

2021-odd



G.Pullaiah College of Engineering and Technology

(Autonomous)

(Approved by AICTE, New Delhi | NAAC Accreditation with 'A' Grade |

Accredited by NBA (CSE, ECE & EEE) | Affiliated to JNTUA)

Nandikotkur Road, Venkayapalli (V), Kurnool - 518452, Andhra Pradesh

DATE: 28-09-2021

To

The Principal, GPCET,
Kurnool.

Sir,

Sub: Approval of ADD-ON course for II CAI Students-Regd

The department of CAI requests you to accept the proposal for conducting ADD-ON Course on "Amazon Web Services" for the odd semester of II year CAI students scheduled for the duration of 42 hours. Kindly accept the proposal.

Thanking you sir,

Yours Sincerely

P. SUMAN PRAKASH

HOD-CAI

PRINCIPAL

G.Pullaiah College of Engg & Tech.
Nandikotkur Road, VENKAYAPALLI
KURNOOL-518 452 (A.P)



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Nandikotkur Road, Venkayapalli (V), Kurnool - 518452, Andhra Pradesh

Department Circular –ADD-ON Course

DATE: 28-09-2021

The II year-I semester CAI Students are informed to enroll their names for ADD-ON Course on “Amazon Web Services” with their respective class-in-charges on or before 29-09-2021. The course commences from 29 October and the duration of the course is for 42 hours. The course is conducted from 4 pm to 5 pm regularly.

Bus facility is made available soon after the class work.

Yours Sincerely


HOD-CAI

G.Pullaiah College of Engineering and Technology
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SYLLABUS FOR ADD-ON COURSE ON AMAZON WEB SERVICES

| DAY | TOPICS |
|-----|---|
| 1 | Cloud Concepts Overview |
| 2 | Introduction to Cloud Computing |
| 3 | Advantages of Cloud Computing |
| 4 | Introduction to AWS |
| 5 | Moving to the AWS Cloud |
| 6 | Knowledge Check and Assignment |
| 7 | Cloud Economics and Billing |
| 8 | Fundamentals of Pricing and Total Cost of Ownership |
| 9 | AWS Global Infrastructure |
| 10 | AWS Services |
| 11 | AWS Organizations, AWS Billing, Technical Support Models |
| 12 | AWS Shared Responsibility Model, AWS IAM |
| 13 | Securing Data, Working to Ensure Compliance |
| 14 | Securing a New AWS Account, Securing Accounts |
| 15 | Networking Basics, Amazon VPC (Virtual Private Cloud) |
| 16 | Security Route 53 and CloudFront |
| 17 | Compute Services Overview, Amazon EC2 (Elastic Compute Cloud) Parts |
| 18 | AWS Elastic Beanstalk |
| 19 | AWS S3 (Simple Storage Service), AWS EFS (Elastic File System) |
| 20 | Amazon RDS, Amazon DynamoDB |
| 21 | Amazon Redshift and Aurora |
| 22 | AWS Well-Architected Framework Design Principles |
| 23 | Security, Reliability |



| | |
|----|--|
| 24 | Elastic Load Balancing |
| 25 | Amazon CloudWatch, Amazon EC2 Auto Scaling |

Suman Patel

G. PULLAIAH COLLAGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF CAI
ADD ON COURSE SCHEDULE
DATE :28/09/2021 **II YEAR**

| COURSE | Faculty | Duration |
|--|------------------|----------|
| Introduction to Cloud Computing, Advantages of Cloud Computing | P. Suman Prakash | 3 hours |
| Moving to the AWS Cloud, Fundamentals of Pricing and Total Cost of Ownership | P. Suman Prakash | 3 hours |
| AWS Organizations, AWS Billing, Technical Support Models, Knowledge Check and Assignment | P. Suman Prakash | 3 hours |
| AWS Global Infrastructure, AWS Services | P. Suman Prakash | 3 hours |
| AWS Shared Responsibility Model, AWS IAM (Identity and Access Management), Securing a New AWS Account, Securing Accounts | P. Suman Prakash | 3 hours |
| Securing Data, Working to Ensure Compliance, Lab: Introduction to AWS IAM, Knowledge Check and Assignment | P. Suman Prakash | 3 hours |
| Networking Basics, Amazon VPC (Virtual Private Cloud), VPC Networking and Security Route 53 and CloudFront | P. Suman Prakash | 3 hours |
| Compute Services Overview, Amazon EC2 (Elastic Compute Cloud) Parts | P. Suman Prakash | 3 hours |
| AWS Lambda, Introduction to AWS Elastic Beanstalk | P. Suman Prakash | 3 hours |
| AWS Elastic Beanstalk | P. Suman Prakash | 3 hours |
| Amazon RDS, Amazon DynamoDB | P. Suman Prakash | 3 hours |
| Amazon Redshift and Aurora | P. Suman Prakash | 3 hours |
| Security, Reliability, Performance Efficiency, Cost Optimization, AWS Trusted Advisor | P. Suman Prakash | 2 hours |
| Elastic Load Balancing | P. Suman Prakash | 2 hours |





