



Centre for Internet of Things

NEWSLETTER



The IoT-Insider



“Arise, Awake, and Stop not until the Goal is reached”

Swami Vivekananda



- Faculty Attended FDP Programs
- Faculty Attended Workshops/Seminars
- Faculty Publications
- Faculty Achievements
- Faculty Interaction with Outside World
- Students Achievements , Awards and Internship
- Latest News in IoT

Department's Highlights

- The B.Tech 2nd-year students specializing in the Internet of Things (IoT) secured the winner's rank at the national-level Smart India Hackathon, held at Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh, on December 11-12, 2024. They achieved the first rank in the Grand Finale of the National Hackathon 2024 and received a cash prize of ₹1 lakh.





FACULTY TRAINING PROGRAMME/ FDP ATTENDED

- **Dr. Dhananjay Bisen** completed FDP on Big Data Computing through NPTEL.
- **Dr. Dhananjay Bisen** completed FDP on Distributed System through NPTEL.

The IoT Insider



NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to
DHANANJAY BISEN
 for successfully completing the course
Big Data Computing
 with a consolidated score of **70 %**

Prof. Andrew Thangaraj
 NPTEL Coordinator
 IIT Madras



(Aug-Oct 2024)

Roll No: NPTEL24CS130S459200753

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
DHANANJAY BISEN
 for successfully completing the course
Distributed Systems
 with a consolidated score of **78 %**

Prof. Andrew Thangaraj
 NPTEL Coordinator
 IIT Madras



(Jul-Sep 2024)

Roll No: NPTEL24CS77S436200254

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

Faculty Achievements



FACULTY NPTEL COURSE

- **Dr. Dhananjay Bisen** completed NPTEL course on Big Data Computing [8 week] with **Elite** certificate, Aug-Oct 2024.
- **Dr. Dhananjay Bisen** completed NPTEL course on Distributed System [8 week] with **Elite+Silver** certificate, Jul-Sep 2024.



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to
DHANANJAY BISEN
 for successfully completing the course

Big Data Computing

with a consolidated score of **70** %

Online Assignments	25/25	Proctored Exam	45/75
--------------------	-------	----------------	-------

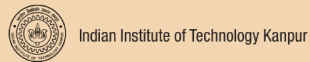
Total number of candidates certified in this course: 5564

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

Aug-Oct 2024
 (8 week course)



Satyaki
Prof. Satyaki Roy
 NPTEL Coordinator
 IIT Kanpur



Roll No: NPTEL24CS130S459200753

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
DHANANJAY BISEN
 for successfully completing the course

Distributed Systems

with a consolidated score of **78** %

Online Assignments	25/25	Proctored Exam	52.5/75
--------------------	-------	----------------	---------

Total number of candidates certified in this course: 1466

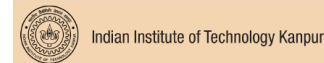


Pathush
Prof. B. V. Ratish Kumar
 Chairman, Centre for Continuing Education
 IIT Kanpur

Jul-Sep 2024
 (8 week course)



Satyaki
Prof. Satyaki Roy
 NPTEL Coordinator
 IIT Kanpur



Roll No: NPTEL24CS77S436200254

To verify the certificate



No. of credits recommended: 2 or 3



FACULTY NPTEL COURSE

- **Dr. Aditya Dubey** completed the NPTEL course on Big Data Computing [8 weeks] with an Elite certificate, Jul-Oct 2024.
- **Dr. Aditya Dubey** was identified as the 5% topper of the NPTEL course on Introduction to Industry 4.0 and Industrial Internet of Things [12 weeks], Jul-Oct 2024.

The IoT Insider

Faculty Achievements

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

This certificate is awarded to
ADITYA DUBEY
 for successfully completing the course
**Introduction to Industry 4.0 and Industrial
 Internet of Things**
 with a consolidated score of **80** %

Online Assignments	24.56/25	Proctored Exam	55.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 15725

Jul-Oct 2024
 (12 week course)

Prof. Haimanti Banerji
 Coordinator, NPTEL
 IIT Kharagpur

Indian Institute of Technology Kharagpur

Roll No: NPTEL24CS95S359200477 To verify the certificate No. of credits recommended: 3 or 4

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

This certificate is awarded to
ADITYA DUBEY
 for successfully completing the course
Big Data Computing
 with a consolidated score of **75** %

Online Assignments	24.58/25	Proctored Exam	50.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 5664

Aug-Oct 2024
 (8 week course)

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

Indian Institute of Technology Kanpur

Roll No: NPTEL24CS130S459200761 To verify the certificate No. of credits recommended: 2 or 3



FACULTY NPTEL COURSE

- **Dr. Soumyajit Ghosh** completed the NPTEL course on Smart Grid: Basics to Advanced Technologies [12 weeks] with an Elite certificate, Jul-Oct 2024.
- **Dr. Soumyajit Ghosh** secured a position among the top 5% of participants in the NPTEL course Introduction to Industry 4.0 and Industrial Internet of Things (12 weeks) with an Elite certificate, Jul-Oct 2024.

The IoT Insider

Faculty Achievements

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

This certificate is awarded to
SOUMYAJIT GHOSH
 for successfully completing the course

Smart Grid: Basics to Advanced Technologies

with a consolidated score of **83** %

Online Assignments	23.13/25	Proctored Exam	60/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **1968**

Jul-Oct 2024
 (12 week course)

Indian Institute of Technology Roorkee

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

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

swayam

Roll No: NPTEL24EE148S1059200693 To verify the certificate

No. of credits recommended: 3 or 4

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

This certificate is awarded to
SOUMYAJIT GHOSH
 for successfully completing the course

Introduction to Industry 4.0 and Industrial Internet of Things

with a consolidated score of **81** %

Online Assignments	24.13/25	Proctored Exam	57/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **15725**

Jul-Oct 2024
 (12 week course)

