

**Maharaja Surajmal Institute of Technology
C-4, Janak Puri, New Delhi -110058**

Report

On

"Mastering Cloud Computing Essentials with AWS"

Organized by: CSE-2nd Shift **Mode:** ICT Mode **Duration:** 3rd March – 7th March 2025

The Department of Computer Science And Engineering organized one-week Short-Term Course (STC) on "Mastering Cloud Computing Essentials with AWS" from 3rd March to 7th March 2025, with 67 participants, in ICT mode. The FDP/STC was facilitated by the National Institute of Technical Teachers Training and Research (NITTTR) Chandigarh, with MSIT serving as one of the remote centers. This course aimed to provide comprehensive understanding of cloud computing concepts, AWS services, and their practical applications in various domains.





The primary objectives of the STC were:

- To introduce fundamental concepts of cloud computing.
- To familiarize participants with AWS services and their applications.
- To provide hands-on experience with AWS cloud infrastructure.
- To discuss best practices for deploying and managing cloud-based solutions.

To enhance technical knowledge on security, scalability, and cost management in the cloud.

Esteemed speakers Dr. Mala Kalra, Assistant Professor, NITTTR Chandigarh and Mr. Vipin Gupta, CSE, U-Net Solutions, Moga covered following key topics:

- Introduction to Cloud Computing and its Benefits
- AWS Global Infrastructure and Core Services
- Identity and Access Management (IAM)

- Virtual Machines and EC2 Instances
- Cloud Storage Solutions: S3, EBS, and Glacier
- Networking in AWS: VPC, Route 53, and Load Balancing
- Serverless Computing: AWS Lambda and API Gateway
- Database Management with AWS RDS and DynamoDB
- Security Best Practices and Compliance in AWS
- Cost Management and Billing Strategies
- Hands-on Labs and Case Studies

The STC on "Mastering Cloud Computing Essentials with AWS" provided an excellent opportunity for participants to enhance their knowledge and skills in cloud computing. The well-structured curriculum, expert guidance, and practical sessions made the learning experience valuable and impactful. The course successfully achieved its objectives, equipping participants with essential AWS cloud computing knowledge.

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