Department: CSE Date: August 04-08, 2025



REPORT FOR FIVE-DAY FACULTY DEVELOPMENT PROGRAM



ON

"MICROSOFT AZURE AI ENGINEER ASSOCIATE"

 04^{th} August -08^{th} August 2025

ORGANIZED BY

Department of Computer Science & Engineering

Nalla Narasimha Reddy Group of Institutions (UGC Autonomous)

Organizers:

- 1. Dr. K. Rameshwariah, Convener & HoD, CSE
- 2. Dr. K. Srinivasa Babu, Professor, CSE
- 3. Dr. S. Sree Hari Raju, Associate Professor, CSE

Resource Person: Mr. S. Gopinath

Senior Technical Trainer ICT Academy, Tamil Nadu.





FDP INVITATION



NALLA NARASIMHA REDDY GROUP OF INSTITUTIONS

(UGC AUTONOMOUS)

Chowdariguda, Medchal (Dist.), Hyderabad - 500088.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Cordially invites you For the Inaugural Function of

Five-Day Faculty Development Program

"Microsoft Azure AI Engineer Associate"

Resource Person

Mr. Gopinath. S Senior Technical Trainer ICT Academy, Chennai Tamil Nadu, India.

Date & Time: 04th August to 08th August 2025 @ 09:30 AM

Venue: CC - IV, 1st Floor

Sri Nalla Narasimha Reddy Chairman

Mr. Nalla Prashanth Reddy Vice Chairman

Nalla Narasimha Reddy Group of Institutions Nalla Narasimha Reddy Group of Institutions

Dr. C. V. Krishna Reddy

Director Nalla Narasimha Reddy Group of Institutions

Dr. G. Janardhana Raju Dr. K. Rameshwaraiah Dean - School of Engineering Convener & Head-CSE Nalla Narasimha Reddy Group of Institutions Nalla Narasimha Reddy Group of Institutions

Introduction

The main aim of organizing this FDP was to give the awareness and knowledge of "Azure AI Services" to faculty because of NLP solutions with Azure AI Service, AI Document Intelligence is an ever-evolving field, the use of Speech Synthesis Markup Language, and extracting data from a custom form. For any given complex data set, data analysis is to identify, analyze, and interpret trends or patterns which is helpful in filtering and cleaning data. Data Science is a multidisciplinary approach that combines principles and practices from the fields of mathematics, statistics, artificial intelligence, and computer engineering to analyze large amounts of data. This course builds confidence in using Python, preparing participants for more advanced study in Machine Learning, Artificial Intelligence, and Data Science.

Course Contents

This program will focus on picking the right complexity, preventing overfitting, regularization, assessing uncertainty, weighing trade-offs, and model evaluation.

The major topics to be covered are:

- ✓ Analyze images with Azure AI Vision
- ✓ Use the Read API
- ✓ Use patterns to differentiate similar utterances
- ✓ Analyze a document using Azure AI Document.
- ✓ Construct code from natural language.

Course Objectives

- ✓ As a refreshment program for faculty to enhance their skills in Azure AI
- ✓ Faculty are trained to develop in-house projects.
- ✓ To gain knowledge of how to do data predictions and analyze the predicted data.



