



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
S.P.G.Chidambara Nader - C.Nagammal Campus
S.P.G.C. Nagar, K.Velakulam - 625 701 (Near VIRUDHUNAGAR).

Department of Computer Science Engineering
Value Added Course on "REACT JS"
31.7.2023 to 5.8.2023

Trainers Name:A.L.pooja Mai,Front End Developer-React JS,Kevell Corp,Madurai

Course Objectives:

- To Learn the Javascript and build basic programs
- To Learn React.js is and its role in modern web development.
- To Build components that render dynamic content
- To Develop interactive components that respond to user actions and update state.

UNIT I **JAVASCRIPT** **9**
Introduction to programming languages and JavaScript's role - Variables and data types- Operators-Control flow-Array- Loops- String-build-in function- Arrow Functions-Object.

UNIT II **REACT JS** **9**
React.js and its role in web development -Virtual DOM-Setting up development environment with Node.js and npm - Create React App-Understanding JSX syntax.

UNIT III **CLASS COMPONENTS AND FUNCTIONAL COMPONENTS** **9**
Introduction to components and their significance-Creating functional components and class components-Passing data between components using props - Rendering dynamic content based on props-Building a simple UI using reusable components.

UNIT IV **REACT PROPS AND STATES** **9**
Understanding state and its importance in dynamic UI-Using the `useState` hook for managing component state-Handling events and user interactions- Exploring the component lifecycle (class components)-Using lifecycle methods like `componentDidMount` and `componentDidUpdate`

UNIT V **REACT HOOKS, EFFECTS AND ROUTER** **9**
Introduction to React Hooks and their benefits-Using the `useEffect` hook for side effects and lifecycle behavior- Implementing client-side routing with React Router-Creating navigation links and nested routes-Managing global state with the Context API.

Course Outcomes:

- Understand How Real world Environment Works for Web Development
- Create functional and class components in React.js.
- Understand the role of JSX in rendering UI elements.
- Build interactive UI components like forms, toggles, and counters.


Coordinators

B. Santhi Priya, AP/CSE


HOD-CSE

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Training Schedule:

S.No	Date/Day	Course Content	
		FN (9.10 AM to 12.50 PM)	AN (1.30 PM to 4.00 PM)
1.	31.07.2023 (Monday)	Introduction to programming languages and JavaScript's role - Variables and data types-Operators-Control flow-Array-Loops	String-build-in function- Arrow Functions-Object Hand-on Sessions
2.	01.08.2023 (Tuesday)	React.js and its role in web development - Virtual DOM-Setting up development environment with Node.js and npm	Create React App-Understanding JSX syntax.
3.	02.08.2023 (Wednesday)	Introduction to components and their significance-Creating functional components and class components-Passing data between components using props.	Rendering dynamic content based on props-Building a simple UI using reusable components.
4.	03.08.2023 (Thursday)	Understanding state and its importance in dynamic UI-Using the useState hook for managing component state-Handling events and user interactions.	Exploring the component lifecycle (class components)-Using lifecycle methods like componentDidMount and componentDidUpdate .
5.	04.08.2023 (Friday)	Introduction to React Hooks and their benefits-Using the useEffect hook for side effects and lifecycle behavior.	Implementing client-side routing with React Router-Creating navigation links and nested routes-Managing global state with the Context API.
6.	05.08.2023 (Saturday)	Front End Page Development using React JS.	Practical Assessment and Verification

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B. Pooja Mai
Coordinators
D. Asiy, AP/CSE

M. Manoj
HOD-CSE