

Java Script frameworks on React JS programming using hooks and components

The department of **Information science and Engineering** organised an **Add-On Lecture** titled **Java Script frameworks on React JS programming using hooks and components** on **26-03-2026** at **9:00am**, in **Seminar hall 3**.

The event featured an informative session led by a guest speaker who introduced the participants to the fundamentals and practical applications of React JS. The session began with an introduction to JavaScript frameworks and the evolution of front-end technologies. The resource person explained why React JS is preferred over traditional JavaScript libraries due to its virtual DOM, faster rendering, and modular structure. Students were introduced to React components, including functional components and their life cycle. The session covered the basics of JSX syntax, props, and state. Special emphasis was given to React Hooks, explaining how hooks allow state and life cycle features to be used in functional components without writing class-based code. Practical demonstrations were conducted to show the creation of simple React applications. Examples included building reusable components, managing application state using `useState`, and handling side effects using `useEffect`. The interactive session encouraged students to ask questions and experiment with code snippets in real time.

Objectives of the Event

The primary objectives of the event were:

- To familiarize students with modern JavaScript frameworks used in industry
- To understand the concept of functional components and reusable UI design
- To explain React Hooks such as `useState`, `useEffect`, and their real-time applications.

Event Overview

The session commenced at 9:00 am with a welcome address by Saritha V., followed by an engaging session by **Mr. Jashuava D., Software Architect**. The add-on lecture focused on the fundamentals and advanced concepts of React JS, emphasizing

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the importance of components, JSX, and Hooks in building scalable and reusable web applications. The program enabled students to understand how React simplifies front-end development through its component-based architecture and efficient state management techniques. The event was attended by 126 participants.



Figure 1: Welcoming Guest



(a) Tech Talk



(b) Knowledge boost

Figure 2: Enthusiastic participation from students

Day	Time	Session Details
Thursday, March 26 2026	9.00 am -9.15 am	Welcome Address
	9.10 am - 9.30 am	Introduction to the Chief Guest
	9.30 am - 11.30 am	Technical talk

Table 1: Schedule of the Event

Outcomes and Impact

- Students gained foundational knowledge of React JS and its ecosystem.
- Participants understood the advantages of component-based development.
- It motivated students to explore advanced JavaScript frameworks and front-end development careers.

Conclusions

The add-on lecture on React JS Programming Using Hooks and Components was highly informative and productive. It successfully met its objectives of providing hands-on exposure and strengthening students' understanding of modern JavaScript frameworks. Such sessions play a vital role in equipping students with contemporary technical skills and preparing them for industry challenges. The department plans to conduct more add-on programs to support continuous learning and skill development.

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