

## Mobile Application Development



### MOBILE APPLICATION DEVELOPMENT

**Organized by Electronics and ICT Academy IIT Roorkee**

❖ Danyant Software Noida, Industry Experts

❖ Dr. Sudip Roy (IITR)

❖ Dr. Sanjeev Manhas (PI, IITR)

Applications are invited from faculty members, research scholars, master students of ECE/EE/CS/IT discipline of colleges/universities/institutes to attend a training programme on **Mobile Application Development**

**Course Date:** 21-26 November

**Last Date for Registration:** 19/11/2016

**Venue:** TRD Cell Dehradun



### Supported By

**Department of Electronics and Information Technology (DeitY), Ministry of Communication and Information Technology, Government of India**

## About E&ICT Academy

- ❖ Electronics and Information Communication Technology (E&ICT) Academy is an initiative of DeitY, Ministry of Communications and IT, Govt. of India for quality improvement of faculty members, research scholars and post-graduate students.
- ❖ E&ICT Academy IITR is one of the seven such academies at various IITs and NITs approved by Govt. of India.
- ❖ E&ICT Academy IITR aims to bring in depth erudition in the form of theoretical and practical exposure to the trainees.
- ❖ The training would additionally cover development of entrepreneurship adeptness, which will facilitate cultivation of start-ups in local regions.

## Objective and Outcomes of the Course

- ❖ Objective of the course is to provide basic knowledge in mobile application development using Android and Hybrid platforms. The program will focus on practical aspects, and include examples which are relevant to the current industry requirements.
- ❖ At the end of the program, participants are expected to deploy mobile apps on Android platform from one of following categories:
  - \*Location based App
  - \*Camera based App
  - \*Utility App
  - \*Sensor based App

## Course Program

- The program is split into lectures and labs/hands-on sessions daily.
- Course evaluation by quizzes and project work
- Certificates with grades to participants by E&ICT Academy IITR.

### Course Contents:

- HTML5
- Ionic, Cordova Framework
- Accessing device capabilities through Cordova
- Android Fundamentals
- Application Structure
- Emulator
- UI
- Deployment Techniques

**Contact Hours:** Six days (Theory, Hands-on, Tutorials)

## Focus Area

- Mobile Application Development using Native Android platform
- Mobile Application Development using Hybrid platform.

## How To Apply

**Online:** The participant may log on to the E&ICT academy IITR (website: <http://eict.iitr.ac.in>) and fill-up the application form.

**By Email:** Scanned copy of the filled-in application form duly endorsed by the forwarding authority is to be send to E&ICT Academy IITR (Email: [eict@iitr.ac.in](mailto:eict@iitr.ac.in), [eictiitr@gmail.com](mailto:eictiitr@gmail.com)).

Registration form in this brochure can be downloaded from the website.

## Registration Form

Name of the Applicant :	Affix stamp size photograph
.....	
Gender: .....	
Designation: .....	
Name and Address of the Organization/Institute:	
.....	
City/Town:.....	
Email:.....	
Phone Number:.....	
Mobile Number:.....	
Do you need Accommodation? (Yes/No):.....	
DD Number:.....Date:.....	
Issuing Bank:.....Payable at:.....	
Signature of the Applicant:.....	
Signature and Seal of the Forwarding Authority (Organization/Institute):	
Name: .....	
Designation:.....	

## Registration Fee

**Registration Fee (Including course materiel):**

Rs. 5000/- for participants from academia

Rs. 7000/- from Industry and Research Organization

Mode of Payment: Demand Draft in the name of "DEAN SRIC IIT ROORKEE"

## Contact Details

**For more details please log on to E&ICT academy IITR**

(website: <http://eict.iitr.ac.in>)

**Course Coordinators: Dr. Sudip Roy, IITR**

**Dr. Sanjeev Manhas, PI, IITR**

**Email:** [eict@iitr.ac.in](mailto:eict@iitr.ac.in), [eictiitr@gmail.com](mailto:eictiitr@gmail.com)

**Phone No:** +91-1332-286457, **Mob No:** +91-7078627392

# Mobile Application Development

## Program Objective

The program is designed to provide participants basic knowledge in mobile application development using Android and Hybrid platforms. The program will focus on practical aspects, and include examples which are relevant from current industry requirements perspective.

## Focus Area

- Mobile Application Development using Hybrid
- Mobile Application Development using Native Android

## Course Curriculum

- HTML5
- Ionic, Cordova Framework
- Accessing device capabilities through Cordova
- Android Fundamentals
- Application Structure
- Emulator
- UI
- Deployment Techniques

## Contact Hours

48 (Theory, Hands-on, Tutorial)

## Pre-Requisites (Desirable)

- Basic knowledge of C and C++
- Basics of Java Programming
- HTML

## Lab Platform to Used

- Windows/Linux
- Cordova (Open source)
- Ionic
- Node.js
- Android SDK
- JDK

## Program Outcome

At the end of the program, participants are expected to deploy mobile apps on Android platform from one of following categories

- Location based App
- Camera based App
- Sensor based App
- Utility App