

303105153 - Global Certifications - Fundamentals (Azure, AWS, GCP)

Course	Bachelor of Technology (BTech) Semester - 2
Type of Course	-
Prerequisite	Basic understanding of computer concepts and basic programming.
Course Objective	This course provides a broad introduction to Azure cloud, infrastructure, services, security and compliance, also billing, pricing and support plans.

Т	Examination Scheme								
	Tutorial	Lab	Credit	Theory Marks		Practical Marks		Total	
Lecture				External Marks	Internal Marks	External Marks	Internal Marks	Marks	
2	-	-	2.00	60	20	-	-	100	

SEE - Semester End Examination, CIA - Continuous Internal Assessment (It consists of Assignments/Seminars/Presentations/MCQ Tests, etc.)

Cou	rse Content	T - Teaching F	lours W - \	Veig	htag
Sr.	Topics			Т	W
1	Cloud Concept	s:		4	15
	_	cloud computing principles, such as the different types of cloud models (public, private, has-a-service (laaS), platform-as-a-service (PaaS), and software-as-a-service (SaaS).	nybrid),		
2	Azure Services	• • • • • • • • • • • • • • • • • • •		6	20
	•	n the various Azure services and their common use cases. This includes services like Azure vices, Azure Storage, Azure Functions, Azure SQL Database, and more.	Virtual Macl	nine	S,
3	Security, Privacy, Compliance, and Trust:				25
	_	Azure security features, identity and access management, Azure Active Directory, data prond Azure governance methodologies.	otection, com	nplia	nce
4	Azure Pricing a	ınd Support:		4	15
	Understanding Azure custome	Azure subscription options, cost management, pricing models, and the different supporters	options avai	lable	e to
5	Azure SLA and	Service Lifecycles:		10	25
	-	n Azure Service Level Agreements (SLAs) and the Azure service lifecycle, including planned leprecation policies.	maintenanc	e,	
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*Continuous Evaluation:

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.

Reference Books:

- "Microsoft Azure Fundamentals: Understanding Azure" by Michael Collier and Robin Shahan 3rd Edition
- 2. "Azure for Architects: Implementing cloud design, DevOps, containers, IoT, and serverless solutions on your public cloud" by Ritesh Modi 2nd Edition.
- 3. "Exam Ref AZ-900 Microsoft Azure Fundamentals" by Jim Cheshire 2nd Edition

Course Outcome:

After learning the course the students shall be able to:

- 1. Understand the principles Cloud computing.
- 2 Familiarity with the various Azure services
- 3. Understanding the Azure security features,
- 4. Understanding Azure Service Level Agreements (SLAs) and the Azure service lifecycle