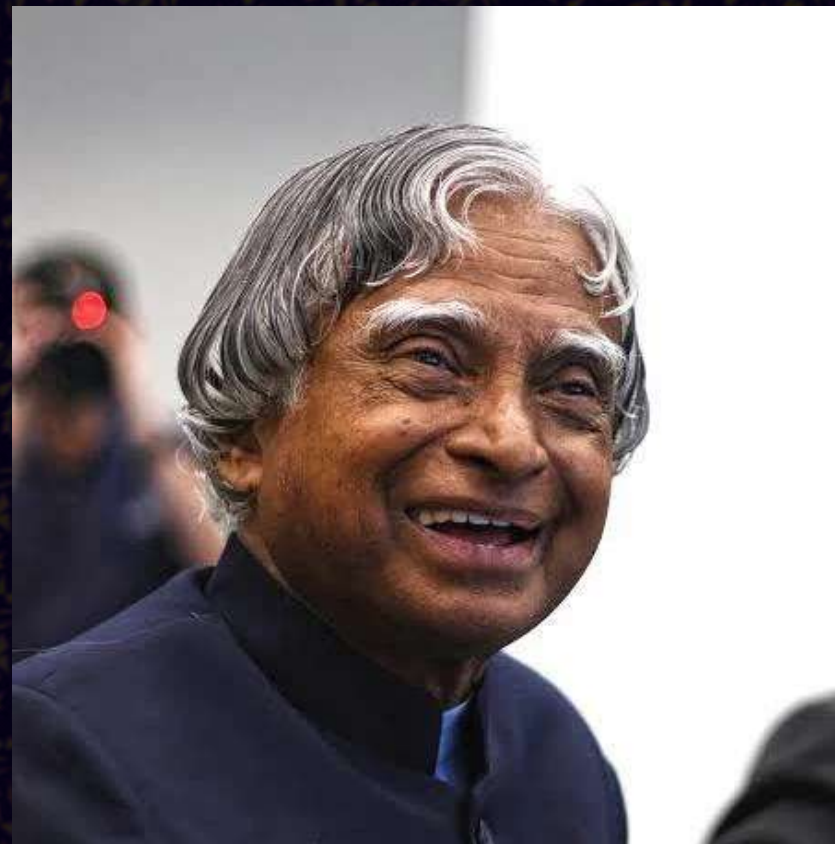


ELEC-TECH TIMES



All of us do not have equal talent. But, all of us have an equal opportunity to develop our talents.

By : Dr. A. P. J. Abdul Kalam



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
Deemed University

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

NAAC Accredited With A++ Grade



The Department of Electrical Engineering established in 1957, boasts a rich history as one of the institution ' s most earliest departments, initially enrolling 40 students. Currently, the department provides a diverse spectrum of educational opportunities, encompassing undergraduate, postgraduate, and doctoral programs in various Electrical Engineering disciplines. As of now, the B.Tech. program has a total capacity of 120 students, while the M.E. program in "Industrial Systems & Drives " accepts 25 students. Notably, in 2020, the department introduced a novel B.Tech. program focused on "Internet of Things, " accommodating up to 60 students.

The department' s primary areas of emphasis include Power Systems, Power Electronics, Control Systems, and Biomedical Instrumentation. To foster high-quality research, the department offers M.E. and Ph.D. programs, nurturing a culture of excellence in academic exploration. Equipped with cutting-edge laboratories, our department is dedicated to providing hands-on experiences that strengthen students ' practical skills and actively support groundbreaking research initiatives.

Our department' s mission is to prepare students for challenging roles in a wide array of industries and encourage engagement in research and development endeavors aimed at advancing society. To stay abreast of rapid technological advancements, our course syllabi are continually updated, and our laboratories are modernized. Our course offerings cater to a broad spectrum of learning needs, spanning from foundational knowledge to advanced expertise. Furthermore, the department offers a wide range of elective courses to cover contemporary technological trends and developments.

VISION

- To create world class quality Engineers and Technocrats capable of providing leadership in all spheres of life and society

MISSION

- To provide quality education in technical and allied disciplines.
- To organize and arrange innovative courses in Engineering and Technology.
- To arrange vocational courses in the upcoming fields and innovative subjects to meet global advancement.
- To promote research in the fields of Technology and Science.

