



GUJARAT TECHNOLOGICAL UNIVERSITY
Syllabus for Integrated MSc, 8th Semester
Branch: Information Technology
Subject Name: Cross Platform Mobile Development Using React Native
Subject Code: 1380505

Teaching and Examination Scheme

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
				ESE(E)	PA (M)	PA (I)	ESE(V)	
3	0	2	4	70	30	20	30	150

Content:

Sr. No.	Content	Teaching Hours	Module Weightage (%)
1	Introduction to Mobile Application Different Mobile Platforms / OS, Growth of Mobile Applications, Different Mobile Architecture	5	15%
2.	Native vs. Hybrid Development Learn basics knowledge about native development, hybrid development, Native Vs. Hybrid Vs. Mobile Web, When & Why to choose hybrid or native development, Advantages and disadvantages	6	20%
3.	Introduction to React Native Traditional Approach, Cross-platform mobile development React Native – Overview, React Native Features, Environment Setup, Create your first React Native app, Exploring Project Structure.	9	20%
4.	React Native App Import Modules, view, Styling, flexbox, Text Input, Lists, Flat, Scoll, Section, Introduction of State & Props, Core Components, Creating custom Components, Manage navigation, Manage forms in React.	10	25%
5.	AsyncStorage, Native Features and Deployment & Testing Redux and Hooks, Manage navigation, Router, Rendering, geolocation, animations, notifications, and ImagePicker, app creation using Expo, Deployment & Testing of app	10	25%

Reference Books:

- 1) Learning React Native: Building Native Mobile Apps with JavaScript, by Bonnie Eisenman, O'Reilly Media (2nd Edition)
- 2) React Native for Mobile Development, Akshat Paul, Abhishek Nalwaya.
- 3) React Native Cookbook, Dan Ward, Kindle Edition



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- 4) Fullstack React Native: Create beautiful mobile apps with JavaScript and React Native: By Devin Abbott, Houssein Djirdeh, Anthony Accomazzo, and Sophia Shoemake

Course Outcome:

After learning the course, the students should be able to:

No.	CO statement
CO-1	Understand mobile application development and deployment process.
CO-2	Understand different type of mobile development technology
CO-3	Understand React Native architecture
CO-4	Understand the concept of different designing option and control.
CO-5	Understand the data storage, navigation and other native feature of react native