Faculty Development Program

Program Schedule

Microsoft Azure AI Engineer Associate

1	Get started with Azure AI	Subtopic Define Artificial intelligence and AI related terms	Methodology
1		ŭ	4
1		Create and consume Azure AI services	L
			Lecture, Discussion
	Services	Provide Azure AI service resources, use rest API and SDK	
		Lab: Use Azure AI services	Hands on
		Consider Authentication, Implementing network security	Lecture, Discussion
	Azure AI Services, Security, Containers	Exercise: Manage Azure AI Services security	Hands on
		Introduction Monitor cost, Create alerts, view Metrics,	
		Manage diagnostic logging	Lecture, Discussion
2		Lab: Monitor Azure AI services	Hands on
		Lab. Monitor Azure Ar services	rialius oli
		Understanding Container, Use Azure AI services containers	Lecture, Discussion
		Lab Use a Container	I I and a an
	Create computer vision solutions with Azure AI Vision	Lab Ose a Container	Hands on Lecture, Demonstration,
		Provision Azure AI vision resources, Analyse an	Lecture, Demonstration,
		Lab: Analyze images with Azure AI Vision	Hands on
		Identify options for face detection analysis and	Lecture, Demonstration,
		racinary opinions for face detection analysis and	Bectare, Bemensaanen,
3		Exercise - Detect, analyze, and identify faces	Hands on
		Explore Azure AI Vision options for reading text	
		Use the Read API, Exercise - Read text in images,	
		Understand Azure Video Indexer capabilities	
		Use Video Analyzer widgets and APIs	
		Lab - Analyze video	Hands on
		Provision an Azure AI Language resource	1 milus Oii
		Detect language, extract key phrases, Analyze sentiment,	
4		gaage, endacency phrases, rularyze sendificiti,	
		Lab: Analyst text	Hands on
		Compare question answering to Azure AI Language understa	
		Understand resources for building a conversational language Improve question answering performance	understanding model
		Lab - Create a question answering solution	Hands on
		Define intents, utterances, and entities	Lecture, Demonstration, Hand
		Use patterns to differentiate similar utterances	Bectare, Bemensuaren, Tame
		Train, test, publish, and review a conversational language	
		Lab - Build an Azure AI services conversational language	Hands on
_		Understand language detection, translation, and	Lecture, Demonstration
5		Define custom translations Lab - Translate text with the Azure AI Translator service	Hands on
		Use the Azure AI Speech to Text API	Lecture, Demonstration
		Configure audio format and voices	Ecoure, Bomensuumen
		Use Speech Synthesis Markup Language	
		Exercise - Create a speech-enabled app	Hands on
		Provision an Azure resource for speech translation	Lecture, Demonstration, Hand
		Translate speech to text	
		Synthesize translations, Lab: Translate speech	Hands on
		Create an Azure AI Search solution	Lecture, Demonstration, Hand
		Understand search components	Lectare, Demonstration, Hand
	Implement knowledge	Understand the indexing process	
6	mining with Azure AI Search	Lab - Create a search solution	Hands on
		Create a custom skill	Lecture, Demonstration, Hand
		Add a custom skill to a skillset	Handa an
		Lab - Implement a custom skill Plan an Azure AI Document Intelligence solution	Hands on Lecture, Demonstration, Hand
	Develop solutions with Azure AI Document Intelligence	Lab - Analyze a document using Azure AI Document	Lectare, Demonstration, Hand
		Get started with Azure Document Intelligence	Lecture, Demonstration, Hand
7		Lab - Extract data from custom forms	, , , _ , _ , _ , _ , _ , _ , _
			T
		Get started with Azure OpenAI Service	Lecture, Demonstration, Hand
		Use prompts to get completions from models	
	Develop Generative AI	Test models in Azure AI Studio's playground	
		Lab - Get started with Azure OpenAI Service	
		Write more effective prompts	Lecture, Demonstration, Hand
		Lab - Utilize prompt engineering in your application	
		Construct code from natural language	Lecture, Demonstration, Hand
8		Complete code and assist the development process	
U		Lab- Generate and improve code with Azure OpenAI	Hands on
	Service	Service	
		Explore DALL-E in Azure AI Studio	Lecture, Demonstration, Hand
		Use the Azure OpenAI REST API to consume DALL-E	
		models	
		Lab - Generate images with a DALL-E model	Hands on

The course is designed to provide knowledge on Microsoft Azure with AI, AI Services, Security, Containers, AI Vision, NLP Solutions with AI Services, Develop AI Document Intelligence and Open AI Service.

Outcome: Illustrate different concepts of Services in Azure AI.

