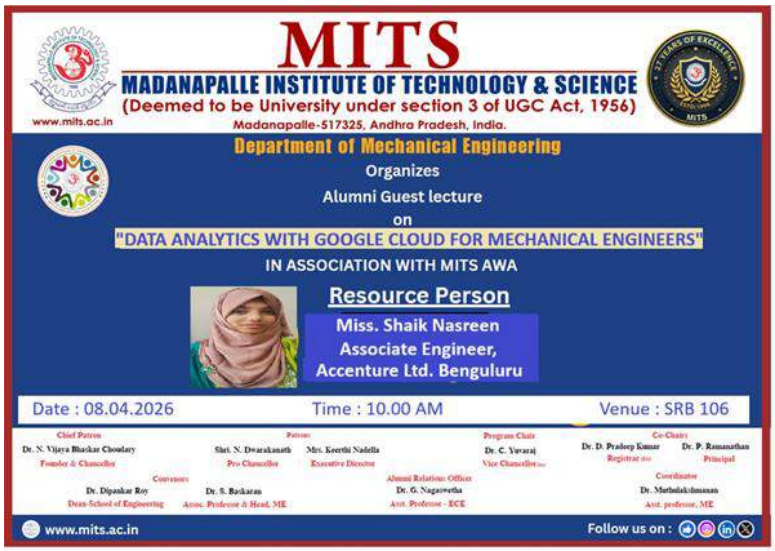
# A Report on Alumni Guest Lecture on "Data Analytics with Google cloud for Mechanical Engineers" Organized by Department of Mechanical Engineering on 08.04.2026.



**Report Submitted by: Dr. Muthu Lakshmanan, Assistant Professor, Department of Mechanical Engineering**
**Resource Person Details: Miss. Nasreen, Associate Engineer at Accenture Pvt. Ltd., Bengaluru.**
**Mode of Conduct: Offline**
**Report Received on 10.04.2026**

## 1. Introduction

The Department of Mechanical Engineering organized an insightful Alumni Guest Lecture on 08th April 2026. The session was delivered by **Miss. Nasreen,** a distinguished alumni currently working as an **Associate Engineer at Accenture Pvt. Ltd.,** Bengaluru.

The lecture was conducted for third-year Mechanical Engineering students, with the aim of creating awareness about emerging career opportunities in cloud computing and data analysis, especially for students from core engineering backgrounds.
The program was coordinated by Dr. Muthu Lakshmanan, who warmly welcomed the speaker and introduced her academic background and professional achievements. The session concluded with appreciation remarks by Dr. Baskaran, Head of the Department, along with faculty members including Mr. Manojkumar and Mr. Rizwan Ali, who acknowledged the value of the session.

## 2. Objectives of the Guest Lecture

The primary objectives of organizing this Alumni Guest Lecture were:

- To introduce students to cloud computing and data analysis concepts.
- To highlight career opportunities for Mechanical Engineers in IT and data-driven industries.
- To provide a step-by-step understanding of how to transition from core engineering to emerging technology domains.
- To motivate students to enhance their technical and analytical skills.
- To strengthen alumni interaction and expose students to real-world career pathways.

## 3. Proceedings of the Event

The event commenced at 10:00 AM in the west block (SRB) 106 with the presence of students, faculty members, and the Head of the Department.

3.1 Welcome Address and Introduction

The session began with a warm welcome by Dr. Muthu Lakshmanan, who greeted the speaker and participants. He emphasized the importance of alumni engagement in providing students with industry insights and career guidance. He then introduced Miss. Nasreen, highlighting her journey from a Mechanical Engineering graduate to a successful Associate Engineer at Accenture Pvt. Ltd., Bengaluru, working in the domain of cloud technologies and data analysis.

3.2 Guest Lecture by Miss. Nasreen

Miss. Nasreen began her lecture by sharing her personal journey, explaining how she transitioned from a core mechanical background to the field of cloud computing and data analytics. She motivated students by emphasizing that with the right mindset and skill development, engineers can explore diverse career paths.
Her lecture covered the following key topics:
a. Introduction to Cloud Computing

- Explanation of cloud computing concepts and services.
- Overview of platforms such as AWS, Microsoft Azure, and Google Cloud.
- Importance of cloud infrastructure in modern industries.

b. Data Analysis and Its Importance

- Role of data analysis in decision-making processes.
- Use of data in industries such as manufacturing, automotive, and supply chain management.
- Introduction to tools like Excel, Power BI, Python, and SQL.

c. Opportunities for Mechanical Engineers
Miss. Nasreen highlighted how mechanical engineers can explore roles such as:

- Data Analyst
- Cloud Support Engineer
- Business Analyst
- Data Engineer

She explained that industries are increasingly looking for engineers who can combine technical knowledge with data-driven decision-making skills.
d. Step-by-Step Career Path
She provided a clear roadmap for students:

1. Learn basic programming (Python or Java).
2. Understand fundamentals of data analysis and databases.
3. Gain knowledge of cloud platforms (AWS/Azure).
4. Work on mini projects and certifications.
5. Apply for internships and entry-level IT roles.

She emphasized continuous learning, consistency, and building a strong portfolio.
e. Real-Time Industry Insights
Miss. Nasreen shared real-world examples from her work at Accenture, explaining how cloud computing is used to manage large-scale data systems and improve efficiency in organizations.

### 3.3 Interactive Session

The session included an engaging interactive segment where students actively participated and raised questions regarding:

- Transitioning from mechanical to IT fields
- Required certifications and courses
- Job opportunities and salary expectations
- Challenges faced in the IT industry

Miss. Nasreen responded to all queries with practical suggestions and encouraged students to start learning early and stay updated with industry trends.

### 3.4 Appreciation and Vote of Thanks

At the end of the session, Dr. Baskaran, Head of the Department, expressed his sincere appreciation for the speaker's informative and inspiring lecture. He emphasized the importance of adapting to modern technological advancements.
Faculty members, including Mr. Manojkumar and Mr. Rizwan Ali, also appreciated the speaker for sharing her valuable experiences and motivating students to explore new career opportunities. The session concluded with a vote of thanks.

## 4. Outcomes and Key Takeaways

The Alumni Guest Lecture had a significant impact on the students. The key takeaways include:

- Students gained awareness about cloud computing and data analysis fields.
- They understood that mechanical engineers can successfully transition into IT careers.
- The session provided a clear roadmap for skill development and career planning.
- Students were motivated to learn programming, data tools, and cloud technologies.
- The interactive session helped clarify doubts and build confidence among students.

## 5. Conclusion

The Alumni Guest Lecture delivered by Miss. Nasreen was highly informative, inspiring, and beneficial for second-year and third-year Mechanical Engineering students. The session successfully highlighted the growing importance of cloud computing and data analysis in modern industries and demonstrated how mechanical engineers can take advantage of these opportunities. The event served as a valuable platform for students to gain industry insights and explore interdisciplinary career paths. It also strengthened the connection between alumni and the institution.

The Department of Mechanical Engineering extends its heartfelt gratitude to Miss. Nasreen for her valuable time and contribution. Special thanks are also extended to Dr. Muthu Lakshmanan, Dr. Baskaran, and faculty members including Mr. Manojkumar and Mr. Rizwan Ali for their support in organizing the event. The lecture concluded on a motivating note, encouraging students to up skill themselves and prepare for future challenges in a rapidly evolving technological world.