PUBLICATIONS

EED, MITS Gwalior, publications in renowned journals and conferences. Details of these are as follows:

1. **Vandana Sharma and Geetam Shukla**, Square Microstrip Patch Antenna Design for IoT Systems Operating in the C Band, pp.417-422,2025, IEEE Conference on Smart Innovations in Systems. Infrastructure, Mechanical , Power, AI and Computing Technologies (SISIMPACT). DOI:[10.1109/SISIMPACT67725.2025.11439623](https://doi.org/10.1109/SISIMPACT67725.2025.11439623)
2. **Geetam Shukla, Akash Kumar Shukla, K.N. Shukla, Shishir Dixit**, Synergizing artificial intelligence and battery energy storage systems for a sustainable clean energy transition, Journal of Energy Storage, Volume 149, 2026, 120343, ISSN 2352-152X, <https://doi.org/10.1016/j.est.2026.120343>. [SCIE]
3. **Singh, Abhishek Pratap, Yogendra Kumar, and Yashwant Sawle**. "Electric vehicle charging system power flow control using artificial gorilla troops optimized neural network." *Journal of Energy Storage* 152 (2026): 120742.

ACTIVITIES ORGANIZED

(WORKSHOP/CONFERENCE/FDP/STC/WEBINAR) at INSTITUTE LEVEL

1. 4th International Student Conference on Multidisciplinary and Current Technical Research (ISCMCTR-2026), March 26-27 2026
2. Organized a **Distinguished Lecturer Program (DLP)** delivered by **Kalyan K. Sen, President & CTO of Sen Engineering Solutions, USA**. The lecture was conducted by the Department of Electrical Engineering under the aegis of the IEEE Power & Energy Society Madhya Pradesh Chapter on 14 March 2026 at Conclave Hall, Madhav Institute of Technology & Science, Gwalior.
3. Organized event on “Urja” “Igniting Innovation: A Celebration of Renewable Energy and Creativity” by the Department of Electrical Engineering in collaboration with IEEE Power & Energy Society (PES) MP Chapter.

Achievement

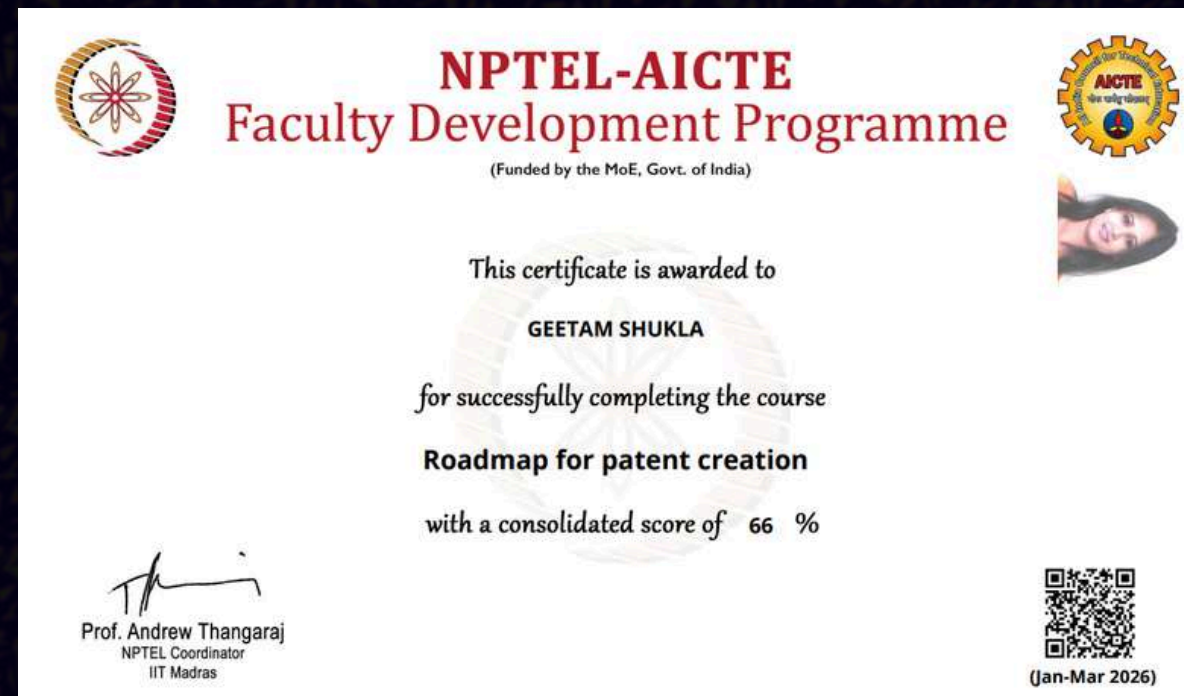
- ➔ **Dr. Yashwant Sawle** was recognized in different categories on the occasion of MITS Foundation Day (March 10, 2026) by Madhav Institute of Technology & Science (MITS-DU), Gwalior.
- Recognition among the Top 2% Scientists Globally (Stanford University & Elsevier, 2025)
 - Being among the Top Researchers of MITS – Deemed University, Gwalior
 - Administrative Support in Research and Collaborative Academic Activities (Monetary Award)
 - Contribution towards organizing the IEEE Conference (iCONECCT-2025)
- ➔ **Proceedings of iCONECCT-2025, held during Dec 26–28, 2025 at MITS Gwalior, in collaboration with NIT Uttarakhand and technically are now available online on the IEEE Xplore portal.**

