Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
Code		L	T	P	L	T	P	Total
	I -1 II			4			2	2
L502	Laboratory II – Wireless & Mobile Technology + Mini project	Examination Scheme						
		TermWork		Practical		Oral		Total
		80		10		10		100

Pre-requisite Course Codes		
	CO1	Install and configure PhoneGap software.
	CO2	Analyze the working of latest interactive environment i.e.
Course Oucomes		PhoneGap for mobile application development.
Course Oucomes	CO3	Design Application for mobile devices using JavaScript,
		HTML5, CSS by accessing features of PhoneGap.
	CO4	Adapt the features of Android's Communication APIs for
		Accelerometer, Camera, Contact, Event and File System.

Exp. No.	Experiment Details	Ref.	Marks
1	Introduction To Phonegap		4
	o A Little PhoneGap History		
	oWhy Use PhoneGap?		
	o How PhoneGap Works		
	o Designing for the Container		
	o Writing PhoneGap Applications		
	o Building PhoneGap Applications		
	o PhoneGap Limitations		
	o PhoneGap Plug-Ins		
	o Getting Support for PhoneGap		
	o PhoneGap Resources		
	o Hybrid Application Frameworks		
2	Phonegap Development, Testing, And Debugging	1,2	8
	oHello, World!		
	o PhoneGap Initialization		
	o Leveraging PhoneGap APIs		
	o Enhancing the User Interface of a PhoneGap Application		
	o Testing and Debugging PhoneGap Applications		
	o Dealing with Cross-Platform Development Issues		
	o API Consistency		
3	Configuring An Android Development Environment For	1,2	8
	Phonegap		
	o Installing the Android SDK		
	o Eclipse Development Environment Configuration		
	o Creating an Android PhoneGap Project		
	o Testing Android PhoneGap Applications	1.2	•
4	API	1,3	20
	Accelerometer		
	Querying Device Orientation		
	Watching a Device's Orientation		
	o Capture		

Total Marks				
5	Mini Project will be made with mobile technology with android as the platform or Advanced Web Technologies like ASP.NET, C#	1,3	20	
	o Notification Visual Alerts (Alert and Confirm), Beep, Vibrate Notification in Action	1.2	20	
	Caching content using the web storage local storage API			
	Creating a local SQLite database, Uploading a file to a remote server			
	Displaying the contents of a directory			
	from device storage			
	Introduction, Saving a file to device storage, Opening a local file			
	o File System, Storage, Connection and Local Databases			
	Button Events			
	Network Status Events			
	Device ready Event Application Status Events			
	Creating an Event Listener			
	o Events			
	Creating and saving a new contact			
	Displaying contact information for a specific individual			
	Listing all available contacts			
	Introduction			
	o Contacts			
	Capture at Work			
	Using the Capture API Configuring Capture Options			

References:

- [1] PhoneGap Essentials John M. Wargo
 [2] Beginning PhoneGap RohitGhatol, Yogesh Patel
 [3] Hello, android ED brunette pragmatic bookshelf