S. P. Mandali's

Ramnarain Ruia Autonomous College

(Affiliated to University of Mumbai)

Syllabus for

Program: S.Y.B.Sc.

Program Code: RUSCS

(As per the guidelines of National Education Policy
2020-Academic year 2024-25)

(Choice based Credit System)

PROGRAM OUTLINE

B.Sc. Computer Science

Vocational Skill Enhancement Courses

YEAR	SEM	COURSE CODE	TYPE OF COURSE	COURSE TITLE	CREDITS
SY B.Sc.	III	RUSVSCCSP 201	Vocational Skill Enhancement Course	Android Programming	2

SEMESTER III

Course Code: RUSVSCCSP201
Course Title: Android Programming
Type of Course: Vocational Skill Enhancement Courses
Academic year 2024-25

COURSE OUTCOMES:

COURSE OUTCOME	DESCRIPTION **After Completing this course student will be able to :**
CO 1	**Identify the requirements & developing a Mobile application**
CO 2	**Demonstrate the working of Mobile Apps**
CO 3	**Demonstrate prototypes for UI in Android Studio**
CO 4	**Understanding the working model through API Creation**

DETAILED SYLLABUS

Course Code	No	Android Programming Practical	Lectures
	1	Create an android app with Interactive User Interface using Layouts.	
	2	Create an android app with demonstration of UI controls	
	3	Create an android app that demonstrates Activity Lifecycle and Instance State.	
	4	Create an android app that demonstrates the use of Keyboards, Input Controls, Alerts, and Pickers, Image buttons	
	5	Create an android app that demonstrates the use Imageview as button ,use of an Options Menu using basic activity.	
	6	Create an android app that demonstrate Screen Navigation Using slider / Navigation Drawer	
	7	Create an android app to demonstrate Image Flipper and Image Gallery.	
	8	Create an android app to demonstrate implicit and explicit intents	
	9	Create an android app to demonstrate media player application	
	10	Create an android app to demonstrate the use of a camera	
	11	Create an android app demonstrate the different types of menus	
	12	Create an android app to implement Asynctask and threading concepts.	
	13	Create an android app to demonstrate the use of Broadcast listeners	
	14	Create an android app to save user data in a database and use of different queries.	
	15	Create an android app to work with Firebase for storing and manipulating data.	
	16	Exploring Android studio with python using Chaquopy.	

Modality of Assessment

Vocational Skill Enhancement Courses (2 Credit)

Practical – 50 Marks

Practical Examination (Semester End): 50 marks
   a. **Practical Internal Assessment 10 Marks:** Students have to acquire at least 40% marks in each paper individually.
   b. **Practical Sem End Exam 40 Marks**.

Particulars	Practical
Internal Assessment(Journal & Regularity)	10
Laboratory work	40
Total	**50**