Date: 19-07-2025

CIRCULAR

This is to inform all students that the "AZURE CLOUD DATA ENGINEER" guest lecture by Mr. Ch. Karunakar (Lead Data Engineer at Effigent Solutions) is organized by the Department of Information Technology and CSE-Cybersecurity will be held online on 19-07-2025.

All the students are requested to actively participate in the session using their names along with their roll numbers.

Event Coordinator

Mr. M Manishankar

HOD – CS

Mrs. T Ganga Bhavani

HOD IT

G. Satya Mohan Chowdary

Student Coordinators:
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V Sudheeksha (III IT - 23A31A1230)
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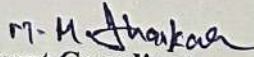D Nikesh (III IT – 23A31A1235)

PRAGATI ENGINEERING COLLEGE
(AUTONOMOUS)
DEPARTMENT OF INFORMATION TECHNOLOGY

GUEST LECTURE

DATE: 19-07-2025
TIME: 10:30A.M TO 12:00 P.M

Here is the official poster of our Event:

DEPARTMENT OF INFORMATION TECHNOLOGY &
CYBER SECURITY

Organizes a Guest Lecture on

"Azure Cloud Data Engineering"

by

Mr. Ch. KARUNAKAR,

B.Tech., M.Tech., (Ph.D.)

Lead Data Engineer,
Effigent Solutions.

Date: 19-07-2025

Venue: Conference Hall & IT Laboratory

Pragati Engineering College
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REPORT

GUEST INTRODUCTION:

We had the privilege of hosting Mr. Ch. Karunakar as the esteemed guest speaker for the guest lecture on "Azure Cloud Data Engineering," organized by the Department of Information Technology & Cyber Security, Pragati Engineering College, on 19th July 2025.

Mr. Karunakar holds multiple academic qualifications including BTech., MTech., and is currently pursuing Ph.D. He is a Lead Data Engineer at Effigent Solutions, a reputed company known for its innovative work in cloud technologies and enterprise solutions.

With vast experience in cloud platforms, especially Microsoft Azure, Mr. Karunakar shared valuable insights into the field of Data Engineering in the Cloud, covering real-time applications, career opportunities, architecture, and the latest trends in Azure services. His session was highly informative and interactive, catering especially to students aspiring for careers in cloud computing and data engineering.

"Key Learnings from the Session":

During the session, Mr. Ch. Karunakar provided an insightful overview of how different tools and roles fit into the world of cloud data engineering.

He started by explaining the role of a Business Analyst, who acts as a link between business and technology teams by analysing data, identifying trends, and helping in decision-making using tools like Excel and SQL.

He stressed the importance of SQL as a fundamental skill for anyone working with data, since it is used to query, update, and manage large databases.

Tools like Excel are still widely used in companies for quick reporting, data analysis, and dashboarding. Moving forward, sir introduced Azure, a leading cloud platform by Microsoft, and explained how students can use services like Azure Data Factory, Databricks, and Synapse Analytics to build real-time data pipelines and process big data efficiently.

He also touched upon AWS, another cloud platform similar to Azure, and explained how both platforms are used in the industry, with Azure being easier for students already using Microsoft tools.

Sir gave an introduction to Apache Spark, an open-source engine used for big data processing, and explained how it's integrated into platforms like Azure Databricks for scalable and fast computation.

He also explained the ETL (Extract, Transform, Load) process, which is a key workflow in data engineering used to pull raw data, clean it, and store it in usable formats. Overall, the session helped students understand how all these technologies—SQL, Excel, Azure, AWS, Spark, ETL, and Databricks—come together in real-time projects and the kind of skills required to succeed in the data engineering field.

QUESTION AND ANSWERS SESSION:

Q1: What is the difference between AWS and Azure? Which one is better for beginners?

Answer:

AWS and Azure are both top cloud platforms. AWS is older with a bigger market share, but Azure integrates better with Microsoft tools. For beginners, Azure is slightly easier to start with, especially if you are used to Windows and Office environments.

Q2: How can students get internships and real-time projects related to Azure Cloud?

Answer:

Students can explore Microsoft Learn, LinkedIn, Internshala, and GitHub to find internships and contribute to real projects. Participating in hackathons, open-source communities, and showcasing mini-projects online increases chances of getting opportunities.

Q3: Suggest some beginner-friendly projects.

Answer:

Start with simple projects like deploying a static website on Azure, creating a chatbot, building a basic data

pipeline using Azure Data Factory, or using Azure Functions. These projects are easy and give hands-on experience with core services.

Q4: What are the roles that cannot be replaced by AI?

Answer:

AI cannot replace jobs that need human thinking, creativity, or empathy. Roles like Cloud Architect, Project Manager, Cybersecurity Analyst, and Business Analyst involve decision-making and problem-solving which AI cannot fully replicate.

Q5: What certifications would you recommend for students in Azure?

Answer:

Begin with Azure Fundamentals (AZ-900) for basics, then go for Azure Data Engineer Associate (DP-203). These are valuable for students aiming for cloud and data roles. Use Microsoft Learn for free, guided learning paths.

CONCLUSION;

In his concluding remarks, Mr. Ch. Karunakar encouraged students to stay updated with the latest cloud technologies and emphasized the growing demand for skilled professionals in Cloud Data Engineering. He advised students to focus on building strong fundamentals in databases, data pipelines, and cloud platforms like Azure.

