



Swarnandhra College of Engineering & Technology

Autonomous and recognized under 2(F) and 12(B) by UGC

Recognized by AICTE, permanently affiliated to JNTUK Kakinada

Accredited by NAAC with 'A' Grade (2nd Cycle)

Seetharamapuram, Narsapur – 530280 (Andhra Pradesh)

DEPARTMENT OF INFORMATION TECHNOLOGY

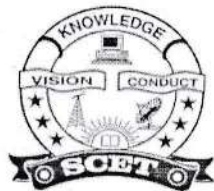
TEACHING PLAN

Course Code	Course Title	Semester	Branch	Contact Periods /Week	Academic Year	Date of commencement
20IT7J03	Amazon Web Services	VII	CSE(DS)	5	2024-2025	09-06-2025

COURSE OUTCOMES

1	Identify the core AWS services. (K3)
2	Analyze the key AWS security concepts. (K4)
3	Apply the strategies for migrating from on-premises to AWS. (K3)
4	Summarize the storage concepts of AWS. (K2)
5	Building serverless applications with AWS. (K3).

UNIT	Out Comes / Bloom's Level	Topics No.	Topics/ Activity	Text Book/ Reference	Contact Hour	Delivery Method
I	CO – 1	1.1	Introduction to Cloud Computing	T1	1	Chalk & Board Power point presentations Assignment Test
		1.2	Cloud Environment Architecture	T1	1	
		1.3	Cloud Computing Models	T1	1	
		1.4	AWS Services	T1,R1	1	
		1.5	Infrastructure	T1	1	
		1.6	Compute Services	T1	1	
		1.7	Networking and Storage on AWS	T1,R1	2	
		1.8	Databases on AWS	T1,R1	2	
		1.9	Monitoring and Scaling	T1	1	



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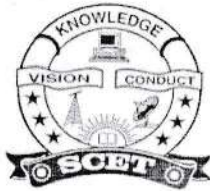
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Content beyond syllabus		1.10	Understanding cloud economics and billing		1	
Total					12	
II	CO – 2	2.1	Addressing Security Risk	T1,T2	1	Chalk & Board Power point presentations Assignment Test
		2.2	Least privilege and Shared Responsibility Model	T1,T2	1	
		2.3	Network isolation and endpoint security	T1,T2	1	
		2.4	Detective controls such as Amazon CloudTrail as well as AWS Security Hub	T1,T2	1	
		2.5	Amazon Guard Duty and AWS Config	T1,T2	1	
		2.6	Encryption of data at rest, in motion	T1,T2	1	
		2.7	Storing data within and between various AWS services	T1,T2	2	
		2.8	Amazon EC2 and AWS Lambda	T1,T2	1	
		2.9	AWS Well- Architected Framework	T1	2	
Content beyond syllabus		2.10	Automation and Monitoring	T1	1	
Total					12	
III	CO – 3	3.1	Migrating to the Cloud	T1,R1	1	Chalk & Board Power point presentations Assignment Test
		3.2	Definition of Migration	T1,R1	1	
		3.3	Migration Preparation and Business Planning	T1,R1	1	
		3.4	Portfolio Discovery and Planning, Design	T1,R1	1	
		3.5	Migration and Application Validation, Operate	T1,R1	1	
		3.6	Cloud Adoption Framework- Hybrid Environments	T1,R1	1	
		3.7	Scaling Considerations	T1,R1	1	
		3.8	High Availability	T1,R1	1	
		3.9	Considerations with Migrating DB vs. Applications	T1,R1	1	
		3.10	AWS Server Migration Services	T1,R1	1	
		3.11	VM Import and VM on AWS (Server Migration Service)	T1,R1	1	
		3.12	Introduce AWS Migration Hub	T1,R1	1	



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		3.13	AWS Application Discovery Service	T1	1	
		3.14	Amazon EFS , & Amazon S3.	T1,R1	1	
Content beyond syllabus		3.15	Different approaches of cloud Migration	R1	1	
					Total	15
IV	CO – 4	4.1	AWS Snowball & AWS Snowmobile	T1,T2	1	Chalk & Board Power point presentations Assignment Test
		4.2	AWS Storage Gateway Now with AWS Data Sync	T1,T2	1	
		4.3	Storage - AWS DMS Overview	T1,T2	1	
		4.4	Storage - AWS DMS Core Features	T1,T2	1	
		4.5	Storage Schema Conversion	T1,T2	1	
		4.6	Storage - Amazon Aurora (Serverless)	T1,T3	1	
		4.7	AWS Direct Connect & Amazon Route 53	T1,T3	1	
		4.8	Automation - AWS API Centricity	T1	1	
		4.9	AWS System Manager & AWS Cloud Formation	T1	1	
		4.10	Overview and TSO Logic	T1	1	
		4.11	Migration Tools - Cloud Endure	T1	1	
		Content beyond syllabus		4.12	Amazon simple notification Service(Amazon SNS)	
					Total	12
V	CO – 5	5.1	Amazon Lex	T1,R1	1	Chalk & Board Power point presentations Assignment Test
		5.2	Amazon Lex Walkthrough	T1,R1	1	
		5.3	Introduction to Amazon Cloud Front	T1,R1	1	
		5.4	AWS Identity Access Management (IAM)	T1,R1	1	
		5.5	Introduction to Server less Computing with AWS Lambda	T1,R2	1	
Content beyond syllabus		5.8	Benefits of including AWS IAM	R1	1	
					Total	6
CUMULATIVE PROPOSED PERIODS					57	
S.No.	AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION					
1	Amazon web services in action, written by Andreas witting and Michael witting.					



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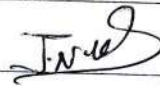
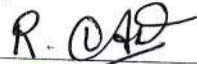

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2	Mastering AWS Development, written by Uchit Vyas
3	Computer organization and architecture, William Stallings, 11 TH edition, Pearson
Reference Books:	
S.No.	AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION
1	Implementing cloud design patterns for AWS, written by Marcus Young
2	AWS administration – the definitive guide, written by Yohan Wadia
Web Details:	
1	https://www.javatpoint.com/daa-tutorial
2	https://lecturenotes.in/notes/17784-note-for-digital-and-logic-of-computer organization - daa-by- shekharesh-barik?reading=true
3	https://www.tutorialspoint.com/digital logic and computer arithmetic /index.htm
4	https://www.geeksforgeeks.org/# computer organization

		Name	Signature with Date
i	Faculty	Mrs. J.N.D.Lakshmi	
ii	Module Coordinator	Mrs.R.Uma Aruna Devi	
iii	Programme Coordinator	Dr. RVVSV Prasad	


Principal