***UI / React Module***

*0 Design Principles Topic 1 Day - 1*

*1 Introduction to UI Programming Topic 1 Day - 1*

*Role of UI Developer Subtopic*

*How it's different from UX Design? Subtopic*

*Course content - UI Technologies Subtopic*

*Expectations from the course Subtopic*

*HTML Overview and Building blocks Subtopic*

*2 Web Responsive Design Topic 3 Day - 1*

*CSS media queries Subtopic*

*Responsive designs using flexbox, CSS3 grids Subtopic*

*Hands-on programming assignments Subtopic*

*3 Advance Javascript Topic 3 Day - 1*

*OOPS - Classes and Interfaces Subtopic*

*Functional programming Subtopic*

*Classes vs Functional programming*

*Javascript vs Typescript*

*ES6 features, Promises, Async Await Subtopic*

*Hands-on programming assignments Subtopic*

*4 React Topic 12 Day2, Day3*

*Introduction to React Subtopic*

*Creating React Project Subtopic*

*Understanding React Components and Properties, Explain component lifecycle Subtopic*

*Generic components, theming, templating Subtopic*

*Ag-grid, primereact Subtopic*

*Stateful and Stateless components, Explain class vs functional components Subtopic*

*Working with Events Subtopic*

*Forms and Validation Subtopic*

*Consuming RESTful web service Subtopic*

*React Hooks Subtopic*

*State Management using Redux Subtopic*

*Unit testing and coverage with React Testing Library Subtopic*

*Hands-on programming assignments Subtopic*

*Debugging Subtopic*

*5 Performance Topic 2 Day3*

*Minification, dead code elimination(tree shaking) Subtopic*

*Optimizing assets (images , videos) Subtopic*

*Code level performance optimizations Subtopic*

*6 Security Topic 1 Day3*

*Authorization & authentication Subtopic*

*CSRF, XSRF Subtopic*

*7 Tooling Topic 1 Day3*

*Lighthouse/ Performance tooling Subtopic*

*Developer tools Subtopic*