



Sant Dnyaneshwar Shishan Sanstha's

Hon. Shri. Annasaheb Dange Arts, Commerce & Science College, Hatkanangale

Department of Computer Science

CERTIFICATE COURSE IN ANDROID OS

Academic Year : 2021-2022

Course duration : 30 days

Time : 9.00 am to 10.00pm

01/08/2021 to 10/09/2021

- 1] Student's Notice.
- 2] Brochure Syllabus.
- 3] List of Participating Students.
- 4] Schedule of Contact sessions.
- 5] Participating Student Attendance Sheet.
- 6] Activity Report.
- 7] Question paper
- 8] Result Sheet
- 9] Certificate



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**Hon. Shri. Annasaheb Dange Arts, Commerce & Science
College, Hatkanangale**

Department of Computer science

CERTIFICATE COURSE IN ANDROID OS

Academic Year : 2021-2022

Student's Notice

Date :- 14/07/2021

Day:- Wednesday

Department of Computer Science Organize 1 month short Term Certified Course (Android OS) for B.Sc. Students. Duration of this course was 01/08/2021 to 10/09/2021. Maximum 70 Participants will be apply for this course after course completed we organize internal and external Tests of 50 Marks. The course will be free of cost and the students will be given a certificate after passing the exam. Students who want to register their names should submit their names to Mr. Swapneel Rawal Sir before 25/07/2022.

Coordinator

Pravin S. Gurav

Department of B.Sc.



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Hon.Shri.Annasaheb Dange Arts, Commerce & Science College, Hatkanangale

Department of Computer Science

CERTIFICATE COURSE IN (ANDROID OS)

Academic Year : 2021-2022

Android 

Course Coordinator

Pravin S. Gurav
[Department of Comp. Sci.]
Hon.Shri.Annasaheb Dange
Art's,Commerce and Science
College, Hatkanangale
Mobile No : 9850122568

Principal

Dr. Yojana Jugale
Hon.Shri.Annasaheb Dange
Art's,Commerce and Science
College, Hatkanangale
Phone No : 0230-2483521

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(1) Introduction to Android OS :-

Every year different activities are conducted by B.Sc. department for students. One of them is this certificate course. Android OS is one of the new technologies coming in the IT industry every day. Today, there is a huge demand for Android OS in the IT sector, we have started this short term course for the student, Genecroon students should be familiar with it and when the student goes for a job, this certificate can be useful for him.

(2) About Syllabus:-

Android is a mobile operating system based on a modified version of the Linux kernel and other open-source software, designed primarily for touchscreen mobile devices such as smartphones and tablets. Android is developed by a partnership of developers known as the Open Handset Alliance and commercially sponsored by Google. It was disclosed in November 2007, with the first commercial Android device, the HTC Dream, launched in September 2008.

It is free and open-source software. Its source code is Android Open Source Project (AOSP), primarily licensed under the Apache License. However, most Android devices dispatch with additional proprietary software pre-installed, mainly Google Mobile Services (GMS), including core apps such as Google Chrome, the digital distribution platform Google Play and the associated Google Play Services development platform.

- 1: Understand the building blocks of Mobile Operating Systems
- 2: Analyze different elements of Android Development Environment
- 3: Illustrate the structure of Mobile Applications using Android
- 4: Identify different components used in Mobile Applications using Android

(3) Eligibility of Course :-

All students of B.Sc part I,II and III can apply for this course

Accessibility : Maximu [70] studnts .

(3) Course Duration :-

The duration of this course will be 30 hours out of which 20 hours will be lectures and 10 hours will be practicals.

(5) Course Medium :-

The teaching method for this course will be both English and Marathi but the exam will be in English only. There will be 20 multiple choice questions and 40 marks and 10 marks will be practical work.

(6) Syllabus Structure :-

Unit (1) Introduction to Mobile Operating system _____ 8 hours

- Mobile operating system, Operating system structure
- Features: Multitasking Scheduling, Memory Allocation, File System Interface
- Keypad Interface, I/O Interface, Protection and Security, Multimedia features.
- Brief history of Android, Different types of mobile applications

Unit (2) Android Development Environment _____ 7 hours

- Introduction to Mobile development IDE's
- Setting up development environment, Android Software Development
- Working with the AndroidManifest.xml, Dalvik Virtual Machine & .apk file extension,
- Android Architecture, Building a sample Android application using Android Studio.
- Android Project Structure Working with emulator.

