



ST.XAVIER'S COLLEGE, MAPUSA GOA

Report of Activity conducted in the Academic Year 2024-25

Name of Activity	Value Added Course : "Introduction to Docker"
Date/Duration	30 th September 2024 - 5 th October 2024 / 8 Hours
Venue	CS Lab, St. Xavier's College
Name of organizing Department/Cell	Department of Computer Science IQAC, St. Xavier's College
In collaboration with	
Name/s of Faculty Coordinator	Mr. Edwin D'Souza, Associate Professor, Department of Computer Science
Stratum of Event	Department Level
Name & details of Resource Person/s	Mr. Tejas Lotlikar, Associate Software Engineer, Infuse Consulting
Report	Objectives: • Enhance technical skills: To equip participants with foundational knowledge of Docker, a powerful containerization platform for developing and deploying applications. • Foster innovation: To inspire students to explore innovative software development and deployment techniques. • Industry relevance: To align the workshop with industry standards and best practices, thereby enhancing students' employability. • Research and development: To stimulate research interest in containerization technologies and their applications. Description: The 8-hour Value-Added Course on "Introduction to Docker," conducted from September 30th to October 5th, 2024, by Mr. Tejas Lotlikar, Associate Software Engineer at Infuse Consulting, provided a

	comprehensive introduction to Docker. The session covered the following key topics: • Understanding Containerization: The core concepts of containerization and its benefits over traditional virtualization. • Docker Basics: Installation, Dockerfile creation, image building, and container management. • Docker Compose: Orchestrating multi-container applications and defining complex services. • Docker Networking: Understanding Docker's networking models and configuring network connectivity between containers. • Docker Security: Best practices for securing Docker images and containers. • Real-world Use Cases: Exploring practical applications of Docker in software development and deployment pipelines. Outcomes: The workshop successfully achieved its objectives by: • Skill enhancement: Participants gained a solid understanding of Docker concepts and practical skills to build, ship, and run applications efficiently. • Innovation: The session sparked creativity and encouraged students to explore innovative containerization-based solutions. • Industry relevance: The workshop aligned with industry trends and best practices, making participants more prepared for the job market. • Research and development: It fostered a research-oriented mindset, encouraging students to delve deeper into containerization technologies and their applications. The workshop was well-received by the participants, who appreciated the hands-on exercises, practical demonstrations, and expert guidance provided by Mr. Tejas Lotlikar. This initiative contributes to the college's commitment to providing quality education and fostering a culture of innovation and research. No. of beneficiaries : 10
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