



FDP: Faculty Development Program on Modern Application Lifecycle: From Architecture to Cloud Deployment

Name of College: A. P. Shah Institute of Technology, Kasarvadavali, Ghodbunder Road, Thane – 400615

Department: Information Technology & Computer Engineering

Date: 22/06/2026 to 27/06/2026

Participants: 55

Targeted Audience: Faculties

Speaker Details (Resource Person):

Day	Session	Resource Person	Designation & Organization	Session Topic
Day 1	Session 1	Dr. Kiran Deshpande	Head & Associate Professor, Department of Information Technology, A. P. Shah Institute of Technology, Thane	Linux Fundamentals & Networking Essentials
Day 2	Session 1	Dr. Harshali Bhuwad	Assistant Professor, Department of Computer Engineering, A. P. Shah Institute of Technology, Thane	Full-Stack Development Fundamentals & Local Application Hosting
Day 2	Session 2	Prof. Roshna Sangle	Assistant Professor, Department of Information Technology, A. P. Shah Institute of Technology, Thane	Full-Stack Development Fundamentals & Local Application Hosting
Day 2	Session 3	Prof. Randeep Kaur Kahlon	Assistant Professor, Department of Information Technology, A. P. Shah Institute of Technology, Thane	Full-Stack Development Fundamentals & Local Application Hosting
Day 2	Session 4	Prof. Shital Agrawal	Assistant Professor, Department of Information Technology, A. P. Shah Institute of Technology, Thane	Full-Stack Development Fundamentals & Local Application Hosting
Day 3	Session 1	Prof. Sujata Oak	Assistant Professor, Department of Information Technology, A. P. Shah Institute of Technology, Thane	DevOps Concepts & Modern Deployment Practices
Day 3	Session 2	Prof. Sonali Jain	Assistant Professor, Department of Information Technology, A. P. Shah Institute of Technology, Thane	DevOps Concepts & Modern Deployment Practices
Day 3	Session 3	Prof. Deepali Kayande	Assistant Professor, Department of Computer Engineering, A. P. Shah Institute of Technology, Thane	DevOps Concepts & Modern Deployment Practices



Day 4	Session 1	Dr. Vishal S. Badgujar	Assistant Professor, Department of Information Technology, A. P. Shah Institute of Technology, Thane	Cloud Deployment & Application Security Best Practices
Day 4	Session 2	Prof. Manjusha Kashilkar	Assistant Professor, Department of Information Technology, A. P. Shah Institute of Technology, Thane	Cloud Deployment & Application Security Best Practices
Day 5	Expert Session	Mr. Sameer Dev	Principal Engineer, Fynd	What the Top 1% of Engineering Teams Do Differently with AI
Day 6	Session 1	Mr. Snehal Patel	CSAM, Microsoft	Architecting Cloud Infrastructure – Application Security and Modern Database in Azure
Day 6	Session 2	Mr. Uddhabendra Maity	SRE & Platform Engineer, Okta	Kubernetes: How Modern Apps Scale, Heal and Survive in Production
Day 6	Session 3	Mr. Yogendra Kokamkar	DevOps & Platform Engineer, Nomura	CI/CD Platform

Aim of the Event:

The primary aim of the Faculty Development Program was to enhance the technical competencies of faculty members, researchers, and industry professionals in modern software development practices. The FDP, approved by IEEE and ISTE, was designed to provide comprehensive knowledge of the complete application lifecycle, beginning with software architecture and progressing through version control, containerization, continuous integration and continuous deployment (CI/CD), orchestration, cloud deployment, application security, and monitoring.

The program aimed to bridge the gap between academic curriculum and current industry practices by introducing participants to cloud-native technologies, DevOps methodologies, and automation tools widely adopted in software organizations. It also sought to encourage participants to integrate these technologies into teaching, research, laboratory practices, and student projects, thereby improving employability and industry readiness.

Summary of the Event:

The **IEEE and ISTE approved** Faculty Development Program titled "**Modern Application Lifecycle: From Architecture to Cloud Deployment**" was successfully organized to provide participants with an in-depth understanding of the end-to-end software development lifecycle using modern DevOps and cloud technologies. The FDP witnessed enthusiastic participation from faculty members, research scholars, postgraduate students, and industry professionals from various institutions.

The program commenced with an overview of software architecture principles, emphasizing scalable and maintainable application design. Participants were introduced to modern architectural patterns, including monolithic, microservices, and cloud-native architectures, enabling them to understand how software systems evolve to meet business and technological requirements.



