

Program Structure

General:

Online Video Content

Every week the video content will be released on Monday for which the session schedule is shared in the below table.

Graded Assessments

- The due date from graded assessments will be 7 days from the release date.
- The participant had to submit the graded project in the form of doc/pdf through email on sgprogramsupport@greatlearning.in. The specific instructions will be available for all the assessment.

Query

The participant is requested to submit their query at least 36-48 hours before the live session so that trainer can assist with the query during the session.

Course Name (week)	Topics	Sub Topics covered	Mode of Delivery	Mentor Learning Session/Live Teaching sessions (Weekdays) Date and Duration of Session	Assessments Release Date Graded Quiz and Project
	Introduction to Azure & Implement solutions that use virtual machines	Azure Portal and Cloud Shell	Live	01-06-2021 (2 hour)	04-06-2021
		Azure PowerShell and CLI			
		Azure Service Bus, Messaging Q, Notification Service			
		Azure Fund			
		billing and Policy Management Ent Cloud Control Plane			
		Resource Manager			
Introduction		Create ARM templates			
to Azure - IaaS and Storage (Week 1)		Configure Azure Disk Encryption for VMs			
		App Gateway [Diff LB] and APM Understanding			
		Auto Scaling or Azure Sets			
		Pricing			
		Azure CDN			
		Provision VMs	Online	04-06-2021 (1 hour)	
		Virtual Networks			
		IP Addressing and Endpoints			
		Azure DNS			



Develop solutions that use Azure Table storage overview Azure Storage Different types Authorization in Table storage Table service REST API Develop solutions that use Microsoft Azure Blob storage overview Working with Azure Blob storage Overview of Azure Monitor Network Security Groups Azure Storage overview Azure Storage Azure Blob storage overview Working with Azure Blob storage Overview of Azure Monitor	
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Overview of Azure Monitor	
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Introduction to Azure Monitor Azure Monitor Know where and how Azure Monitor Online	
Know where and now Azare Worldon	
Use Azure SQL Database Diff type of	
DB's and DBPaaS	
Working with Describe Azure SOL Data Warehouse	
Relational Data Creating and Quanting an Azura SQL Online	
Monitoring, Stores in the State Washington	
Logging, Cloud Analytics and Use PolyBase to Load Data into Azure	
Azure SOI SQL Data Warehouse 11-06-2021 11	
Data Explain data streams and event (2 hours)	
Warehouse Performing Real- processing	
(Week 2) Time Analytics Data Ingestion with Event Hubs [API, With Stream KAFKA, Qbased] Online	
Analytics Processing Data with Stream Analytics Jobs	
Instrument Configure instrumentation in an app or solutions to server by using Application Insights	
support monitoring and logging Lessons Analyze and troubleshoot solutions by using Azure Monitor	
logging ressens	
Azure Batch overview	
Implement batch Run a batch job by using the Azure CLI	18-06-2021
iohs by using and Azure Portal	
Azure Batch Run batch jobs by using code	
Batch jobs and deploying Services Manage batch jobs by using the Batch Service API	
Create an Azure Managed Kuhernetes 17-06-2021	
containerized Service (AKS) cluster (2 hours)	
solutions Create Create container images for solutions	
(Week 3) containerized Publish an image to the Azure Container Live Registry	
Run containers by using Azure Container Instance or AKS /ASC	
Implement autoscale Live	



	Develop code to support scalability of apps and services	Implement code that addresses singleton application instances Implement code that handles transient faults		18-06-2021 (2 hours)	
CosmosDB and Azure SQL - an Overview (Week 4)	Develop solutions that use Azure Cosmos DB storage	Azure Cosmos DB overview Managing containers and items Create and update documents by using code	Online	25-06-2021 (2 hours)	25-06-2021
	Building Globally Distributed Databases with Cosmos DB	Create an Azure Cosmos DB database built to scale Insert and query data in your Azure Cosmos DB database Build a .NET Core app for Cosmos DB in Visual Studio Code Distribute your data globally with Azure Cosmos DB	Online		
	Develop solutions that use a relational database Lessons	Azure SQL overview Create, read, update, and delete database tables by using code Azure Cache for Redis	Online		
	caching and content delivery within solutions	Develop for storage on CDNs	Live		
Azure Data Platform and Storage accounts (Week 5)	Azure for the Data Engineer	Explain the evolving world of data Survey the services in the Azure Data Platform Identify the tasks that are performed by a Data Engineer Describe the use cases for the cloud in a Case Study	Live	01-07-2021 (1 hour)	02 07 2021
	Working with Data Storage	Choose a data storage approach in Azure Create an Azure Storage Account Explain Azure Data Lake storage HDI Clusters Upload data into Azure Data Lake	Live	02-07-2021 (2 hour)	. 02-07-2021
Azure DataBricks and Data Factory (Week 6)	Enabling Team Based Data Science with Azure Databricks	Explain Azure Databricks Work with Azure Databricks Read data with Azure Databricks Perform transformations with Azure Databricks	Live	09-07-2021 (2 hour)	09-07-2021
	Orchestrating Data Movement	Explain how Azure Data Factory works Azure Data Factory Components	Live		



	with Azure Data Factory	Azure Data Factory and Databricks			
Management	Securing Azure Data Platforms	An introduction to security	Online	16-07-2021 (2 hour)	16-07-2021
		Key security components			
		Securing Storage Accounts and Data Lake Storage			
		Securing Data Stores			
of Azure Data		Securing Streaming Data			
Platforms (Week 7)	Monitoring and Troubleshooting Data Storage and Processing	Explain the monitoring capabilities that are available	Live		
		Troubleshoot common data storage issues			
		Troubleshoot common data processing issues			
		Manage disaster recovery			
	Designing for Resiliency and Scale	Design for Optimized Storage and Database Performance	Live	23-07-2021 (2 hours)	23-07-2021
		Identifying Performance Bottlenecks			
		Design a Highly Available Solution			
Week 8		Incorporate Disaster Recovery into Architectures			
		Design Backup and Restore strategies			
	Design for Efficiency and Operations	Maximizing the Efficiency of your Cloud Environment			
		Use Monitoring and Analytics to Gain Operational Insights			
		Use Automation to Reduce Effort and Error			