

Android Certification Course

The Department of Computer is conducting an Android Certification Course for Students from Monkfox Organization, Bangalore

Objective : To develop android programming skill to solve real life problem

Outcome : To create an android app for the given problem

Students Registered : 28 (SE,TE from Computers and IT)

Fees : Rs. 2950

Trainer : Mr. Dinesh Tavasalkar from Monkfox, Bangalore

Dates of Course : 25th August 2018, 1st, 8th, 29th September 2018, 6th and 13th October 2018

Duration : 8 hours for 6 days

Organized By: Kalpita Wagaskar and Mayura Gavhane, Department of Computer Engineering

Syllabus :

Android Fundamentals

1. History of Android
2. Open Handset Alliance
3. Android Libraries and Classes
4. Intro to Android Versions
5. Devices running on Android platform
6. Android Architecture
7. Understanding the Activity Lifecycle
8. Activity Life Cycle States and working
9. Installation of Android Studio

EditBox – First Android App

1. Creating the first Android Project
2. Building a Simple User Interface
3. Understanding .xml file
4. Implementing TextView, EditText & Button component
5. Understanding .Java file
6. Linking the Java components and xml components
7. Understanding Manifest file
8. Debugging and Running Android Application inside Android Smartphone

Font Integration

1. Integrating External font in Android App

Linear Layout

1. Intro to Linear Layout

Implementing Margin, Padding, Weight & Space components

1. Implementing Audio files inside Android App
2. Integrating Play, Pause, Stop button
3. Developing the Programming Logic

Music App

1. Integrating Menu.xml file
2. Linking up the Menu file & Java file

- 3. Creating the Menu UI
- 4. Changing Background colour with Menu Options

Material Design Basics

- 1. A look at different Material design websites
- 2. Integrating Material design colors and shaders
- 3. Changing the Notification bar & Toolbar colors according to Material Design Principle

Intent

- 1. Creating multiple activities in Android
- 2. Moving between activities with Intents
- 3. Customizing Activities
- 4. Difference between Implicit & Explicit Intent
- 5. Checkbox and Radio Buttons

Login Application

- 1. Login App integrating User name, Password field & Checkbox

Calculator App

- 1. Developing an Calculator App with ADDITION, SUBSTRACTION, MULTIPLICATON &
- 2. DIVISION Button
- 3. Implementing algorithms for addition, subtraction, multiplication & division

Time Table App using List View

- 1. Intro to List View in Android

Displaying numerical table values inside listWeb View

- 1. Implementing web view component and converting Website into Android App

Camera App

- 1. Camera application with functions for Capturing an Image from Camera and display it inside
- 2. Image View

Splash Screen App

- 1. Custom splash for adding Company Logo and UI Text
- 2. Intents & Bundles
- 3. Broadcast Receivers
- 4. Snack Bar and Floating Action Buttons
- 5. AlertDialogBox

Intro to SQLite Database

- 1. Creating an Database Android app with Employee Listing
- 2. Understanding and integrating the main functions of the Database class
- 3. Creating multiple field and adding data inside Database
- 4. Programming logic to View modify & delete data inside database

Fragments and Navigation Drawer

- 1. Designing Navigation Tabs
- 2. Customizing Navigation Cover Image and Header Image
- 3. Creating a Navigation List
- 4. Adding Fragments in Navigation Drawer
- 5. Changing between fragments with Navigation List

Google PlayStore

- 1. Understanding the process of app deployment and uploading Android Apps on PlayStore

Date wise topics covered during the course

Date	Theory	Apps
25 th August 2018	Basics of Android, Installation of Android Studio and Basic Concepts of JAVA	EditBox
1 st September 2018	Introduction to Kotlin, Folders in Android Studio, Layouts and GPMW	EditBoxKotlin, MyAccount, MusicApp, GPMW
8 th September 2018	Checkboxes, Radio Buttons, Toast, Intents and Bundles	Calculator, CheckBox, RadioButton, IntentPage, LoginPage, BundleIntent
29 th September 2018	App Life Cycle, Splash Screen, Menu, ListView, AlertDialog	ListAct, ListTable, AlertDialogBox, SplashScreen, Menu
6 th October 2018	Database Management, Use of Phone Camera, Webpages in an App	MyCamera, SQLite, WebApp
13 th October 2018	Broadcast Receiver, Test regarding the full Workshop	BroadcastReceiver, Test





