Outlook

MITS Communication/Report on PDP/IQAC Cell/30.06.2024-04.07.2025

From Vice Principal Administration <viceprincipaladministration@mits.ac.in>
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A Report on

Five - Day Professional Development Programme (PDP) on

"UI / UX Design"

Organized by

Internal Quality Assurance Cell (IQAC)

in association with NITTTR, Chennai

from 30.06.2025 to 04.07.2025

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Report Submitted by: Mrs. Prudhivi Anuradha, Assistant Professor, Dept of CSE-Data Science and Document Manager , IQAC

Resource Persons: Dr. P. Malliga Professor & Head, Department of Computer Science & Engineering, NITTTR Chennai; Dr. S. Sasirekha (Course Coordinator) Associate Professor, Department of Computer Science & Engineering, NITTTR Chennai; Dr. T. Subha Associate Professor, Dept. of Educational Media & Technology, NITTTR, Chennai.

Venue : Seminar Hall –A & WB219

Participants: 40 Faculty Members

Timings: 9:30AM To 4:30 PM

Mode of Conduct: Offline

Report Received on 10.07.2025.

Five - Day Professional Development Programme (PDP) on "UI / UX Design" for the faculty members was conducted from 30th June 2025 to 4th July 2025 in the Seminar Hall-A/WB219. Forty faculty members from various departments attended the PDP.

The objectives of this program was to enable participants to:

- Introduce the fundamentals of User Interface (UI) and User Experience (UX) design
  - Familiarize faculty with the principles of Design Thinking
  - Provide hands-on experience with leading UI/UX tools
  - Develop skills in wireframing, prototyping and visual design
  - **Train participants in usability testing techniques and documentation practices**
  - Enable faculty members to integrate UI/UX concepts and tools into their teaching and curriculum

The Resource Persons Dr. P. Malliga, Dr. S. Sasirekha and Dr. T. Subha from NITTTR, Chennai, conducted the sessions. The program commenced with an inaugural session on 30th June 2025. Dr. P. Ramanathan, Vice Principal (Academics), delivered the welcome address, Dr. K. Sathesh, IQAC Coordinator, introduced the resource persons. The experts from NITTTR Chennai, highlighted the significance of this PDP.
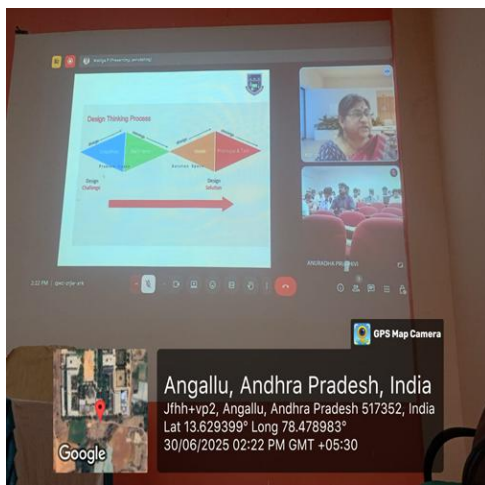

Day 1: 30.06.2025, Monday

Forenoon Session:

The forenoon session was handled by Dr. S. Sasirekha, Associate Professor, Department of Computer Science & Engineering, NITTTR Chennai, on the topic "Introduction to UI/UX Design." She began by explaining the difference between UI (User Interface) and UX (User Experience), highlighting that UI focuses on visual and interactive elements, while UX emphasizes user satisfaction and seamless navigation. She introduced the Box Model for understanding element layout in web design using HTML and CSS. Tools and technologies such as jQuery, AJAX, and TypeScript were discussed, along with advanced concepts like Next-generation generatives and Progressive Web Applications (PWAs), citing the Gmail icon as an example. The concept of Service Workers was explained for enabling offline functionality in browsers. UX tools like Moqups and the Brave browser were also demonstrated. To reinforce the session, participants were given a task to **visit a specific website and review its UI/UX aspects** based on the concepts discussed. This exercise helped them apply theoretical knowledge in a real-world context, encouraging critical observation and analysis. The session offered a balanced blend of design principles, tools and interactive learning.
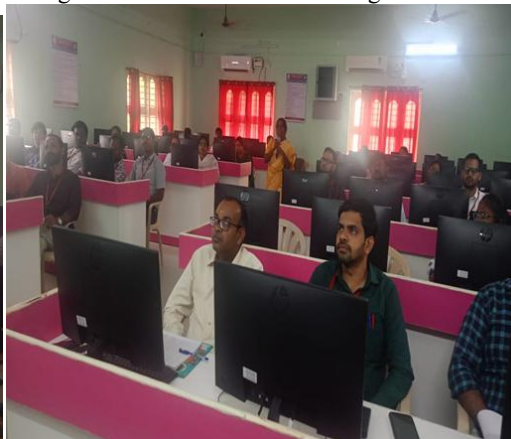