Subsequent sessions covered **Git and GitHub** for version control and collaborative software development, followed by hands-on demonstrations on **Docker** for containerizing applications. Participants learned how containers simplify software deployment and improve application portability across environments.

The FDP further explored **Kubernetes**, enabling participants to understand container orchestration, scalability, service discovery, load balancing, rolling updates, and cluster management. Practical demonstrations illustrated the deployment and management of containerized applications in production-like environments.

Special emphasis was placed on **Continuous Integration and Continuous Deployment (CI/CD)** using **Jenkins**, demonstrating automated build, testing, and deployment pipelines that improve software quality and reduce delivery time. Sessions on **Amazon Web Services (AWS)** introduced cloud infrastructure, compute services, storage, networking, identity management, and deployment strategies for cloud-native applications.

The program also highlighted best practices in **Linux, DevOps culture, Infrastructure as Code, application monitoring, security considerations, and automation**, enabling participants to appreciate the importance of collaboration between development and operations teams.

Interactive hands-on laboratories, live demonstrations, question-and-answer sessions, and real-world case studies provided participants with practical exposure to industry-standard tools and workflows. The FDP successfully equipped attendees with the knowledge and skills required to design, develop, automate, deploy, and manage modern applications efficiently in cloud environments.

Overall, the program served as an excellent platform for enhancing technical expertise, promoting industry-academia collaboration, and preparing educators to incorporate emerging technologies into teaching, research, innovation, and student-centric learning activities.

Some Glimpses of the Event:

The banner features a blue and green abstract background with circuit-like patterns. At the top, it displays logos for the A. P. Shah Institute of Technology, the Department of Computer Engineering, the Institute for Technical Education (ISTE), and the IEEE APSIT Student Branch. The main text reads: "Parshvanath Charitable Trust's A. P. Shah Institute of Technology Organizes ONE WEEK FACULTY DEVELOPMENT PROGRAMME (FDP) ON 'Modern Application Lifecycle: From Architecture to Cloud Deployment'". The dates "22nd JUNE 2026 to 27th JUNE 2026" are prominently displayed in a red box. At the bottom, four icons represent the program's goals: "EMPOWERING FACULTY", "INSPIRING INNOVATION", "BUILDING FUTURE READY EDUCATORS", and "SHAPING TECHNOLOGY LEADERS". The location "A. P. Shah Institute of Technology, Thane" is noted at the very bottom.

Parshvanath Charitable Trust's
A. P. Shah Institute of Technology
— Organizes —
ONE WEEK FACULTY DEVELOPMENT PROGRAMME (FDP)
ON
**"Modern Application Lifecycle:
From Architecture to Cloud Deployment"**
22nd JUNE 2026 to 27th JUNE 2026
A. P. Shah Institute of Technology, Thane



PARSHVANATH CHARITABLE TRUST'S

A. P. SHAH INSTITUTE OF TECHNOLOGY

Department of Information Technology

(NBA Accredited)



Parshvanath Charitable Trust's

A. P. Shah Institute of Technology

Kasarvadavali, GB Road, Thane(W)-400615

Organizes

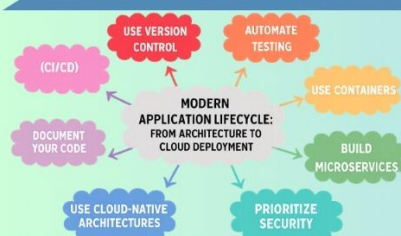
ONE WEEK FACULTY DEVELOPMENT PROGRAMME (FDP)

ON

"MODERN APPLICATION LIFECYCLE: FROM ARCHITECTURE TO CLOUD DEPLOYMENT"

THROUGH HYBRID MODE

22-06-2026 to 27-06-2026



CHIEF PATRONS

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Mrs. Pooja Shah, Trustee, PCT, Thane

CONVENER

Dr. Uttam Kolekar, Principal
APSIT, Thane

CO-CONVENER

Prof. Atul Deshpande, Vice Principal
APSIT, Thane
Dr. Kiran Deshpande, Associate Professor
HOD, IT Department
APSIT, Thane
Dr. Sachin Malave, Associate Professor
HOD, Computer Department
APSIT, Thane

FACULTY COORDINATORS

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ABOUT COLLEGE

A. P. Shah Institute of Technology (APSIT) is committed to delivering state-of-the-art technical education that fosters conceptual understanding, analytical skills, decision-making abilities, and leadership qualities in students. The institute is dedicated to the intellectual and moral growth of every student through a team of experienced and dedicated faculty. APSIT strives to unlock the hidden potential of students and shape them into competent engineers with vision and social responsibility. The institute aims to be a premier center producing globally competent professionals who contribute to India's socio-economic development.

