



THE NATIONAL INSTITUTE OF ENGINEERING, MANANDAVADI ROAD, MYSURU-08
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



SKILL DEVELOPMENT PROGRAMME/VALUE ADDED COURSE SCHEDULE FOR THE ACDEMIC YEAR 2022-23

MICROSOFT AZURE AI ENGINEER ASSOCIATE FOR SIXTH SEM STUDENTS

Date	Day	Venue	Session-1 9:00am to 11:00am	Break	Session-2 11:30am to 1:30pm	Break	Session-3 2:00pm to 3:45pm	Break	Session-4 4:00pm to 5:15pm	Faculty Incharge
10-04-2023	MONDAY	INTERNET LAB	Event Inauguration (9am to 9.15 am) Basics of Azure AI (Define artificial intelligence, considerations for AI Engineers, Understand AI-related terms: responsible AI, Azure Machine Learning, Azure Cognitive Services, Azure Bot Service, Azure Cognitive Search)		Provision and manage Azure Cognitive Services (Create and consume Cognitive Services, Provision a cognitive services resource, Identify endpoints and keys, Secure Cognitive Services, Consider authentication, Implement network security, Monitor Cognitive Services, Alerts, Metrics)		Provision and manage Azure Cognitive Services(contd.) Process and translate text with Azure Cognitive Services (Deploy cognitive services in containers, Understand containers, Use Cognitive Services containers, Extract insights from text with the Language service, Provision a Language resource, Extract key phrases, Analyze sentiment)		Process and translate text with Azure Cognitive Services (Translate text with the Translator service, Understand language detection, translation, and transliteration, Specify translation options)	Mrs. Ushadevi A, Mrs. Amruthashree, Mrs. Razika Amreen, Mrs. Nandini P
		ISLab- 6								Mrs. Smitha B, Ms Amitha S , Mrs Mahe Mubin Ms Priyanka R V
11-04-2023	Tuesday	INTERNET LAB	Process and Translate Speech with Azure Cognitive Speech Services (Create speech-enabled apps with the Speech service, Provision an Azure resource for speech, Use the speech-to-text API, Use the text-to-speech API)	T	Process and Translate Speech with Azure Cognitive Speech Services(contd.) (Translate speech with the speech service, Translate speech to text, Synthesize translations)	U	Create a Language Understanding solution (Create a Language Understanding app, Provision Azure resources for Language Understanding, Define intents and utterances, Define entities)	T	Create a Language Understanding solution(contd.) (Publish and use a Language Understanding app, Set publishing configuration options, Process predictions)	Mrs. Ushadevi A, Mrs. Amruthashree, Mrs. Razika Amreen, Mrs. Nandini P
		ISLab- 6								Mrs. Smitha B, Ms Amitha S , Mrs Mahe Mubin Ms Priyanka R V
12-04-2023	Wednesday	INTERNET LAB	Create a Language Understanding solution (Use Language Understanding with Speech, Understand Language Understanding and Speech service integration, Perform intent recognition with the Speech SDK)	A	Build a question answering solution (Build a question answering solution, Compare question answering to language understanding, Create a knowledge base, Test and publish a knowledge base, Create a question answering bot)	B	Create conversational AI solutions (Create a bot with the Bot Framework SDK, Introduce principles of bot design, Implement activity handlers and dialogs, Deploy a bot)	A	Create conversational AI solutions(contd.) (Create a Bot with the Bot Framework Composer, Understand dialogs, Understand adaptive flow, Design the user experience)	Mrs. Ushadevi A, Mrs. Amruthashree, Mrs. Razika Amreen, Mrs. Nandini P
		ISLab- 6								Mrs. Smitha B, Ms Amitha S , Mrs Mahe Mubin Ms Priyanka R V
13-04-2023	Thursday	INTERNET LAB	Create computer vision solutions with Azure Cognitive Services (Analyze images, Provision a Computer Vision resource, Generate a smart-cropped thumbnail)	B	Create computer vision solutions with Azure Cognitive Services(contd.) (Analyze video, Understand Video Analyzer for Media capabilities, Classify images, Understand image classification, Train an image classifier)	E	Create computer vision solutions with Azure Cognitive Services(contd.) (Detect objects in images, Understand object detection, Train an object detector, Consider options for labeling images)	A	Create computer vision solutions with Azure Cognitive Services(contd.) (Detect, analyze, and recognize faces, Understand considerations for face analysis, Detect faces with the computer vision service, Compare and match detected faces)	Mrs. Ushadevi A, Mrs. Amruthashree, Mrs. Razika Amreen, Mrs. Nandini P
		ISLab- 6								Mrs. Smitha B, Ms Amitha S , Mrs Mahe Mubin Ms Priyanka R V
15-04-2023	Saturday	INTERNET LAB	Extract text from images and documents (Read Text in Images and Documents with the Computer Vision Service, Explore Computer Vision options for reading text, Use the OCR API, Use the Read API)	K	Extract text from images and documents(contd.) (Extract data from forms with Form Recognizer, Get started with Form Recognizer, Understand prebuilt models, Train custom models without labels, Use Form Recognizer models, Use the Form OCR Test Tool)		Implement knowledge mining with Azure Cognitive Search (Create an Azure Cognitive Search solution, Search components, Understand the indexing process, Apply filtering and sorting)		Implement knowledge mining with Azure Cognitive Search(contd.) (Create a custom skill for Azure Cognitive Search, Create a custom skill, Add a custom skill to a skillset, Create a knowledge store with Azure Cognitive Search, Define projections and knowledge store)	Mrs. Ushadevi A, Mrs. Amruthashree, Mrs. Razika Amreen, Mrs. Nandini P
		ISLab- 6								Mrs. Smitha B, Ms Amitha S , Mrs Mahe Mubin Ms Priyanka R V