Hardware Requirements

- i3 or above Processor is required.
- 4 GB or above RAM is recommended.
- Good Internet Connectivity
- OS Windows 10 is Preferable
- Projector



Faculty Development Program Poster



FDP Participation List

1 Pillala Sathish AVN Institute of Engineering and Technology, Ibrahimpatnam 2 Ramavath Ramesh AVN Institute of Engineering and Technology, Ibrahimpatnam 3 Dr K Srinivas BJR Government Degree College, Nampally 4 P Sathya Narayana Reddy BJR Government Degree College, Nampally 5 D.Chaithanya CVR College of Engineering, Ibrahimpatnam 6 S Bhargav CVR College of Engineering, Ibrahimpatnam 7 D. S. V. Jyothi Gethanjali College of Engineering and Technology, Keesara Mandal 8 P. Sobharani Geethanjali College of Engineering and Technology, Keesara Mandal 9 Dr. K. Rameshwaraiah Nalla Narasimha Reddy Group of Institutions 10 Dr. K. Srinivas Babu Nalla Narasimha Reddy Group of Institutions 11 Dr. N. Ravi Shankar Nalla Narasimha Reddy Group of Institutions 12 Dr. S. Sree Hari Raju Nalla Narasimha Reddy Group of Institutions 13 Dr. Santhosh Kumar Medishetti Nalla Narasimha Reddy Group of Institutions 14 Mr. J. Pavan Kumar Nalla Narasimha Reddy Group of Institutions 15 Mr. Mattepalli Praneeth Kumar Nalla Narasimha Reddy Group of Institutions 16 Mr. Murthujavali.B Nalla Narasimha Reddy Group of Institutions 17 Mr. S. Sridhar Reddy Nalla Narasimha Reddy Group of Institutions 18 Mr. S. Sridhar Reddy Nalla Narasimha Reddy Group of Institutions 19 Mr. Tadi UdayaKiran Nalla Narasimha Reddy Group of Institutions 20 Ms. Ch. Ramya Nalla Narasimha Reddy Group of Institutions 21 Ms. G. Jyothi Nalla Narasimha Reddy Group of Institutions 22 Ms. M. Revathi Nalla Narasimha Reddy Group of Institutions 23 Shaik Feroz Nalla Narasimha Reddy Group of Institutions 24 Dr Shoban Mude Narsimha Reddy Engineering College, Medchal Mandal 25 Mr E Gangaram Narismha Reddy Engineering College, Medchal Mandal 26 Bandam Naresh Pallavi Engineering College for Women, Hyderabad 27 Humers fatima Priyanka Degree & PG College for Women, Hyderabad 28 Meher Sultana Priyanka Degree Med Goven Management and Commerce, Hyderabad 39 Sanssa Begum Rukmini College of Management and Technology for Women	SL No	Faculty Name	College Name
3 Dr K Srinivas BJR Government Degree College, Nampally 4 P Sathya Narayana Reddy BJR Government Degree College, Nampally 5 D.Chaithanya CVR College of Engineering, Ibrahimpatnam CVR College of Engineering, Ibrahimpatnam 7 D. S. V. Jyothi Geethanjali College of Engineering and Technology, Keesara Mandal 8 P. Sobharani Geethanjali College of Engineering and Technology, Keesara Mandal 9 Dr. K. Rameshwaraiah Nalla Narasimha Reddy Group of Institutions 10 Dr. K. Srinivas Babu Nalla Narasimha Reddy Group of Institutions 11 Dr. N. Ravi Shankar Nalla Narasimha Reddy Group of Institutions 12 Dr. S. Sree Hari Raju Nalla Narasimha Reddy Group of Institutions Nalla Narasimha Redd	1	Pillala Sathish	AVN Institute of Engineering and Technology, Ibrahimpatnam
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30 Samsa Begum Rukmini College of Management and Commerce, Hyderabad 31 B Sangeetha Vignan's Institute of Management and Technology for Women	28	Meher Sultana	Priyanka Degree & PG College for Women, Hyderabad
31 B Sangeetha Vignan's Institute of Management and Technology for Women	29	Saleem Unnisa	Rukmini College of Management and Commerce, Hyderabad
	30	Samsa Begum	Rukmini College of Management and Commerce, Hyderabad
32 N.Sreeja Vignan's Institute of Management and Technology for Women	31	B Sangeetha	Vignan's Institute of Management and Technology for Women
	32	N.Sreeja	Vignan's Institute of Management and Technology for Women



Date: 14-08-2025

Academic Year: 2025-2026

Activity: Faculty Development Program on "Microsoft Azure AI Engineer Associate"

Consolidated Report

As per the schedule in the department's academic plan, an FDP on "Microsoft Azure AI Engineer Associate" was conducted from 04-08-2025 to 08-08-2025 for faculty members. A total of 32 faculty members have actively participated in the Faculty Development Program, with 15 faculty from the host institute and the remaining 17 members from other colleges. S. Gopinath, Senior Technical Trainer, ICT Academy, Tamil Nadu, is the resource person for the FDP.