With a strong focus on project-based and value-added education, APSIT provides a collaborative and future-ready learning environment supported by trained faculty. It is a self-financed, AICTE-approved institution, with all programs accredited by the National Board of Accreditation (NBA). APSIT offers undergraduate courses in Civil Engineering, Computer Engineering, Computer Science & Engineering (AI & ML, Data Science), Information Technology, and Mechanical Engineering.

ABOUT THE DEPARTMENTS

Established in 2014 and NBA accredited, the Department of Information Technology and Computer Engineering is dedicated to excellence in education, research, and innovation. The department combines strong academic foundations with practical learning through hands-on training and industry-oriented activities. Various Value Addition Programs, Project-Based Learning initiatives, and platforms such as NPTEL and SWAYAM help enhance students' technical skills. Supported by experienced faculty and modern infrastructure, the department strives to develop competent professionals and future technocrats.

ABOUT THE COURSE

This Faculty Development Program (FDP) on Full Stack Web Development and Cloud Deployment provides faculty members with hands-on experience in modern web technologies, database integration, cloud deployment, and DevOps practices. Participants will develop and deploy full-stack applications using industry-relevant tools and frameworks through practical sessions and mini-projects. The program aims to bridge the gap between academic teaching and industry expectations while enhancing faculty competency in mentoring real-world software development projects.

VISION OF THE DEPARTMENT

To be a prime center of excellence by transforming students into globally competent IT professionals.

MISSION OF THE DEPARTMENT

- To develop, support, and maintain state-of-the-art infrastructure to serve as a potent resource hub for the IT industries.
- To inculcate problem-solving, analytical, and logical skills and to promote the culture of creativity and innovation among the students.
- To adapt with the transformation of the technology, emphasizing on inter-disciplinary studies, exposure to emerging technologies and imbuing high standards of professional ethics and social responsibilities in all endeavors

Resource Persons from Distinguished Industries and Reputed Academic Institutes.



Time Schedule:

DURATION: 22nd June 2026 - 27th June 2026
TIMING: 10:00 AM - 3:30 PM (DAY 1- DAY 4) - Offline Mode
10:00 AM - 3:00 PM (DAY-5) - Online Mode
10:00 AM-4:30 PM (DAY 6 - Including Valedictory & Test) - Online Mode

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CORE FOCUS AREAS

- Mastering Core Infrastructure Skills for Cloud & DevOps
- Crafting Dynamic Applications with Full-Stack Web Development
- Leveraging Cloud Technologies for Scalable Deployment
- Streamlining Software Delivery with DevOps and CI/CD Practices
- Securing Modern Applications through Web Security Best Practices

OBJECTIVES

- To provide faculty members with practical knowledge and hands-on experience in DevOps methodologies, tools, and application lifecycle management.
- To enable participants to integrate modern software development, deployment, and operations practices into teaching, research, and student projects.
- To bridge the gap between academic curricula and industry requirements through exposure to contemporary DevOps workflows and cloud technologies.
- To empower faculty members to develop, deploy, automate, and manage scalable full-stack applications using DevOps and cloud platforms.

OUTCOMES

By the end of this FDP the participants will be able

- Configure and manage a complete development environment using Linux, Git, and modern DevOps tools.
- Develop and integrate frontend, backend, and database components to build full-stack applications.
- Apply version control and collaborative development practices using Git and GitHub.
- Design and implement secure database integration and application deployment workflows.
- Build and automate Continuous Integration and Continuous Deployment (CI/CD) pipelines using industry-standard tools.
- Apply containerization and orchestration technologies such as Docker and Kubernetes for scalable application deployment.

GUIDELINES FOR REGISTRATION & PARTICIPATION

REGISTRATION IS FREE
FOR ALL PARTICIPANTS.
SCAN QR FOR REGISTRATION.



- The FDP is open for faculty members of the AICTE approved institutions, Research scholars, PG Scholars, participants from the Government, Industry (Bureaucrats /Technicians /Participants from Industry) and staff of the host institution..

ATTENDANCE

It is mandatory for each participant to attend all the sessions of FDP for issuance of certificate .

TEST & EVALUATION

- An assessment test will be conducted on the last day of the program for all the participants.
- A digital certificate will be issued to the participants who have successfully completed the FDP (attendance minimum 75% & test score minimum 60%).



