

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(Deemed University)
(Declared under Distinct Category by Ministry of Education, Government of India)
NAAC ACCREDITED WITH A++ GRADE

AI Insights

Centre For Artificial Intelligence



Departmental Newsletter: July to September 2024

Editorial Member:

- Dr. Rajni Ranjan Singh Makwana, HoD, Centre for Artificial Intelligence

Faculty Coordinator's:

- Dr. Tej Singh, Assistant Professor, Centre for Artificial Intelligence
- Dr. Sanjeev K Dwivedi, Assistant Professor, Centre for Artificial Intelligence

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Award/Prize/ Recognition by Faculty Members

- Dr. Shubha Mishra was a member of the Expert Committee in 4th International Conference on Data Science & Big Data Analytics (IDBA-2024) organized by Symbiosis University of Applied Science & technically associated with UNESCO Chair on Secure High-Performance Computing for Higher Education & Research, NUST during 12-13 July 2024.

Talk delivered outside the Institute

- Dr. Vibha Tiwari delivered a Lecture on “Use of AI to tackle problems in agriculture” on Artificial Intelligence Appreciation Day at School of Agriculture , ITM University, Gwalior on 16th July 2024.



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FDP/STC attended (Outside the institute)

- Dr. Sanjeev Kumar Dwivedi of MITS-DU, Gwalior has participated in three days workshop on “Quantum Information & Advance Computing - Modern Edge with Industrial Alignments” organized by Amity School of Engineering and Technology from Aug 01, 2024, to Aug 03, 2024.
- Dr. Shipra Shukla of MITS-DU, Gwalior has successfully completed 8 weeks online Faculty Development Program on “Introduction to Machine Learning” from 22/07/2024 to 13/09/2024, organized by Prof. Sudeshna Sarkar, Professor in the Department of Computer Science and Engineering at IIT Kharagpur.
- Dr. Hardev Singh Pal of MITS-DU, Gwalior has successfully completed 8 weeks online Faculty Development Program on “Research Methodology” from July- Sep 2024, organized by By Prof. Edamana Prasad and Prof. Prathap Haridoss Professor in IIT Madras.

FDP/STC attended (Outside the institute)

- Mr.Ashish Singh of MITS-DU, Gwalior has successfully participated and completed five days online Faculty Development Program on “Cyber Security and Ethical Hacking” from 26/08/2024 to 30/08/2024 organized by the Department of Information Technology, D Y Patil College of Engineering, Akurdi, Pune.
- Mr.Khemchand Shakyawar of MITS-DU, Gwalior has successfully participated and completed five days online Faculty Development Program on “Cyber Security and Ethical Hacking” from 26/08/2024 to 30/08/2024 organized by the Department of Information Technology, D Y Patil College of Engineering, Akurdi, Pune.
- Ms. Aditi Samadhiya of MITS-DU, Gwalior has successfully completed a one week International Faculty Development Program on “AI for Sustainable Development” from 5th August 2024 to 9th August 2024, organized by VIIT, Pune, IEEE Region.



NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SHIPRA SHUKLA

for successfully completing the course

Introduction to Machine Learning

with a consolidated score of **91 %**

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Jul-Sep 2024)

Roll No: NPTEL24CS81S436200311

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

HARDEV SINGH PAL

for successfully completing the course

Research Methodology

with a consolidated score of **65 %**

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Jul-Sep 2024)



Roll No: NPTEL24GE41S136200161

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





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DR. D. Y. Patil Pratisthan's
 D. Y. Patil College Of Engineering Akurdi, Pune-44
 An Autonomous Institute from AY 2024-2025
 Affiliated to Savitribai Phule Pune University
 Accredited by NAAC with 'A' Grade
Department of Information Technology
 Accredited by NBA

Certificate

This is to Certify that **ASHISH SINGH** of **Madhav Institute of Technology & Science Gwalior** has successfully participated and completed five days online Faculty Development Program on **"Cyber Security and Ethical Hacking"** from 26/08/2024 to 30/08/2024 organized by Department of Information Technology, D Y Patil College of Engineering, Akurdi, Pune.

 Dr. Aarti Jadhav Patil Co-Convenor	 Dr. Latika Desai Convenor	 Dr. Preeti Patil HOD IT & Convenor	 Dr. Mrs. P. Malathi Principal
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DR. D. Y. Patil Pratisthan's
 D. Y. Patil College Of Engineering Akurdi, Pune-44
 An Autonomous Institute from AY 2024-2025
 Affiliated to Savitribai Phule Pune University
 Accredited by NAAC with 'A' Grade
Department of Information Technology
 Accredited by NBA




Certificate

This is to Certify that **khemchand shakywar** of **MITS Deemed university Gwalior** has successfully participated and completed five days online Faculty Development Program on **"Cyber Security and Ethical Hacking"** from 26/08/2024 to 30/08/2024 organized by Department of Information Technology, D Y Patil College of Engineering, Akurdi, Pune.