Indian Institute of Technology Kharagpur

Prof. Haimanti Banerji, Coordinator, NPTEL, IIT Kharagpur

swayam

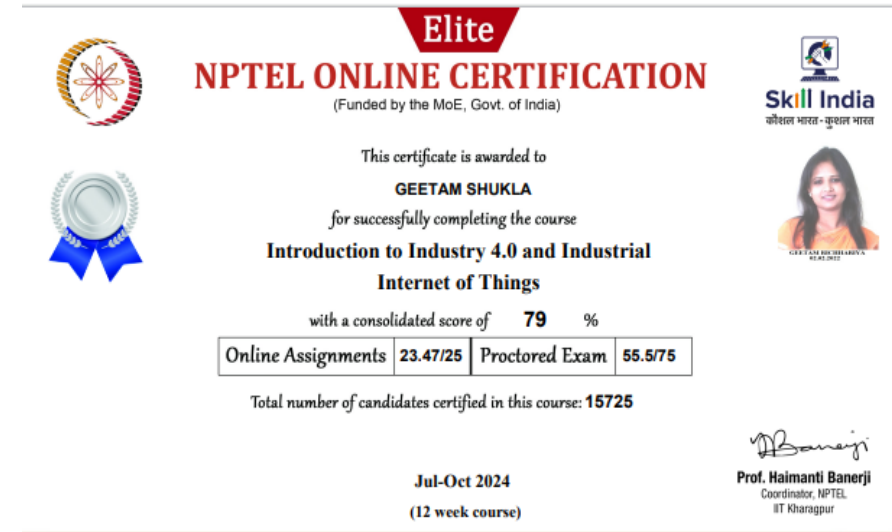
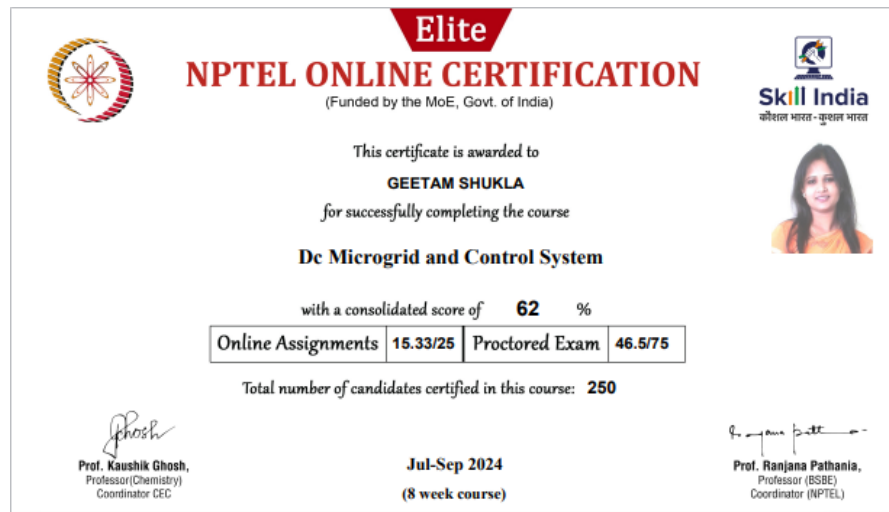
Roll No: NPTEL24CS95S459200921 To verify the certificate

No. of credits recommended: 3 or 4



FACULTY NPTEL COURSE

- **Dr. Geetam Shukla** completed the NPTEL course on Dc Microgrid and Control System [8 weeks] with an Elite certificate, Jul-Oct 2024.
- **Dr. Geetam Shukla** secured a position among the top 5% of participants in the NPTEL course Introduction to Industry 4.0 and Industrial Internet of Things (12 weeks) with an Elite Silver certificate, Jul-Oct 2024.



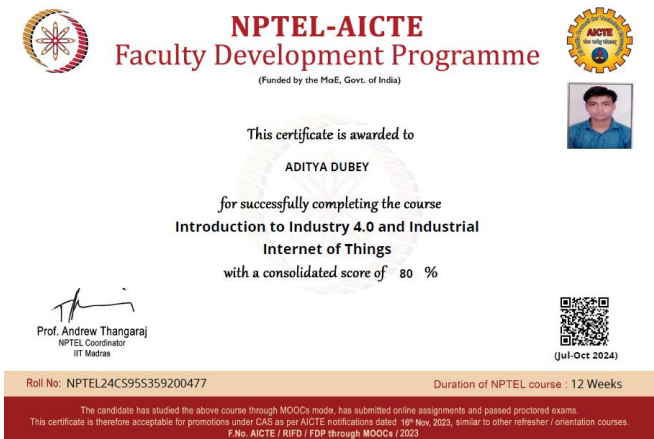


FACULTY TRAINING PROGRAMME/ FDP ATTENDED

- **Dr. Aditya Dubey** completed FDP on Big Data Computing through NPTEL.
- **Dr. Aditya Dubey** completed FDP on Introduction to Industry 4.0 and Industrial Internet of Things through NPTEL.
- **Dr. Soumyajit Ghosh** completed the NPTEL course on Introduction to Internet of Things [12 weeks] with an Elite certificate, Jul-Oct 2024.

The IoT Insider

Faculty Achievements



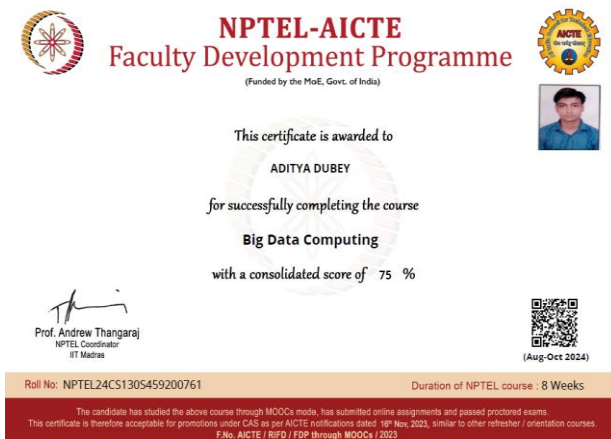
NPTEL-AICTE Faculty Development Programme
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
ADITYA DUBEY
 for successfully completing the course
Introduction to Industry 4.0 and Industrial Internet of Things
 with a consolidated score of **80 %**

Prof. Andrew Thangaraj
 NPTEL Coordinator
 IIT Madras

Roll No: NPTEL24CS955359200477 Duration of NPTEL course : 12 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 19th Nov, 2023, similar to other refresher / orientation courses. F.No. AICTE / RFD / FDP through MOOCs / 2023



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

This certificate is awarded to
ADITYA DUBEY
 for successfully completing the course
Big Data Computing
 with a consolidated score of **75 %**

Prof. Andrew Thangaraj
 NPTEL Coordinator
 IIT Madras

Roll No: NPTEL24CS1305459200761 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 19th Nov, 2023, similar to other refresher / orientation courses. F.No. AICTE / RFD / FDP through MOOCs / 2023



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

This certificate is awarded to
SOUMYAJIT GHOSH
 for successfully completing the course
Introduction to Internet of Things
 with a consolidated score of **80 %**

Online Assignments	24.6/25	Proctored Exam	55.5/75
--------------------	---------	----------------	---------

Total number of candidates certified in this course: 33131

Jul-Oct 2024
 (12 week course)

Prof. Haimanti Banerji
 Coordinator, NPTEL
 IIT Kharagpur

Indian Institute of Technology Kharagpur

Roll No: NPTEL24CS115S859200749 To verify the certificate No. of credits recommended: 3 or 4




FACULTY TRAINING PROGRAMME/ FDP ATTENDED

- **Dr. Geetam Shukla** completed FDP on Dc Microgrid and Control System through NPTEL.
- **Dr. Geetam Shukla** completed FDP on Introduction to Industry 4.0 and Industrial Internet of Things through NPTEL.