Link :<https://ieeexplore.ieee.org/xpl/conhome/11467132/proceeding>

Achievement

- ➔ **Dr. Vishal Chaudhary** was recognized in a special award constituted by the Executive Council on the occasion of MITS Day (March 10, 2026) by Madhav Institute of Technology & Science (MITS-DU), Gwalior.
- ➔ **Dr. Geetam Shukla** was recognized in NPTEL Topper on the occasion of MITS Foundation Day (March 10, 2026) by Madhav Institute of Technology & Science (MITS-DU), Gwalior.
- ➔ **Dr. Geetam Shukla** was recognized in NPTEL ENTHUSIASTIC 2026 Award by IIT Kanpur.

FACULTY & STAFF WORKSHOP/WEBINAR/FDP ATTENDED



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

This certificate is awarded to
GEETAM SHUKLA
for successfully completing the course
Roadmap for patent creation
with a consolidated score of **66 %**

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jan-Mar 2026)



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

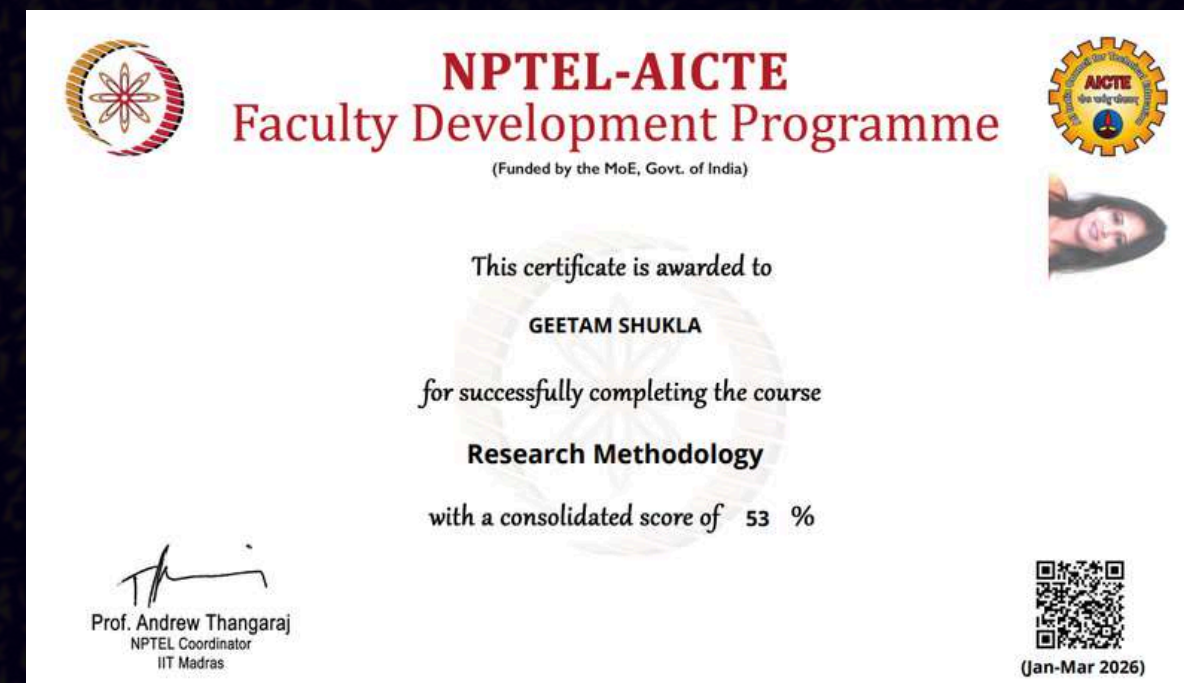
This certificate is awarded to
GEETAM SHUKLA
for successfully completing the course
Roadmap for Patent Creation
with a consolidated score of **66 %**