G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY: KURNOOL (Autonomous)

Department of Computer Science and Artificial Intelligence

The following is the list of the students who have registered Add on Course on “AWS WEB SERVICES”

II CAI students

| Sno | Rollno | Name |
|-----|------------|--------------------------|
| 1 | 20AT1A3101 | SHAIK MOHAMMAD AFZAL |
| 2 | 20AT1A3102 | SHAIK D M AFZAN AQEEB |
| 3 | 20AT1A3103 | G.AMBIKA |
| 4 | 20AT1A3104 | MOHAMMED AQEEL |
| 5 | 20AT1A3105 | N SAI KIRAN REDDY |
| 6 | 20AT1A3106 | SHAIK MALLIHA ASRA |
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| 9 | 20AT1A3109 | N CHAITANYA SAI CHOWDARY |
| 10 | 20AT1A3110 | U CHAITHANYA BABU |
| 11 | 20AT1A3111 | T CHANDANA LAKSHMI PRIYA |
| 12 | 20AT1A3113 | G.FURQUAN AHMED |
| 13 | 20AT1A3114 | DASARI GANESH |
| 14 | 20AT1A3115 | J GIDDAIAH |
| 15 | 20AT1A3116 | LINGAMSETTY GOPISREE |
| 16 | 20AT1A3117 | G IRFAN BASHA |
| 17 | 20AT1A3118 | N.JASHWANTH KUMAR |
| 18 | 20AT1A3119 | MEEGADA JOSHUA |
| 19 | 20AT1A3120 | V.KARTHIK REDDY |
| 20 | 20AT1A3121 | N.KARTHIKEYA |
| 21 | 20AT1A3122 | UPPALA KAVYA |

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|----|------------|----------------------------|
| 22 | 20AT1A3123 | EDIGA KEDHARI GOUD |
| 23 | 20AT1A3124 | BANDA KUMAR |
| 24 | 20AT1A3125 | KOTTIDINTI LAHARI |
| 25 | 20AT1A3126 | BANDI LALITHA |
| 26 | 20AT1A3127 | LIKHITHA AVVARU |
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| 37 | 20AT1A3138 | PRAVALLIKA DEVI |
| 38 | 20AT1A3139 | K GREESHMA RADHEETHA |
| 39 | 20AT1A3140 | G HARIPRASAD |
| 40 | 20AT1A3141 | DUDEKULA SADHAF |
| 41 | 20AT1A3142 | BUDDIGA LALITH SAI AMRUTH |
| 42 | 20AT1A3143 | A GOKULA SAI BHARGAVA GOUD |
| 43 | 20AT1A3144 | BOYA SAI KEERTHANA |
| 44 | 20AT1A3145 | P SAI KUMAR |
| 45 | 20AT1A3146 | LAKKI REDDY SAI SHIVANI |
| 46 | 20AT1A3147 | SEPURI SAI SOWMYA |
| 47 | 20AT1A3148 | M.SAKETH DATTA |
| 48 | 20AT1A3149 | SHAMEEMUNNISA MOHAMMED |
| 49 | 20AT1A3150 | G.SHANMUKHASAI SREENIVAS |

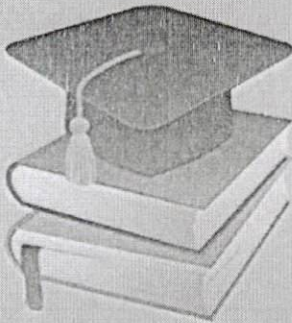
P. Suman Reddy

| | | |
|----|------------|-----------------|
| 50 | 20AT1A3151 | MARUPURI SHARON |
|----|------------|-----------------|



**G. PULLAIAH COLLEGE OF
ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)**

**Department Of Computer Science and Engineering
(Artificial Intelligence)**



ADD ON COURSE

Topic : AWS

Target audience : II Year Students

Total Course Duration : 40 hrs

**Selection Procedure : Registration on First
come First serve basis**

FREE

**Register
Now**

Date of commencement of the course : 29 Oct,2021.

End of Course : 03 Jan, 2022.

Exam Date: 05 Jan,2022.