The IoT Insider

Faculty Achievements




NPTEL-AICTE Faculty Development Programme


(Funded by the MoE, Govt. of India)


This certificate is awarded to
GEETAM SHUKLA
 for successfully completing the course
Dc Microgrid and Control System
 with a consolidated score of **62 %**



Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras





(Jul-Sep 2024)




NPTEL-AICTE Faculty Development Programme


(Funded by the MoE, Govt. of India)

This certificate is awarded to
GEETAM SHUKLA
 for successfully completing the course
**Introduction to Industry 4.0 and Industrial
Internet of Things**
 with a consolidated score of **79 %**



Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Jul-Oct 2024)

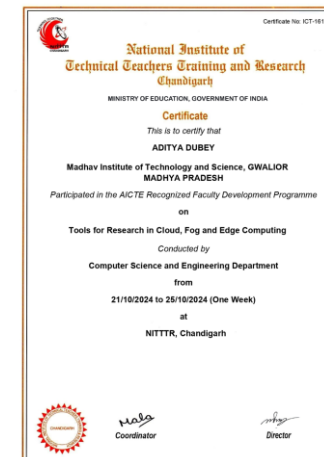
FACULTY TRAINING PROGRAMME/ FDP ATTENDED

- **Dr. Dhananjay Bisen**, Assistant Professor of Madhav Institute of Technology and Science Gwalior has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on ADVANCEMENTS IN ROBOTICS (AiR-2024) at GOVERNMENT POLYTECHNIC MAHASAMUND from 14/10/2024 to 19/10/2024.
- **Dr. Murli Manohar**, Assistant Professor, Centre for Internet of Things, has successfully participated & completed the online AICTE Training And Learning (ATAL) Academy Faculty Development Program on SMART COMPUTING AND ITS APPLICATIONS IN CYBER DEFENSE & DIGITAL FORENSIC organized by JALPAIGURI GOVERNMENT ENGINEERING COLLEGE from 16/12/2024 to 21/12/2024.



FACULTY FDP ATTENDED

- **Dr. Aditya Dubey** completed AICTE Training and Learning (ATAL) FDP on "ADVANCEMENTS IN ROBOTICS (AiR-2024)" from 14-10-2024 to 19-10-2024, organised by Government Polytechnic Mahasamund.
- **Dr. Aditya Dubey** completed the AICTE-recognized faculty development program on "Tools for Research in Cloud, Fog, and Edge Computing" from 21-10-2024 to 25-10-2024, organised by NITTTR Chandigarh.





FACULTY FDP ATTENDED

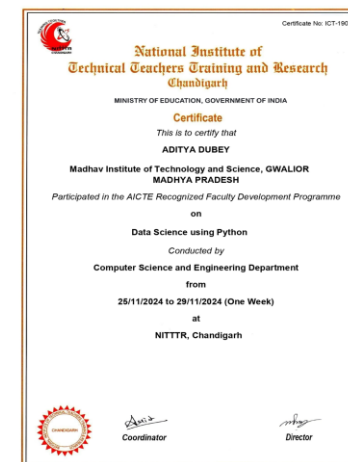
- **Dr. Aditya Dubey** completed AICTE-recognized faculty development Programme on "IOT Application for SDGs and Sustainable Rural Development" from 18-11-2024 to 22-11-2024, organised by NITTTR Chandigarh.
- **Dr. Aditya Dubey** completed AICTE Training and Learning (ATAL) FDP on "Artificial Intelligence and its Applications in Business Management" from 16-12-2024 to 21-12-2024, organised by ASIAN SCHOOL OF BUSINESS.





FACULTY FDP ATTENDED

- **Dr. Aditya Dubey** completed AICTE-recognized faculty development Programme on "Data Science using Python" from November 25, 2024 to November 29, 2024, organised by NITTTR Chandigarh.
- **Dr. Aditya Dubey** completed the AICTE-Recognized Faculty Development Programme on "Generative AI and its Multimodal Use Cases" from 02-12-2024 to 06-12-2024, organised by the Department of Information Technology, Vishwakarma Institute of Technology, Pune.





FACULTY FDP ATTENDED

- **Dr. Aditya Dubey** completed AICTE-recognized faculty development program on "problem-based learning" from 07-10-2024 to 09-10-2024, organised by NITTTR BHOPAL
- **Dr. Aditya Dubey** completed the AICTE Training and Learning (ATAL) FDP on "Artificial Intelligence in Data Science Applications" from 13-12-2024 to 19-12-2024, organised by Mufakham Jah College of Engineering and Technology.

The IoT Insider

Faculty Achievements






FACULTY TRAINING PROGRAMME/ FDP ATTENDED



- **Dr. Soumyajit Ghosh** completed FDP on Smart Grid: Basics to Advanced Technologies.
- **Dr. Soumyajit Ghosh** completed FDP on Introduction to Industry 4.0 and Industrial Internet of Things through NPTEL.

The IoT Insider


Faculty Achievements




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

This certificate is awarded to
SOUMYAJIT GHOSH
for successfully completing the course
Introduction to Industry 4.0 and Industrial Internet of Things
with a consolidated score of **81 %**



Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Jul-Oct 2024)

Roll No: NPTEL24CS955459200921 Duration of NPTEL course : 12 Weeks



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




This certificate is awarded to
SOUMYAJIT GHOSH
for successfully completing the course
Smart Grid: Basics to Advanced Technologies
with a consolidated score of **83 %**



Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Jul-Oct 2024)

Roll No: NPTEL24EE14851059200693 Duration of NPTEL course : 12 Weeks

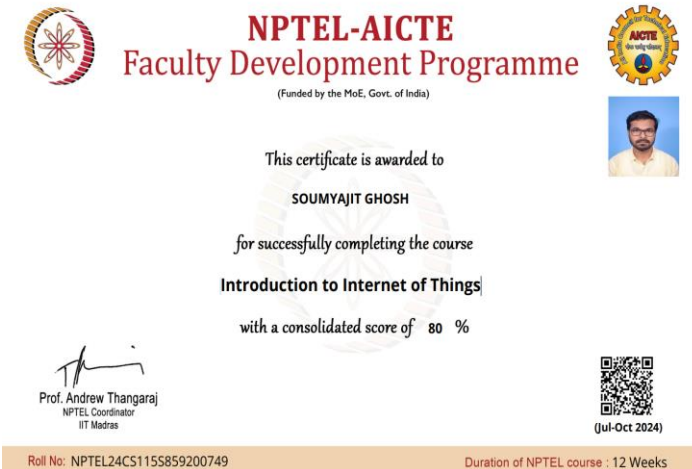


FACULTY TRAINING PROGRAMME/ FDP ATTENDED

- **Dr. Soumyajit Ghosh** completed FDP on Introduction to Internet of Things.
- **Dr. Soumyajit Ghosh**, Assistant Professor, Centre for Internet of Things, has successfully participated & completed the online AICTE Training And Learning (ATAL) Academy Faculty Development Program on SMART COMPUTING AND ITS APPLICATIONS IN CYBER DEFENSE & DIGITAL FORENSIC organized by JALPAIGURI GOVERNMENT ENGINEERING COLLEGE from 16/12/2024 to 21/12/2024.