Unit (3) Android Application Framework _____ 9 hours

- Layouts & Drawable Resources, Basic Building blocks - Activities and Activity lifecycle
- UI Components - Views & Notifications, Components for communication -Intents & type of Intents
- Android API levels (versions & version names), Developing sample Application

Unit (4) Basic UI design _____ 9 hours

- Form widgets, Text Fields, Layouts, Option menu, Context menu, Sub menu
- Time and Date, Images and media, Composite
- Alert Dialogs & Toast, Popup
- Introduction to SQLite Programming, SQLite Database

● **References:-**

1. AnubhavPradhan, Anil V Deshpande, “ Mobile Apps Development” Edition:I
2. Teach Yourself Android Application Development In 24 Hours, Edition:I, Publication: SAMS
3. Jeff McWherter, Scott Gowell “Professional Mobile Application Development”, John Wiley & Sons, 2012.
4. Barry Burd, “Android Application Development All in one for Dummies”, Edition:I

(7) Study Methods :-

1. Guided by expert teachers
2. Internal Evaluation
3. Practicals in Computer Lab

(8) Evaluation Process :-

- Following are the evaluation Method
- 8.1- Internal Evaluation – 10 Marks
 - 8.2- Final Exam – 40 Marks

8.1-Internal Evaluation :-

For this student have to choose one project and complete it

8.2- Final Exam :-

For passing students have to get 40 % marks in final exam.

(9) Credits :-

2 Credits For this course

(10) Contacts:-

Coordinator

Mr. Pravin S. Gurav

Department of Computer Science

Hon. Shri. ADACS college, Hatkanangale

Mobile: 9850122568



Sant Dnyaneshwar Shishan Sanstha's

Hon. Shri. Annasaheb Dange Arts, Commerce & Science College, Hatkanangale

CERTIFICATE COURSE IN (ANDROID OS)

Academic Year : 2021-2022

Register Student List

Sr No	Student Name	Class
1	CHAVAN JEEVAN SUNIL	B.Sc.- I
2	CHAVAN SWAPNIL SANJAY	B.Sc.- I
3	CHAVARE RAHON RAJENDRA	B.Sc.- I
4	DHOLE TEJAS SHRIKANT	B.Sc.- I
5	GODE SANKET SUNIL	B.Sc.- I
6	INGAWALE SOURABH SANJAY	B.Sc.- I
7	KALE SAMRTH RAVINDRA	B.Sc.- I
8	KAMBLE TANMAY BABASO	B.Sc.- I
9	KHOT AMRUTA SHIVAJI	B.Sc.- I
10	KHOT VINAYAK DILIP	B.Sc.- I
11	KILLEDAR RUTUJA RAJENDRA	B.Sc.- I
12	KOLEKAR SHUBHAM MOHAN	B.Sc.- I
13	KOLI ABHISHEKH NARSINH	B.Sc.- I
14	KUMBHAR KIRAN KAILAS	B.Sc.- I
15	KUSALE VISHAL VISHANU	B.Sc.- I

16	MOMIN SANIYA SHABBIR	B.Sc.- I
17	NAIK POOJA LAKSHUMAN	B.Sc.- I
18	NALAWADE TUSHAR ANIL	B.Sc.- I
19	PATIL ABHISHEK ARUN	B.Sc.- I
20	PATIL AKSHADA YASHWANT	B.Sc.- I
21	PATIL SAMURADHI PRADIP	B.Sc.- I
22	PATIL SANMESH VASAVTDADA	B.Sc.- I
23	PUJARI DIVYA VISHNU	B.Sc.- I
24	SAMANT VIDISHA KABIR	B.Sc.- I
25	SHARMA NARMATA PRAKASH	B.Sc.- I
26	SURYAVANSHI OMKAR DADASO	B.Sc.- I
27	AKIWATE SANDESH SUBHASH	B.Sc.- I
28	ARAGADE ANURADHA ASHOK	B.Sc.- I
29	BANDGAR RAMESH CHANDRKANT	B.Sc.- I
30	BAVAGI SAVEJ FARUKHAMHAD	B.Sc.- I
31	BEDKYAHLE SHAILAJA SUKHDEV	B.Sc.- I
32	BHAVAKE SURAJ TANAJI	B.Sc.- I
33	BHISE TUSHAR SUHAS	B.Sc.- I
34	BHOSALE PRATI SHAMUVEL	B.Sc.- I
35	CHOGULE TEJAS KUMAR	B.Sc.- I
36	CHOUGULE PRATIK LAGMANNA	B.Sc.- I
37	CHOUGULE YASHASHREE RAJENDRA	B.Sc.- I

