

ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A+ 'Grade by NAAC(CGPA:3.68/4.00)
College with Potential for Excellence by UGC
DST-FIST Supported & STAR College Scheme by DBT

Faculty of Science

Bachelor of Computer Application B.CA. IV Semester Paper-Elective II REACT JS

Course Outcomes

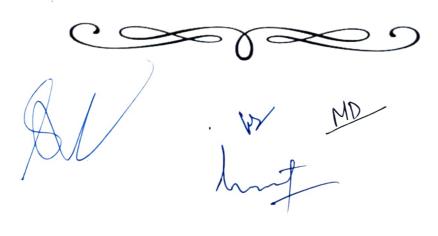
CO. No.	Course Outcomes	Cognitive Level
CO 1	Understanding JavaScript Basics and DOM Manipulation.	R, U
CO 2	Implementing JavaScript Features for User Interaction	A
CO 3	Exploring and Using React for UI Development	U, A
CO 4	Developing React Components and Managing State	A, E
CO 5	Managing Events and Dynamic Data in React	A, C

Credit and Marking Scheme

	Credits	Marks		TAING
. •		Internal	External	Total Marks
Theory	3	40	60	100
Practical	1	40	60	100
Total	4	200		

Evaluation Scheme

	. Marks		
	Internal	External	
Theory	3 Internal Exams of 20 Marks	1 External Exams	
	(During the Semester)	(At the End of Semester)	
	(Best 2 will be taken)	,	
Practical	3 Internal Exams	1 External Exams	
	(During the Semester)	(At the End of Semester)	
	(Best 2 will be taken)	(





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B.CA. IV Semester

Paper-Elective II

REACT JS

Theory

No. of Lectures (in hours per week): 2 Hrs. per week

Total No. of Lectures: 60 Hrs. Maximum Marks: 60 Units **Topics** No. of Lectures Introduction to JavaScript, External javascript, Javascript Variable, global 15 variable, control statements, Array, Date, Math, popup boxes, Document Object Model. Document Objects: getElementById. GetElementsByClassName(),getElementsByName(), getElementsByTagNames(), innerHTML property, innerText property, form validations. Introduction to React: What is React, Why React, React version history, II 15 Anatomy of react project, Running the app, Debugging first react app. Templating using JSX: Working with React. createElement, Expressions. using logical operators, specifying attributes, Specifying children, Fragments. About Components: Significance of component architecture, Types of 15 components, Functional, Class based, Pure, Component Composition Working with state and props: What is state and its significance, Read state and set state, Passing data to component using props, Validating props using propTypes, Supplying default values to props using default Props. Rendering lists: Using react key prop, Using map function to iterate on arrays 15 to generate elements, Event handling in React: Understanding React event system, Understanding Synthetic event, Passing arguments to event handlers. Working with forms.

Textbooks:

- ReactJS by Example Building Modern Web Applications with React
- React Js for Beginners A Comprehensive Beginner's Guide to ReactJS By Emma William · 2021
- HTML & CSS, the complete reference, fifth edition, Thomas A Powell.

Reference Books:

- React and React Native A Complete Hands-on Guide to Modern Web and Mobile Development with React is By Adam Boduch, Roy Derks 2020
- Quickstart Step-By-Step Guide to Learning React Javascript Library (React. Js, Reactjs, Learning React JS, React Javascript, React Programming) By Lionel Lopez 2017

W MD



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Paper-Elective II

Practical

No. of Lab Practical (in hours per week): 2 Hrs. per week

Suggestive List of Practical

- 1. Build Search filter in React
- 2. Creating a simple counter
- 3.Display a list
- 4. Build Accordion
- 5.Image Slider
- 6.Create a Checklist
- 7. Simple Login form
- 8. Multi-Page navigation using React Router

C M

Ant MD