The IoT Insider

Faculty Achievements



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

This certificate is awarded to
SOUMYAJIT GHOSH
 for successfully completing the course
Introduction to Internet of Things
 with a consolidated score of **80 %**

Prof. Andrew Thangaraj
 NPTEL Coordinator
 IIT Madras

(Jul-Oct 2024)

Roll No: NPTEL24CS115S859200749 Duration of NPTEL course : 12 Weeks



ATAL/2024/1733633766

Skill India ATAL AICTE

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
 Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that **Dr. Dr. Soumyajit Ghosh**, Faculty members of the AICTE approved institutions of Madhav Institute of Technology and Science has successfully participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on **SMART COMPUTING AND ITS APPLICATIONS IN CYBER DEFENSE & DIGITAL FORENSIC** at **JALPAIGURI GOVERNMENT ENGINEERING COLLEGE** from 16/12/2024 to 21/12/2024.

Subhas Barman
 Assistant Professor Level (AICTE Institute), Coordinator
 JALPAIGURI GOVERNMENT ENGINEERING COLLEGE

Dr. Sunil Luthra
 Director & Bureau Head
 Training and Learning Bureau, AICTE

FACULTY Webinar/ Seminar ATTENDED

- **Dr. Saurabh Kumar Rajput**, Assistant Professor of Centre for Internet of Things, Madhav Institute of Technology and Science- Deemed University Gwalior has successfully completed the Training of Trainers (ToT) Program at NPTI Shivpuri , Govt. of India from 07/10/2024 to 08/10/2024.





FACULTY Publications

- **Saurabh Kumar Rajput**, Deepansh Kulshrestha, Nikhil Paliwal, Vivek Saxena, Saibal Manna, Mohammed H. Alsharif, Mun-Kyeom Kim, "Forecasting capacitor banks for improving efficiency of grid-integrated PV plants: A machine learning approach", Elsevier, *Energy Reports*, Volume 13, 2025, Pages 140-160, ISSN 2352-4847, <https://doi.org/10.1016/j.egy.2024.12.011> (available online on 9 December 2024).
- Vivek Saxena, Narendra Kumar, Saibal Manna, **Saurabh Kumar Rajput**, Kusum Lata Agarwal, Sourav Diwania, Varun Gupta, Modelling, solution and application of optimization techniques in HRES: From conventional to artificial intelligence, Elsevier *Applied Energy*, Volume 380, 2025, 125047, ISSN 0306-2619, <https://doi.org/10.1016/j.apenergy.2024.125047> (Available online 7 December 2024).
- Vivek Saxena, Saibal Manna, **Saurabh Kumar Rajput et al.** Sustainable energy solutions: integrating hybrid CCHP systems with renewable technologies for efficient urban development. *Springer Nature J Braz. Soc. Mech. Sci. Eng.* 46, 668 (2024). <https://doi.org/10.1007/s40430-024-05250-w> (Published: 22 October 2024)
- S.P.Tiwari., **Murli Manohar** & S.K. Shukla., "A reliable protection scheme for high resistance fault detection in wind generator-integrated HVDC transmission system using ensemble of kNN". *Electrical Engineering (Springer)*, Published on 10 November 2024,. <https://doi.org/10.1007/s00202-024-02831-9>.



FACULTY Publications (Conferences)

- **Kaushal Pratap Sengar, Dr. Kandasamy Chandrasekaran**, “Enhancing square grounding grid performance through variable spacing Methods” in IEEE Silchar Section conference (IEEE SILCON 2024) held from November 15 to 17, 2024 at National Institute of Technology, Agartala. (Scopus Index)
- **Kaushal Pratap Sengar, Dr. Kandasamy Chandrasekaran**, “Study of Grounding System Transients in Two-Layer Soil Structure during Lightning Events Considering Soil Ionization” in 1st International Conference on Green Industrial Electronics and Sustainable Technologies (GIEST-2024)” organized by the IEEE Kolkata Section-Silchar Subsection IES Chapter in collaboration with the Department of Electrical Engineering, NIT Manipur, and the IEEE Student Branch, NIT Manipur, held on 25th and 26th of October 2024. (Scopus Index)

The IoT Insider

Faculty Achievements





FACULTY Publications (Conferences)

- **Aditya Dubey**, et al., **“Challenges and Opportunities in Digital Image Watermarking,”** 2024 First International Conference on Pioneering Developments in Computer Science & Digital Technologies (IC2SDT), pp. 29-34. (Scopus Index)

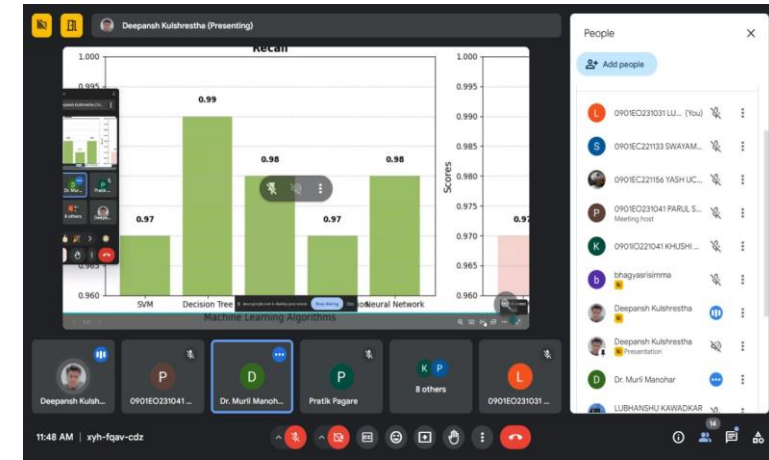
The IoT Insider

Faculty Achievements



FACULTY ACTIVITIES ORGANIZED (WORKSHOP/CONFERENCE/FDP/STC/WEBINAR)

- **Kaushal Pratap Sengar** organised 2nd National Level Poster Presentation (Hybrid Mode) on 'VISUALIZING CONNECTIVITY: IoT Poster EXPO-2024 on 19 October 2024.



- **Dr. Saurabh Kumar Rajput**, served as *organizing secretary* of 6th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSIS CET 2024), October 26-27, 2024, organized by Madhav Institute of technology and Science- Deemed University Gwalior.



FACULTY Achievements and Awards

- **Dr. Kaushal Pratap Sengar** has served as a **session chair in IEEE** International conference on sustainable power and energy 2024 held on 28th -29th november 2024, OP Jindal University, Raigarh.
- **Dr. Kaushal Pratap Sengar** has participated as a reviewer in the peer review process of manuscripts submitted to “**2024 IEEE international conference** on data and decision systems ICDDS-2024 jointly organised by PES University bangalore IEEE computer society bangalore chapter 5th-7th December 2024.





FACULTY Achievements and Awards

- **Dr. Dhananjay Bisen** received appreciation Letter for subject “Data Science in IoT [2230522]”, session July-December 2024 in 5th sem.
- **Dr. Kaushal Pratap Sengar** received appreciation Letter for subject “Design and Analysis of Algorithms [3220303], session July-December 2024 in B.Tech 3rd semester, Internet of things.

The IoT Insider

Faculty Achievements

Ref. No.: DFoET/IMP/2024/328 Date: 26th November, 2024

LETTER OF APPRECIATION

Dear **Dr. DHANANJAY BISEN**
 Centre for Internet of Things

The institute has always rewarded achievements and appreciated exemplary performance, in order to maintain a culture of meritocracy.

