

Approved by All India Council for Technical Education - New Delhi, Affiliated to Anna University, Chennai **NAAC Accredited Institution**

"Nizara Educational Campus", Muthapudupet, Avadi - IAF, Chennai - 600 055. **ANNA UNIVERSITY COUNSELLING CODE: 1101**



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Dated on: 23/02/2022

CIRCULAR

FACULTY MEMBERS AND STUDENTS

We have planned to conduct Value Added course in our department on the topic "CLOUD INFRASTRUCTURE AND SERVICES" from 05/03/2022 to 26/03/2022 therefore, I request all the Faculty members and students to attend the course and make utilization of the course for your future.

Resource Person:

Mr.G.V.CHANDRAKANTH., B.E, M.B.A., LLB(HONS)

CO-FOUNDER,CTO **ICUBE ROBOTICS**

Permitted to organize the above programme.

Soth 22/2/2022

AUM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Prof. Dr. A.S.SALMA BANU

HoD/ECE

SALEGHC



VALUE ADDED COURSE

business, increase your online marketing strategies that are presence, and engage you We specialize in digital designed to grow your target audience.

Trusted Partner for Grown and Branding Trust us to bring your vision to life.

Cloud infrastructure and Services

We provide professional courses from 5th March 2022

Mr. G. V. CHANDRAKANTH., RESOURCE PERSON: B.E., M.B.A., LLB (HONS) CO-FOUNDER, CTO, CUBE ROBOTICS

GET IN TOUCH

AALIM MUHAMMED SAI 9444260079



as.salmabanu@aalimec.ac.in



O Department of ECE

ENGINEERING COLLEGE OF MUHAMMED SALEGH AALIN

PROF. DR. A.S. SALMA BANU HEAD/ECE

Prof. Dr. S. Sathish Principal

Secretary & Correspondent Alhaj. S. Segu Jamaludeen



Approved by All India Council for Technical Education - New Delhi, Affiliated to Anna University, Chennai **NAAC Accredited Institution**

"Nizara Educational Campus", Muthapudupet, Avadi - IAF, Chennai - 600 055.

ANNA UNIVERSITY COUNSELLING CODE: 1101



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

VALUE-ADDED COURSE-SUMMARY REPORT

COURSE NAME: CLOUD INFRASTRUCTURE AND SERVICES

Date: 05/03/2022 to 26/03/2022

Time: Week Days Timing: 4:00 pm to 6:00 pm

Saturday's Timing:

Morning Session: 9.30 am to 12.30 pm Afternoon Session: 1.30 pm & 3:30 pm

No. of Modules: 4 Course Hours: 32

Mode of Conduction: Offline

Speaker: G.V.CHANDRAKANTH

Student Certified: 33

Objective of the Course:

- The "Cloud Infrastructure and Services" course aims to provide participants with a comprehensive understanding of cloud computing concepts, infrastructure, and services.
- The course is designed to equip participants with the knowledge and skills required to effectively utilize cloud technologies, manage cloud resources, and integrate various cloud
- By the end of the course, participants will be able to design, deploy, and manage cloud-based solutions using major cloud service providers such as AWS, Azure, and Google Cloud.

Summary of the course:

CHENNAI

600 955

- This course covers the essentials of cloud computing, focusing on the core infrastructure and services offered by leading cloud platforms.
- The course begins with an introduction to cloud computing concepts and deployment models, followed by an exploration of core cloud services including compute, storage, and networking.
- Participants will gain hands-on experience with cloud account setup, virtual machines, serverless computing, containers, and storage solutions.
- The course also delves into networking, security, service integration, and management, including cost optimization strategies.
- Advanced topics such as big data, machine learning services, and future cloud trends are also covered. Each day includes practical labs to reinforce learning and provide real-world SALEGH experience.

PRINCIPAL. AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING.

Course Outcomes:

By the end of the course, participants will be able to:

1. Understand Cloud Computing Fundamentals:

- Define cloud computing and its benefits.
- o Describe different cloud service models (IaaS, PaaS, SaaS) and deployment models (Public, Private, Hybrid).

2. Setup and Manage Cloud Infrastructure:

- o Create and configure cloud accounts on major platforms (AWS, Azure, Google Cloud).
- o Launch and manage virtual machines and serverless functions.
- o Implement containerization using Docker and understand basic orchestration concepts.

