

# TIKA RAM GIRLS COLLEGE SONEPAT

## LESSON PLAN

**NAME OF ASSISTANT PROFESSOR:** MS. ANU

**CLASS AND SECTION:** M.SC 2<sup>ND</sup> YEAR

**SUBJECT:** CLOUD COMPUTING

<b>WEEK 1</b>	<b>DESCRIPTION</b>
05-01-2026	FUNDAMENTALS OF CLOUD COMPUTING
06-01-2026	DEFINITION , HISTORY , EVOLUTION
07-01-2026	OVERVIEW OF CLOUD SERVICE MODELS
08-01-2026	IAAS MODEL
09-01-2026	PAAS MODEL
10-01-2026	SAAS MODEL
<b>WEEK 2</b>	
12-01-2026	DEPLOYMENT MODEL : PRIVATE
13-01-2026	HYBRIFD MODEL , MULTI CLOUD MODEL
14-01-2026	KEY ARCHITECTURAL PRINCIPALS
15-01-2026	PRINCIPALS CONT...
16-01-2026	VIRTUALIZATION , ELASTICITY
17-01-2026	RESOURCE POOLING AND SCALABILITY
<b>WEEK 3</b>	
19-01-2026	REVIEW OF LEADING CLOUD PROVIDERS
20-01-2026	MARKET TRENDS
21-01-2026	CLASS TEST I
22-01-2026	INTRODUCTION TO UNIT II
24-01-2026	CLOUD INFRASTRUCTURE AND VIRTUALIZATION TECHNOLOGIES
<b>WEEK 4</b>	
27-01-2026	VIRTUALIZATION FUNDAMENTALS
28-01-2026	HYPERVERSORS(TYPE -1 AND TYPE -2 ) , VIRTUAL MACHINES

29-01-2026	CONTAINERS (DOCKER,KUBERNETES)
30-01-2026	CLOUD NETWORKING :SDN NETWORKING
31-01-2026	NETWORK VIRTUALIZATION AND LOAD BALANCING
<b>WEEK 5</b>	
02-02-2026	CLOUD STORAGE SOLUTIONS
03-02-2026	DISTRIBUTED STORAGE, OBJECT STORAGE
04-02-2026	CLOUD ORCHESTRATION
05-02-2026	RESOURCE PROVISIONING TOOLS
06-02-2026	CLASS TEST -II
07-02-2026	SERVERLESS COMPUTING , FUNCTION AS SERVICE (FAAS )
<b>WEEK 6</b>	
09-02-2026	INTRODUCTION TO UNIT III
10-02-2026	CLOUD SECURITY , PRIVACY AND GOVERNANCE
11-02-2026	THREATS AND VULNERABILITIES IN CLOUD ENVIRONMENTS
13-02-2026	CLOUD SECURITY FUNDAMENTALS
14-02-2026	ENCRYPTION, IDENTITY AND ACCESS MANAGEMENT
<b>WEEK 7</b>	
16-02-2026	SECURE COMMUNICATION PROTOCOL
17-02-2026	PRIVACY CHALLENGES
18-02-2026	SECURE COMMUNICATION PROTOCOL CONT..
19-02-2026	SECURE COMMUNICATION PROTOCOL..
20-02-2026	DATA PROTECTION TECHNIQUES IN THE CLOUD
21-02-2026	CLASS ACTIVITY
<b>WEEK 8</b>	
23-02-2026	
24-02-2026	LEGAL AND REGULATORY FRAMEWORKS (GDPR,HIPAA,CCPA ETC. )
25-02-2026	GOVERNANCE , COMPLIANCE AND COT MANAGEMENT IN CLOUD ENVIRONMENTS
26-02-2026	GOVERNANCE , COMPLIANCE AND COT MANAGEMENT IN CLOUD ENVIRONMENTS CONT...
27-02-2026	GOVERNANCE CONT....
28-02-2026	CLASS ACTIVITY

<b>WEEK 9</b>	
09-03-26	INTRODUCTION TO UNIT IV
10-03-26	ADVANCED TOPIC AND EMERGING TRENDS IN CLOUD COMPUTING
11-03-26	PERFORMANCE OPTIMIZATION
12-03-26	COST EFFICIENCY IN CLOUD SYSTEMS
13-03-26	PRACTICAL LAB
14-03-26	PRACTICAL LAB
<b>WEEK 10</b>	
16-03-26	BIG DATA AND ANALYTICS IN CLOUD
17-03-26	BIG DATA AND ANALYTICS IN CLOUD CONT..
18-03-26	BIG DATA CONT...
19-03-26	BIG DATA CONT....
20-03-26	PRACTICAL LAB
21-03-26	PRACTICAL LAB
<b>WEEK 11</b>	
24-03-26	EDGE COMPUTING
25-03-26	EDGE COMPUTING CONT...
27-03-26	CLOUD NATIVE ARCHITECTURES
28-03-26	PRACTICAL LAB
<b>WEEK 12</b>	
30-03-26	IOT INTEGRATION WITH CLOUD PLATFORMS
31-03-26	IOT INTEGRATION CONT..
01-04-26	CLASS TEST III
02-04-26	CASE STUDIES
03-04-26	PRACTICAL LAB
04-04-26	PRACTICAL LAB
<b>WEEK 13</b>	
06-04-26	SERVERLESS COMPUTING
07-04-26	SERVERLESS COMPUTING CONT..
08-04-26	FUTURE TRENDS
09-04-26	PRACTICAL LAB
10-04-26	PRACTICAL LAB

11-04-26	
<b>WEEK 14</b>	
13-04-26	CASE STUDIES ON DEPLOYING CLOUD BASED APPLICATIONS
15-04-26	CASE STUDIES CONT..
16-04-26	MULTI CLOUD MANAGEMENT
17-04-26	PRACTICAL LAB
18-04-26	PRACTICAL LAB
<b>WEEK 15</b>	
20-04-26	MULTI CLOUD MANAGEMENT CONT...
21-04-26	HYBRID CLOUD STRATEGIES
22-04-26	HYBRID CLOUD STRATEGIES CONT..
23-04-26	EMRGING RESEARCH DIRECTIONS
24-04-26	PRACTICAL LAB
25-04-26	PRACTICAL LAB
<b>WEEK 16</b>	
27-04-26	QUANTAM CLOUD COMPUTING
28-04-26	QUANTUM CLOUD COMPUTING CONT..
29-04-26	CLASS TEST - IV
30-04-26	REVISION
01-05-26	PRACTICAL LAB
02-05-26	PRACTICAL LAB
<b>WEEK 17</b>	
04-05-26	REVISION
05-05-26	REVISION
06-05-26	REVISION