



ATHARVA EDUCATIONAL TRUST'S
ATHARVA COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by Government of Maharashtra
& Affiliated to University of Mumbai - Estd. 1999 - 2000)

Department of Information Technology

Two Days Hands on Workshop “Android App Development”

- Date :** 8th & 9th October, 2018.
Time : 09 am- 05.00 pm
Venue : Database Management Lab (Lab - 10), First Floor,Phase 1,ACE.
Speaker : Mr. Kunal Jadhav (Sr. Software Developer, Mastek Pvt. Ltd.)
Target Audience: SE INFT Students

Department of Information Technology has organized one day Workshop - “Android App Development” on 8th & 9th October, 2018.

Android is a linux based operating system for devices such as smartphones and tablet computers. The aim of the session was to familiarize the participants with the basics of android programming and the moving to advance branches so that at the end the participants can design their own apps

Android is an open source project of the Open Handset Alliance that has revolutionised the user experience of a mobile device. With Android, it is a fact that mobile devices will have more user-friendly applications than ever before and putting the internet in the handsets of many, many people around the world. The biggest advantage is that the success of Android depends on the availability of unique and engaging user applications created by developers just like you.

This Android workshop was an intensive, results focused program aimed at helping learners create applications using Google's Android™ open-source platform. The course explained what Android™ is and how it compares to other mobile environments, the setup of the Android™ Eclipse-based development tools, the Android™ SDK, all essential features, as well as the advanced capabilities and APIs such as background services, accelerometers, graphics, and GPS.

Our Android program completely involved the learners in the Android platform, allowing them to walk away fully ready to build Android applications. Our Android program includes the absolute basics required to help learners understand the very core of Android application development. If you have some prior application development expertise, you may benefit



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from grasping concepts even more easily. Upon completion of our Android program, the learner will be proficient in every aspect of the Android platform beginning with base kernel right up to building end-user Android applications.

With the zest to have industry academic alliance and to bridge the gap between academics and industry it is necessary to introduce such demanded topics for students as a looking beyond syllabus programs. 45 students have attended the workshop.

Remarkable Feedback was received from students and they have demanded for more such workshops.

Topics Covered:

➤ **Day 1:**

➤ **Session 1:**

- Views, View Groups, Activities
- Views - TextView, EditText, Button, ImageView, CheckBox.
- View groups - Linear layout, Relative layout, RecyclerView.
- Activities - Lifecycle methods, StartActivity, StartActivityForResult

➤ **Session 2:**

- Fragments and Data passing
- Fragments - Lifecycle methods. Add, show, hide and replacing fragments.
- Data passing - Intent types. Using Intent and Bundle for data passing.

➤ **Day 2:**

➤ **Session 3:**

- Storage in Android, AsyncTask
- Android Storage - SQLite (RDBMS), File storage (SD Card).
- AsyncTask - for consuming Network API.

➤ **Session 4:**

- Services, Broadcast receivers and MVVM
- Services - Service types, Intent service.
- Broadcast receivers - Static and dynamic broadcast receivers.
- MVVM design pattern



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Workshop Photographs:



Workshop Co-ordinators

HOD INFT Dept

Ms. Varsha Salunkhe
Mrs. Komal Gothwal

Prof. Nileema Pathak



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Mrs. Pranoti Nage