These are times when the process of teaching-learning-evaluation is going through innovation and change. The role of a teacher is now that of a mentor & facilitator and “what is learnt” by the student is becoming more important than “what is taught” by the teacher. The feedback system is an attempt to motivate teachers to fulfil learner expectations and aspirations. At the end of the day, a good teacher is one who has inspired the students to take full advantage of all the provisions that are being offered by the institute; such as the self-learning opportunities, interdisciplinary education, internships, flexible curriculum and initiatives which have been taken in line with the NEP-2020 philosophy.

Conducting teaching-learning according to the “Multiple Mode Teaching Learning Pattern (MMTLP)” of the institute, is a very challenging task.

I sincerely appreciate you for maintaining your mentoring level throughout the semester and ensuring student satisfaction through content delivery, motivation and encouragement.

The institute follows the practice of on-line feedback collection from the students (twice a semester) in order to monitor the quality of teaching-learning in the institute. The idea is to ensure satisfaction of stakeholders in the changing technical education scenario.

The performance metrics are rated by the students on a five-point scale (5: Excellent, 4: Very Good, 3: Good, 2: Average, 1: Below Average). Based on the weighted average of all 14 parameters, your Faculty Feedback Index (FFI) is found to be as follows:

Name of the Course	Semester	Faculty Feedback Index (FFI) Out of 5	Average FFI	Session
		Feedback - I	Feedback - II	
Data Science in IoT (2230522)	V	4.06	4.41	4.24 July-Dec 2024

Based on the Feedback Index, your contribution towards teaching & learning is highly appreciated and it is expected, that you will constantly update and evolve your teaching methodology and maintain a learner centric, interactive approach in future also.
 I wish you great success in all your present & future endeavours.

(Dr. Manjot Pandit)
 Dean, FoET

Ref. No.: DFoET/IMP/2024/328 Date: 26th November, 2024

LETTER OF APPRECIATION

Dear **Dr. KAUSHAL PRATAP SENGAR**
 Centre for Internet of Things

The institute has always rewarded achievements and appreciated exemplary performance, in order to maintain a culture of meritocracy.

These are times when the process of teaching-learning-evaluation is going through innovation and change. The role of a teacher is now that of a mentor & facilitator and “what is learnt” by the student is becoming more important than “what is taught” by the teacher. The feedback system is an attempt to motivate teachers to fulfil learner expectations and aspirations. At the end of the day, a good teacher is one who has inspired the students to take full advantage of all the provisions that are being offered by the institute; such as the self-learning opportunities, interdisciplinary education, internships, flexible curriculum and initiatives which have been taken in line with the NEP-2020 philosophy.

Conducting teaching-learning according to the “Multiple Mode Teaching Learning Pattern (MMTLP)” of the institute, is a very challenging task.

I sincerely appreciate you for maintaining your mentoring level throughout the semester and ensuring student satisfaction through content delivery, motivation and encouragement.

The institute follows the practice of on-line feedback collection from the students (twice a semester) in order to monitor the quality of teaching-learning in the institute. The idea is to ensure satisfaction of stakeholders in the changing technical education scenario.

The performance metrics are rated by the students on a five-point scale (5: Excellent, 4: Very Good, 3: Good, 2: Average, 1: Below Average). Based on the weighted average of all 14 parameters, your Faculty Feedback Index (FFI) is found to be as follows:

Name of the Course	Semester	Faculty Feedback Index (FFI) Out of 5	Average FFI	Session
		Feedback - I	Feedback - II	
Design and Analysis of Algorithms (3220303)	III	4.32	4.35	4.34 July-Dec 2024

Based on the Feedback Index, your contribution towards teaching & learning is highly appreciated and it is expected, that you will constantly update and evolve your teaching methodology and maintain a learner centric, interactive approach in future also.
 I wish you great success in all your present & future endeavours.

(Dr. Manjot Pandit)
 Dean, FoET



FACULTY Achievements and Awards

- **Dr. Dhananjay Bisen** has participated as a reviewer in the peer review process of manuscripts submitted to “IEEE SILCON 2024”, the flagship conference of IEEE Silchar subsection, held at National Institute of Technology Agartala, Tripura, India during November 15 - 17, 2024.
- **Dr. Dhananjay Bisen** from Madhav Institute of Technology & Science, Gwalior has served as a Session Chair in the Second International Conference On Pervasive Computing Advances And Applications (PerCAA- 2024) held on October 18 - 19, 2024, organized by Poornima College of Engineering, Jaipur, Rajasthan, India





FACULTY Achievements and Awards

- **Dr. Aditya Dubey** has served as a paper reviewer in the 3rd IEEE International Conference on Computer Vision and Machine Intelligence (IEEE CVMI 2024) (IEEE Conference Number: 61877) during October 19th-20th, 2024 IIT Allahabad.
- **Dr. Aditya Dubey** has served as a session chair in the Second International Conference on Pervasive Computing Advances And Applications (PerCAA- 2024) held on October 18–19, 2024, organized by Poornima College of Engineering, Jaipur.



FACULTY Achievements and Awards

- **Dr. Aditya Dubey** has served as Technical Program Committee Member and Reviewer in the 6th International Conference on Communication and Intelligent Systems (ICCIS 2024), held during November 08-09, 2024, organized by Maulana Azad National Institute of Technology (MANIT), Bhopal.
- **Dr. Aditya Dubey** has participated as a reviewer in the peer review process of manuscripts submitted to "IEEE SILCON 2024," the flagship conference of the IEEE Silchar subsection, held at the National Institute of Technology Agartala, during November 15-17, 2024.





FACULTY Achievements and Awards

- **Dr. Aditya Dubey** has served as a reviewer for “The International Conference On Innovations in Data Science,” organized by MANIPAL UNIVERSITY JAIPUR, during 28-29 NOVEMBER 2024.
- **Dr. Aditya Dubey** has successfully completed Focus on Peer Review: A Nature Masterclasses online course organised by Nature Masterclasses on 8 December 2024.
- **Dr. Aditya Dubey** has successfully completed Module 2: Professional Ethics & Sustainability, organised by the National Institute of Technical Teachers Training (NITTTR).

nature
masterclasses

8 December 2024

Certificate of Course Completion

This is to certify that
ADITYA DUBEY
has successfully completed
Focus on Peer Review
A Nature Masterclasses online course
3.5 hours learning



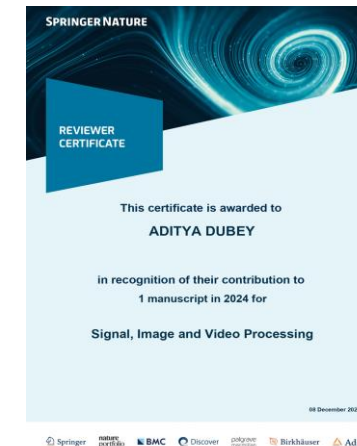
Magdalena Skäpper
Magdalena Skäpper, PhD
Editor-in-Chief, Nature
Chief Editorial Advisor, Nature Research

SPRINGER NATURE



FACULTY Achievements and Awards

- **Dr. Aditya Dubey** has served as a reviewer for the journal “Journal of Big Data,” Springer Nature.
- **Dr. Aditya Dubey** has served as a reviewer for the 7th International Conference Recent Trends in Processing & Pattern Recognition (RTIP2R 2024) organized by the Indian Institute of Information Technology Bhopal on 19th-20th December 2024.
- **Dr. Aditya Dubey** has served as a reviewer for the journal “Signal, Image, and Video Processing,” Springer Nature.



