**PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**
**PANIPAT**
**DEPARTMENT OF CYBER SECURITY**
**LESSON PLAN**

Subject: Cloud Security                               Subject Code: PC-CS-CYS-425A

Semester: 7th

| Sr. No. | Lecture No. | Topics To Be Covered | Mode of Teaching |
|---------|-------------|----------------------|------------------|
| 1 | L 1 | Introduction to AWS Security by Design, | Class Room |
| 2 | L 2 | AWS Key Management Best Practices | Smart Class Room |
| 3 | L 3 | A Deep Dive into AWS Encryption Services | Class Room |
| 4 | L 4 | Security at Scale | Class Room |
| 5 | L 5 | Logging in AWS, AWS | Smart Class Room |
| 6 | L 6 | WAF, AWS Security Incident Response | Class Room |
| 7 | L 7 | Common attacks on cloud infrastructure | Smart Class Room |
| 8 | L 8 | Unauthorized Access,XSS | Class Room |
| 9 | L 9 | SQL Injecton | Class Room |
| 10 | L 10 | Misconfiguration, DOS- DDOS | Class Room |
| 11 | L 11 | Data Loss/Leakage | Class Room |
| 12 | L 12 | Data Privacy/ Confidentiality | Class Room |
| 13 | L 13 | Incident Response | Class Room |
| 14 | L 14 | Counter measure to protect cloud infrastructure | Smart Class Room |
| 15 | L 15 | Data Protection for Cloud Infrastructure and Services | Class Room |
| 16 | L 16 | Understand the cloud based information life cycle | Smart Class Room |
| 17 | L 17 | Data protection for Confidentiality and Integrity | Class Room |
| 18 | L 18 | Data protection laws of India | Smart Class Room |
| 19 | L 19 | Common attack vectors and threats | Class Room |
| 20 | L 20 | Data Protection Strategies. | Class Room |
| 21 | L 21 | Monitoring | Class Room |
| 22 | L 22 | Auditing and Management | Class Room |
| 23 | L 23 | Proactive activity monitoring | Class Room |
| 24 | L 24 | Incident Response | Class Room |
| 25 | L 25 | Monitoring for unauthorized access | Class Room |
| 26 | L 26 | Malicious traffic | Class Room |
| 27 | L 27 | Abuse of system privileges | Class Room |
| 28 | L 28 | Intrusion detection | Class Room |
| 29 | L 29 | Events and alerts | Class Room |