

Course: BTech Semester: 5

Prerequisite: Basic understanding of computer concepts and basic programming

Rationale: This course provides a broad introduction to Azure cloud, infrastructure, services, security and compliance, also billing, pricing and support plans.

Teaching and Examination Scheme

	ching Schem	е		Examination Scheme						
Lecture	Tutorial Hrs/Week	Lab Hrs/Week	Hrs/Week	Credit	Internal Marks			External Marks		Total
Hrs/Week					Т	CE	Р	Т	Р	
2	0	0	0	2	20	20	-	60	-	100

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

Course Content		W - Weightage (%) , T - Teaching hou							
Sr.	Topics		w	Т					
1		cepts: ding cloud computing principles, such as the different types of cloud models (public, private, hybrid), ure-as-a-service (laaS), platform-as-a-service (PaaS), and software-as-a-service (SaaS).							
2	Azure Services: Familiarity with the various Azure services and their common use cases. This includes services like Azure Virtual Machines, Azure App Services, Azure Storage, Azure Functions, Azure SQL Database, and more		20	7					
3	Knowledge o	racy, Compliance, and Trust: f Azure security features, identity and access management, Azure Active Directory, data protection, rameworks, and Azure governance methodologies.	25	5					
4	Understandi	g and Support: ng Azure subscription options, cost management, pricing models, and the different support options Azure customers	15	5					
5	Familiarity w	od Service Lifecycles: ith Azure Service Level Agreements (SLAs) and the Azure service lifecycle, including planned , updates, and deprecation policies.	25	7					

Reference Books

Microsoft Azure Fundamentals: Understanding Azure" by Michael Collier and Robin Shahan - 3rd Edition (TextBook)
 Azure for Architects: Implementing cloud design, DevOps, containers, IoT, and serverless solutions on your public cloud" by Ritesh Modi - 2nd Edition
 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. Describe cloud computing fundamentals, including different cloud models and service types, and become familiar with key Azure services and their typical uses.
- 2. Apply Azure security, privacy, compliance, and trust measures, covering identity management, data protection, compliance frameworks, and governance.
- 3. Apply Azure subscription management, cost optimization, pricing models, and support options for efficient utilization of Azure resources.
- 4. Explain Azure SLAs and service life cycles, including maintenance, updates, and deprecation policies, ensuring reliability and availability of Azure services.

Miscellaneous

Exam Requirement

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

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