



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

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.*

*Date
23/2/2022*

A.S. Salma Banu
23/02/2022
Prof. Dr. A.S.SALMA BANU
HoD/ECE



MS
PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Cloud infrastructure and Services

We provide professional courses from 5th March 2022

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

GET IN TOUCH



9444260079



as.salmabanu@aalimec.ac.in



Department of ECE

VALUE ADDED COURSE

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

Trusted Partner for Growth and Branding

Trust us to bring your vision to life.



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

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

Prof. Dr. S. Sathish
Principal

Alhaj. S. Segu Jamaludeen
Secretary & Correspondent



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

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 services.
- 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:

- 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 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.
 - Describe different cloud service models (IaaS, PaaS, SaaS) and deployment models (Public, Private, Hybrid).
2. **Setup and Manage Cloud Infrastructure:**
 - Create and configure cloud accounts on major platforms (AWS, Azure, Google Cloud).
 - Launch and manage virtual machines and serverless functions.
 - Implement containerization using Docker and understand basic orchestration concepts.
3. **Utilize Cloud Storage Solutions:**
 - Set up and manage various types of cloud storage (block, object, file).
 - Implement data management, backup, and recovery solutions.
4. **Configure Cloud Networking and Security:**
 - 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:**
 - Integrate cloud services such as databases, messaging, and analytics.
 - Use Infrastructure as Code (IaC) tools for provisioning and managing infrastructure.
 - Implement automation and CI/CD pipelines for application deployment.




PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING
4VADI - IAF, MUTHAPUDUPE
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

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,

Yours truly,

*Permitted to organize
the above programme*
Date 16/2/2022
Professor Dr. A. S. SALMABANU
Head of the Department/ECE



PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

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

CERTIFICATE COURSE-CLOUD INFRASTRUCTURE AND SERVICES

Academic Year: (2021-2022)

COURSE CONTENT:

MODULE NO.	CONTENT	DURATION(Hrs)
MODULE 1	<p>Introduction to Cloud Computing and Infrastructure</p> <ul style="list-style-type: none">• Introduction to Cloud Computing<ul style="list-style-type: none">• 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<ul style="list-style-type: none">• Public, Private, and Hybrid Clouds• Community Clouds and Multi-cloud Strategies• Comparing Deployment Models and Choosing the Right One• Cloud Architecture Fundamentals<ul style="list-style-type: none">• Understanding Cloud Infrastructure Components• Virtualization and Containerization Basics• Overview of Cloud Storage Solutions.	6
MODULE 2	<ul style="list-style-type: none">• Compute Services<ul style="list-style-type: none">• 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<ul style="list-style-type: none">• Launching and Configuring Virtual Machines• Deploying a Simple Serverless Function• Introduction to Docker and Deploying a Basic Container	6


PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING



	Cloud Storage Solutions <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Cloud Networking Basics <ul style="list-style-type: none"> • Virtual Networks and Subnets • Load Balancers and Auto-Scaling • Content Delivery Networks (CDNs) • Cloud Security Fundamentals <ul style="list-style-type: none"> • Identity and Access Management (IAM) • Encryption and Key Management • Compliance and Best Practices 	10
MODULE 4	Cloud Services Integration and Management <ul style="list-style-type: none"> • Service Integration and Automation <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Understanding Cloud Pricing Models • Monitoring and Cost Management Tools • Cost Optimization Strategies 	10

TOTAL :32 Hrs




 PRINCIPAL
 AALIM MUHAMMED SALEGH
 COLLEGE OF ENGINEERING



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

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



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)




PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING
AVADI - IAF, MUTHAPUDUPE
CHENNAI 600 055



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Approved by All India Council for Technical Education - New Delhi, Affiliated to Anna University, Chennai
NAAAC Accredited, Autonomous Institute, Nizars Educational Campus, Marudupet, Avadi - IAF, Chennai - 600 055.