Online Assignments	21.25/25	Proctored Exam	45/75
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Total number of candidates certified in this course: **1518**

Jan-Mar 2026
(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



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

This certificate is awarded to
GEETAM SHUKLA
for successfully completing the course
Research Methodology
with a consolidated score of **53 %**

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jan-Mar 2026)



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

This certificate is awarded to
GEETAM SHUKLA
for successfully completing the course
Research Methodology
with a consolidated score of **53 %**

Online Assignments	22.13/25	Proctored Exam	30.62/75
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Total number of candidates certified in this course: **6713**

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

Jan-Mar 2026
(8 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

Student Participations & Achievements

FOURTH YEAR:

- **Aditya Singh Tomar**, a final-year Electrical Engineering student, is currently gaining valuable industry exposure through his internship at CG Power and Industrial Solutions, Mandideep, Bhopal (since November 2025). His journey has been marked by hands-on learning in manufacturing processes, electrical equipment, and real-time industrial operations. Beyond technical exposure, he has actively contributed to Lean Projects aimed at enhancing efficiency and minimizing waste. A standout experience during his internship was his participation in the Shingijutsu Global Consulting Kaizen Workshop, where he explored the principles of continuous improvement and teamwork on the shop floor. This enriching experience reflects his dedication to bridging the gap between academic knowledge and practical implementation.



Student Participations & Achievements

FOURTH YEAR:

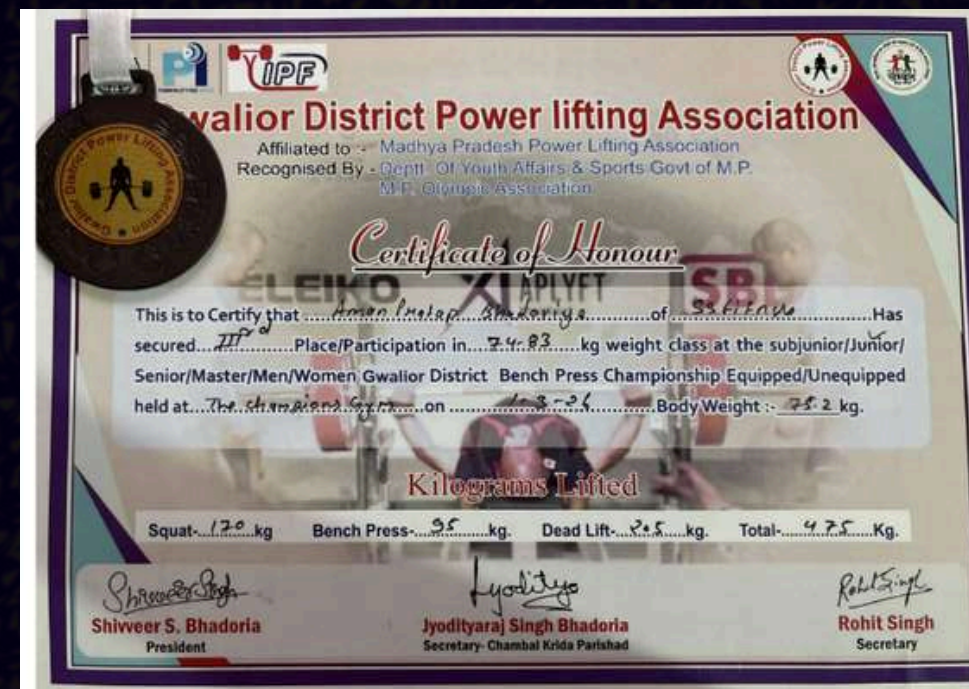
- **Khushi Khandelwal**, a final-year Electrical Engineering student, is currently pursuing her internship at CG Power and Industrial Solutions since 3rd November 2025. Through this internship, she is gaining practical exposure to industrial processes and real-world applications in the electrical engineering domain. This experience is helping her enhance her technical knowledge, develop professional skills, and gain a deeper understanding of industry operations.
- **Shivam Upadhyay**, a final-year Electrical Engineering student at Madhav Institute of Technology and Science, has actively participated in both technical and cultural events. He secured 2nd place in Tech Fiesta after competing in three coding rounds. He also participated in the Neeti Summit, organized by the Speakers Club, showcasing his communication and involvement skills. His achievements reflect a strong balance of technical and extracurricular activities.



