



# Electronics & ICT Academy

(Under Ministry of Electronics and Information Technology (MeitY), Govt. of India)

Indian Institute of Technology Guwahati, Guwahati, Assam, Pin 781039

Phone: +91-361-2582503, 2582536, +91-7086502139.

Email: eictacad@iitg.ernet.in, eictacad@gmail.com

**Venue:** Indian Institute of Information Technology Manipur.

**Date:** 21-27 Aug, 2017.

**Reporting time on 21<sup>st</sup> August is 09:00 am.**

Date	Time	Topic
21-08-2017 (Day 1)	09.00am-09.30am	Registration & Reporting
	09.30am-10.00am	Inauguration
	10.00am-10.15am	Tea Break
	10.15am-01.15pm	Expert Talk by Dr. Sanasam Ranbir Singh Associate Professor, Dept. of CSE, IIT Guwahati on "Social Media Analysis"
	01.15pm-01.45pm	Lunch
	01.45pm-03.45pm	<ul style="list-style-type: none"> <li>▪ Uses-SDK?</li> <li>▪ Resources &amp; R.java</li> <li>▪ Layouts &amp; Drawable Resources</li> <li>▪ Activities &amp; Activity Lifecycle</li> <li>▪ Editing Emulator Settings</li> <li>▪ App Run Device / Device Setting</li> <li>▪ MVC and MVP Architecture</li> <li>▪ ART Runtime.</li> </ul>
	03.45pm-04.00pm	Tea Break
	04.00pm-05:00pm	<ul style="list-style-type: none"> <li>▪ Sub-Activities</li> <li>▪ Activities Lifecycle</li> <li>▪ Creating Multiple Activities</li> <li>▪ Buttons and Toasts</li> </ul>
05:00pm-05.15pm	MCQ	
22-08-2017 (Day 2)	09.00am-10.00am	<ul style="list-style-type: none"> <li>▪ Intents</li> <li>▪ Explicit Intents</li> <li>▪ Implicit Intents</li> <li>▪ Intent Filters.</li> </ul>
	10.00am-10.15am	Tea Break
	10.15am-11.45am	<ul style="list-style-type: none"> <li>▪ Time and Date</li> <li>▪ Images and Media</li> <li>▪ Composite</li> <li>▪ AlertDialogs &amp; Toast</li> <li>▪ styles.xml</li> <li>▪ Drawable Resources for Shapes, Gradients (Selectors)</li> <li>▪ Style Attribute in Layout file.</li> </ul>
	11.45am-01.00pm	<ul style="list-style-type: none"> <li>▪ Logcat Usage</li> <li>▪ Standard</li> <li>▪ singleTop</li> <li>▪ singleTask</li> <li>▪ singleInstance</li> </ul>

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		<ul style="list-style-type: none"> <li>▪ Custom Fonts</li> </ul>
	01.00pm-01.30pm	Lunch Break
	01.30pm-02.30pm	<ul style="list-style-type: none"> <li>▪ Option Menu</li> <li>▪ Sub-Menu</li> <li>▪ Menu from XML</li> <li>▪ Menu via Code.</li> </ul>
	02.30pm-03.30pm	<ul style="list-style-type: none"> <li>▪ ListView and ListActivity</li> <li>▪ Custom ListView</li> <li>▪ GridView using Adapters</li> <li>▪ View Holder</li> </ul>
	03.30pm-03.45pm	Tea Break
	03.45pm-04.45pm	<ul style="list-style-type: none"> <li>▪ View Flipper</li> <li>▪ Splash Screen</li> <li>▪ Handler Thread.</li> </ul>
	04.45pm-05.00pm	MCQ
23-08-2017 (Day 3)	09.00am-11.00am	<ul style="list-style-type: none"> <li>▪ Array Adapters</li> <li>▪ Base Adapters</li> <li>▪ Alarms</li> <li>▪ Pending Intent</li> <li>▪ Android Build Process</li> <li>▪ Developer Tools</li> <li>▪ Job Scheduler</li> </ul>
	11.00am-11.15am	Tea Break
	11.15am-12.45pm	<ul style="list-style-type: none"> <li>▪ Shared Preferences</li> <li>▪ Preferences from XML</li> <li>▪ Code</li> <li>▪ Build App</li> <li>▪ Test</li> <li>▪ Signing</li> <li>▪ Deploy.</li> </ul>
	12.45pm-01.15pm	Lunch Break
	01.15pm-03.30pm	<ul style="list-style-type: none"> <li>▪ Fragments</li> <li>▪ Fragment Lifecycle</li> <li>▪ Create Multiple Fragments</li> <li>▪ Fragment Navigation</li> <li>▪ Tab View</li> <li>▪ View Pager (Swipe View)</li> <li>▪ Headless Fragment</li> <li>▪ Passing Information between: Fragment to Fragment.</li> </ul>
	03.30pm-03.45pm	Tea Break
	03.45pm-04.45pm	<ul style="list-style-type: none"> <li>▪ Web URLs, Email Address, and Text</li> <li>▪ Map Address and Phone Numbers</li> </ul>
	04.45pm-05.00pm	MCQ