3. Utilize Cloud Storage Solutions:

- o Set up and manage various types of cloud storage (block, object, file).
- o Implement data management, backup, and recovery solutions.

4. Configure Cloud Networking and Security:

- o Configure virtual networks, subnets, load balancers, and auto-scaling.
- Implement identity and access management (IAM), encryption, and compliance measures.

5. Integrate and Automate Cloud Services:

- o Integrate cloud services such as databases, messaging, and analytics.
- o Use Infrastructure as Code (IaC) tools for provisioning and managing infrastructure.
- o Implement automation and CI/CD pipelines for application deployment.

CHENNOT CHENNOT CHENNOT

PRINCIPAL

AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING
4VADI - IAF, MUTHAPUDUPF
CHENNAI 600 055

Place: Chennai Date: 16 /02/2022

From,

Head of the Department Department of ECE Aalim Muhammed Salegh College of Engineering Avadi IAF, Muthapudupet Chennai - 600055

To,

The Principal
Aalim Muhammed Salegh College of Engineering
Avadi IAF, Muthapudupet
Chennai - 600055

Respected Sir,

Sub: Requisition for the approval to conduct Value Added course in our ECE department – Reg.

We wish to conduct Value Added course in our ECE department on the topic "CLOUD INFRASTRUCTURE & SERVICES" a Guest Lecture Series From 05/03/2022 to 26/03/2022.

Resource Person:

Mr. GV. CHANDRAKANTH,B.E.M.B.A.LLB(HONS) Co-Founder, CTO ICUBE ROBOTICS

600 055

The objective of conducting this Value Added course will give the industry focus in developing skills required by using latest technology advancement in "CLOUD INFRASTRUCTURE & SERVICES". This effort will benefit our Student's community and bring core strength in engineering field.

Thank you,

Manne

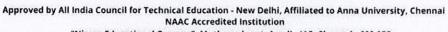
Professor Dr. A. S. SALMABANU

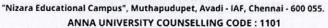
Head of the Department/ECE

PRINCIPAL IN MUHAMMED SALES

COLLEGE OF ENGINEERING









DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CERTIFICATE COURSE-CLOUD INFRASTRUCTURE AND SERVICES

Academic Year: (2021-2022)

MODULE NO.	CONTENT	DURATION(Hrs)
MODULE 1	Introduction to Cloud Computing and Infrastructure Introduction to Cloud Computing Definition and Characteristics of Cloud Computing Cloud Computing Models: IaaS, PaaS, SaaS Benefits and Challenges of Cloud Computing Major Cloud Service Providers Overview (AWS, Azure, Google Cloud, etc.) Cloud Deployment Models Public, Private, and Hybrid Clouds Community Clouds and Multi-cloud Strategies Comparing Deployment Models and Choosing the Right On Cloud Architecture Fundamentals Understanding Cloud Infrastructure Components Virtualization and Containerization Basics Overview of Cloud Storage Solution.	6
MODULE 2 PRINCIPA M MUHAMMEI LEGE OF ENG	Compute Services Introduction to Virtual Machines and Instances Overview of Serverless Computing (AWS Lambda, Azure Functions, Google Cloud Functions) Containers and Orchestration (Docker, Kubernetes) Hands-On Lab: Compute Services Launching and Configuring Virtual SALEG Machines Machines Introduction to Docker and Deploying a Basic Container	GOO 055 CHENNAI 600 055

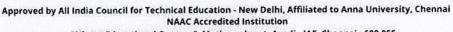
	 Cloud Storage Solutions Types of Cloud Storage: Block, Object, File Storage Data Management and Backup Solutions Understanding Storage Services (AWS S3, Azure Blob Storage, Google Cloud Storage) 	
MODULE 3	Networking and Security in the Cloud Cloud Networking Basics Virtual Networks and Subnets Load Balancers and Auto-Scaling Content Delivery Networks (CDNs) Cloud Security Fundamentals Identity and Access Management (IAM) Encryption and Key Management Compliance and Best Practices	10
MODULE 4	 Cloud Services Integration and Management Service Integration and Automation Integration of Cloud Services (Databases, Messaging, Analytics) Introduction to Infrastructure as Code (IaC) Tools (AWS CloudFormation, Azure Resource Manager, Terraform) Automation and Orchestration (CI/CD Pipelines) Cost Management and Optimization Understanding Cloud Pricing Models Monitoring and Cost Management Tools Cost Optimization Strategies 	10