Student Participations & Achievements

THIRD YEAR:

- **Aman Pratap Singh Bhadoriya**, a third-year Electrical Engineering student at Madhav Institute of Technology and Science, has showcased outstanding performance in sports. He secured **1st place** in a deadlift competition at MITS by lifting 215 kg, and later achieved **3rd position** in a district-level powerlifting competition. He also participated in the Amity Bhago India Marathon in Gwalior, completing a 10 km run in 55 minutes. His achievements reflect strength, endurance, and dedication towards fitness.



Student Participations & Achievements

THIRD YEAR:

- **Nipun Sharma**, a third-year Electrical Engineering student at Madhav Institute of Technology and Science, actively participated in the Google Cloud Study Jams, organized by Google Developer Student Clubs. During this program, he engaged in hands-on cloud labs and explored various Google Cloud tools and services. He secured a position among the Top 50 participants, reflecting his dedication and strong interest in cloud technologies.
- **Prajawal Khare**, a third-year Electrical Engineering student at Madhav Institute of Technology and Science, showcased excellent performance in sports by securing 1st position and winning a gold medal in the 800-meter race at the institute's athletic meet. His achievement highlights his dedication, speed, and competitive spirit.



Student Participations & Achievements

THIRD YEAR:

- **Radhika Yadav**, a third-year Electrical Engineering student at Madhav Institute of Technology and Science, was honored with the Meritocracy Award for Excellence in NCC on MITS Day (10 March 2026). She earned this recognition for winning a Bronze Medal in firing at the All India Nau Sainik Camp, conducted under National Cadet Corps at INS Shivaji, Lonavala. Her achievement reflects discipline, precision, and dedication.



Student Participations & Achievements

SECOND YEAR:

- **Harshvardhan Singh Bhadoria**, a second-year Electrical Engineering student at Madhav Institute of Technology and Science, participated in a technical seminar on VLSI Industry Insights. The session provided valuable exposure to industry trends, career opportunities, and practical aspects of VLSI design and electronics. This experience helped him broaden his understanding of emerging technologies in the electronics domain.
- **Prapti Kushwah**, a second-year Electrical Engineering student at Madhav Institute of Technology and Science, participated in Urja, a documentary and poster-making competition held on 15 March 2026. Through this event, she showcased her creativity and awareness on relevant themes, earning a certificate of participation.



Student Participations & Achievements

SECOND YEAR:

- **Priyanshi Shinde**, a second-year Electrical Engineering student at Madhav Institute of Technology and Science, actively contributed to URJA 2026, a documentary and poster presentation competition focused on energy conservation. As a member of the organising team, she played an important role in the successful execution of the event and was awarded a certificate of appreciation for her efforts. In addition, she participated in GitXplore, a workshop on GitHub, where she gained practical exposure to version control systems and enhanced her technical skill set. Her involvement reflects enthusiasm for both technical learning and event management.



Student Participations & Achievements

SECOND YEAR:

- **Shreya Singh**, a second-year Electrical Engineering student at Madhav Institute of Technology and Science, has demonstrated exceptional involvement in both technical and cultural domains. She emerged as a Finalist among 2100+ teams at HACKSAGON 2026, a national-level hackathon organized by ABV-IITM IEEE Student Branch at ABV IITM Gwalior. She also contributed as an organising team member in URJA 2026, a national-level renewable energy seminar. In the cultural domain, she secured 1st position in Aksharmita 2026, an on-the-spot essay writing competition. Additionally, she played a key role in organizing Aarunya 2026, actively contributing to content creation, stage management, discipline, graphic design, and club activities. Her achievements reflect a strong blend of technical excellence, creativity, and leadership.



Student Participations & Achievements

FIRST YEAR:

- **Anushka Tomar**, a first-year Electrical Engineering student at Madhav Institute of Technology and Science, actively participated in workshops focused on career guidance and skill development. Through these sessions, she gained valuable insights into career opportunities and enhanced her overall awareness and learning. Her participation reflects a proactive approach towards personal and professional growth.
- **Devam Singh**, a first-year Electrical Engineering student at Madhav Institute of Technology and Science, attended an expert session conducted by Piyush Sharma, focusing on current technology trends and industry insights. The session also included an interactive quiz, enhancing students' engagement and learning. This experience helped him gain awareness of the evolving tech landscape and its practical implications.