Afternoon Session:

Dr. P. Malliga, Professor & Head, Department of Computer Science & Engineering, NITTTR Chennai, handled an engaging *online session* on *"Design Thinking"*. She began with the theoretical background of Design Thinking and its significance in solving real-world problems through innovative, human-centric approaches. The session focused on the **five stages of Design Thinking**: *Empathize, Define, Ideate, Prototype* and *Test*. Dr. Malliga elaborated on each stage, providing relatable examples and encouraging participants to incorporate these principles in their design and teaching practices. The session highlighted how Design Thinking promotes creativity, empathy and problem-solving in both Academic and Industrial Design contexts.
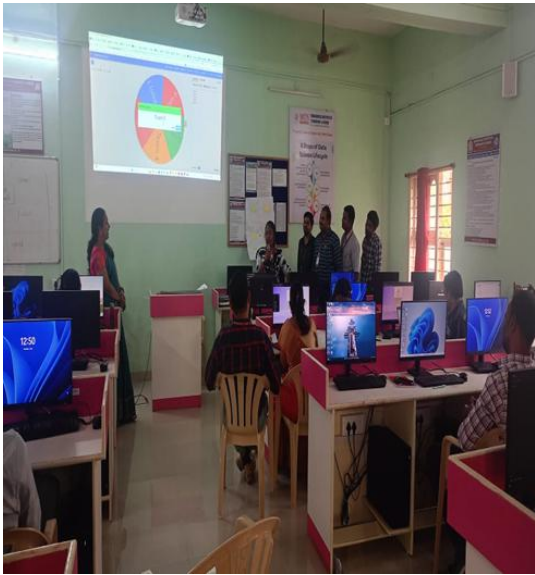
Day 2: 01.07.2025, Tuesday

Forenoon Session:

The **forenoon session** was handled by **Dr. T. Subha**, Associate Professor, Department of Educational Media & Technology, NITTTR Chennai. She focused on the **"Empathize"** phase of the Design Thinking process, highlighting its critical role in understanding users needs and emotions. A significant portion of the session was dedicated to **Empathy Mapping**, a powerful technique to visualize what a user *says, thinks, does,* and *feels*. This framework helps in building a deeper understanding of user behavior and expectations. To reinforce learning, participants engaged in a **hands-on activity** using chart papers, where they collaborated in teams to create empathy maps based on hypothetical or real-life user scenarios. This interactive segment fostered creative thinking and a user-centered mindset.

Afternoon Session:

In the **afternoon session**, Dr. Sasirekha introduced participants to a suite of popular **UI/UX design tools**, including **Figma, Miro, Moqups** and **FigJam**. Each tool was briefly explained in terms of its purpose and capabilities in the design workflow. She provided a detailed demonstration of **Figma**, a cloud-based interface design tool, and guided participants through the process of **creating FigJam boards** for brainstorming and wireframing. Participants were also introduced to **Julius AI**, a next-generation AI-powered tool to accelerate UI/UX prototyping. The session included **hands-on practice**, allowing participants to explore and apply the tools in real time. By the end of the session, attendees gained practical familiarity with industry-standard platforms used in modern UI/UX design.
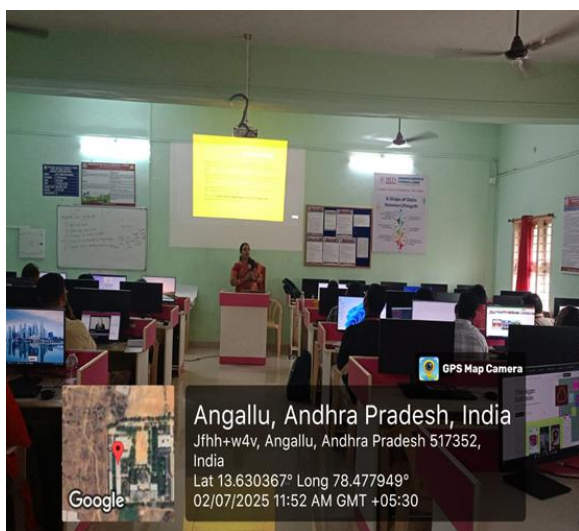
Day 3: 02.07.2025, Wednesday

Forenoon Session:

The forenoon session was conducted by Dr. T. Subha, focusing on the Ideation phase of Design Thinking. She explained how to prepare for ideation by understanding the problem, selecting the right team, and creating a creative environment. The Ideation Process included defining the problem, gathering resources, choosing techniques, and progressing to prototyping. Participants were introduced to techniques like brainstorming, mind mapping, reverse thinking, six thinking hats, and the worst possible idea. Dr. Subha also covered storyboarding as a way to visually represent user experiences. She guided participants through creating user personas, selecting scenarios, breaking them into steps, and sketching frames. The website **www.storyboardthat.com** was demonstrated for easy storyboard creation. A hands-on session in Figma followed, where participants created digital storyboards. They then ideated UI/UX features based on each frame. The session blended creativity, structure, and practical design skill-building.

Afternoon Session:

In the afternoon session, the focus shifted to wireframing tools. Dr. Sasirekha introduced a variety of platforms used for designing wireframes, such as Templatr,, FlairBuilder, Guide Design Studio, PhotoShare, Serena, and Dub. These tools were briefly explained in terms of their functionalities and best use cases. The session then progressed into a hands-on session, where participants practiced layout design using Figma, and explored Codetea.io, an open resource platform for UI components and layout inspiration. The practical experience helped participants build confidence in wireframing and preparing low-fidelity UI representations.

Day 4: 03.07.2025, Thursday

Forenoon Session:

The **forenoon session** was handled by **Dr. T. Subha**, focusing on **Visual Design Principles** essential for crafting intuitive and aesthetically pleasing user interfaces. She explained the key principles such as **alignment, contrast, hierarchy, proximity, repetition, balance, and whitespace**, illustrating how each contributes to effective UI design. The session emphasized the importance of maintaining visual consistency and clarity across digital products to enhance user experience. Participants were guided through various examples of good and bad design practices, helping them analyze interfaces from a designer's perspective. The session bridged the gap between creativity and usability, encouraging participants to adopt these principles in their teaching content and project work.
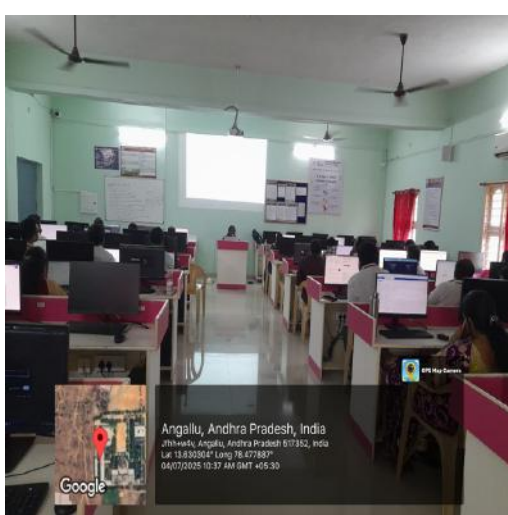

Afternoon Session:

In the afternoon session, **Dr. S. Sasirekha** introduced participants to **Bootstrap**, a popular front-end framework for creating responsive and mobile-first websites. She explained its essential components such as the **grid system, utility classes**, and reusable UI elements, referring to the official site getbootstrap.com. The session included **hands-on practice**, where participants built layouts and styled UI elements using editors like **Atom** (atom-editor.cc) and **Sublime Text** (sublimetext.com). In parallel, they used **Figma** for layout visualization and design planning. Dr. Sasirekha also introduced **UI Designing using the JOOMLA Framework**, explaining how open-source CMS platforms can be used to design functional and user-friendly web interfaces. The session helped participants understand how Joomla enables modular content design with flexibility. Through practical demonstrations and guided exercises, the session bridged the gap between **UI design theory and front-end development** using both Bootstrap and Joomla.

Day 5: 04.07.2025, Friday
Forenoon Session:

The forenoon session was handled by **Dr. T. Subha**, focusing on **Documenting Work and Portfolio Building**. She explained the importance of **usability testing** in UI/UX, outlining its key steps, benefits, and how to conduct **usability heuristic evaluation** with practical examples. The session then transitioned to how designers can effectively **showcase their design process** in a **graphic design portfolio**. Dr. Subha guided participants on creating a **simple yet professional portfolio,** emphasizing structure, clarity, and storytelling. She shared valuable **tips for building an impressive portfolio,** especially for beginners. The tool **Viewport** (app.viewport.co) was introduced for building online portfolios. Participants were encouraged to reflect on their learning using the **Padlet feedback board**. The session gave a practical closure to the training with a focus on real-world application and professional growth.

Afternoon Session:

In the afternoon session, participants appeared for the course assessment, which evaluated their understanding and application of the UI/UX concepts covered during the five-day programme. Following the assessment, the Valedictory Function commenced at 3:30 PM. The event began with an overview of the entire program delivered by Mrs. Kowsalya, highlighting the key sessions and learning outcomes. The resource persons, Dr. S. Sasirekha and Dr. T. Subha, shared their reflections on the interactive sessions and appreciated the enthusiastic participation of the faculty members. Participants also shared their feedback, expressing their learning experiences and the practical value gained from the program. The event concluded with a formal Vote of Thanks by Dr. P. Ramanathan, Vice Principal - Academics, who expressed sincere gratitude to the resource persons, organizing team, and participants for their active involvement and meaningful contributions.

Outcomes of the program:

The Professional Development Programme on UI/UX Design enabled participants to gain a clear understanding of UI and UX principles, apply the Design Thinking process, and use industry-standard tools like Figma, Bootstrap, and Joomla. Through hands-on activities such as empathy mapping, wireframing, storyboarding, usability testing and website design, participants translated theory into practice. They also created personal portfolios showcasing their design process and outcomes. By the end of the program, participants were well-equipped to integrate UI/UX concepts into their teaching and professional work.

Empathy Mapping:

Storyboarding:

Bootstrap based web design:

1. https://team1.nicepage.io/
2. https://website6534094.nicepage.io/About.html

3. https://kalyanangatikumar.wixsite.com/mitzzy
4. https://website6534087.nicepage.io/MITS-WEBSITE.html?uid=571b1752-c238-4792-a842-c93b6407c2d2
5. https://site22913218.nicepage.io/
6. https://site11968110.nicepage.io/Page-1.html?uid=a1107a38-e922-4961-b7a0-2251726a01de
7. https://website6534093.nicepage.io/Home.html
8. https://website6534068.nicepage.io/

Portfolio building:
1. https://app.viewport.co/project/5fabfee2e78eacfc8bc0d9dd834241c02795666adb42cc07a8d80cff13f8d99c9dcc
2. https://app.viewport.co/project/5fabfee5e78eacfc8bc0d9dd834241c02795666adb42cf07a9d80cfe15f8de9a9ccc
3. https://app.viewport.co/project/5fabfee6e78eacfc8bc0a5a2ff3210c1278d6769bf4bcc0aaad505fd

We thank Management and Principal for providing us the necessary support for smooth conduct of this program.

With regards,
Dr. C. Kamal Basha, **M.E., Ph.D.**
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