



# ARSD College, University of Delhi

## Model Course Handout/Lesson Plan

Course Name : B.Sc. (Physics Sc. Computer Science) Lab						
Semester	Course Code	Course Title	Lecture (L)	Tutorial (T)	Practical (P)	Credit (C)
Vlth	BSCS10A	Android Programming	2		2	4
Teacher/Instructor(s)		Jag Mohan				
Session		July -Dec 2022				

### Course Description:

The course is designed for students to learn to develop android applications. They will learn android architecture and key principles underlying its design.

### Course Learning Outcomes:

On successful completion of the course, students will be able to:

1. describe the design of Android operating system.
2. describe various components of Android applications.
3. design user interfaces using various widgets, dialog boxes, menus.
4. design application with interaction among various activities/applications using intents.
5. develop application(s) with database handling.

### List of Experiments:

Details of the Lab Course		
Session	Name of Experiment	Contact Hours
1	Create "Hello World" application. That will display "Hello World" in the middle of the screen in the emulator. Also display "Hello World" in the middle of the screen in the Android Phone.	2
2	Create an application with login module. (Check username and password).	2
3	Create spinner with strings taken from resource folder (res >> value folder) and on changing the spinner value, Image will change.	2
4	Create a menu with 5 options and selected option should appear in text box.	4
5	Create a list of all courses in your college and on selecting a particular course teacher-in-charge of that course should appear at the bottom of the screen.	4
6	Create an application with three option buttons, on selecting a button colour of the screen will change.	4

7	Create and Login application as above. On successful login, pop up the message.	4
8	Create an application to Create, Insert, update, Delete and retrieve operation on the database.	4
Total		32

**Suggested Books:**

Sl. No.	Name of Authors/Books/Publishers	Year of Publication/Reprint
1.	Griffiths, D., & Griffiths, D. (2015). Head First Android Development. O'reilly.	2015
2.	Meier, R. (2012). Professional Android™ 4 Application Development. John Wiley & Sons, Inc..	2012
3	Griffiths, D., & Griffiths, D. (2015). Head First Android Development. O'reilly.	2015

**Evaluation Scheme:**

No.	Component	Duration	Marks
1.	Internal Assessment		25
	• Quiz/Viva		
	• Observation & Record		
	• Attendance		
	• Model Exam		
2.	End Semester Examination	2 hr	25