DON BOSCO INSTITUTE OF TECHNOLOGY, KURLA



ANDROID CERTIFICATION COURSE

DEPARTMENT OF COMPUTER ENGINEERING ACADEMIC YEAR 2019-2020

COURSE CO-ORDINATORS: Ms. Kalpita Wagaskar Ms. Mayura Gavhane

DON BOSCO INSTITUE OF TECHNOLOGY, KURLA, MUMBAI DEPARTMENT OF COMPUTER ENGINEERING

Course Code	Course Name
CERC0001	Android Application Development

Course objectives:

To develop android programming skill to solve real life problem

Course outcomes: On successful completion of course learner will be able to:

- Build and deploy his/ her Android application.
- Students understand the operation of the application, application lifecycle, configuration files, intents, and activities.
- Students will be able to develop a working knowledge of the custom UI elements and positioning.
- The trainee may develop a basic application that acts as a working example of all the topics covered in the class.

Prerequisite: Basics of Java, Any Programming Languages

Syllabus

Prerequisite: Basics of Java, Any Programming Languages

Module No.	Module Name.	Topics	Hrs
1	Introduction	 1.1 Introduction to java Concepts Classes and objects, inheritance, static Difference between Parent and Child classes Difference between overriding and overloading 1.2 Introduction and installation of Android Android Versions, API Levels Devices, Installation & configuration of Android Development Tools 	6 hours
2	Application Structure	 2.1 Application Structure Devices running on Android platform Android Architecture Understanding the Activity Lifecycle Activity Life Cycle States and working 	10 hours

		 2.2 Creating the first Android Project Building a Simple User Interface Understanding .xml file Implementing TextView, EditText & Button component Understanding .Java file Linking the Java components and xml components Understanding Manifest file Debugging and Running Android Application inside Android Smartphone Android Application Development Emulator-AVD 	
3	Linear Layout and Music App	 3.1 Introduction to Linear Layout Implementing Margin, Padding, Weight & Space components 3.2 Music App Implementing Audio files inside Android App Integrating Play, Pause, Stop button Developing the Programming Logic 	6 hours
4	Menu App	 4.1 Menu App Integrating Menu.xml file Linking up the Menu file & Java file Creating the Menu UI Changing Background colour with Menu Options 	6 hours
5	Intent,Checkbox and Radio Buttons	 5.1 Intent Creating multiple activities in Android Moving between activities with Intents Customizing Activities Difference between Implicit & Explicit Intent 5.2 Checkbox and Radio Buttons Create CheckBox Create Radio Button Calculator App 	6 hours
6	SQLite Database and Google PlayStore	 7.1 SQLite Database Creating an Database Android app with Employee Listing Understanding and integrating the main functions of the Database class Creating multiple field and adding data inside Database Programming logic to View modify & delete data inside database 	5 hours

		 7.2 Google PlayStore Understanding the process of app deployment Uploading Android Apps on PlayStore 	
7	Project Development	 6.1 App Development Login/Registration Project (using SQLite) App to get current weather details of any city 	6 hours

Datewise topics covered

	se topics cover					
1	Module	Topics	Hrs	Date	Resource	Time
le	Name.					
No.						
1	Introduction	1.1 Introduction to java	4 hours	17 th	Kalpita	9:30 to
		Concepts		August20	•	10:30
		Classes and objects ,		19		
		inheritance, static				
		 Difference between 				
		Parent and Child classes				
		 Difference between 				
		overriding and				
		overloading				
		1.2 Introduction and				10:30 to
		installation of Android				12:30 pm
		Android Versions, API				
		Levels				
		 Devices, Installation & 				1:30 to
		configuration of Android				3:30 to
		Development Tools				J.Jopin
2	Application	2.1 Application Structure	3 hours	17 th	Kalpita	4:00 to
	Structure	 Devices running on 		august	_	5:00pm
		Android platform		2019		
		 Android Architecture 				
		 Understanding the 				
		Activity Lifecycle				
		 Activity Life Cycle 				
		States and working				
		2.2 Creating the first Android				
		Project				
		Building a Simple User				
		Interface				
		Understanding .xml file				
		Implementing TextView,				
		EditText & Button				
		component				
		Understanding .Java file				
		Linking the Java				

		components and xml components Understanding Manifest file Debugging and Running Android Application inside Android Smartphone Emulator-AVD6			
3	Linear Layout and Music App	 3.1 Introduction to Linear Layout Implementing Margin, Padding, Weight & Space components 3.2 Music App Implementing Audio files inside Android App Integrating Play, Pause, Stop button 	6 hours	31st august20 19 4 th Septembe r2019	Mayura
4	Menu App	 4.1 Menu App Integrating Menu.xml file Linking up the Menu file & Java file Creating the Menu UI Changing Background colour with Menu Options 	6 hours	4 th Septembe r2019 14 th Septembe r2019	Mayura
5	Intent,Chec kbox and Radio Buttons	 5.1 Intent Creating multiple activities in Android Moving between activities with Intents Customizing Activities Difference between Implicit & Explicit Intent 5.2 Checkbox and Radio Buttons Create CheckBox Create Radio Button Calculator App 	6 hours	14 th Septembe r2019	Mayura
6	SQLite Database and Google PlayStore	 7.1 SQLite Database Creating an Database Android app with Employee Listing Understanding and integrating the main 	2hours	05 th October 2019	2hrs -Kalpita

		functions of the Database class Creating multiple field and adding data inside Database Programming logic to View modify & delete data inside database 7.2 Google PlayStore Understanding the process of app deployment Uploading Android Apps on PlayStore				
7	Project Developme nt	6.1 App DevelopmentLogin/RegistrationProject (using SQLite)	4 hours	05 th October 2019	Kalpita	

All the students who attended the course will be ceritified.









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