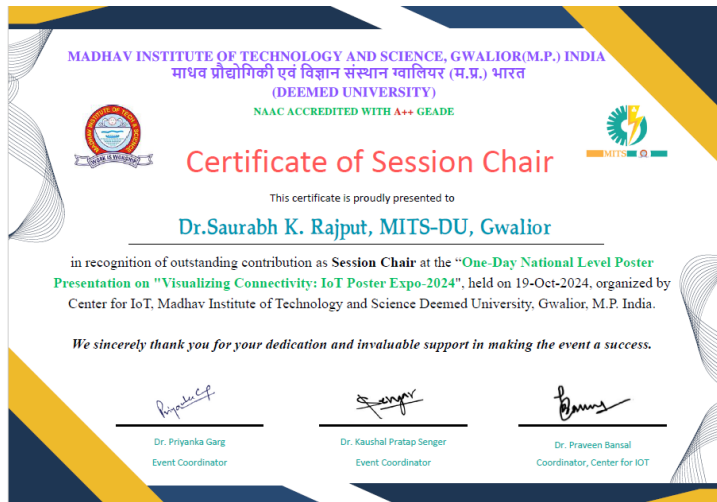


FACULTY Achievements and Awards

- **Dr. Saurabh Kumar Rajput** has served as session chair at 2nd National Level Poster Presentation (Hybrid Mode) on 'VISUALIZING CONNECTIVITY: IoT Poster EXPO-2024 on 19 October 2024, organized by Centre for Internet of Things, Madhav Institute of Technology and Science- Deemed University, Gwalior, MP.
- **Dr. Saurabh Kumar Rajput** received appreciation Letter for subject “Smart Energy Analytics [DE-2 - 220701]”, session July.-December 2024 in 7th sem.

The IoT Insider

Faculty Achievements





FACULTY CERTIFICATES Achievements and Awards

- **Dr. Saurabh Kumar Rajput**, has served as **Session chair** of TS 01 (Computational Intelligence and Machine Learning) of 6th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET 2024), October 26-27, 2024, organized by Madhav Institute of technology and Science- Deemed University Gwalior.
- **Dr. Saurabh Kumar Rajput**, served as a reviewer in the peer review process of manuscripts submitted to "IEEE SILCON 2024," the flagship conference of the IEEE Silchar subsection, held at the National Institute of Technology Agartala, during November 15-17, 2024.





FACULTY CERTIFICATES Achievements and Awards

- **Dr. Murli Manohar**, served as Session chair at the IEEE Sponsored International Conference on Sustainable Power and Energy 2024, organized by Department of Electrical Engineering, O.P. Jindal University, Raigarh, C.G. India, during 28-29 Nov. 2024.
- **Dr. Murli Manohar**, served as Session chair of TS 02 (Advances in intelligent computing, sustainable engineering systems and practices) of 6th International Conference on Sustainable and Innovative Solutions, for Current Challenges in Engineering & Technology (ICSISCET 2024), October 26-27, 2024, organized by Madhav Institute of technology and Science- Deemed University Gwalior.
- **Dr. Murli Manohar**, served as a reviewer in the peer review process of manuscripts submitted to "IEEE SILCON 2024," the flagship conference of the IEEE Silchar subsection, organized at the National Institute of Technology Agartala, during November 15-17, 2024.





FACULTY CERTIFICATES Achievements and Awards

- **Dr. Soumyajit Ghosh** has served as session chair (session-2) at 2nd National Level Poster Presentation (Hybrid Mode) on 'VISUALIZING CONNECTIVITY: IoT Poster EXPO-2024 on 19 October 2024, organized by Centre for Internet of Things, Madhav Institute of Technology and Science- Deemed University, Gwalior, MP.
- **Dr. Soumyajit Ghosh**, served as Session Coordinator of TS 07 (Computational Intelligence and Machine Learning) of 6th International Conference on Sustainable and Innovative Solutions, for Current Challenges in Engineering & Technology (ICSISCET 2024), October 26-27, 2024, organized by Madhav Institute of technology and Science- Deemed University Gwalior.





FACULTY CERTIFICATES Achievements and Awards

- **Dr. Geetam Shukla** has served as session chair (session-2) at 2nd National Level Poster Presentation (Hybrid Mode) on 'VISUALIZING CONNECTIVITY: IoT Poster EXPO-2024 on 19 October 2024, organized by Centre for Internet of Things, Madhav Institute of Technology and Science- Deemed University, Gwalior, MP.
- **Dr. Geetam Shukla**, served as Session Coordinator of TS 07 (Computational Intelligence and Machine Learning) of 6th International Conference on Sustainable and Innovative Solutions, for Current Challenges in Engineering & Technology (ICSISCET 2024), October 26-27, 2024, organized by Madhav Institute of technology and Science- Deemed University Gwalior.

The IoT Insider

Faculty Achievements



FACULTY CERTIFICATES

Achievements and Awards

- **Dr. Soumyajit Ghosh**, served as a track chair of (Track-5:Artificial Intelligence, Data Science and Computing and Track-7:Power System and Smart Grid) in "IEEE SILCON 2024," the flagship conference of the IEEE Silchar subsection, organized at the National Institute of Technology Agartala, during November 15-17, 2024.
- **Dr. Soumyajit Ghosh**, served as a reviewer in the peer review process of manuscripts submitted to "IEEE SILCON 2024," the flagship conference of the IEEE Silchar subsection, organized at the National Institute of Technology Agartala, during November 15-17, 2024.





