

# SYLLABUS

of the

## Value added Course Android Programming (COSVAC 001)

(w.e.f. 2022-2023)



Offered by:

**THE DEPARTMENT OF COMPUTER SCIENCE**

**PanskuraBanamali College**

**(AUTONOMOUS)**

**Panskura R.S., Purba Medinipur**

**West Bengal – 721152**

## COURSE INFORMATIONIN BRIEF

<b>Course Name:</b>	Android Programming
<b>Course Contents:</b>	Course layout, rules & regulations
<b>Course Type:</b>	<b>Value added Course</b> (Optional, additional, and not a part of the CBCS curriculum)
<b>Medium:</b>	Bengali, English
<b>Mode:</b>	Offline
<b>Intake:</b>	Minimum 20; Maximum 40
<b>Eligibility:</b>	+XII, Any interested candidate in Internet and Web page
<b>Duration:</b>	30 hours (to complete within a time span of 2 months)
<b>Course Fees:</b>	Rs. 300
<b>Coordinator:</b>	<b>Sk.Md. Habibullah, Assistant Professor</b>
<b>Contact:</b>	Department of Computer Application (BCA), Panskura Banamali College (Autonomous) <a href="mailto:habib.hwh@gmail.com">habib.hwh@gmail.com</a> 9609287587 (WhatsApp only)

## Certificate Course in **Android Programming**

Credit : NA    Duration :30 Hours

Code: COS01

**About Course :** The course covers all the essential elements of technology and the latest domain and fundamentals of sustainability for the Information Technology(IT) industry. Not Only IT Professionals are able to implement and maintain in developing techniques but also be an commercial people. This course is designed to impart knowledge about IT word wise.

**Course Objective :**To develop IT Professionals who can assess, and develop strategies to use of the web operations of an organization.

[ N.B.: 1 Lecture (L) = 1 Hour]

### **Course Contents:**

Introduction: History of Android, Introduction to Android Operating Systems, Android Development Tools, Android Architecture. (5L)

Overview of object oriented programming using Java: OOPs Concepts: Inheritance, Polymorphism, Interfaces, Abstract class, Threads, Overloading and Overriding, Java Virtual Machine. (5L)

Development Tools: Installing and using Eclipse with ADT plug-in, Installing Virtual machine for Android sandwich/Jelly bean (Emulator), configuring the installed tools, creating a android project – Hello Word, run on emulator, Deploy it on USB-connected Android device. (5L)

User Interface Architecture: Application context, intents, Activity life cycle, multiple screen size (5L)

User Interface Design: Form widgets, Text Fields, Layouts, Button control, toggle buttons, Spinners(Combo boxes),Images, Menu, Dialog. (5L)

Database: Understanding of SQLite database, connecting with the database. (5L)

### Recommended Books:

1. Android application development for java programmers. By James C. Sheusi.

Publisher: Cengage Learning, 2013.

**Course Outcome:** Gain knowledge about Android Programming practices in different IT sectors.