CONTACT DETAILS

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ON

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From Architecture to Cloud Deployment"**

22nd JUNE 2026 to 27th JUNE 2026



DATE	DAY	SESSION TOPICS	SPOC	FACILITATOR(S)
22 nd JUNE 2026	DAY 1	Linux Fundamentals & Networking Essentials - Introduction to Linux Operating System - Linux File System Structure - Essential Linux Commands - User & Permission Management - Package Installation & Management - Networking Fundamentals - IP Addressing, DNS - HTTP vs HTTPS - Ports and Protocols - Network Troubleshooting Tools Hands-on: Linux Command Practice, Network Configuration, Connectivity Testing (ping, traceroute, netstat, curl)	Dr. Kiran Deshpande	Facilitator: Prof. Jayshree Jha Prof. Rucha Kulkarni
23 rd JUNE 2026	DAY 2	Full-Stack Development Fundamentals & Local Application Hosting - Introduction to Full-Stack Architecture - HTML5, CSS3, JavaScript Fundamentals - React Basics - Node.js & Express.js - Database Connectivity (MongoDB and MySQL) - CRUD Operations - REST API Development - Local Application Hosting Hands-on: Project: Frontend → Backend → Database Integration	Prof. Mandar Ganjapurkar	Web X.O Facilitator: Prof. Roshna Sangle Dr. Harshali Bhuwad Prof. Sheetal Agrawal Database Facilitator: Prof. Geetanjali Kalme Prof. Randeep Kahlon Prof. Charul Singh
24 th JUNE 2026	DAY 3	DevOps Concepts & Modern Deployment Practices - Docker Fundamentals - Containerization Concepts - Creating Docker Images - Docker Compose - Containerised Web Application - Containerised Database - Containerised Whole application web + database - Introduction to Kubernetes - DevOps Best Practices Hands-on: Containerize and Deploy Application using Docker.	Prof. Sujata Oak Prof. Sonal Jain	DevOps Facilitator: Prof. Deepali Kayande Prof. Seema Jadhav
25 th JUNE 2026	DAY 4	Cloud Deployment & Application Security Best Practices - Cloud Computing Fundamentals - AWS Cloud Security - Application Deployment on Cloud - CI/CD Pipeline Automation - Secure Software Development Practices - Authentication & Authorization - Password Hashing - Common Web Vulnerabilities (SQL Injection, XSS, CSRF) - HTTPS & SSL Certificates - Environment Variables & Secrets Management Hands-on: Deploy Full-Stack Application on Cloud Environment, Security of application	Dr. Vishal Badgujar Prof. Manjusha Kashlikar	DevOps Facilitator: Prof. Sujata Oak Prof. Sonal Jain Prof. Seema Jadhav Application Security Facilitator: Prof. Randeep Kahlon Prof. Apeksha Mohite
26 th JUNE 2026	DAY 5	Expert Sessions on DevOps, DevSecOps and Automation	Mr. Sameer Dev – Principal Engineer at Fujitsu Mr. Uddhabendra Maity – Senior Site Reliability Engineer (K8s Platform) at Okta Mr. Yogendra Chandrakant Kokamkar – Senior DevOps and Platform Engineer at Nomura	–
27 th JUNE 2026	DAY 6	Expert Sessions on Cloud, Test & Valedictory Ceremony - Expert Sessions on Microsoft Cloud - Online Test on FDP Contents - FDP Feedback & Valedictory Ceremony	Mr. Snehal Patel – Custom Success Account Manager at Microsoft	–

LEARNING OUTCOMES



DAY 1
Operate Linux systems and troubleshoot networking issues.



DAY 2
Develop and host a complete full-stack application locally.



DAY 3
Containerize applications and databases.



DAY 4
CI/CD Deploy and secure Application on Cloud & secure web applications with security mechanisms.



DAY 5
Understand the principles and practices of DevOps and DevSecOps and modern software engineering.



DAY 6
Explore Microsoft cloud-based application deployment, storage, and security tools and security.