**Android Certification Course Conducted Successfully by
Department of Computer Engineering August 2018 – October 2018**

Competition Android Course

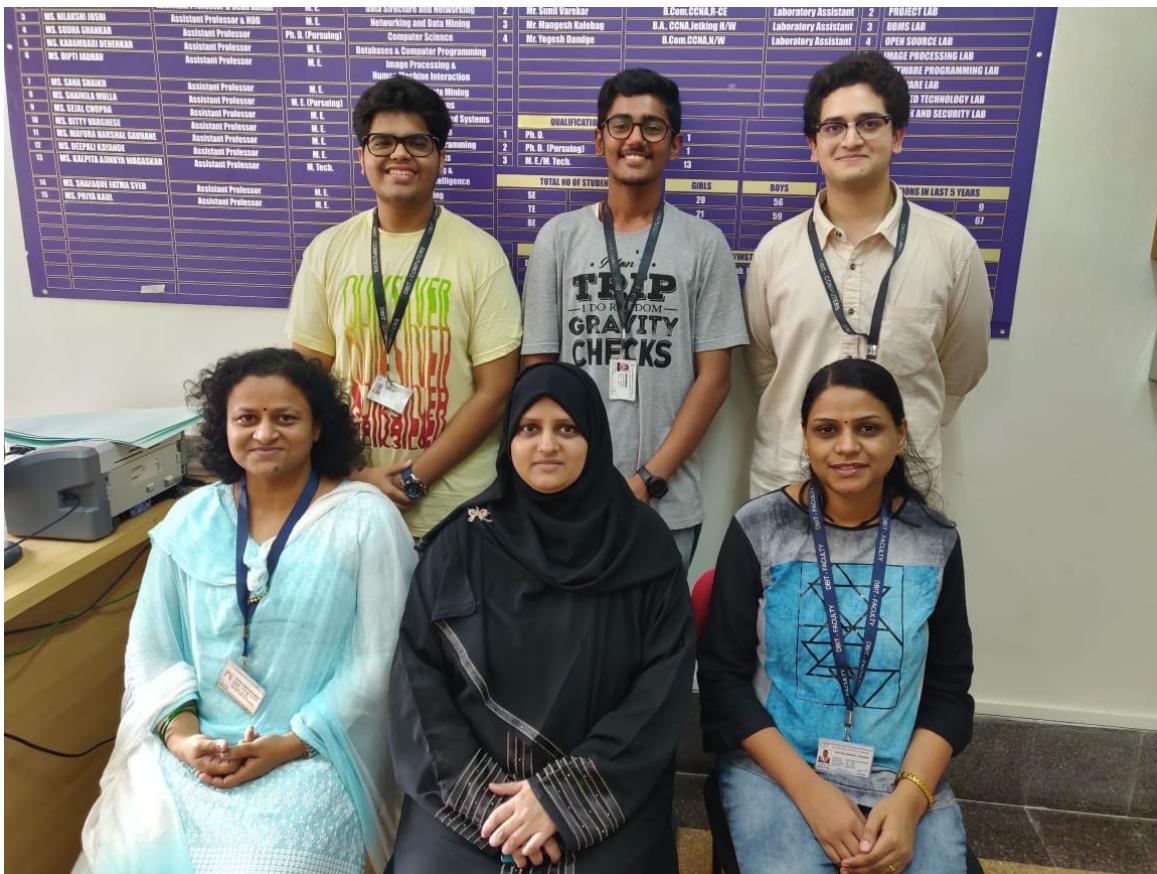
App Design :

- The test was to check how much the students had grasped through out the workshop.
- The test was to create an app which lets the user login using a particular name and password. The user also needs to select any gender and login. On failing to do any of the things correctly, an error will be shown using Toast. If succeeded, then the next activity should display in Name, Password and the Gender selected.
- It was for about half an hour to 45 mins. Two of the students were able to complete it. Since Sir had to choose Three winners, based on his observation of the students he chose a student who had nearly completed.
- It was based on all the concepts which were done throughout the workshop.

