

Lecture Plan

Name of the College: Government College of Arts, Science and Commerce. Sanquelim - Goa

Name of Faculty: Ms.Ruchi Paresh Fulari

Subject: Computer Science

Paper code and Paper name: CSC 241 Mobile App Development

Program: SYBSC-SEC

Academic year: 2024-2025

Semester: III

Course Objectives:

1. Introduce mobile application development for the Android platform using Xml and Java/Kotlin
2. Understand the different components for building the Android App
3. Development applications that will run on Android phones and tablets.

Course Outcome:

1. Describe the anatomy of a mobile app, and use android components in designing simple mobile applications.
2. Identify the significance of each of the Android basic building blocks and determine when to use which components
3. Discuss the data storage options available on android platforms and perform basic CRUD operations on persistent data.
4. Design complete Android app by integrating the android building blocks and using firebase as backend tool.

Student Learning Outcome:

1. Describe the anatomy of a mobile app, and use android components in designing simple mobile applications.
2. Identify the significance of each of the Android basic building blocks and determine when to use which components
3. Discuss the data storage options available on android platforms and perform basic CRUD operations on persistent data.
4. Design complete Android app by integrating the android building blocks and using firebase as backend tool.

Month	Lecture From	Lecture To	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
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July	22/07/2024	27/07/2024	Use of basic views (EditText, TextView, Button, RadioButton, Checkboxes) Event Handling (using listeners) Calculator app	Exercise	Android Studio	Dawn Griffiths and David Griffiths, Head First Android Development: A Brain-Friendly Guide, Shroff/O'Reilly
	29/07/2024	03/08/2024	ListView layout design, Load listView with Data, Load different views in ListView, ListView events, Add or Remove items to the listView	Exercise	Android Studio	Dawn Griffiths and David Griffiths, Head First Android Development: A Brain-Friendly Guide, Shroff/O'Reilly
August	05/08/2024	10/08/2024	Design GridView Layout, Load gridView with data and RecyclerView- TicTacToe game Display a message using Custom Toast	Exercise	Android Studio	Dawn Griffiths and David Griffiths, Head First Android Development: A Brain-Friendly Guide, Shroff/O'Reilly
	12/08/2024	17/08/2024	(Implicit and Explicit)-launch an activity, passing data between activity, display a web page, dial a contact, send message etc	Exercise	Android Studio	Dawn Griffiths and David Griffiths, Head First Android Development: A Brain-Friendly Guide, Shroff/O'Reilly
	19/08/2024	24/08/2024	Menus, Alert Dialog	Exercise	Android Studio	Dawn Griffiths and David Griffiths, Head First Android Development: A Brain-Friendly Guide, Shroff/O'Reilly
	26/08/2024	31/08/2024	Broadcast Receivers (creating broadcast receiver, registering broadcast receiver, send and receive custom broadcast)	Exercise	Android Studio	Dawn Griffiths and David Griffiths, Head First Android Development: A Brain-Friendly Guide, Shroff/O'Reilly
September	02/09/2024	06/09/2024	Web services - HTTP calls, JSON and XML	Exercise	Android Studio	Dawn Griffiths and David Griffiths, Head First Android Development: A Brain-Friendly Guide, Shroff/O'Reilly
	16/09/2024	21/09/2024	HTTP calls and JSON read	Exercise	Android Studio	Dawn Griffiths and David Griffiths, Head First Android Development: A Brain-Friendly Guide, Shroff/O'Reilly
	23/09/2024	28/09/2024	SQLite database	Exercise	Android Studio	Dawn Griffiths and David Griffiths, Head First Android Development: A Brain-Friendly Guide, Shroff/O'Reilly
September-October	30/09/2024	05/10/2024	Firestore Realtime Database to build a mobile system	Exercise	Android Studio	Dawn Griffiths and David Griffiths, Head First Android Development: A Brain-Friendly Guide, Shroff/O'Reilly
October	07/10/2024	12/10/2024	Firestore Realtime Database to build a mobile system	Exercise	Android Studio	Dawn Griffiths and David Griffiths, Head First Android Development: A Brain-Friendly Guide, Shroff/O'Reilly
	14/10/2024	19/10/2024	Revision	Exercise	Android Studio	Dawn Griffiths and David Griffiths, Head First Android Development: A Brain-Friendly Guide, Shroff/O'Reilly

Assessment Rubrics

Component	Max Marks
ISA 1	5
ISA 2	5
ISA 3	5
Practical	40
Project	-
Semester End Exam	-