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Nandikotkur Road, Venkayapalli (V), Kurnool - 518452, Andhra Pradesh

Amazon Web Services Objective exam

1. What is the primary advantage of cloud computing?
 - A. Increased physical security
 - B. Cost reduction
 - C. Limited scalability
 - D. Offline accessibility

2. Which service provides on-demand cloud computing resources?
 - A. AWS Lambda
 - B. AWS EC2
 - C. AWS S3
 - D. AWS RDS

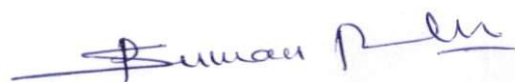
3. What does TCO stand for in the context of AWS economics?
 - A. Total Cloud Ownership
 - B. Technical Cloud Operations
 - C. Total Cost of Ownership
 - D. Technical Cost Oversight

4. In which region is AWS infrastructure physically located?
 - A. Virtual Region
 - B. Global Region
 - C. Local Region
 - D. Availability Zone

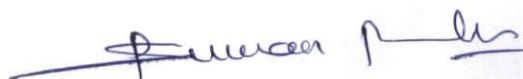
5. What is the purpose of AWS IAM?
 - A. Managing database instances



- B. Securing AWS accounts
 - C. Configuring VPC networks
 - D. Optimizing storage costs
6. What is the function of Amazon VPC in AWS?
- A. Virtual Private Cloud
 - B. Video Processing Center
 - C. Visual Processing Component
 - D. Virtual Private Connection
7. Which AWS service is designed for scalable computing capacity in the cloud?
- A. Amazon RDS
 - B. Amazon EC2
 - C. Amazon S3
 - D. Amazon DynamoDB
8. What type of data storage does AWS S3 provide?
- A. Relational
 - B. Object
 - C. Document
 - D. Graph
9. Which AWS service is specifically designed for managing relational databases?
- A. Amazon RDS
 - B. Amazon DynamoDB
 - C. Amazon S3
 - D. Amazon EC2
10. What principle of the AWS Well-Architected Framework emphasizes avoiding unnecessary complexity?
- A. Security
 - B. Cost Optimization
 - C. Reliability
 - D. Operational Excellence
11. What is the primary purpose of Amazon CloudWatch?
- A. Cloud storage



- B. Database management
 - C. Monitoring and logging
 - D. Identity and access management
12. What is the main goal of Amazon EC2 Auto Scaling?
- A. Increase storage capacity
 - B. Automate the launching and termination of instances
 - C. Optimize database queries
 - D. Monitor network traffic
13. What AWS service is used for content delivery and acceleration?
- A. Amazon CloudWatch
 - B. Amazon CloudFront
 - C. Amazon VPC
 - D. Amazon RDS
14. What is the purpose of Elastic Load Balancing in AWS?
- A. Increase storage capacity
 - B. Distribute incoming application traffic
 - C. Manage relational databases
 - D. Optimize serverless computing
15. What is the primary goal of AWS S3 Glacier in the context of big data?
- A. Real-time data analysis
 - B. Cold storage for archival data
 - C. Object storage for frequently accessed data
 - D. Data visualization
16. Which AWS service is commonly used for serverless computing in machine learning applications?
- A. AWS Lambda
 - B. Amazon EC2
 - C. Amazon RDS
 - D. Amazon S3
17. What does EC2 Cost Optimization involve?
- A. Increasing the number of instances



- B. Reducing unnecessary instance usage
 - C. Maximizing storage costs
 - D. Ignoring resource utilization
18. In what context is AWS Lambda commonly used?
- A. Database management
 - B. Compute services
 - C. Cloud security
 - D. Big data analytics
19. What is the purpose of a Database Management System (DBMS)?
- A. Cost optimization
 - B. Data acquisition
 - C. Efficiently store and retrieve data
 - D. Cloud architecture design
20. What is the AWS Shared Responsibility Model concerned with?
- A. Cost management
 - B. Security responsibilities in the cloud
 - C. Database optimization
 - D. Cloud architecture principles
21. What is the role of AWS Organizations?
- A. Managing EC2 instances
 - B. Billing and pricing optimization
 - C. Container services deployment
 - D. Identity and access management
22. How does AWS assist in understanding the financial implications of using its services?
- A. AWS Organizations
 - B. AWS Billing
 - C. AWS Trusted Advisor
 - D. Technical Support Models
23. Which unit provides an introduction to various AWS services?
- A. Unit 1: Cloud Concepts Overview
 - B. Unit 2: Cloud Economics and Billing



C. Unit 3: AWS Cloud Security

D. Unit 4: Compute, Storage, Databases, Cloud Architecture, Auto Scaling, and Monitoring

24. What is the primary function of Amazon VPC Networking?

A. Distribute incoming application traffic

B. Manage relational databases

C. Establish secure network architectures

D. Optimize serverless computing

25. Which principle of the AWS Well-Architected Framework focuses on maintaining consistent performance regardless of demand?

A. Security

B. Cost Optimization

C. Performance Efficiency

D. Reliability

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Department of Computer Science and Artificial Intelligence

The following is the list of the students who have appeared for assessment Add on Course on
“Amazon Web Services”

Evaluation Sheet
2021 batch students

| Sno | Rollno | Name | Marks |
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