



Maharana Pratap Institute of Technology

Approved by AICTE New Delhi, and affiliated to Dr. A.P.J. Abdul Kalam Technical University Lucknow
Lachhipur, Sonauli Road, Gorakhnath, Gorakhpur, UP-273015

www.mpit.ac.in

Email: directormpit@gmail.com

Ph.: 0551-3505501, 3525530

State-of-the Art Center of Excellence at MPIT Gorakhpur

Maharana Pratap Institute of Technology is working expeditiously to a state of the art Centre of Excellence at par with international standards. The overall objectives of establishing Centre of Excellence (COEs) reflects the institution's commitment to providing the students of Purvanchal with a holistic and cutting-edge education that prepares them for the demands of the modern technological landscape in the era of Industry 4.0

Coming Up with following four COEs, MPIT is committed to become a role model in technical education:

- Centre of Excellence in Drone Technology & 3D Printing (Additive Manufacturing)
- Centre of Excellence in Artificial Intelligence
- Centre of Excellence in Space Technology
- Centre of Excellence for Cyber Security

Objectives of the COE

The overall objectives of establishing Centre of Excellence (COEs) reflects the institution's commitment to providing the students of Purvanchal with a holistic and cutting-edge education that prepares them for the demands of the modern technological landscape in the era of Industry 4.0

- to equip students with **hands-on experience** and practical skills in emerging technologies
- By **offering access to state-of-the-art equipment, software, and simulation tools**, the COEs will enable students to gain practical insights into the design, development, and operation of cutting-edge technologies.
- **Interdisciplinary research** projects and initiatives will drive forward the frontiers of knowledge, leading to breakthroughs in areas such as autonomous systems, data analytics, satellite communication, and cybersecurity strategies.
- Provide a **platform for idea incubation, setting up start-ups** and IPR.
- serve as a platform for **collaboration and partnership between MPIT and academic institutions** of the regions as well as institutions of national importance like IIT Kanpur, IIM Lucknow, industry stakeholders, and government agencies
- Through **joint research projects, internships, and industry-academic initiatives**, students will have opportunities to engage with real-world challenges and industry-relevant projects.
- **Placement Support, Industry Visits and Internships**, making students industry ready.



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A brief description of the four COEs:

1) Centre of Excellence in Drone Technology & 3D Printing (Additive Manufacturing)

- State-of-the-art Labs: Advanced Drone Lab & 3D Printer Setup
- Hands-on Experience: Drone Design, Manufacturing, and Flight Training
- Industry-based Courses: Certification in Additive Manufacturing
- Startup Support: Project-based Learning & Innovation Encouragement



COE in Drone Technology & 3D

2) Centre of Excellence in Artificial Intelligence

- Machine Learning & Deep Learning Lab
- AI-based Projects & Industry Collaboration
- Certification Courses & Minor Programs
- Robotics & Data Analytics Training



COE in Artificial Intelligence

3) Centre of Excellence in Space Technology

- Satellite Communication & Remote Sensing Lab
- Innovative Projects in Space Technology
- Space Mission Design & Simulation Training
- Collaboration with ISRO & Other Institutions



COE in Space Technology

4) Centre of Excellence for Cyber Security

- Ethical Hacking & Network Security Lab
- Cyber Attack Prevention & Digital Forensics Training
- Cyber Law & Data Protection Certification Courses
- Cybersecurity Solutions for Government & Private Organizations



COE for Cyber Security