



Royal Education Society's

College of Computer Science & Information Technology

Accredited by NAAC with **B** Grade

6- Day Workshop on Android Application Development

Syllabus

1. Introduction

- Android History and Android Architecture
- Android Versions & different development tools
- Android Studio Project Structure
- Activities and Activity Life Cycle
- Fragments
- Android Layouts: Relative Layout, Linear Layout, Frame Layout, Grid Layout
- Android Views & Widgets: Button View, EditText View, TextView View, ImageView, Spinner

2. Menus, Messages, and Intents

- Adding option menus Adding popup menus
- Showing dialogs
- Raising toasts
- Intents and Intent Objects, Intent Filters, Explicit and Implicit Intents
- Shared Preferences

3. SQLite

- Introducing SQLite and creating a database
- Opening and closing a database
- Working with cursors
- Inserts, Display with ListView, updates, deletes and search with SearchView

4. External Database Communication and Notifications

- Introduction to JSON file formats
- Using Web Services to connect to remote MySQL database with PHP
- Significance of AsyncTask class
- Fetching data from JSON & loading into Activities
- Google Fire base Notifications