38	DANG MAHMMADSIDDIKI IQBAL	B.Sc.- I
39	GAIKWAD GANESH VIKAS	B.Sc.- I
40	GUMANE PARAS AKASH	B.Sc.- I
41	GURAV ASHITOSH KASHINATH	B.Sc.- I
42	HASABE SAWAN SANJAY	B.Sc.- I
43	JADHAV VISHWAJIT DHANAJI	B.Sc.- I
44	JIG NARASU ANANDA	B.Sc.- I
45	KARAKE GANESH VITTHAL	B.Sc.- I
46	KARANDE SANKET SHIVAJI	B.Sc.- I
47	KSHIRSAGAR MIRA SUDHAKAR	B.Sc.- I
48	MELAGE AKASH PARASHRAM	B.Sc.- I
49	MHAMAYE MUSKAN YASIN	B.Sc.- I
50	NADAF TAHURA DASTAGIR	B.Sc.- I
51	NAYANI MAHAMDSHIFI MUSTAK	B.Sc.- I
52	NIKAM PRARNA SUDHIR	B.Sc.- I
53	PARIT SHUBHAM EKANATH	B.Sc.- I
54	PAWAR RAHUL DADA	B.Sc.- I
55	POWAR ANNASO BALASO	B.Sc.- I
56	POWAR RAHUL SIDDHARTH	B.Sc.- I
57	PUJARI SWAPNIL BIRU	B.Sc.- I
58	RAUT CHITRSEN KISHOR	B.Sc.- I
59	SATPUTE PRASHANT BHAGWAN	B.Sc.- I

60	SAWANT AVINASH BABASO	B.Sc.- I
61	SAWANT VIVEK VISHWAS	B.Sc.- I
62	SHARMA JAYSHREE RAMGOPAL	B.Sc.- I
63	SHARMA PRACHI AMOL	B.Sc.- I
64	SHENDURE KETAN UTTAM	B.Sc.- I
65	THOMBARE RAM MAHADEV	B.Sc.- I
66	VADGAVE AKSH ASHOK	B.Sc.- I
67	WAGARE SANIKA SANTOSH	B.Sc.- I
68	WAGHMODE ARCHNA DADASAHEB	B.Sc.- I
69	DAVNE RUTUJA RAVSAHEB	B.Sc.- I
70	DANWADE ARBAJ IQBAL	B.Sc.- I



Sant Dnyaneshwar Shishan Sanstha's

**Hon.Shri.Annasaheb Dange Arts, Commerce & Science
College, Hatkanangale**

**CERTIFICATE COURSE IN (ROLE OF ANGULAR IN WEB
DEVELOPMENT)**

Academic Year : 2021-2022

Time Table

Faculty Name : Mr.Nitin A .Patil

Monaday	Tuesday	Wednsday	Thirsdlay	Friday	Saturday
9.00 to 10.00	9.00 to 10.00	9.00 to 10.00	9.00 to 10.00	9.00 to 10.00	9.00 to 10.00

Participating Student List

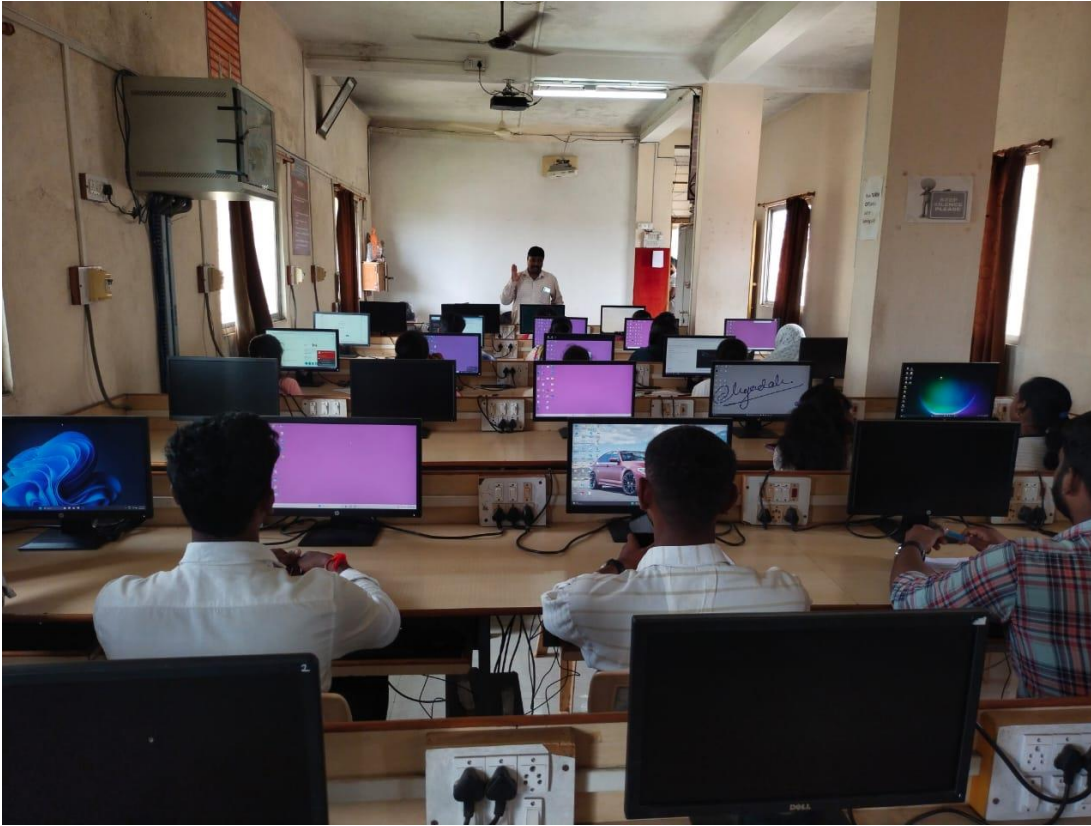
Hon. Shri Anasaheb Dange Arts, Commerce and Science College, Hatkanangale

Certified Course (Android Operating System) B.Sc Department

Duration 5 Weeks (01/08/2021 to 10/09/2021) (Attendance Sheet)

Sr No	Student Name	Date																												Sign					
		02-08	03-08	04-08	05-08	06-08	07-08	08-08	09-08	10-08	11-08	12-08	13-08	14-08	17-08	18-08	20-08	21-08	23-08	24-08	25-08	26-08	27-08	28-08	30-08	31-08	01-09	02-09	03-09		04-09	06-09	07-09		
1	CHAVAN JEEVAN SUNIL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
2	CHAVAN SWAPNIL SANJAY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
3	CHAVARE RAHON RAJENDRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
4	DHOLE TEJAS SHRIKANT	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
5	GODE SANKET SUNIL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
6	INGAWALE SOURABH SANJAY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
7	KALE SAMRTH RAVINDRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
8	KAMBLE TANMAY BABASO	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
9	KHOT AMRUTA SHIVAJI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
10	KHOT VINAYAK DILIP	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
11	KILLEDAR RUTUJA RAJENDRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
12	KOLEKAR SHUBHAM MOHAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
13	KOLI ABHISHEKH NARSINH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
14	KUMBHAR KIRAN KAILAS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
15	KUSALE VISHAL VISHANU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
16	MOMIN SANIYA SHABBIR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
17	NAIK POOJA LAKSHUMAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>
18	NALAWADE TUSHAR ANIL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	<i>[Signature]</i>

Photos :



Sample Certificate: