



NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COURSE PLAN – PART I			
Name of the programme and specialization	B.Tech and CSE		
Course Title	MOBILE APPLICATIONS DEVELOPMENT LABORATORY		
Course Code	CSLR33	No. of Credits	2
Course Code of Pre-requisite subject(s)	CSPC37		
Session	January 2019	Section (if, applicable)	A
Name of Faculty	Dr. N. Ramasubramanian Mrs. Karckey P	Department	CSE
Email	nrs@nitt.edu karckey@nitt.edu	Telephone No.	0431-2503204
Name of Course Coordinator(s) (if, applicable)			
E-mail		Telephone No.	
Course Type	ELR		
Syllabus (approved in BoS)			
Experiments			
<ol style="list-style-type: none"> 1. Install the Android SDK and developer tools and build a test project to confirm that those tools are properly installed and configured 2. Write a program to develop an android application that includes different activities for different layouts. 3. Write a program to develop a Tic-Tac-Toe game application for android with 2 player support. 			



4. Write a program using a Table Layout for our restaurant data entry form, add a set of radio buttons to represent the type of restaurant
5. Write a program to send user from one application to another. (For example redirection to map)
6. Write a program to develop an android application that using activity class to show different events.
7. Write a program to develop an android application that call a number.
8. Write a program to develop an app that shows the location of the country based on the coordinates given.
9. Write a program to develop an application in android mobile that used to send SMS.
10. Write a program to develop an app that shows an app widget and connects the App with SQLite database, the data is fetched and the widget is updated.
11. Write a program to develop an app that shows different kinds of menus that the user can use to interact and navigate with, to update, delete or create data in the app
12. Write a program to develop an application in android that plays the audio files.
13. Write a program to develop an android application that plays the video files.
14. Write a program to develop an application which capture the image using built in camera.
15. Write a program to convert text to speech.

Text Books

1. Reto Meier, "Professional Android 4 Application Development", Wrox, 2012
2. Matt Gifford, "PhoneGap Mobile Application Development Cookbook", PACKT, 2012
3. Adrian Kosmaczewski, "Mobile JavaScript Application Development", O'RELLY, 2012

Websites

4. <http://developer.android.com/>
5. http://www.tutorialspoint.com/mobile_development_tutorials.html

COURSE OBJECTIVES

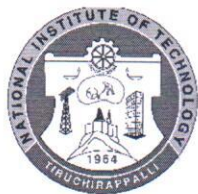
- To learn the basics of mobile application development
- To get accustomed to Android platform
- To develop skills in developing basic Android applications

COURSE OUTCOMES (CO)

- Ability to comprehend Android platform and its usefulness in application development
- Ability to acquire skill set to execute applications in Android based devices
- Ability to design and develop deployable Android applications



Course Outcome (CO)	
Ability to gain hands on experience in Android SDK	PO-1, PO-5, PO-6
Ability to design and develop applications in Android based devices	PO-1, PO-2, PO-5, PO-6
Ability to design and develop deployable Android applications	PO-1, PO-4, PO-5, PO-6
COURSE PLAN – PART II	
COURSE OVERVIEW	
Mobile Application Development Laboratory	
COURSE TEACHING AND LEARNING ACTIVITIES	
Week	Topic
1	Install the Android SDK and developer tools and build a test project to confirm that those tools are properly installed and configured
2	Write a program to develop an android application that includes different activities for different layouts.
3	Write a program to develop a Tic-Tac-Toe game application for android with 2 player support.
4	Write a program using a Table Layout for our restaurant data entry form, add a set of radio buttons to represent the type of restaurant
5	Write a program to send user from one application to another. (For example redirection to map)
6	Write a program to develop an android application that using activity class to show different events.
7	Write a program to develop an android application that call a number.
8	Write a program to develop an app that shows the location of the country based on the coordinates given
9	Write a program to develop an application in android mobile that used to send SMS
10	Write a program to develop an app that shows an app widget and connects the App with SQLite database, the data is fetched and the widget is updated.
11	Write a program to develop an app that shows different kinds of menus that the user can use to interact and navigate with, to update, delete or create data in the app



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12	Write a program to develop an application in android that plays the audio files.
13	Write a program to develop an android application that plays the video files.
14	Write a program to develop an application which capture the image using built in camera.
15	Write a program to develop an android application that convert text to speech.

COURSE ASSESSMENT METHODS

S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Continuous Assessment	Every Lab Session	-	20
2	Mid Sem Lab Assessment	4 th Week of March	3 hours	20
3	Lab Record	Every Lab Session	-	10
4	Model Exam	2 nd week of April	3 hours	20
CPA	Compensation Assessment	3 rd Week of April	3 hours	20
5	Final Assessment	2 nd Week of May	3 hours	30
TOTAL				100%

COURSE EXIT SURVEY (mention the ways in which the feedback about the course shall be assessed)

1. Students' feedback through class committee meetings.
2. Feedback questionnaire from students – from MIS at the end of the semester.

COURSE POLICY (preferred mode of correspondence with students, compensation assessment policy to be specified)

MODE OF CORRESPONDENCE (email/ phone etc)

Students may contact the faculty member for any clarification through e-mail or in person.

COMPENSATION ASSESSMENT POLICY

Student should not be absent for assessments unless their reason for absence is genuine. The absentees can appear for compensation assessment, provided they had submitted the medical certificate/on duty certificate within one week after rejoining.