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24-08-2017 (Day 4)	09.00am-10.00am	<ul style="list-style-type: none"> <li>▪ SQLite Programming</li> <li>▪ SQLiteOpenHelper</li> <li>▪ SQLite Database</li> </ul>
	10.00am-10.15am	Tea Break
	10.15am-12.15pm	<ul style="list-style-type: none"> <li>▪ Services</li> <li>▪ Different Types of Services</li> <li>▪ Intent Services</li> <li>▪ Notifications</li> </ul>
	12.15pm-01.45pm	<ul style="list-style-type: none"> <li>▪ CRUD Operations</li> <li>▪ Internal Storage</li> <li>▪ External Storage</li> <li>▪ Custom Views</li> </ul>
	01.45pm-02.15pm	Lunch Break
	02.15pm-03.30pm	<ul style="list-style-type: none"> <li>▪ Broadcast Receivers</li> <li>▪ Sticky (Broadcast) Intents</li> <li>▪ SMS</li> </ul>
	03.30pm-03.45pm	Tea Break
	03.45pm-04.45pm	<ul style="list-style-type: none"> <li>▪ MMS</li> <li>▪ Email</li> </ul>
	04.45pm-05.00pm	MCQ
25-08-2017 (Day 5)	09.00am-11.00am	<ul style="list-style-type: none"> <li>▪ Google Maps Integration</li> <li>▪ Map-based Services</li> <li>▪ GPS-based Services</li> <li>▪ Location-based Services</li> <li>▪ Sample Programs</li> </ul>
	11.00am-11.15am	Tea Break
	11.15am-01.15pm	<ul style="list-style-type: none"> <li>▪ Push Notifications</li> <li>▪ Google Cloud Messaging for Android (FCM)</li> <li>▪ Geo Fencing</li> </ul>
	01.15pm-01.45pm	Lunch Break
	01.45pm-03.15pm	<ul style="list-style-type: none"> <li>▪ Internet Connectivity</li> <li>▪ Async Task</li> <li>▪ JSON Parsing</li> <li>▪ Volley Library</li> <li>▪ Recycler View</li> </ul>
	03.15pm-03.30pm	Tea Break
	03.30pm-05.00pm	Project Session
05.00pm-05.15pm	MCQ	
26-08-2017 (Day 6)	09.00am-11.00am	<ul style="list-style-type: none"> <li>▪ WebView Layout</li> <li>▪ Wi-Fi</li> <li>▪ Widgets</li> <li>▪ Custom Video Player</li> </ul>
	11.00am-11.15am	Tea Break
	11.15am-12.00pm	Project Session (Continued)
	12.00pm-01.00pm	<ul style="list-style-type: none"> <li>▪ Audio Capture</li> </ul>



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		<ul style="list-style-type: none"><li>▪ Audio Manager</li><li>▪ Media Player</li></ul>
	01.00pm-01.30pm	Lunch Break
	01.30pm-02.30pm	<ul style="list-style-type: none"><li>▪ Audio Streaming</li><li>▪ Video Streaming</li></ul>
	02.30pm-04.00pm	<ul style="list-style-type: none"><li>▪ Android Animations</li><li>▪ Using Animations and Animator and Animator Listener</li><li>▪ Trace View</li><li>▪ Hierarchy View</li><li>▪ Barcode Reader</li></ul>
	04.00pm-04.15pm	Tea Break
	04.15pm-05.00pm	Project Work
	05.00pm-05.15pm	MCQ
	05.15pm-06.00pm	Project Work
	27-08-2017 (Day 7)	09.00am-10.30am
10.30am-10.45am		Tea Break
10.45am-12.45pm		<ul style="list-style-type: none"><li>▪ Facebook Integration</li><li>▪ Localization</li></ul>
12.45pm-01.15pm		Lunch Break
01.15pm-03.15pm		<ul style="list-style-type: none"><li>▪ Bluetooth Low Energy (BLE)</li><li>▪ Building Applications for different Screen Sizes and Densities.</li></ul>
03.15pm-03.30pm		Tea Break
03.30pm-05.00pm		<ul style="list-style-type: none"><li>▪ Introduction to Testing.</li><li>▪ Event Bus.</li></ul>
05.00pm-05.15pm		MCQ
05.15pm-06.00pm		Project Work
	06.00pm-06.15pm	Certificate distribution and Closing Ceremony.