TOTAL :32 Hrs



PRINCIPAL AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING







"Nizara Educational Campus", Muthapudupet, Avadi - IAF, Chennai - 600 055.
ANNA UNIVERSITY COUNSELLING CODE: 1101

Value Added Course Tentative Time Table And Schedule

Value Added Course Name: CLOUD INFRASTRUCTURE AND SERVICES

Date of Commencement: From 05/03/2022 Week Days Timing: 4:00 pm to 6:00 pm

Saturday's Timing:

Morning Session: 9.30 am to 12.30 pm Afternoon Session: 1.30 pm & 3:30 pm

Tentative Date of Exam- 26/03/2022

Tentative Course Schedule - 05/03/2022 to 26/03/2022 (As per following)

No. Of Days: (4 Weekend class) (4 Days Week days)

Course Hours: 32

Speaker: Mr. G.V.CHANDRAKANTH., B.E, M.B.A., LLB (HONS)

- 1. Module -1: Introduction to Cloud Computing & Infrastructure— 05-03-2022 6 Hours
- 2. Module -2: Compute Services 12-03-2022 6 Hours
- 3. Module -3:Networking & Security in the Cloud 19-03-2022 to 22-03-2022 –3 days (10 Hrs)
- 4. Module -4:Cloud Services Integration & Management 23-03-2022 to 26-03-2022 (3 days) (10 Hrs)

CHENNAI 600 055 PROBLEMENT A CHENNAI

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING
4VADI - IAF, MUTHAPUDUPET
CHENNAI 600 055



AALIM MUHAMMED SALLSH COLLEGE OF ENGINEER OF

Approved by All India Council for Technical Education - New Delhi, Affiliated to Anna University. Chennal Approved by All Indiana Educational Campus., Mutchiapudupat Avadi - IAF, Chennal - 600 055.
ANNA UNIVERSITY COUNSELLING CODE : 1101

Department of Electronics and Communication Engineering Value Added Course: Cloud Infrastructure and Services(2021-2022)





BOT 965

AALIN WUHANNED SALEGH

CLOUDFLARE MUDUN

CERTIFICATE

OF COMPLETION

THIS IS TO CERTIFY THAT

AMEENA S

InfrastructureAndservices"from05/03/2022to26/03/2022.We appreciate your hard work & Sincerity towards your course and wish you good luck for your Has successfully completed 5days of valued Added Course in"Cloud future endeavor.

Chandrakant

G.V.CHANDRAKANTH

CO-Founder

CHEMNAI 600 055

AALIM MUHAMMED SALEGH

MARTINSCHROETERthe Chairman and Chief ExecutiveOfficerofKyndryl

CLOUDFLARE VIOUX

CERTIFICATE

OF COMPLETION

THIS IS TO CERTIFY THAT

AFFAN NABEEL A

InfrastructureAndservices"from05/03/2022to26/03/2022.We appreciate your hard work & Sincerity towards your course and wish you good luck for your Has successfully completed 5days of valued Added Course in"**Cloud** future endeavor.

handestart

G.V.CHANDRAKANTH

CO-Founder

CHILD ON THE STATE OF THE STATE

PRINCIPAL ALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

MARTIN SCHROETER the Chairman and Chief Executive Office of Kyndryl

WINDOW GENTHICATE

MATEEN AHMED N

InfrastructureAndservices"from05/03/2022to26/03/2022.Weappreciateyour hard work & Sincerity towards your course and wish you good luck for your has successfully completed 5days of valued Added Course in"**Cloud** future endeavor.

handeatant

G.V.CHANDRAKANTH CO-Founder



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

MARTINSCHROETERthe Chairman and Chief ExecutiveOfficerofKyndryl

CLOUDFLARE

CERTIFICATE

KISHORE ARAVIND M

InfrastructureAndservices"from05/03/2022to26/03/2022.Weappreciateyour hard work & Sincerity towards your course and wish you good luck for your hassuccessfullycompleted5daysofvaluedAddedCoursein"Cloud future endeavor.

handsatant

G.V.CHANDRAKANTH CO-Founder



AALIM MUHAMMED SALEGH

MARTINSCHROETERthe Chairman and Chief ExecutiveOfficerofKyndryl