

Guest Lecture Report

Guest Lecture on

Software Engineering: Agile Methodology and Data in Day-to-Day Life

Date: 30 October 2025

Time: 11:00 AM – 1:00 PM

Mode: Offline

Venue: Room 408

Target Audience: Third Year Computer Science and Engineering (TE CSE) and Open Elective (Data Science & AI/ML) Students

No of students: 140

Resource Person

Mr. Benson Corrier

Industry Expert

Faculty Coordinator

Ms. Swati Vyas

Assistant Professor, Department of Computer Science and Engineering

Objective of the Guest Lecture

The Department of Computer Science and Engineering organized an expert guest lecture on **"Software Engineering: Agile Methodology and Data in Day-to-Day Life"** to provide students with exposure to modern software development methodologies and the growing significance of data analytics in today's digital world. The session aimed to bridge the gap between academic concepts and industry practices by introducing Agile software development and demonstrating how data visualization tools support informed decision-making.

Session Highlights

The session commenced with an insightful discussion on **Agile Methodology**, where Mr. Benson Corrier explained the need for Agile in today's fast-paced software industry. He highlighted the limitations of traditional software development models and demonstrated how

Agile enables organizations to deliver high-quality software through iterative development, continuous feedback, and close collaboration among stakeholders.

The following Agile concepts were covered in detail:

- Agile Manifesto and its core values and principles
- Scrum framework and Agile team structure
- Roles of Product Owner, Scrum Master, and Development Team
- Sprint planning, daily stand-up meetings, sprint reviews, and retrospectives
- Product Backlog and Sprint Backlog management
- Continuous Integration and Continuous Delivery (CI/CD)
- Benefits of Agile in improving software quality, customer satisfaction, and project adaptability

The second part of the lecture focused on **"Data in Day-to-Day Life"**, where the speaker explained how data has become an integral part of modern living. Students learned how data is generated continuously through mobile applications, e-commerce platforms, social media, healthcare systems, digital payments, transportation services, and smart devices.

Mr. Corrier discussed how organizations analyze this data to:

- Understand customer behaviour and preferences
- Make informed business decisions
- Predict future trends through analytics
- Improve operational efficiency
- Build Artificial Intelligence and Machine Learning applications
- Deliver personalized user experiences

A major highlight of the session was the **live demonstration of Microsoft Power BI**. The resource person introduced students to Power BI as a powerful Business Intelligence and Data Visualization tool widely used in industries for data analysis and reporting.

During the demonstration, students learned:

- Importing datasets into Power BI
- Cleaning and transforming data using Power Query
- Creating interactive dashboards and reports
- Developing charts, graphs, KPIs, and slicers for data visualization
- Establishing relationships between datasets
- Extracting meaningful insights from raw data
- Using dashboards to support business intelligence and data-driven decision-making

The live demonstration illustrated how raw datasets can be transformed into interactive dashboards, enabling organizations to monitor key performance indicators, identify trends, and make informed strategic decisions. Students gained practical exposure to an industry-standard

analytics platform and understood its applications in Software Engineering, Business Intelligence, and Data Science.

The speaker also emphasized the importance of data ethics, privacy, and responsible data usage, encouraging students to handle data securely and ethically in professional environments.

Student Interaction

The lecture was highly interactive, with students actively participating in discussions and asking questions related to:

- Agile implementation in software development companies
- Career opportunities in Agile project management
- Scrum roles and certifications
- Practical applications of Power BI in industry
- Business Intelligence and data visualization
- Future prospects in Artificial Intelligence, Machine Learning, and Data Science

Mr. Corrier addressed students' queries with practical examples and shared valuable industry experiences, motivating them to continuously enhance their technical and analytical skills.

Learning Outcomes

At the end of the session, students were able to:

- Understand the principles and benefits of Agile Methodology.
- Explain the Scrum framework and Agile software development lifecycle.
- Appreciate the importance of teamwork, iterative development, and continuous improvement.
- Understand the significance of data in everyday life and organizational decision-making.
- Gain practical exposure to Microsoft Power BI for creating dashboards and visual reports.
- Interpret business data through effective visualization techniques.
- Recognize the importance of ethical and responsible data handling.
- Explore career opportunities in Software Engineering, Business Intelligence, Data Analytics, Artificial Intelligence, and Data Science.

Conclusion

The guest lecture was highly informative, engaging, and industry-oriented. Mr. Benson Corrier effectively blended theoretical concepts with practical demonstrations, helping students understand Agile software development practices and the importance of data analytics in

solving real-world problems. The live Power BI demonstration enriched the learning experience by introducing students to an industry-standard Business Intelligence tool. The session broadened students' understanding of emerging technologies and inspired them to develop skills aligned with current industry requirements.

The Department of Computer Science and Engineering expresses its sincere gratitude to **Mr. Benson Corrier** for delivering an insightful session and to **Ms. Swati Vyas**, Faculty Coordinator, for successfully organizing and coordinating the event.