<u>Day 1 (07-08-2023):</u> Inauguration of the FDP started at 09:30 AM, *Dr. K. Rameshwaraiah – Convener* & *Head CSE*, started with a Keynote address by saying the importance of technology in day-to-day life and since we are in the teaching profession, how we need to update our knowledge with the latest technology and make the students practice with the technology, so that, they can be ready for industry requirements.

Mr. Gouse Pasha, Relationship manager, ICT Academy, gave a glimpse about ICT Academy, when & where started, and what services it is providing for Educational Institutes across the country.

Ms. S. Radhika then read the trainer profile of *Mr. S. Gopinath*, Senior Technical Trainer, ICT Academy followed by starting the session.

The trainer continued with the session topic of AI Fundamentals, Get started with Azure AI Services – Create and consume Azure AI services, provide Azure AI service resources, use the REST API and SDK, and Lab: Use Azure AI services.



NALLA NARASIMHA REDDY Education Society's Group of Institutions - Integrated Campus (UGC AUTONOMOUS INSTITUTION)











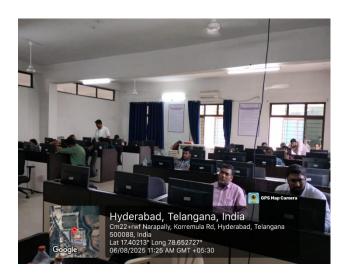
<u>Day 2 (05-08-2025):</u> The trainer revised the previous day's topic and continued with the Day 2 session with the topics of Create computer vision solutions with Azure AI Vision – Identify options for face detection analysis. Exercise – Detect, Analyze, and Identify faces and so on.







<u>Day 3 (06-08-2025):</u> The trainer revised the previous day's topic and continued with the Day 3 session with the topics of Develop Natural Language Processing Solutions with Azure AI Services – Understand resources for building a conversational language. Lab _ Create a question answering solution and so on.





<u>Day 4 (07-08-2025):</u> The trainer revised the previous day's topic and continued with the Day 4 session with the topics of Implement knowledge mining with Azure AI Search solutions, understanding search components, and understanding the indexing process. Lab – Create a search problem and so on.





<u>Day 5 (08-08-2025):</u> The trainer revised the previous day's topic and continued with the Day 5 session with the topics of Develop Generative AI solutions with Azure Open AI Service. Lab – Get started with Azure OpenAI service and so on.



VALEDICTORY PHOTOS





Dr. K. Rameshwaraiah, Convener & Head-CSE, concluded the FDP by giving a glimpse of 5-days session

Participation Certificates

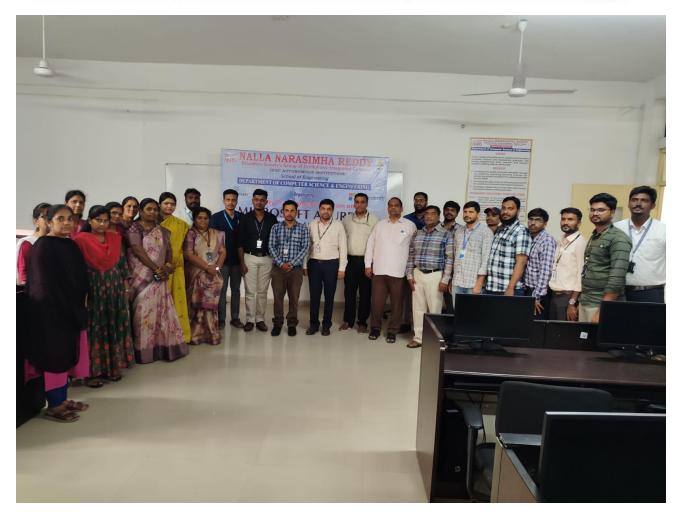












Participants Group Photo

Faculty Coordinator

Head-CSE

B.H