



Department of Computer Science & Engineering

Date: 30/06/2026

Submitted,

Sub: Report on Five-Day Value-Added Course on "Data Science and Data Analytics" for Final Year CSE Students – Reg.

The Department of Computer Science and Engineering (CSE), Sri Sairam College of Engineering, Bengaluru, successfully organized a **Five-Day Value Added Course on " Data Science and Data Analytics "** for the **Final Year CSE students** through online mode from **24.06.2026 to 28.06.2026**.

The programme commenced with a welcome address by **Dr. Smitha J. A., Head of the Department of CSE**. The resource persons were introduced by **Dr. Karthika K., ASP/CSE**. The event was coordinated by **Dr. Karthika K, ASP/CSE, Dr. V. Yamuna, ASP/CSE, and Mrs. Nagaveni B. R., AP/CSE**.

The resource persons for the five-day programme were:

- **Day 1: Dr. A. Mahesh**, Professor, Department of Computer Science and Engineering, Sri Sairam College of Engineering, Bengaluru.
- **Day 2: Mrs. Amsa Lakshmi M.**, Assistant Professor, Department of Computer Science and Engineering, Sri Sairam College of Engineering, Bengaluru.
- **Day 3: Mrs. Nithya Kalyani T.**, Assistant Professor, Department of Computer Science and Engineering, Sri Sairam College of Engineering, Bengaluru.
- **Day 4: Mrs. Rizvana M.**, Assistant Professor, Department of Computer Science and Engineering, Sri Sairam College of Engineering, Bengaluru.
- **Day 5: Mrs. Aparna M.**, Assistant Professor, Department of Computer Science and Engineering, Dayananda Sagar College of Engineering, Bengaluru.

INTRODUCTION

The Department of Computer Science and Engineering organized the **Five-Day Value Added Course on " Data Science and Data Analytics "** exclusively for the **Final Year CSE students** through online mode. The programme was designed to strengthen students' technical



Department of Computer Science & Engineering competencies and enhance their industry readiness by providing comprehensive knowledge of data analytics, business intelligence, machine learning, and emerging AI technologies through interactive online sessions and hands-on demonstrations using Python, Pandas, Tableau and Power BI.

Objectives of the Value Added Course

- To introduce Final Year CSE students to the fundamentals of Data Science and Data Analytics.
- To provide practical exposure to data collection, preprocessing, and exploratory data analysis using Python and Pandas through online demonstrations.
- To develop skills in creating interactive dashboards using Tableau and Microsoft Power BI.
- To familiarize students with Machine Learning concepts and model development using Scikit-Learn.
- To prepare students for placements, higher education, internships, and industry projects in the domains of Data Science and Data Analytics.

Overview of the Sessions

Day 1 – Foundations of Data Science and Data Analytics

The first day's session was delivered by **Dr. A. Mahesh**, Professor, Department of Computer Science and Engineering, Sri Sairam College of Engineering. He introduced the fundamentals of Data Science and Data Analytics, explained the Data Science Lifecycle, different types of data and data sources, and provided an overview of Python programming basics required for data analytics.

Day 2 – Data Preparation and Analysis

The second day's session was handled by **Mrs. Amsa Lakshmi M.**, Assistant Professor, Department of Computer Science and Engineering, Sri Sairam College of Engineering. She explained data collection, data cleaning, data preprocessing using the Pandas library, Exploratory Data Analysis (EDA), and basic statistical analysis techniques with practical demonstrations.

Day 3 – Data Visualization and Business Intelligence



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The third day's session was conducted by **Mrs. Nithya Kalyani T.**, Assistant Professor, Department of Computer Science and Engineering, Sri Sairam College of Engineering. She introduced the principles of data visualization and demonstrated the use of Tableau and Microsoft Power BI for creating dashboards, reports, and interactive visualizations. Students also participated in hands-on activities using both tools.

Day 4 – Machine Learning for Data Analytics(27.06.26)

The fourth day's session was delivered by **Mrs. Rizvana M.**, Assistant Professor, Department of Computer Science and Engineering, Sri Sairam College of Engineering. She introduced the fundamentals of Machine Learning, including regression, classification, clustering techniques and model evaluation.

Day 5 – Industry Applications and Mini Project(28.06.26)

The final day's session was handled by **Mrs. Aparna M.**, Assistant Professor, Department of Computer Science and Engineering, Dayananda Sagar College of Engineering, Bengaluru. She discussed the applications of Data Analytics in Healthcare, Finance, Retail and Marketing, highlighted the role of Artificial Intelligence (AI) and Generative AI in data analytics and explained various career opportunities in Data Analytics and Data Science. The programme concluded with a mini project using Tableau allowing students to apply the concepts learned throughout the course.

OUTCOME OF THE VALUE ADDED COURSE

The Five-Day Value Added Course conducted through online mode significantly enhanced the technical knowledge and practical skills of the Final Year CSE students. Participants gained hands-on experience in Python programming, data preprocessing, exploratory data analysis, business intelligence tools, dashboard development, and machine learning.

CONCLUSION

The Five-Day Value Added Course on "**Data Analytics and Data Science**", conducted through online mode, was highly informative and beneficial for the Final Year CSE students. The programme successfully bridged the gap between academic learning and industry expectations by combining theoretical concepts with practical online demonstrations and hands-on activities. It motivated students to explore advanced technologies in Data Science, Artificial Intelligence and Business Intelligence while enhancing their employability skills.



