CF - 02A Rev.2 18.03.20

VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS) DEPARTMENT OF CSE

COURSE INFORMATION FORM - THEORY

Department	Computer Science And Engineering
Course Code &	18ITT61 & MOBILE APPLICATION DEVELOPMENT
Title	
Type &	Theory - Required
Designation	
Semester	6
Course	-
Prerequisites	
Course Co	-
requisites	
Contact hours	Lecture -3 Tutorial-0 Practical -0 Total- 3
Credits	3
Course handling Faculty	Mrs.R. Vidhya, AP/CSE
Preamble	Mobile Application Development is designed to impart the knowledge
	on application development framework and tools for creating android
	applications. It also equips the students to design, implement and
	deploy applications in mobile devices.
Course Outcomes	After the completion of this course, students should be able to
	1. Develop mobile application for the given user requirement using
	android development framework and tools.
	2. Create android applications using views, layouts, intents and SMS
	Manager API to send SMS and E-mails.
	3. Create menu, notifications and multimedia features for the
	applications using android Notification Manager and Multimedia APIs.
	4. Create databases for the applications to store and retrieve data using
	SQLite and Firebase.
	
	5. Create mobile applications using standard web technologies such as
Tonico	HTML5, CSS3 and JavaScript for android and iOS platforms.
Topics	UNIT I GETTING STARTED WITH ANDROID
	Android – Evolution of Android - Android architecture – Features- Core
	building blocks – Anatomy of android application – Android activity life
	cycle. Android Widgets: Button – TextView – EditText – RadioGroup
	-ToggleButton – CheckBox – Spinner –DatePicker - Progress Bar –
	DialogBox.
	UNIT II INTENTS, LAYOUTS AND TELEPHONY
	Intent - Types of Intent - Launching Activities using Intents. Layout:
	Relative Layout -Table Layout - Linear Layout - ListView - GridView -
	CardView. Android Telephony: Phone call -send Mail- Send SMS.
	UNIT III MENUS, NOTIFICATION AND MULTIMEDIA
	Menus -Option Menu - Adding and Updating menu items - Handling
	menu items. Android Notification – Android Toast. Multimedia in
	Android: Android camera – Android Audio player – Android Video
	player.
	UNIT 4 DATABASE AND CONTENT PROVIDERS
	Storage in Android - Android SQLite Database - Firebase Login -
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	Firebase authentication. Parsing in android - Android JSON parser -
	Creating API with PHP and MySQL - Connecting Android with MySQL
	using API - Android Google Map – Finding Current location.
	UNIT 5 HYBRID APP DEVELOPMENT
	Apache Cordova- Architecture of Apache Cordova - Building simple
	App using Apache Cordova- Publish the app on app store: Monetizing,
	promoting and distributing applications. React Native: Overview and its
	features.
Text Books	1. Reto Meier, "Professional Android 4 Application Development", Wiley India Pvt. Ltd, New Delhi - 2014.
	2. John M. Wargo, "Apache Cordova API Cookbook", Pearson Education – 2015.
Reference Books	1. ZiguardMedneiks, Laird Dornin G, Blake Meike and Masumi Nakamura, "Programming Android", O'Reily,2013.
	2. Anubhav Pradhan and Anil V Deshpande, "Composing Mobile Apps", First Edition, Wiley India Pvt. Ltd, 2014.
	3. Charlie Collins, Michael Galpin and Matthias Kappler, "Android in Practice", Manning Publications, 2012.
Website resources	1. https://developer.android.com/develop/ui/views/appwidgets
Website resources	2. https://developer.android.com/develop/ai/views/appwagets
	3. www.tutlane.com/tutorial/android/android-menus-options-context-popup
	4. www.slideshare.net/PRITITELMORE/content-provider-inandroid-58116099
	5. www.trio.dev/blog/hybrid-app-development
NPTEL Videos	1. https://nptel.ac.in/courses/106/106/106106147/, "Mobile
	Computing – Starting Android Programming", Professor
	Pushpendra Singh, IIT- Madras.
	2. https://nptel.ac.in/courses/106/106/106106222/, "Introduction to
	Modern Application Development", Prof. Madhavan Mukund, Prof.
On the sale Day	AbhijatVichare and Prof. Aamod Sane, IIT- Madras.
Contents Beyond Syllabus	

Faculty HOD