FACULTY

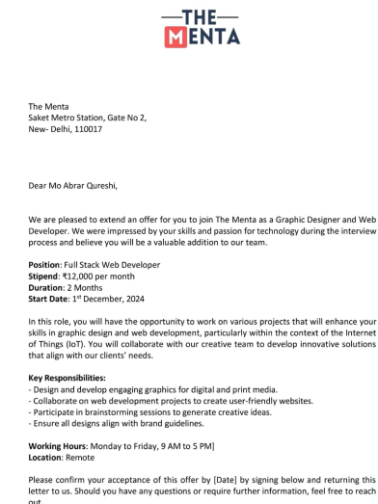
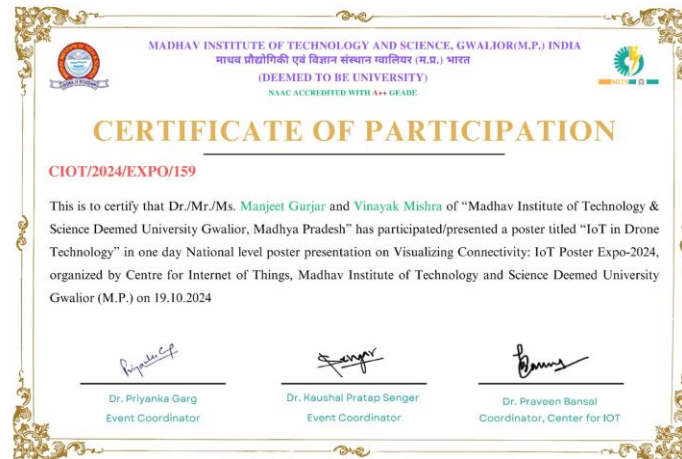
Interaction with Outside World

- **Dr. Soumyajit Ghosh** has served as a reviewer for the journal “IEEE Transactions of Instrumentation and Measurement (TIM), IEEE”.
- **Dr. Soumyajit Ghosh** has served as a reviewer for the journal “Sustainable Energy Grids and Networks (SEGAN), Elsevier.”
- **Dr. Soumyajit Ghosh** delivered an online tutorial for the Faculty Development Programme (FDP) on Data-Driven Electrical Systems and Emerging Energy Technologies. The session, titled “Non-Intrusive Load Monitoring using AI Techniques,” was conducted on December 18, 2024, and organized by the Department of Electrical Engineering, Maulana Azad National Institute of Technology (MANIT), Bhopal.



Students Achievements and Awards

- **Mo Abrar Qureshi**, a 4th semester IoT student (0901IO231034), secured a paid internship at The Menta starting on December 1, 2024.
- **Vinayak Mishra**, 4th semester IoT student (0901EO231075), participated in the 2nd National Level Poster Presentation on IoT at the Poster Expo 2024, focusing on "Visualizing Connectivity," held on October 19, 2024, at Madhav Institutes of Technology and Science, Gwalior.





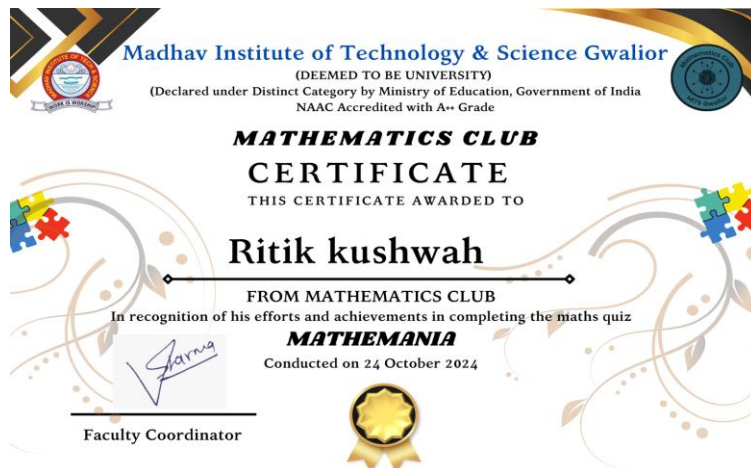
Students Achievements and Awards

- **Ritik Kushwah**, 4th semester IoT student (0901IO231048), took part in the Tulsi Mahotsav Treasure Hunt on October 26, 2024, at MITS.
- **Mohit Tyagi**, a 7th semester student (0901IO211031), participated in the Naukri Campus Young Turk event on October 11, 2024, organized by Naukri.com.



Students Achievements and Awards

- **Ritik Kushwah**, a 3rd semester IoT student (0901IO231048), competed in the Mathematics Club Maths Quiz on October 24, 2024, at MITS.
- **Shrashti Agarwal**, a 3rd semester IoT student (0901EO231063), secured 2nd place in the National Level Poster Presentation on "Visualizing Connectivity: IoT Poster Expo-2024" on October 19, 2024, at Madhav Institute of Technology and Science.





Students Achievements and Awards

- **Ritik Kushwah**, a 3rd semester IoT student (0901IO231048), attended the "Gateway to Success" seminar on October 3, 2024, hosted by the Institute of Engineers Students Chapter and IETE Bhopal Center.
- **Yash Pal**, 1st Semester IoT student (BTIO24O1076), participated in UCL on November 15, 2024, at MITS.





Students Achievements and Awards

- **Nivedita Sharma**, 7th Semester IoT student (0901EO211040), participated in the IoT Poster Presentation on October 19, 2024, at MITS-DU, Gwalior.
- **Satyam Mishra**, a 3rd Semester IoT student (0901IO231058), attended the "Gateway to Success: Insights from Top Rankers" event on October 3, 2024, organized by the IETE Bhopal Center.





Students Achievements and Awards

- **Neetesh Sharma**, a 1st-year Internet of Things (IoT) student (BTIO24O1048), participated in the Cricket Tournament on November 15, 2024, at MITS-DU, UCL.
- **Nitin Sharma**, a 3rd Semester EE-IoT student (0901EO231038), participated in the National Level Poster Presentation on "IoT Poster Expo 2024" on October 19, 2024, at MITS-DU, Gwalior.





Students

- Achievements and Awards

- Aryan Chourey**, a 3rd Semester IoT student (0901EO231012), took part in the Smart India Hackathon on December 12, 2024, organized by the Ministry of Education's Innovation Cell and AICTE at the Nodal Centre - Guru Ghasidas Vishwavidyalaya, Bilaspur.
- Aryan Chourey**, a 3rd Semester IoT student (0901EO231012), also participated in the National Level Poster Presentation on "Visualizing Connectivity" on October 19, 2024, at MITS-DU, Gwalior.

The IoT Insider

Students Achievements



Students Achievements and Awards

- **Parul Sharma**, a 3rd Semester IoT student (0901EO231041), took part in the Smart India Hackathon on December 12, 2024, organized by MoE, AICTE at the Nodal Centre - Guru Ghasidas Vishwavidyalaya, Chhattisgarh.
- **Parul Sharma**, a 3rd Semester IoT student (0901EO231041), also participated in the One-Day National Level Poster Presentation on "Visualizing Connectivity: IoT Poster Expo-2024" on October 19, 2024, at the Center for IoT, MITS-DU, Gwalior, Madhya Pradesh, India.





Students Achievements and Awards

- **Mahak Sharma**, a 5th Semester IoT student (0901EO221039), engaged in an interaction with alumni on December 7, 2024, at MITS-DU, Gwalior.
- **Mahak Sharma**, a 5th Semester IoT student (0901EO221039), participated in the Energy IQ Quiz on December 29, 2024, at MITS-DU, Gwalior.



Students Achievements and Awards

- **Jalaj Sharma**, a 3rd Semester IoT student (0901EO231025), participated in the Tulsi Mahotsav on October 25, 2024, at MITS-DU, Gwalior.
- **Shrashti Agarwal**, a 3rd Semester IoT student (0901EO231063), participated in the Smart India Hackathon 2024 on December 12, 2024, organized by the Government of India.





