

# TECHNOLOGY LEARNING CENTER

*..Finishing School for Engineer's*

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## Workshop on Advanced Mobile Computing



It is a two day Workshop, Advance Android's system UI provides the framework on top of which you build your app. important aspects include the Home screen experience, global device navigation, and notifications. Your app will play an important part in keeping the overall Android experience consistent and enjoyable to use. At the end of this workshop we introduce the main elements for achieving this goal in your app. Advance Android provides a way for you to expose even your data storage applications and Detail Explanation of Android SDK Document.



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## Workshop Schedule:

### DAY 1

#### Session 1

- Overview of Android Architecture
- Detail Explanation of Inline & Outline Architecture
- Activity Life Cycle
- Services i.e., Background Execution
- Overview of Menus
- Menus Creation
- Status Bar Menu
- Overview of Notification Manager
- Creation of Notification
- Notifications & Menu APPS

#### Session 2

- Overview of Multimedia
- Audio Interface
- Video Interface
- Camera Interface



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- Instant Multimedia Interface App

## DAY 2

### Session 1

- Overview of Grid View
- Grid View Creation using Images
- Gallery App
- Introduction to Databases
- Types of Databases
- Shared Preferences
- Internal Storage
- External Storage i.e., Sdcard

### Session 2

- Introduction of SQLite Database
- Overview of CRUD
- Operations of CRUD
- Creating Database



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- Create & Update Databases
- Read & Delete Databases
- Explanation of Android SDK Document
- Student Details Storage App
- Q & A session

## *Take Away for the Participants:*

- Students can get Real-time Experience on Data Storage by using Android
- Students can do their Android Academic Projects by using Eclipse IDE.
- By the help of SDK Doc's, Students can develop any kind of App's.
- By using SDK Doc's, Students can upgrade easily for upcoming Versions also.

## *Workshop Benefits and Highlights:*

- Learn & Interact with Robotics Experts and get to know basics of Robotics and its control.
- Receive an unparalleled education on the art of Robotics with personal one-on-one attention.
- Learn to program and build robots within 2 days.
- PowerPoint Presentation, Live Demos, Interactive Question & Answer sessions and comprehensive material.



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## Benefits of the participants

- Certificate of Participation to all Participants from Technology Learning Center
- Free Softcopy of workshop content
- Technology Learning Center summer training redemption coupon

## Our Requirement for the program:

- Minimum of 50 teams for conducting the workshop
- One Computer CD-ROM drive for each team or students are requested to get their laptop preferably with Windows OS.
- LCD projector and microphone PA system.
- Seminar hall or computer lab for conducting the workshop.

## Workshop Duration:

- 2 Days [7 Hours/Day]

## Pre-requisites:

The modules are designed in order to cater the basics of Robotics and coding however following pre-requisites will be an added advantage.

- Basic knowledge of communications
- Basic signals and systems.



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