He also highlighted the importance of earning global certifications such as Microsoft Certified: Azure Data Engineer Associate, which can significantly boost their employability. Mr. Karunakar motivated students to take advantage of free learning resources, participate in internships, and work on mini-projects to gain practical experience.

He concluded the session by assuring students that with consistent effort and the right guidance, excelling in cloud computing and data engineering is well within reach.

Message from Mr. Ch. Karunakar to Students:

"The future belongs to those who adapt quickly to technological advancements. Cloud computing is not just a trend—it is the backbone of modern IT infrastructure. I encourage each one of you to start early, explore platforms like Azure, and work on small real-time projects. Focus on understanding core concepts, and do not just chase certificates—chase knowledge. Build a strong technical foundation, stay curious, and never hesitate to experiment and learn from failures. Remember, consistency is more important than talent. All the best for your bright future!"

— Mr. Ch. Karunakar
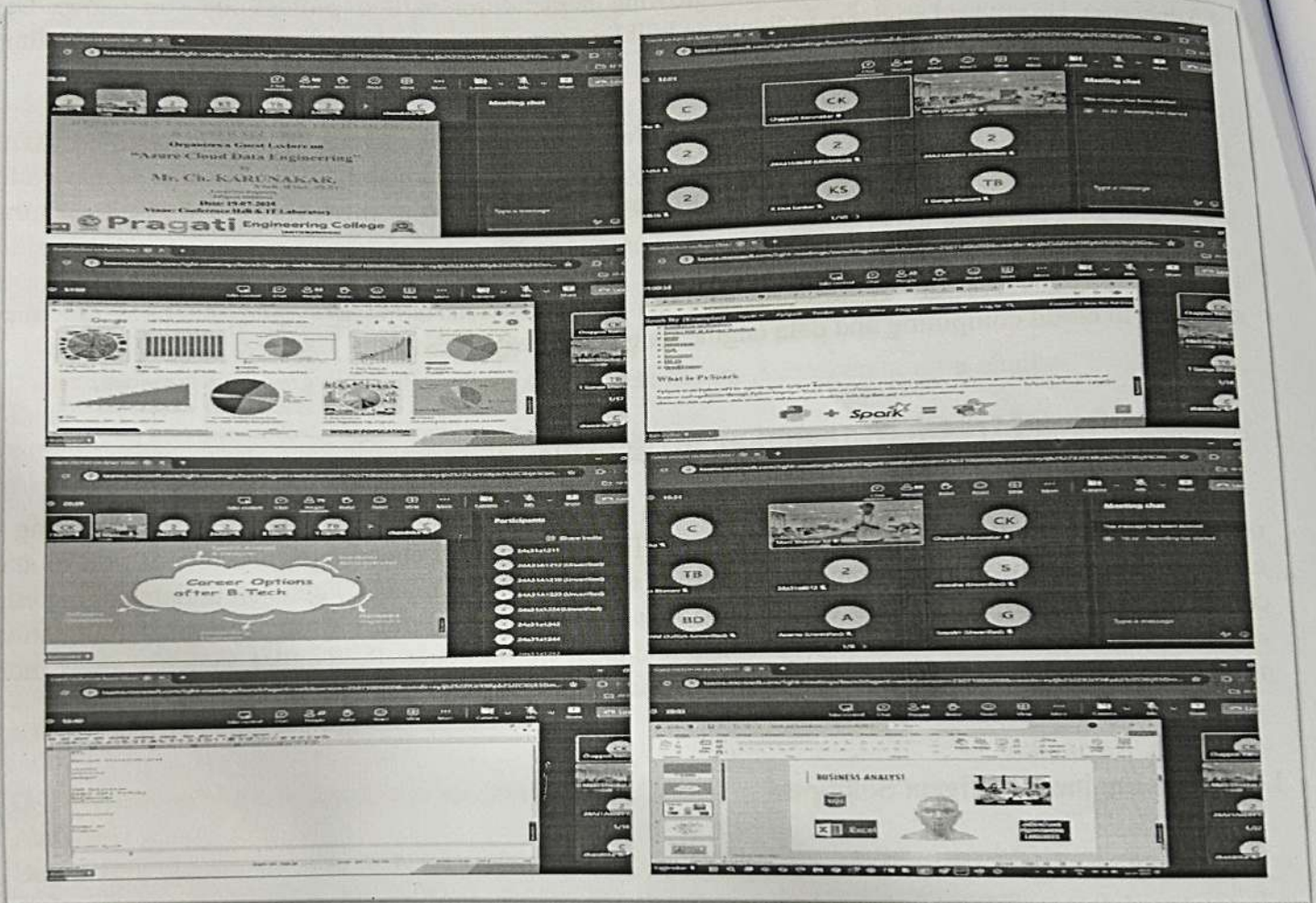Lead Data Engineer, Effigent Solutions

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SESSION IMAGES:

Live coding demonstrations using Python (likely related to data processing).

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GPS Images while Resource person delivering a presentation using digital slides.

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We collected feedback from all the students via online. We have designed a feedback form for this. Student's feedback on the event is present below:

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Excellent	39
Good	40
Average	09
Total	88