Students Achievements and Awards

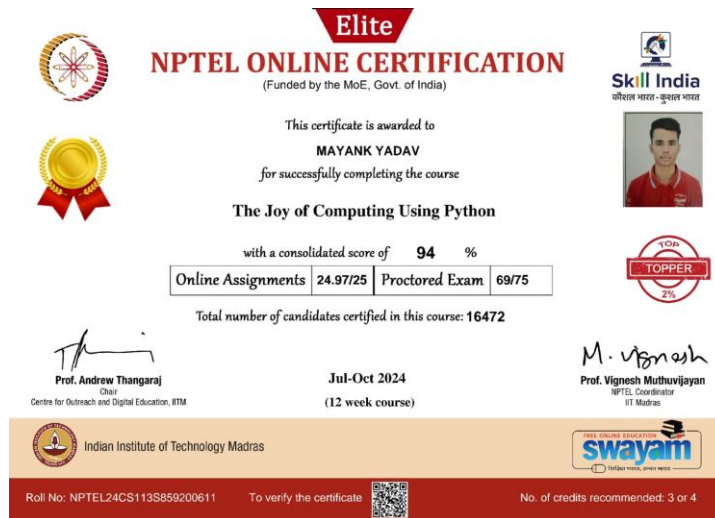
- **Shivani Sharma**, a 6th Semester IoT student (0901IO221066), had her research paper published on December 5, 2024, at MANIT, Bhopal.
- **Nitesh Patidar**, a 4th Semester IoT student (0901IO231036), secured an internship started December 28, 2024, at IIT.





Students Achievements and Awards

- **Mayank Yadav**, 7th Semester IoT student (0901EO211034), took the NPTEL exam on "The Joy of Computing using Python" on November 2, 2024.
- **Ashu Dhakad**, 1st Semester Internet of Things student (BTIO24O1018), participated in the Football Tournament on October 19, 2024, at MITS-DU, Gwalior.





Students Achievements and Awards

- **Ashu Dhakad**, a 1st-year IoT student (BTIO24O1018), engaged in online self-learning through a website on November 30, 2024.
- **Pratima Sahu**, a 3rd Semester IoT student (0901EO231046), participated in the Energy IQ Challenge National Level Quiz Competition on December 29, 2024, at MITS-DUGwalior.



Students Achievements and Awards

- **Pranjal Sharma**, a 3rd Semester IoT student (0901EO231044), competed in the Volleyball Tournament on October 19, 2024, at Madhav Institute of Technology and Science Deemed University, Gwalior.
- **Kauntey Singh Rajawat**, a 3th Semester student (0901EO231027), participated in the Volleyball Tournament on October 19, 2024, at Madhav Institute of Technology Deemed University, Gwalior.





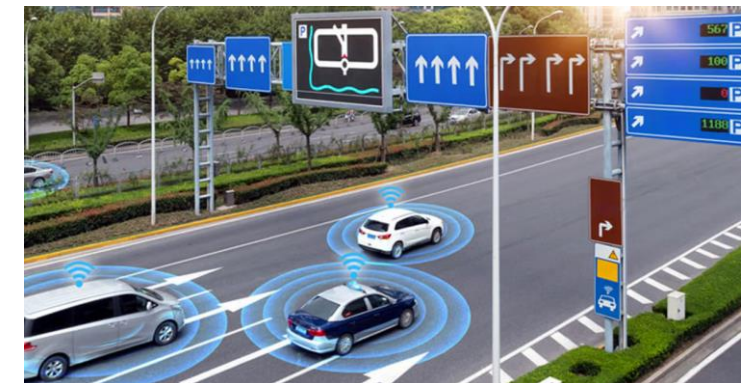
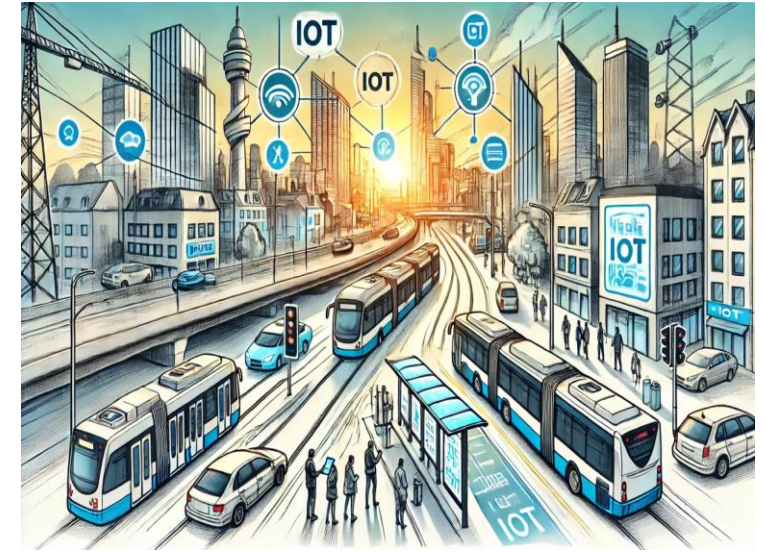
Students Achievements and Awards

- **Satyam Mishra**, a 3rd Semetser IoT student (0901IO231058), completed the "Ethical Hacking: Introduction to Ethical Hacking" course on October 20, 2024, through CompTIA and LinkedIn.
- **Satyam Mishra**, a 3rd Semetser IoT student (0901IO231058), completed the "Ethical Hacking: Web Hacking Introduction" course on November 9, 2024, on Udemy.
- **Yuvraj Singh Chandel**, a 5th Semetser IoT student (0901EO221074), participated in the Football Tournament on October 19, 2024, at MITS DU GWL.



Latest Trends in IoT

The Role of IoT in Public Transportation: The Internet of Things (IoT) is rapidly transforming various industries, and public transportation is no exception. IoT devices and technologies are being integrated into public transportation systems to improve efficiency, enhance the passenger experience, and optimize operations. This article explores the multifaceted role of IoT in revolutionizing public transportation. IoT sensors installed on public transportation vehicles enable real-time tracking of their location and status. This information is transmitted to central control systems, providing dispatchers and passengers with up-to-date information on vehicle arrival times, delays, and rerouting. Real-time tracking improves operational efficiency by reducing passenger wait times and optimizing vehicle schedules. IoT devices can be integrated with passenger information systems to provide real-time updates on bus and train arrivals, departures, and service disruptions. This information can be displayed on digital displays at bus stops and train stations, as well as mobile apps. IoT-enabled passenger information systems improve the passenger experience by reducing uncertainty and providing convenient access to relevant information.





Newsletter Team



Dr. Praveen Bansal
Coordinator
Centre for Internet of Things



Dr. Manjari Pandit
Professor & Dean Academics
Centre for Internet of Things
(Advisor)



Dr. Kaushal Pratap Senger
News Letter Coordinator
Assistant Professor
Centre for Internet of Things



Newsletter Team



Vikas Sharma
Student Coordinator
IoT 4th Year
Centre for Internet of Things



Komal Choubey
Student Coordinator
IoT 4th Year
Centre for Internet of Things