



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 Email: eictacad@iitg.ernet.in

Venue: Indian Institute of Information Technology Manipur.

Date: 21-27 Aug, 2017.

Reporting time on 21st 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 from Academia
	01.15pm-01.45pm	Lunch
	01.45pm-03.45pm	<ul style="list-style-type: none"> ▪ Uses-SDK? ▪ Resources & R.java ▪ Layouts & Drawable Resources ▪ Activities & Activity Lifecycle ▪ Editing Emulator Settings ▪ App Run Device / Device Setting ▪ MVC and MVP Architecture ▪ ART Runtime.
	03.45pm-04.00pm	Tea Break
	04.00pm-05:00pm	<ul style="list-style-type: none"> ▪ Sub-Activities ▪ Activities Lifecycle ▪ Creating Multiple Activities ▪ Buttons and Toasts
	05:00pm-05.15pm	MCQ
22-08-2017 (Day 2)	09.00am-10.00am	<ul style="list-style-type: none"> ▪ Intents ▪ Explicit Intents ▪ Implicit Intents ▪ Intent Filters.
	10.00am-10.15am	Tea Break
	10.15am-11.45am	<ul style="list-style-type: none"> ▪ Time and Date ▪ Images and Media ▪ Composite ▪ AlertDialogs & Toast ▪ styles.xml ▪ Drawable Resources for Shapes, Gradients (Selectors) ▪ Style Attribute in Layout file.
	11.45am-01.00pm	<ul style="list-style-type: none"> ▪ Logcat Usage ▪ Standard ▪ singleTop ▪ singleTask ▪ singleInstance ▪ Custom Fonts
	01.00pm-01.30pm	Lunch Break
	01.30pm-02.30pm	<ul style="list-style-type: none"> ▪ Option Menu

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		<ul style="list-style-type: none"> ▪ Sub-Menu ▪ Menu from XML ▪ Menu via Code.
	02.30pm-03.30pm	<ul style="list-style-type: none"> ▪ ListView and ListActivity ▪ Custom ListView ▪ GridView using Adapters ▪ View Holder
	03.30pm-03.45pm	Tea Break
	03.45pm-04.45pm	<ul style="list-style-type: none"> ▪ View Flipper ▪ Splash Screen ▪ Handler Thread.
	04.45pm-05.00pm	▪ MCQ
23-08-2017 (Day 3)	09.00am-11.00am	<ul style="list-style-type: none"> ▪ Array Adapters ▪ Base Adapters ▪ Alarms ▪ Pending Intent ▪ Android Build Process ▪ Developer Tools ▪ Job Scheduler
	11.00am-11.15am	Tea Break
	11.15am-12.45pm	<ul style="list-style-type: none"> ▪ Shared Preferences ▪ Preferences from XML ▪ Code ▪ Build App ▪ Test ▪ Signing ▪ Deploy.
	12.45pm-01.15pm	Lunch Break
	01.15pm-03.30pm	<ul style="list-style-type: none"> ▪ Fragments ▪ Fragment Lifecycle ▪ Create Multiple Fragments ▪ Fragment Navigation ▪ Tab View ▪ View Pager (Swipe View) ▪ Headless Fragment ▪ Passing Information between: Fragment to Fragment.
	03.30pm-03.45pm	Tea Break
	03.45pm-04.45pm	<ul style="list-style-type: none"> ▪ Web URLs, Email Address, and Text ▪ Map Address and Phone Numbers
	04.45pm-05.00pm	MCQ
24-08-2017 (Day 4)	09.00am-10.00am	<ul style="list-style-type: none"> ▪ SQLite Programming ▪ SQLiteOpenHelper ▪ SQLite Database
	10.00am-10.15am	Tea Break

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	10.15am-12.15pm	<ul style="list-style-type: none"> ▪ Services ▪ Different Types of Services ▪ Intent Services ▪ Notifications
	12.15pm-01.45pm	<ul style="list-style-type: none"> ▪ CRUD Operations ▪ Internal Storage ▪ External Storage ▪ Custom Views
	01.45pm-02.15pm	Lunch Break
	02.15pm-03.30pm	<ul style="list-style-type: none"> ▪ Broadcast Receivers ▪ Sticky (Broadcast) Intents ▪ SMS
	03.30pm-03.45pm	Tea Break
	03.45pm-04.45pm	<ul style="list-style-type: none"> ▪ MMS ▪ Email
	04.45pm-05.00pm	MCQ
25-08-2017 (Day 5)	09.00am-11.00am	<ul style="list-style-type: none"> ▪ Google Maps Integration ▪ Map-based Services ▪ GPS-based Services ▪ Location-based Services ▪ Sample Programs
	11.00am-11.15am	Tea Break
	11.15am-01.15pm	<ul style="list-style-type: none"> ▪ Push Notifications ▪ Google Cloud Messaging for Android (FCM) ▪ Geo Fencing
	01.15pm-01.45pm	Lunch Break
	01.45pm-03.15pm	<ul style="list-style-type: none"> ▪ Internet Connectivity ▪ Async Task ▪ JSON Parsing ▪ Volley Library ▪ Recycler View
	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"> ▪ WebView Layout ▪ Wi-Fi ▪ Widgets ▪ Custom Video Player
	11.00am-11.15am	Tea Break
	11.15am-12.00pm	Project Session (Continued)
	12.00pm-01.00pm	<ul style="list-style-type: none"> ▪ Audio Capture ▪ Audio Manager ▪ Media Player
	01.00pm-01.30pm	Lunch Break
01.30pm-02.30pm	<ul style="list-style-type: none"> ▪ Audio Streaming 	



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		<ul style="list-style-type: none">▪ Video Streaming
	02.30pm-04.00pm	<ul style="list-style-type: none">▪ Android Animations▪ Using Animations and Animator and Animator Listener▪ Trace View▪ Hierarchy View▪ Barcode Reader
	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">▪ Facebook Integration▪ Localization
12.45pm-01.15pm		Lunch Break
01.15pm-03.15pm		<ul style="list-style-type: none">▪ Bluetooth Low Energy (BLE)▪ Building Applications for different Screen Sizes and Densities.
03.15pm-03.30pm		Tea Break
03.30pm-05.00pm		<ul style="list-style-type: none">▪ Introduction to Testing.▪ Event Bus.
05.00pm-05.15pm		MCQ
05.15pm-06.00pm		Project Work
06.00pm-06.15pm		Certificate distribution and Closing Ceremony.