Student Participations & Achievements

FIRST YEAR:

- **Himanshu Baghel**, a first-year Electrical Engineering student at Madhav Institute of Technology and Science, actively participated in both sports and technical events. He took part in the college football competition (14–22 March 2026), where he earned a medal and certificate. He also participated in a coding competition (Codathon) in February, receiving a certificate. His involvement reflects a balance of sportsmanship and technical interest.
- **Himanshu Pippal**, a first-year Electrical Engineering student at Madhav Institute of Technology and Science, showcased his creativity by participating in Designathon, a poster design competition held on 29 March 2026. He was awarded a medal and certificate for his performance, highlighting his design skills and innovative thinking.



Student Participations & Achievements

FIRST YEAR:

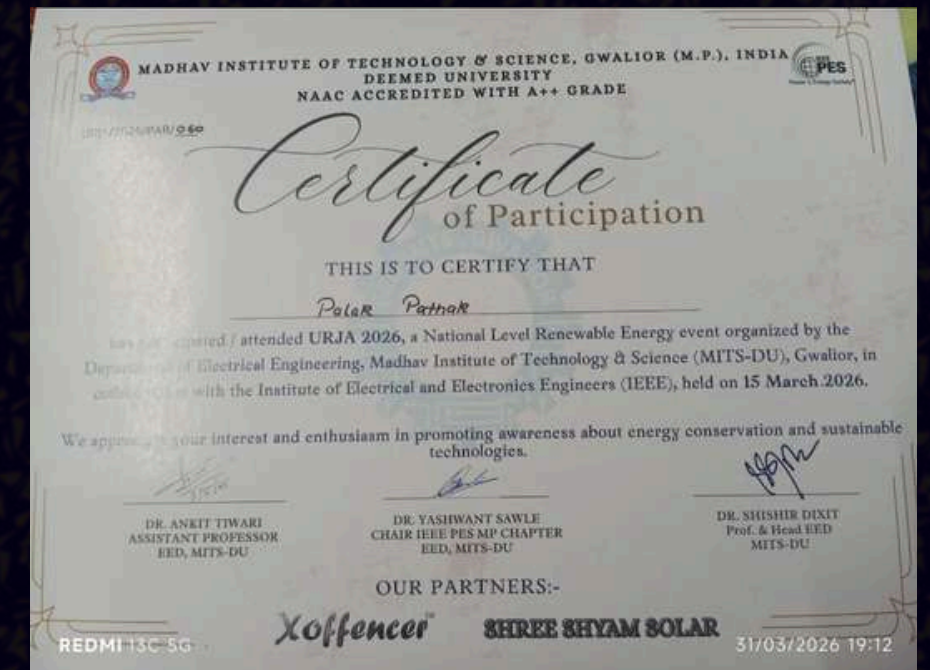
- Nishant Kumar Vishwakarma**, a first-year Electrical Engineering student at Madhav Institute of Technology and Science, participated in the ESP32 Core – Hands-On Embedded IoT Workshop organized by the IEI Students' Chapter in collaboration with IETE. During the workshop, he gained practical experience in IoT development and built a smart light system controlled via voice assistant using ESP32. This experience enhanced his understanding of real-world embedded systems and smart technologies.
- Nitin Parmar**, a first-year Electrical Engineering student at Madhav Institute of Technology and Science, has actively participated in various cultural and technical events. He achieved 1st position at a national-level competition held at ABV IITM Gwalior and secured 2nd position at the international dance festival Udbhav Utsav. He has also been involved in events such as IEEE activities and Aarunya, reflecting his talent, enthusiasm, and active participation in extracurricular domain



Student Participations & Achievements

FIRST YEAR:

- **Palak Pathak**, a first-year Electrical Engineering student at Madhav Institute of Technology and Science, participated in URJA 2026, a national-level event focused on renewable energy. The competition involved presenting technical posters or documentaries on energy-related topics. Through this event, she gained valuable insights into sustainable energy concepts and received a participation certificate.
- **Vaishnavi Dubey**, a first-year Electrical Engineering student at Madhav Institute of Technology and Science, actively participated in cultural events, showcasing her talent in dance. She performed multiple dance styles at Aarunya and also took part in the Mindhive event. Her participation reflects creativity, enthusiasm, and active involvement in extracurricular activities.



Student Participations & Achievements

FIRST YEAR:

- **Shivam Jaiswal**, a first-year Electrical Engineering student at Madhav Institute of Technology and Science, actively participated in various technical and cultural activities, including IEEE events and Patang Utsav. Through these experiences, he gained exposure to technical domains and enhanced his overall involvement in extracurricular activities.



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