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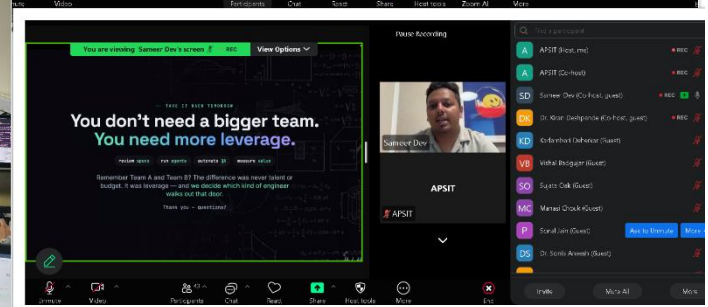
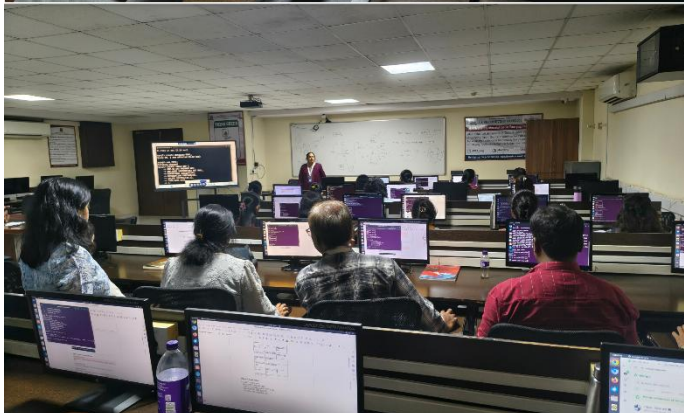
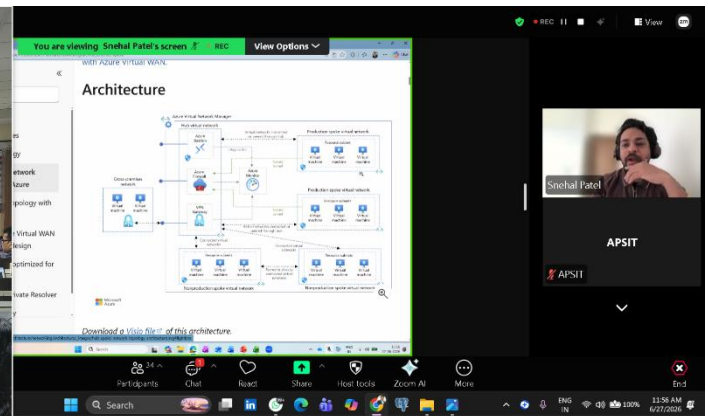
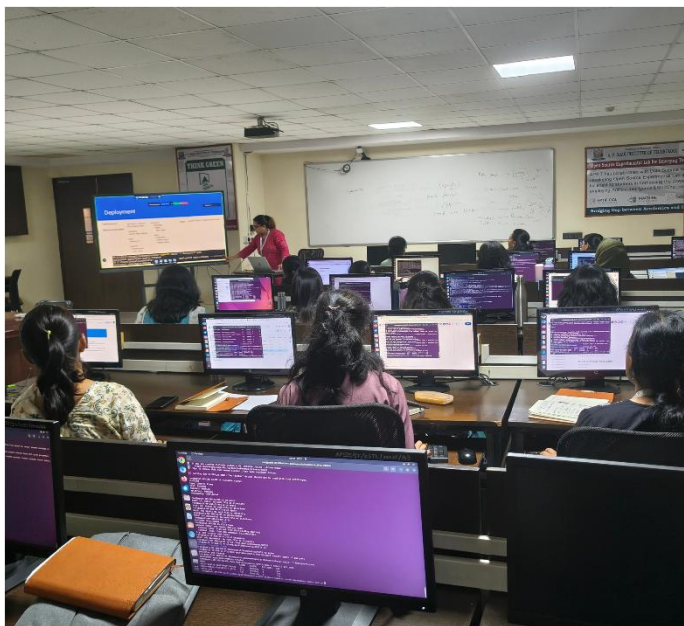
Thane, Maharashtra, India 

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Decathlon, Bhawani Nagar, Kasarvadavali, Thane, Maharashtra 400615, India

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Monday, 22/06/2026 09:38 AM GMT +05:30







PARSHVANATH CHARITABLE TRUST'S
A. P. SHAH INSTITUTE OF TECHNOLOGY
Faculty Development Program on
MODERN APPLICATION LIFECYCLE: FROM ARCHITECTURE TO CLOUD DEPLOYMENT
Organised by Department of Information Technology & Computer Engineering





Thane, Maharashtra, India
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The FDP commenced from 22nd June to 27th June 2026 with an overview of best practices in Linux, Networking Essentials, DevOps culture, Infrastructure as Code, application monitoring, security considerations, and automation, enabling participants to appreciate the importance of collaboration between development and operations teams. Overall, the program served as an excellent platform for enhancing technical expertise, promoting industry-academia collaboration, and preparing educators to incorporate emerging technologies into teaching, research, innovation, and student-centric learning activities

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