



I.T.S Engineering College, Greater Noida

Department of Computer Science and Engineering & Allied Branches

AWS Academy Centre of Excellence (CoE)

Empowering Future-Ready Professionals in Cloud Computing

1. Objective of the Centre

The AWS Academy Centre of Excellence at I.T.S Engineering College aims to bridge the gap between academic learning and industry-demanded cloud computing skills. The Centre provides students of Department of CSE and Allied Branches with hands-on experience in Amazon Web Services (AWS) technologies, preparing them for global certifications, internships, and cloud-based job roles. Key objectives include:

- Enabling students to design, deploy, and manage applications on the AWS Cloud.
- Fostering innovation through project-based learning and cloud labs.
- Enhancing employability by aligning training with industry standards.
- Encouraging students to achieve AWS certifications for better global recognition.

2. Courses and Training Offered

The AWS Academy CoE offers structured training programs mapped to AWS's official curriculum:

Course Name	Duration	Level	Key Focus Areas
AWS Academy Cloud Foundations	6-8 Weeks	Beginner	Basics of Cloud Computing, AWS Global Infrastructure, Security, Pricing
AWS Academy Cloud Architecting	10–12 Weeks	Intermediate	Designing scalable, cost-efficient, and reliable cloud architectures
AWS Academy Cloud	8-10	Advanced	Application development, AWS SDKs,





Course Name	Duration	Level	Key Focus Areas
Developing	Weeks		APIs, Lambda, and Automation
Workshops / Hackathons	Periodic	All Levels	Real-world project design, teamwork, and innovation challenges

3. Eligibility and Pre-requisites

• **Eligibility:** Open to all B.Tech (CSE/CSE-DS/CSE-AIML) students and faculty members interested in cloud computing.

• Pre-requisites:

- Basic understanding of Networking, Databases, and Operating Systems.
- o Familiarity with at least one programming language (Python/Java).
- o Keen interest in cloud technologies and application deployment.

4. Course Timelines and Roadmap

The AWS Academy courses are integrated into the academic calendar and are designed to build skills progressively:

Year / Semester	Focus Area	Outcome	
2nd Year	Introduction to Cloud Concepts (AWS Cloud Foundations)	Understand basic cloud principles and AWS ecosystem	

5. Certifications Offered

Students completing the AWS Academy courses are eligible for globally recognized AWS certifications:

Certification	Issuing Body	Tentative Cost (approx.)	
AWS Certified Cloud Practitioner	Amazon Web Services (AWS)	₹7,000–₹8,500 Global	





Certification	Issuing Body	Tentative Cost (approx.)	Recognition
AWS Certified Solutions Architect – Associate	Amazon Web Services (AWS)	₹11,000- ₹12,000	Global
AWS Certified Developer – Associate	Amazon Web Services (AWS)	₹11,000- ₹12,000	Global
AWS Cloud Technical Essentials	AWS + Coursera	₹3,000–₹8,000	High
AWS Cloud Architect Master's Program	Simplilearn (Authorized AWS Training Partner)	₹45,000- ₹60,000	Professional
AWS Certified Cloud Practitioner (Foundation Course)	ICT Academy (in collaboration with AWS Academy)	₹3,000-₹5,000	Institutional
AWS Cloud Practitioner Essentials	Edureka / Udemy	₹499–₹3,000	Popular
AWS Cloud Developer Nanodegree	AWS + Udacity	₹50,000- ₹70,000	Global
AWS Cloud and DevOps Fundamentals	FutureSkills Prime (NASSCOM Initiative)	₹5,000- ₹10,000	Government & Industry Recognized
AWS Cloud Professional Track	A Cloud Guru / Pluralsight	₹10,000- ₹20,000	Industry Standard

These certifications validate skills in cloud design, deployment, and management, enhancing career prospects in both Indian and global markets.

6. Lab Activities and Guidelines

Lab Activities:

- Hands-on exercises on AWS Cloud Console using Academy credentials.
- Mini projects based on real-world case studies (e.g., web hosting, serverless apps, AI integration).
- Participation in hackathons, coding challenges, and innovation projects.





• Guided certification practice sessions and mock assessments.

Lab Guidelines:

- Students must register with the AWS Academy LMS before accessing lab sessions.
- Practical sessions will be monitored by certified instructors.
- Each student must maintain a project logbook of exercises performed.
- Cloud credits and access keys provided by AWS should be used responsibly.
- Academic integrity and ethical usage of AWS resources are mandatory.

Top Employers: Amazon, Google Cloud, Microsoft, IBM, TCS, Accenture, Wipro, Infosys, Tech Mahindra, Zoho and AWS partners.

Contact Information:

Department: Computer Science & Engineering

Location: AWS Academy Lab, I.T.S Engineering College, Greater Noida