

**Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil College Vashi, Navi Mumbai
Autonomous College
[University of Mumbai]
Syllabus for Approval**

**Skill Based Course (S.Y.B.Sc.)
2019-2020**

Foundation Course in Android Development

Sr. No.	Heading	Particulars
1	Title of Course	Foundation Course in Android Development
2	Eligibility for Admission	Basic knowledge of JAVA
3	Passing Marks	40%
4	Ordinances/Regulations (if any)	
5	Duration	30 Hrs
6	Level	U.G.
7	Pattern	Semester
8	Status	Revised
9	To be implemented from Academic year	2019-2020

AC – /0 /2019
Item No.



**Rayat Shikshan Sanstha's
KARMAVEER BHURAO PATIL COLLEGE, VASHI.
NAVI MUMBAI
(AUTONOMOUS COLLEGE)
Sector-15- A, Vashi, Navi Mumbai - 400 703**

**Syllabus for Skill Based Course
Foundation Course in Android Development**

Program: S.Y.B.Sc.

**Course: Certificate Course in Foundation Course in Android
Development**

**(Choice Based Credit, Grading and Semester System
with effect from the academic year 2019-2020)**

Rayat Shikshan Sanstha's
KARMAVEER BHAURAO PATIL COLLEGE, VASHI, NAVI MUMBAI

Department of Computer Science
Skill Based Course (S.Y.B.Sc.)
2019-2020

Foundation Course in Android Development

Details of the Certificate Course:

- | | |
|-------------------------|-------------------------|
| 1. Eligibility | : 12 th Pass |
| 2. Duration | : One and half Months |
| 3. Intake Capacity | : 25 Students per batch |
| 4. Theory & Practical | : 30 Hrs |
| 5. Fees Structure | : Rs. 3000 |
| 6. Examination Pattern: | |

I.	Theory: Theory Exam 20Marks	
	Theory paper shall be of one hour duration.	
	All questions are compulsory	
II.	Practical 30 Marks	The External examination will be conducted as per the following scheme.

Class: S.Y.B.Sc	Branch: Computer Science	Semester: I	
Skill Enhancement Course Subject: Foundation Course in Android Development			
Period per Week(Each 48 min)	Lecture	01	
	Practical	01	
Evaluation System		Hours	Marks
	Online Exam	2	20
	Project Work		30
	Total	50	

Proposal for training - KBP College Vashi	
Foundation Course in Android Development (30hrs)	
Day 1	<ul style="list-style-type: none"> • Getting started with Android Programming • What is Android? • Android versions and its feature set • The various Android devices on the market • The Android market application store • How to obtain the tools and SDK for developing android application • What is an android emulator?-- Windroy, Windows Android etc. • How to develop your first Android application
Day 2	<ul style="list-style-type: none"> • Activities and intents • What activities are • How to apply styles and themes to activities
Day 3	<ul style="list-style-type: none"> • Activities and Intents (continued..) • How to display activities as dialog windows • Understanding the concept of intents
Day 4	<ul style="list-style-type: none"> • Activities and intents (continued..) • How to use the intent object to using notifications link activities • How to display alerts to the user
Day 5	<ul style="list-style-type: none"> • Getting to know the Android User interface • The various view groups you can use to layout your views • How to adapt to changes in screen orientation • How to manage screen orientation changes
Day 6	<ul style="list-style-type: none"> • Getting to know the Android User interface (continued..) • How to create the UI programmatically

	<ul style="list-style-type: none"> • How to listen for UI notifications
Day 7	<ul style="list-style-type: none"> • Designing your user interface using views • how to use the basic views in Adroid to design your interface
Day 8	<ul style="list-style-type: none"> • Designing your user interface using views (continued..) • How to use the picker views to display lists of items • How to use the list views to display lists of items
Day 9	<ul style="list-style-type: none"> • Displaying pictures and menus with views • How to use the Gallery., Image Switcher, Grid View, and Image view views to display images
Day 10	<ul style="list-style-type: none"> • Displaying pictures and Menus with views (continued..) • How to display options and context menus
Day 11	<ul style="list-style-type: none"> • Displaying pictures and Menus with views (continued..) • How to display time using the Analog Clock and Digital Clock views • How to display Web content using the Web view
Day 12	<ul style="list-style-type: none"> • Data Persistence • How to save simple data using the Shared Preferences Object • How to write and read files in internal and external storage • Overview of SQLITE database
Day 13	<ul style="list-style-type: none"> • Data Persistence (continued..) • working with SQLITE in Command line, GUI environment • Creating Database and tables in SQLite • How to create and use a SQLite database.
Day 14	<ul style="list-style-type: none"> • Content Providers • What are Content Providers? • How to use content provider in Android.
Day 15	<ul style="list-style-type: none"> • Content Providers (continued...) • How to create your own content provider • How to use your own content provider
Day 16	<ul style="list-style-type: none"> • Messaging • How to send SMS message programmatically from within your application • How to send SMS message using the built- in Messaging application • How to receive incoming SMS message • How to send e-mail messages from your application
Day 17	<ul style="list-style-type: none"> • Location-Based services • How to display Google Maps in your Android application • How to display the zoom controls on the Map • How to switch between the different map views • How to add markers to maps
Day 18	<ul style="list-style-type: none"> • Location-Based services (continued..) • How to get the address location touched on the map • How to perform geocoding and reverse geocoding • How to obtain geographical data using GPS, cell- ID and Wi-Fi triangulation

	<ul style="list-style-type: none">• How to monitor for a location
Day 19	<ul style="list-style-type: none">• Networking• How to connect to the Web using HTTP• How to consume Web services
Day 20	<ul style="list-style-type: none">• Developing Android Services• How to create a services that runs in the background• How to perform long--running tasks in a separate thread• How to perform repeated tasks in a service• How an activity and a service communicate