Professional Certification Programs

In an era driven by rapid technological advancements and global competition, engineering graduates must possess not only strong academic foundations but also industry-recognized professional skills. To meet this need, the institution offers a comprehensive portfolio of Professional Certification Programs that empower students with future-ready competencies and globally relevant credentials. These programs are designed to complement the core curriculum by providing hands-on training, exposure to emerging technologies, and certification from reputed industry partners and professional bodies. The initiative reflects our commitment to producing industry-ready engineers, innovative thinkers, and responsible professionals.

Key Highlights

- Industry-aligned and outcome-driven certification tracks.
- Integration with academic curriculum as Value Added and Skill Enhancement Courses.
- Credit-based certifications in line with NEP 2020.
- Training by industry experts and certified professionals.
- Hands-on laboratories, real-time projects, and internships.
- Global certifications with digital credentials.

Certification Domains

Emerging Technologies & IT

- Artificial Intelligence and Machine Learning.
- Data Science and Big Data Analytics.
- Cloud Computing (AWS, Azure, Google Cloud).
- Cyber Security and Ethical Hacking.
- Internet of Things (IoT).
- Blockchain Technology.
- Full Stack Development.
- DevOps and MLOps.

Mechanical Engineering

- CAD/CAM and Product Design (AutoCAD, SolidWorks, CATIA, ANSYS).
- Finite Element Analysis and Computational Fluid Dynamics.
- Robotics and Automation.
- Industry 4.0 and Smart Manufacturing.
- Additive Manufacturing.

Electrical & Electronics Engineering

- PLC and SCADA.
- Industrial Automation.
- Electric Vehicle Technology.
- Renewable Energy Systems.

- VLSI and Robotics

Civil Engineering

- Structural Design and Analysis (ETABS, STAAD Pro, Auto CAD, ANSYS).
- Building Information Modelling (BIM).
- Construction Planning and Project Management.

Industry Partnerships:

- Collaboration with leading technology providers and professional organizations such as Microsoft, IBM, Google, Amazon Web Services, Siemens, Bosch, Volvo, Dassault Systèmes, Cisco, Red Hat, Oracle, SAP, NASSCOM, NSDC, ICT Academy, and AICTE ATAL Academy.
- Ensure continuous curriculum upgradation and alignment with evolving industry needs.

Learning Approach

- Outcome-Based Learning approach.
- Blended learning through online and hands-on training.
- Expert-led workshops and boot camps.
- Industry case studies and live projects.
- Hackathons and innovation challenges.
- Internship-integrated certification pathways.

Student Outcomes

- Enhanced employability and placement opportunities.
- Global recognition of professional credentials.
- Strong foundation for higher education and research.
- Entrepreneurial and innovation readiness with start-ups.
- Lifelong learning mind-set.