DEPARTMENT OF MECHANICAL ENGINEERING

Report on Faculty Development Programme

Duration of the FDP: 08/09/2025 – 12/09/2025 (5 Days)

Time: 09:30 AM – 04:30 PM

Title of the FDP: Next-Gen Product Innovation: CATIA, ENOVIA & 3DEXPERIENCE

Organizing Departments:

Department of Mechanical Engineering, Skill Development Centre, Department of Applied Science, in collaboration with EDS Technologies, Bangalore

Attendees: Faculty members from the Departments of Mechanical Engineering and Applied Science.

Resource Persons:

- Mr. Firoz Itagi, Senior Application Engineer, EDS Technologies
- Mr. Vinayak Choudhary, Senior Application Engineer, EDS Technologies

Duration: 7 Hours

Objective of the FDP:

To enhance the knowledge of researchers and faculty members in the field of Product Lifecycle Management (PLM) using the 3DEXPERIENCE platform.

About the Resource Persons:

The resource persons, serving as Senior Application Engineers at EDS Technologies, Bangalore, bring six years of professional experience from the field.

Trainers' Expertise:

The trainers hold over 60 certifications across CATIA V5, 3DEXPERIENCE, Architecture and Installation Fundamentals, ENOVIA, DELMIA, SIMULIA, and BIOVIA by Dassault Systèmes. They have delivered more than 500 hours of training to academic and corporate clients, including Infosys, Ferra Aerospace, Dynamatics, Ather Electric, KGTTI, and Tech Mahindra, along with specialized TXO (Data Model Customization) training for various institutions.

Programme Content

ENOVIA TRAINING	HANDS-ON DETAILS
3DEXPERIENCE	Exploring 3DEXPERIENCE Gateway, practicing
Gateway Overview,	Collaborative Business/Industry Innovator Roles,
•	Managing Widgets, and gaining introductory
	experience in CATIA design within the integrated
	platform.
•	
Management, and an	
overview of	
3DEXPERIENCE	
CATIA	
	Practicing CATIA basics through creating 3D part
,	models, assembling components, and generating
	detailed 2D drafting views to understand design,
Dratting	integration, and documentation processes
	effectively.
NC Programming for the	Creating NC programs, defining tool paths,
shop floor	simulating machining operations, and generating
F	G-codes to connect digital designs with real shop
	floor manufacturing processes.
	moor manuracturing processes.
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	Exploring ENOVIA project management tools,
Project Management	creating project structures, assigning tasks,
	tracking progress, and managing collaboration for
	efficient execution of engineering and business
	projects.
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Variant Management and	Creating and managing product variants,
	MODULES 3DEXPERIENCE Gateway Overview, including the Collaborative Business Innovator and Collaborative Industry Innovator Roles, Widget Management, and an overview of 3DEXPERIENCE CATIA Basics of CATIA, including Part Design, Assembly Design, and Drafting NC Programming for the shop floor Overview of ENOVIA Project Management

12/09/2025	dependencies, and ensuring accurate product definitions for efficient design, customization, and manufacturing workflows.

Conclusion:

The Faculty Development Programme on "Basics of CATIA Surface Design, with an Overview of ENOVIA Project Management" equipped participants with essential knowledge in advanced 3D modeling and collaborative project execution. The sessions strengthened their understanding of surface design techniques, component assembly, and documentation workflows in CATIA, while also introducing practical methods for project structuring and progress tracking using ENOVIA. By combining design accuracy with project management tools, the programme improved both technical skills and team collaboration. Overall, the FDP empowered faculty with practical expertise, enhanced academic delivery, and aligned teaching with current industry standards.



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ABOUT EDS TECHNOLOGIES PVT. LTD

solutions provider with three decades of experience in driving digital transformation across industries. Founded in 1995 and headquartered in Bengaluru, we have a strong presence across 11 Indian cities including Ahmedabad, Chennai, Coimbatore, Gurugram, Guwahati, Hyderabad, Kolkata, Mumbai, Noida, and Pune.

EDST has built the largest customer base in India for PLM and Visual Simulation, partnering with over 2,000 customers in automotive, aerospace, defence, electronics, industrial equipment, and medical devices industries.

Through strategic partnerships with global leaders like Dassault Systèmes, Synopsys, EOS, Optomec, Esri, Humanetics, Technia, MAK Technologies, Agenium, and Aechelon Technology, we bring world-class solutions to manufacturing, electronics,

ABOUT THE EVENT

The Faculty Development Program (FDP) on "Next-Gen Product Innovation: CATIA, ENOVIA & 3DEXPERIENCE" is designed to empower faculty with hands-on knowledge of Dassault Systems advanced designs and product Hospital Programment (FILM). design and product lifecycle management (PLM) tools. The program introduces CATIA for innovative product design, ENOVIA for collaborative project and data management, and the 3DEXPERIENCE platform for digital continuity across the product lifecycle. This FDP aims to bridge academia - industry gaps by enabling faculty to integrate cuttingedge PLM practices into teaching, research, and project

OBJECTIVES OF THE PROGRAMME

The main objective of this faculty development program is to enhance the knowledge of researchers, faculty members in the area of Product Life Cycle Management using 3D EXPERIENCE and CATIA.

RESOURCE PERSONS

Mr. Vinayak V C

Sr. Application Engineer – Technical EDS Technologies

Mr. Firoz Itagi Controer - Technical Sr. Application Engineer – EDS Technologies

AUDIENCE

Open to faculty members, research scholars, and industry professionals.

CONTACT FOR QUERIES

Skill Development Centre - NHCE

Faculty Coordinators

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SCHEDULE

Day 1 - 08-09-2025

3DEXPERIENCE Gateway Overview, including the Collaborative Business Innovator and Collaborative Industry Innovator roles, widget management, and an overview of 3DEXPERIENCE CATIA.

Day 2 - 09-09-2025

Basics of CATIA, including Part Design, Assembly Design, and Drafting.

Day 3 - 10-09-2025

NC Programming for the shop floor.

Day 4 - 11-09-2025

Generating resources, building a 3D layout, and defining factory flow simulation.

Day 5 - 12-09-2025

Basics of CATIA Surface Design, with an overview of ENOVIA Project Management.

Glimpses of the Faculty Development Programme





