

Teaching Plan

Name of the Faculty: **Anand**

Name of the Course: **B.Sc. (H) Computer Science**

Session: **2021-22**

Semester: **IV**

Section: **All**

Title of the Paper: **Android Programming (SEC)**

UPC: **32343407**

Month	Topics Covered	References
Jan 2022	Introduction: Review to JAVA & OOPS Concepts. History of Android, Introduction to Android Operating Systems, Android Development Tool, Android Architecture.	1. Griffiths, D., & Griffiths, D., (2015). Head First Android Development, O'reilly Media. 2. Meier, R.,(2012). Professional Android™ 4 Application Development. John Wiley & Sons, Inc.
Feb 2022	Android components including activities, view and view group, intents, parcels, instance state. User Interface Architecture, Application context, explicit intents, returning results from activities, implicit intents, intent filter and intent resolution, and applications of implicit intents. Activity life cycle, activity stack, application's priority and its process' states, fragments and its life cycle. User Interface Design: Layouts, optimizing layout hierarchies, Widgets with event handling: TextView, button control, toggle buttons, spinners, images, menu, dialog.	
Mar 2022	Broadcast sender and receivers: Broadcast sender, receiver, broadcasting events with intents, listening for broadcasts with broadcast receivers, broadcasting ordered intents, broadcasting sticky intents, Notifications: pending intents, creating notifications, setting and customizing the notification tray UI.	
Apr 2022	Services: Create, start, and stop services, binding services to activities, using asynctasks to manage background processing, handler, looper and runnable. Database and Content provider: SQLite, Content Values and Cursors, creating SQLite databases, querying a database, adding, updating, and removing rows, Creating Content Providers, implement content provider's queries and its usage.	
May 2022	Practical and Theory Examination begin	

Tentative dates for Assignment /Test

Test 1: (As announced in the first week of March)

Test 2: (As announced in the third week of April)

Assignment: (Second week of April)