- **Components Used:** EditText (2), CheckBox (2), Button, TextView (3), Intents and Bundles
- **Activities:** MainActivity, WelcomeActivity

Three students were declared winners. The winners are all from SE Comp

- 1) Arjun Chavan
- 2) Varun Soni
- 3) Jovin Nicholas



ANDROID CERTIFICATION COURSE

Attendance

Sr.No	Name	Roll No	Class	Signature	Signature	Signature	Signature	Signature	Signature
1	Samara Pires	48	se comps			AB	AB	AB	AB
2	Shreya Ghute	19	se it			AB	AB	AB	AB
3	Rutuja Randive	51	se comps			Pawar	Pawar	Pawar	Pawar
4	Vaishnavi Gadgil	21	se comps			AB	AB	AB	AB
5	Rebecca Aldrin Prasad	49	se comps			AB	AB	AB	AB
6	Sharvil Aldrin Prasad	44	se it			AB	AB	AB	AB
7	Arjun Umesh Chavan	6	se comps			AB	AB	AB	AB
8	Dheeraj Jothalasseri	43	se comps			AB	AB	AB	AB
9	Nevil DSouza	14	se comps			AB	AB	AB	AB
10	Rahul Pudurkar	50	se comps			AB	AB	AB	AB
11	Marinus Fernando	16	Te IT			AB	AB	AB	AB
12	Christina Barcey	3	TEIT			AB	AB	AB	AB

13	Varan Soni	56SE Comps	Varan	Soni	Soni	Soni	Soni	Soni
14	Priyanka Puratik	56TEComps	Priyanka	Puratik	Puratik	Puratik	Puratik	Puratik
15	Sherin Palamattam	44TEComps	Sherin	Palamattam	Sherin	Palamattam	Sherin	Palamattam
16	Sagar Rao	59TE Comps	Sagar	Rao	Sagar	Rao	Sagar	Rao
17	Ishreyas naik	40se it	Ishreyas	Naik	Ishreyas	Naik	Ishreyas	Naik
18	Jane Gabrielle Arvindhan	Fr.Agnel(TT)	Jane	Gabrielle	Jane	Gabrielle	Jane	Gabrielle
19	Loud Bharathy Arokiad	35SE comps	Loud	Bharathy	Loud	Bharathy	Loud	Bharathy
20	Jeslyn Jaison	25se comps	Jeslyn	Jaison	Jeslyn	Jaison	Jeslyn	Jaison
21	Mishra Valbhav Vinodku	40SE Comps	Valbhav	Jaison	Valbhav	Jaison	Valbhav	Jaison
22	Akshay Kumbhar	34se comps	Akshay	Kumbhar	Akshay	Kumbhar	Akshay	Kumbhar
23	Joyce priyanka menezes	40te comps	Joyce	Joyce	Joyce	Joyce	Joyce	Joyce
24	khan tooba rizwan	34te comps	①.Khan	②.Khan	③.Khan	④.Khan	⑤.Khan	⑥.Khan
25	yash bitla	45se comps	Yash	Bitla	Yash	Bitla	Yash	Bitla
26	Elana Alphonso	35te comps	Elana	Alphonso	Elana	Alphonso	Elana	Alphonso
27	Sherman Sequeira	65Te comps	Sherman	Sequeira	Sherman	Sequeira	Sherman	Sequeira
28	JOVIN NICHOLAS	42SE COMPS	JOVIN	NICHOLAS	JOVIN	NICHOLAS	JOVIN	NICHOLAS
29	Aditya Pawar	50TE COMPS	Aditya	Pawar	Aditya	Pawar	Aditya	Pawar
30	Padmesh Naik	42TE COMPS	Padmesh	Naik	Padmesh	Naik	Padmesh	Naik

31 Column Grav 13 TE Comps

Young

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