 Dr. Aarti Jadhav Patil Co-Convenor	 Dr. Latika Desai Convenor	 Dr. Preeti Patil HOD IT & Convenor	 Dr. Mrs. P. Malathi Principal
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**CERTIFICATE
OF PARTICIPATION**

THE FOLLOWING CERTIFICATE IS AWARDED TO

Aditi Samadhiya

In recognition of successfully completing a one week International Faculty Development Program on "AI for Sustainable Development" from 5th August 2024 to 9th August 2024, organized by VIIT, Pune, IEEE Region 10 Humanitarian Technology activities, IEEE Pune Section, IEEE Pune Section SIGHT group, IEEE Pune section SIG on "Energy and Environmental Engineering" and IEEE VIIT Student Branch.

 Mr. P. B. Chaudhari FDP Coordinator	 Dr. A. V. Yenikar FDP Coordinator	 Dr. Amar Buchade FDP Coordinator & Chair, IEEE Pune Section, SIGHT Group	 Dr. Nilesh Sable HOD CSE(AI), VIIT, Pune	 Dr. P. N. Mahalle HOD AInDS, Dean R&D, VIIT, Pune	 Dr. V. S. Deshpande Director, VIIT, PUNE
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Activities Organized (Workshop/Conference/FDP/STC) at the Institute level

- Internal Smart India Hackathon 2024 was organized on 07/09/2024 by the Centre for Artificial Intelligence coordinated by Dr. Shubha Mishra (SPOC) & Dr. Shweta Chauhan.



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Activities Organized (Workshop/Conference/FDP/STC) at the Institute level



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NPTEL/ATAL/COURSERA/INTERNSHALA Course Attended

- Dr. Shipra Shukla of MITS-DU, Gwalior has successfully completed 8 weeks online course on “Introduction to Machine Learning” from 22/07/2024 to 13/09/2024, organized by Prof. Sudeshna Sarkar, Professor in the Department of Computer Science and Engineering at IIT Kharagpur.



The certificate is titled "Elite NPTEL ONLINE CERTIFICATION" and is awarded to Shipra Shukla for completing the course "Introduction to Machine Learning" with a consolidated score of 91%. The score is broken down into Online Assignments (23.33/25) and Proctored Exam (67.35/75). The certificate is signed by Prof. Haimanti Banerji, Coordinator of NPTEL at IIT Kharagpur, for the Jul-Sep 2024 (8 week course). It also features logos for Skill India, Swayam, and IIT Kharagpur.

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

This certificate is awarded to
SHIPRA SHUKLA
for successfully completing the course
Introduction to Machine Learning
with a consolidated score of **91** %

Online Assignments	23.33/25	Proctored Exam	67.35/75
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Total number of candidates certified in this course: **6812**

Jul-Sep 2024
(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Roll No: NPTEL24CS81S436200311 To verify the certificate  No. of credits recommended: 2 or 3

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Publications

- **Dr. Vibha Tiwari et.al.** published a paper “Bridging the Gap between Technology and Medicine through the Revolutionary Impact of the Healthcare Internet of Things on Remote Patient Monitoring” in Journal of Intelligent Systems and Internet of Things Vol. 13, No. 02, PP. 212-222, 2024 DOI: <https://doi.org/10.54216/JISIoT.130217> (Scopus)
- **Sanjeev Kumar Dwivedi et al.** "DEAC-IoT: Design of Lightweight Authenticated Key Agreement Protocol for Intra and Inter-IoT device Communication using ECC with FPGA Implementation," Computers and Electrical Engineering, Elsevier, vol. 120, Part A, pp. 109696, 2024. [Q1, SCIE, IF: 4.3] DOI: <https://doi.org/10.1016/j.compeleceng.2024.109696>.
- **Sanjeev Kumar Dwivedi et al.** "A Study on “Blockchain-Enabled Digital Twins: The Next Wave of Industrial Transformation with Future Research Challenges,” 2024 International Conference on Computer, Information and Telecommunication Systems (CITS), Girona, Spain, 17-19 July 2024. DOI: 10.1109/CITS61189.2024.10608017.
- **Shweta Chauhan et al.** "Harmonizing Precision Agriculture: Augmented Insights into Plant Disease Detection Using Deep Learning,” 2024 International Conference on Integrated Circuits, Communication, and Computing Systems (ICIC3S), Una, Himachal Pradesh, 8-9 June 2024. DOI: 10.1109/ICIC3S61846.2024.

Student Club Activities

The Funtech Club hosted an insightful seminar on 31 August 2024, the latest job market trends, followed by an Aptitude Test on reasoning and IT knowledge, led by the esteemed guest Mr. Harshil Bansal.



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