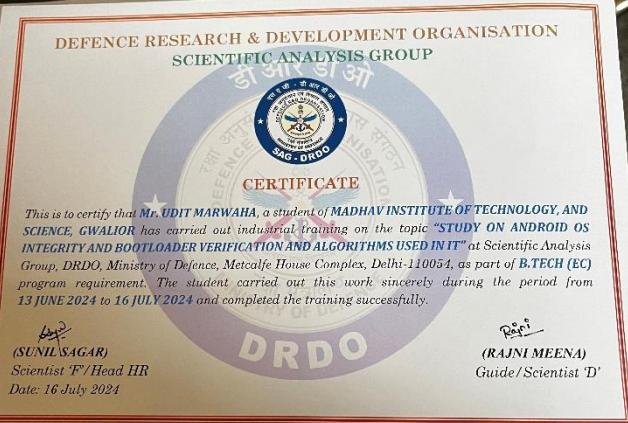


Student Achievements





Student Achievements



This is to certify that Mr. Piyush Shrivastava student of Madhav Institute of Technology & Science, Gwalior has undergone training in our organization Mondelez India Foods Pvt. Ltd. (Formerly Cadbury India Ltd.), at Malanpur unit, from 17th June 2024 to 02nd August 2024 and completed his internship.

His conduct and progress during the internship was good.

We wish him success in all his future endeavors.

For Mondelez India Foods Private Limited

Ram Kumar
Ram Kumar
(People Experience Advisor)





Placed Students



Nitya Kaurav
EC

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



Anushka Mishra
EC

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



Ayush
ET

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



Nihal
ET

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