ANNA UNIVERSITY COUNSELLING CODE : 1101

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

S.NO	REG NO	Student Name	5/3/22	12/3/22	19/3/22	21/3/22	22/3/22	23/3/22	25/3/22	26/3/22
1	110119106001	ABDUR RAHMAN M Y	(AB)		Nabeel Nabeel	Nabeel Nabeel	Nabeel Nabeel	Nabeel Nabeel	Nabeel Nabeel	Nabeel Nabeel
2	110119106002	AFFAN NABEEL A	(AB)		Nabeel Nabeel	Nabeel Nabeel	Nabeel Nabeel	Nabeel Nabeel	Nabeel Nabeel	Nabeel Nabeel
3	110119106003	AMEENA S			Ameena Ameena	Ameena Ameena	Ameena Ameena	Ameena Ameena	Ameena Ameena	Ameena Ameena
4	110119106004	ARUN KUMAR B			Arun Arun	Arun Arun	Arun Arun	Arun Arun	Arun Arun	Arun Arun
5	110119106005	KISHORE ARAVIND M			Kishore Kishore	Kishore Kishore	Kishore Kishore	Kishore Kishore	Kishore Kishore	Kishore Kishore
6	110119106006	MATEEN AHMED N	(AB)		Mateen Mateen	Mateen Mateen	Mateen Mateen	Mateen Mateen	Mateen Mateen	Mateen Mateen
7	110119106007	MD TAHIR PR	(AB)		Md Tahir Md Tahir	Md Tahir Md Tahir	Md Tahir Md Tahir	Md Tahir Md Tahir	Md Tahir Md Tahir	Md Tahir Md Tahir
8	110119106008	MOHAMED ABDULLAH I	(AB)		Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed
9	110119106009	MOHAMED ABUSALIH K			Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed
10	110119106010	MOHAMED FUZAIL A			Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed
11	110119106011	MOHAMED HASSAN S			Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed
12	110119106012	MOHAMED IRFAN A			Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed
13	110119106013	MOHAMED ISHAQ R			Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed
14	110119106014	MOHAMED ISMAIL J			Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed
15	110119106016	MOHAMED JAVITH NAZEEM N			Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed
16	110119106017	MOHAMED KALIFATHULLAH M			Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed
17	110119106018	MOHAMMED FAZIL A			Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed
18	110119106019	MOHAMMED RAHIM A			Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed
19	110119106020	NADAVALA SASI VADHAN	(AB)		Nadavala Nadavala	Nadavala Nadavala	Nadavala Nadavala	Nadavala Nadavala	Nadavala Nadavala	Nadavala Nadavala
20	110119106021	NITHIN A			Nithin Nithin	Nithin Nithin	Nithin Nithin	Nithin Nithin	Nithin Nithin	Nithin Nithin
21	110119106022	PRASANNA KUMAR S	(AB)		Prasanna Prasanna	Prasanna Prasanna	Prasanna Prasanna	Prasanna Prasanna	Prasanna Prasanna	Prasanna Prasanna
22	110119106023	RAHAMAMAN A R	(AB)		Rahamaman Rahamaman	Rahamaman Rahamaman	Rahamaman Rahamaman	Rahamaman Rahamaman	Rahamaman Rahamaman	Rahamaman Rahamaman
23	110119106024	SADHU BALA SAI KRISHNA			Sadhu Sadhu	Sadhu Sadhu	Sadhu Sadhu	Sadhu Sadhu	Sadhu Sadhu	Sadhu Sadhu
24	110119106025	SEENI HABEBU MOHAMED A			Seeni Seeni	Seeni Seeni	Seeni Seeni	Seeni Seeni	Seeni Seeni	Seeni Seeni
25	110119106026	SHAHID HUSSAIN N			Shahid Shahid	Shahid Shahid	Shahid Shahid	Shahid Shahid	Shahid Shahid	Shahid Shahid
26	110119106029	SYED ALI NOFVAL	(AB)		Syed Syed	Syed Syed	Syed Syed	Syed Syed	Syed Syed	Syed Syed
27	110119106030	SYED IRFAN K	(AB)		Syed Syed	Syed Syed	Syed Syed	Syed Syed	Syed Syed	Syed Syed
28	110119106031	THANGARANI K			Thangarani Thangarani	Thangarani Thangarani	Thangarani Thangarani	Thangarani Thangarani	Thangarani Thangarani	Thangarani Thangarani
29	110119106032	TOUHEED KHAN S			Touheed Touheed	Touheed Touheed	Touheed Touheed	Touheed Touheed	Touheed Touheed	Touheed Touheed
30	110119106301	MOHAMED ASWERDEEN M			Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed
31	110119106302	MOHAMED YASEEN			Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed	Mohamed Mohamed
32	110119106501	P.V.KRISHVA KESAV			P.V. P.V.	P.V. P.V.	P.V. P.V.	P.V. P.V.	P.V. P.V.	P.V. P.V.
33	110119106701	H.MUJBEENA			H.Mujbeena H.Mujbeena	H.Mujbeena H.Mujbeena	H.Mujbeena H.Mujbeena	H.Mujbeena H.Mujbeena	H.Mujbeena H.Mujbeena	H.Mujbeena H.Mujbeena



PRINCIPAL SALEGH
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING



CERTIFICATE
OF COMPLETION
THIS IS TO CERTIFY THAT

AMEENA S

Has successfully completed 5days of valued Added Course in "Cloud Infrastructure And services" from 05/03/2022 to 26/03/2022. We appreciate your hard work & Sincerity towards your course and wish you good luck for your future endeavor.

Chandrakant

G.V.CHANDRAKANTH
CO-Founder



MS

PRINCIPAL
KALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

MARTIN SCHROETER
Chairman and Chief
Executive Officer of Kyndryl



CERTIFICATE
OF COMPLETION

THIS IS TO CERTIFY THAT

AFFAN NABEEL A

Has successfully completed 5days of valued Added Course in "**Cloud InfrastructureAndservices**" from 05/03/2022 to 26/03/2022. We appreciate your hard work & Sincerity towards your course and wish you good luck for your future endeavor.



Chandrakant

G.V.CHANDRAKANTH
CO-Founder

MARTIN SCHROETER the
Chairman and Chief
Executive Office of Kyndryl

rs
PRINCIPAL
KALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING



CERTIFICATE

OF COMPLETION

THIS IS TO CERTIFY THAT

MATEEN AHMED N

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

Chandrakant

G.V.CHANDRAKANTH
CO-Founder



Prav
PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

MARTIN SCHROETER
Chairman and Chief
Executive Officer of Kyndryl



CERTIFICATE

OF COMPLETION

THIS IS TO CERTIFY THAT

KISHORE ARAVIND M

has successfully completed 5 days of valued Added Course in "Cloud Infrastructure And services" from 05/03/2022 to 26/03/2022. We appreciate your hard work & Sincerity towards your course and wish you good luck for your future endeavor.

Chandrakant

G.V.CHANDRAKANTH
CO-Founder



ms

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

MARTIN SCHROETER
Chairman and Chief
Executive Officer of Kyndryl