

**NATIONAL LEVEL CHAMPIONSHIP PROGRAM(WORKSHOP) on
ANDROID APP DEVELOPMENT**

Interested students/teachers may register for national level championship program on ANDROID APPS DEVELOPMENT organized by dept. of Computer Science & Engineering, School of Engineering & Technology(SET) Dimapur, Nagaland University . Authorized team from Techtron Technologies in association with TECHNICHE Annual Techno-Management Festival of IIT Guwahati will visit SET to conduct entire event.

Brief Event Details

Round 1: Workshop on Android App Development at SET, Dimapur, Nagaland University

Round 2: Competition after workshop at SET, Dimapur, Nagaland University

Final Round: Winners of round 2 will participate @ TECHNICHE, IIT-GUWAHATI

Registration fee: 900 INR per participants.

Venue: School of Engineering & Technology, Dimapur, Nagaland University

Date & Timing: 22nd-23rd September, 2017 @ 9:00 AM

Contact Details for registration: Name and Contact details of five coordinators are given below

S. No	Name	Designation	Email id with Mobile Number
1.	Ramesh Singh	Assistant Professor	ramesh@nagalanduniversity.ac.in 9508961247
2	Akangjungshi Longkumer	Assistant Professor	akangjungshi@nagalanduniversity.ac.n 7005137685
3	Chenlep Yakha Konyak	Assistant Professor	chenlip.salym@gmail.com 8731895353
4	Ngoushutho Ngouri	Student	ngoushuthongouri@gmail.com 8730953401
5	Lemasanen Longchar	Student	sanenlongchar337@gmail.com 8118922579

Event Details:

Day 1 (Session 1)

1. Introduction to the Android world

- Android Architecture
- IO's Vs Android
- Scope as an Android App Developer
- Understanding Eclipse IDE
- What is API Levels?

2. Understanding the Building Environment for Android

- Basic programming languages intro: Java and XML
- What is FrontEnd and Back-End environment
- Designing Frontend through XML
- Designing Backend through JAVA
- Practicing various design Layouts

3. Understanding Layouts

- What are Layouts and Widgets?
- Working with various layouts: Linear, Relative, Table, Frame
- Working with various Widgets: Text-View, Edit-Text, Buttons, Image-Views, and Scroll View etc.
- Practicing Layout Nesting's on various Layouts
- What is Weightsum and Gravity?

Day 1 (Session 2)

1. Getting familiar with Activity

- What are Activity and its Life-Cycle?
- Designing an Activity
- Practicing its LifeCycle
- What is Manifest File
- Registering the Activity in Manifest File
- Setting up the Android Virtual Devices
- Testing your Hello World Application

2. Introduction to Intents

- What are Intents
- Types of Intents: Explicit and Implicit
- Starting another Activity using both types of Intents
- What is Bundle?

- Sending Data from one Activity to another

- Building Camera application, fetching image using Intent

3. Understanding various Notifications

- What is Toast?
- What is Dialog and AlertDialog?
- What is actionBar Notification?

Day 2 (Session 3)

1. Developing Applications

- Splash Screen Application
- Music Player Application
- SMS Application
- Camera Application
- Email Application
- TextTo-Speech Application

Day 2 (Session 4)

Competition

After the hand on theory and practical experience from the workshop, a competition will be conducted for the participants.

Certificate Distribution

On behalf of Techtron Technologies Certificate of Merit will be provided to all Zonal Round Winners and Certificate of Participation will be provided to all the Zonal Round Participants (Excluding Merit Participants).

Sd/-

(Ramesh Singh)

**In-charge Dept. of Computer Science & Engineering
SET, Nagaland University**