Vishnu Waman Thakur Charitable Trust's

VIVA Institute of Technology

Shirgaon, Virar (East), Tal: Vasai, Dist: Palghar-401305, Maharashtra.
Website: www.viva-technology.org

NAAC "B++" Grade

Department of Electronics and Telecommunication Engineering

Report on University of Mumbai and ISTE Approved One Week Short Term Training Program on

"Foundations of Computing and Data Analysis"

Organized by

Department of Electronics and Telecommunication Engineering and Department of Electrical Engineering

The objective of this one-week short term training program is to equip participants with essential knowledge and skills in computer science domains vital for their professional growth and academic enrichment. Through a comprehensive curriculum, participants will delve into foundational concepts of data analysis, networking fundamentals, cybersecurity, database management, and emerging technologies such as the Internet of Things (IoT). By fostering a supportive learning environment and providing hands-on experience, this program endeavors to cultivate a diverse community of educators equipped to navigate the evolving landscape of interdisciplinary engineering.

The program aims to bridge the gap between traditional engineering disciplines and modern computing paradigms, empowering participants to integrate computational techniques into their teaching, research, and industry collaborations effectively. Participants will emerge with a solid understanding of fundamental computer science principles and their applications.

Topics Covered in STTP on **"Foundations of Computing and Data Analysis"**

- Basics of Software Engineering
- Cybercrime and IT Act-2000
- Steganography & Wi-Fi security
- Data Analysis and Visualisation in Power Bi
- Computer Network Fundamentals
- Database Fundamentals
- Internet of Things (IoT) and Emerging Technologies

At the end of STTP participants are able to

- Knowledge of Software development life cycle and software design principles.
- In depth understanding of threats, vulnerabilities and common attacks.
- Learning tools and techniques applied to different network communication.

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The University of Mumbai introduced revised curriculum which includes, programing and software simulation in different subjects. As new developments are introducing in industry day by day demanding expertise in the field of software coding and programing language, it was felt necessary that the teaching faculty also become competent in the said technology. With keeping this as an intension the University of Mumbai and ISTE approved STTP was conducted from 6th May to 13th May, 2024 in Electronics and Telecommunication Engineering Department, VIVA Institute of Technology.

Details of the speakers is as under

SN.	Name of the Guest Speaker	Details of the Speaker	Topics Addressed	Date
1	Dr. Brijesh Joshi	Associate Professor, VIVA Institute of Technology	Basics of Software Computing	06/05/2024
2	Ms. Isha Prakash	Data Science Domain Expert, TESTRIQ QA LLP LAB,Mira Road	Data Analysis and Visualtisation In Power Bi	07/05/2024
3	Dr. Harshali Patil	Associate Professor, Somaiya Vidyavihar University, Mumbai	Cyber Security	08/05/2024
4	Mrs. Sonia Dubey	Assistant Professor, VIVA Institute of Technology	Computer Network Fundamentals	09/05/2024
5	Mr. Nirav Patel	Tarining & Development manager, Contentstack, RAW Engineering	IoT Emerging Technology and database Fundamentals	10/05/2024
6	Mrs. Kshitija Katare	General manager EDBA Academy	Industrial VISIT to EDBA Academy	13/05/2024

Participants were the teaching faculty of Engineering College. Total of 16 faculty members participated in the One Week Short Term Training Program conducted.

On the last day of STTP institute had received the feedbacks from the participants that they have learned and enhanced their knowledge in this STTP and they would always want to attend this kind of STTP in this institute once again. The overall feedback of the Training Program was encouraging and was highly rated by the participants.

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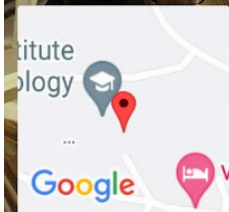**Day1: Basics of Software Computing - Dr. Brijesh Joshi**

Day 2: Data Analysis and Visualtisation In Power Bi - Ms. Esha Prakash

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Shirgaon, Virar (East), Tal: Vasai, Dist: Palghar-401305, Maharashtra.
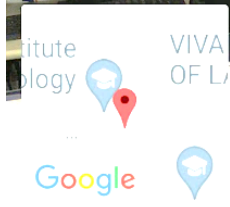Website: www.viva-technology.org

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Day 3: Cyber Security- Dr. Harshali Patil

Day 4: Computer Network Fundamentals- Mrs. Sonia Dubey

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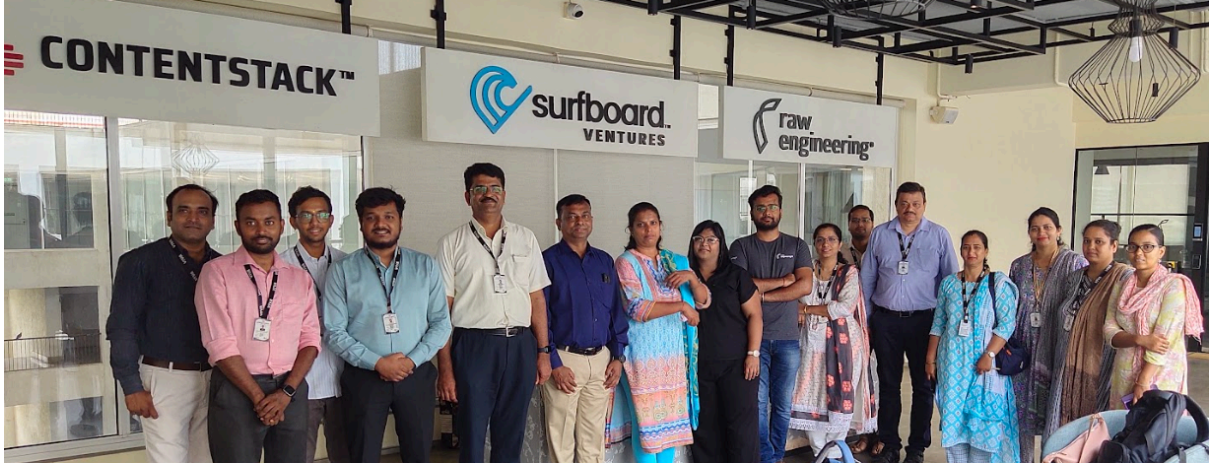**Day 5: IoT Emerging Technology and database Fundamentals- Mr. Nirav Patel**

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Day 6: Industrial Visit to EDBA Academy

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