



Vishnu Waman Thakur Charitable Trust's
VIVA INSTITUTE OF TECHNOLOGY

APPROVED BY AICTE, NEW DELHI, DTE, GOVT. OF MAHARASHTRA AND AFFILIATED TO THE
UNIVERSITY OF MUMBAI

At. Shirgaon, Post Virar, Tal. Vasai, Dist. Palghar - 401305 Tel: 7770002544 Website: www.viva-technology.org

NAAC ACREDITATE WITH GRADE B++

Department of Mechanical Engineering, Department of Computer Engineering, Department of Computer
Science Engineering (AI & ML), Department of MCA, VIVA Institute of Technology, Virar (E)

Topic Name:	AICTE-ISTE Approved One week Short Term Training Program on “Application of Power BI, Tableau & Advanced Excel in Engineering”
Name of the Guest Speakers:	Mr. Ashish Shetty, Ms. Esha Prakash, Mr. Shoeb Shaikh, Mr. Ketan Rabhadia
Date:	24 th June – 29 th June 2024
Time:	09.30 am to 4.00 pm

Programme Summary/Details:

The AICTE-ISTE Approved One Week Short Term Training Program on “Application of Power BI, Tableau & Advanced Excel in Engineering” organized by the Department of Mechanical Engineering, Department of Computer Engineering, Department of Computer Science Engineering (AI & ML), Department of MCA, VIVA Institute of Technology, Virar (E) was a comprehensive course on the growing field of Data Analytics, Data Science and Presentation. The workshop brought together researchers, academic experts, engineers & scientists from industry and R&D institutes to discuss the application of Power BI, Tableau & Advanced Excel in Engineering.

The first day of the training program commenced with an introduction to Power BI, a powerful business analytics tool by Microsoft. The session aimed to familiarize participants with the basic concepts of Power BI and lay a foundation for subsequent learning in data manipulation, visualization, and reporting.

The second day of the training program delved deeper into Power BI with a focus on DAX, a formula language used to create custom calculations in Power BI. The day's sessions were structured around project-based learning, where participants applied DAX expressions to manipulate data and create interactive reports.

The third day of the training program introduced participants to Tableau, a leading data visualization and analytics tool. The sessions emphasized practical skills in creating compelling visualizations, interactive dashboards, and using data storytelling techniques to communicate insights effectively.

The fourth day of the training program aimed to deepen participants' understanding of Tableau by exploring advanced analytics capabilities. The sessions were designed to equip participants with skills in predictive analytics, statistical analysis, and advanced visualization techniques using Tableau.

The fifth day of the training program concentrated on Advanced Excel functions that are essential for performing complex calculations, data analysis, and enhancing productivity in engineering tasks. The sessions aimed to equip participants with practical skills in using functions such as IF, SUM, SUMIF, SUMIFS, COUNT, COUNTIF, COUNTIFS, VLOOKUP, HLOOKUP, INDEX, MATCH, INDEX & MATCH, IFERROR, and CHOOSE.



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The sixth day of the training program continued to deepen participants' expertise in Advanced Excel functions and tools crucial for manipulating, analyzing, and presenting engineering data effectively. The sessions encompassed a wide range of functions and techniques designed to enhance participants' proficiency in Excel for engineering applications.

In conclusion, the AICTE-ISTE Approved One Week Short Term Training Program on “Application of Power BI Tableau & Advanced Excel in Engineering” was an informative and practical course that provided participants with a comprehensive knowledge of Power BI, Tableau & Advanced Excel. The course provided the participants with a practical understanding of Power BI and lay a foundation for subsequent learning in data manipulation, visualization, and reporting. The STTP emphasized practical skills in creating compelling visualizations, interactive dashboards, and using data storytelling techniques to communicate insights effectively by using Tableau. Also the concentrated on Advanced Excel functions that are essential for performing complex calculations, data analysis, and enhancing productivity in engineering tasks .The course was beneficial for researchers, and professionals from the academic and industrial sectors who are interested in understanding the application of Power BI, Tableau & Advanced Excel in Engineering.

Photos:

