Course Coordinator Report

Course Name: Introduction to Android Programming

A free Add-On Course for UG students in the Department of Computer Science, Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur, was held from 16th Aug 2022 to 22nd October 2022. The course title was "Introduction to Android Programming." This comprehensive beginner to expert course was perfect for anyone who wanted to learn Android programming or enhance their existing skills. Android is the world's most popular mobile operating system, powering millions of devices globally. This course provided the foundation for developing robust and user-friendly Android applications.

In this course, students learned everything about Android Programming, including setting up the development environment, understanding Android architecture, and building simple to complex applications. It was packed full of challenges and exercises to get students writing Android code quickly. The course provided all the necessary tools and knowledge for students to start with Android development. This course was ideal for students interested in the field of mobile app development, providing a solid foundation for creating mobile solutions for various platforms and industries.

At the end of this course, students had the skills and knowledge to develop their own Android applications and were on the path to acquiring more advanced mobile development skills. The course duration was 10 weeks (30 hours). Two theory classes were conducted on Friday and Saturday, and one practical session was held every week. The marking system consisted of 60 marks for the theory paper and 40 marks for practical execution. The theory examination consisted of an MCQ paper with 30 questions, each with four multiple choices. The practical examination was also conducted for 40 marks. 51 students were present in both the theory and practical examinations. The results were prepared, and certificates were distributed to the students.

VCP

Dr. Varsha C. Pande

Course Coordinator

Assistant Professor
Department of Computer Science
S.S.E.S. Amt's Science College
Congress Nagar, Nagpur

To,
The Principal
SSES Amt's Science College,
Congress Nagar, Nagpur-12

Subject Permission to conduct the add on courses in the Computer Science department during the session 2022-2023

Respected Sir,

This is to request you that, we wish to conduct the add on courses in Computer Science department these are the certificate courses of thirty hours' time duration.

The details of the courses are submitted here with.

Hence please permit to run the same and oblige me.

Thanking you

Yours sincerely

2/07/2022

Professor & Head
Department of Computer Science
S S E S Amt's Science College
Congress Nagar, Nagpur

Permitted

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.

DEPARTMENT OF COMPUTER SCIENCE

NOTICE

Date: 04-08-2022

We are excited to announce the commencement of the Android Programming Certificate Course for all BCA Students free of cost starting from 16th August to 22nd October at Department of Computer science. This course aims to equip you with the skills and knowledge necessary to develop robust and user-friendly applications for the Android platform.

Course Objectives:

- Understand the fundamentals of Android development.
- Learn how to design intuitive user interfaces using XML layouts.
- Master activity lifecycle management and event handling.
- Gain proficiency in data storage techniques and networking capabilities.
- Explore advanced topics such as background tasks and Fragments.
- Apply learned concepts through hands-on projects and assignments.
- Course Materials:

Please ensure you have access to a computer with Android Studio installed.

Additional resources and materials will be provided during the course.

Course Duration: 10 Weeks (30 Hours)

Eligibility: Open to all students of BCA, Shri Shivaji Education Society Amravati's Science College

Registration: Interested students can register at the Department of Computer Science office on or before **13-Aug-2022**.

Contact Information:
For further details, please contact:

Dr. Varsha C. Pande
Course Coordinator
Phone: 7972664721

VCP

Assistant Professor
Department of Computer Science
S.S.E.S. Amt's Science College,
Congress Nagar, Nagpur

Professor & Head
Department of Computer Science
S.S.E.S. Amt's Science College,
Congress Nagar Nagpur

CERTIFICATE COURSE IN ANDROID PROGRAMMING

Free Certificate Course for College Students (BCA)

Session: 2022-23

Duration - 30 Hours (10 Weeks)

Process of Registration- First Come First Served (Limited Seats)

Course Objectives:

- Understand the fundamentals of Android development
- build layouts using XML and Java
- debugging tools and techniques for troubleshooting Android applications.
- to create innovative and interactive Android applications that meet industry standards.
- Foster problem-solving skills by tackling challenges.

course provides a comprehensive introduction to developing applications for the Android platform. Through a combination of theoretical lessons and practical exercises, students will learn the fundamentals of Android development, including user interface design, activity lifecycle management, data storage, and interactivity. The course covers essential topics such as building layouts with XML and Java, handling user input, integrating with external APIs, and debugging applications. Students will gain hands-on experience by working on real-world projects, creating their own Android apps from scratch. By the end of the course, participants will have a solid understanding of Android development principles and be equipped with the skills to build and deploy their own Android applications independently.

Department of Computer Science
SSES Amt's Science College, Congress Nagar, Nagpur

VCP

Assistant Professor
Department of Computer Science
S.S.E.S. Amt's Science College,
Congress Nagar, Nagpur

SSES Amravati's Science College, Congress Nagar, Nagpur-12

DEPARTMENT OF COMPUTER SCIENCE

COURSE MODULE AND SYLLABUS

Session 2022-2023

Course Title: Certificate Course in Android Programming

Course Coordinator: Dr. Varsha C. Pande

Course description: *This Android programming course provides a comprehensive introduction to developing applications for the Android platform. Through a combination of theoretical lessons and practical exercises, students will learn the fundamentals of Android development, including user interface design, activity lifecycle management, data storage, and interactivity. The course covers essential topics such as building layouts with XML and Java, handling user input, integrating with external APIs, and debugging applications. Students will gain hands-on experience by working on real-world projects, creating their own Android apps from scratch. By the end of the course, participants will have a solid understanding of Android development principles and be equipped with the skills to build and deploy their own Android applications independently.*

Course Objectives:

The objective of this Android programming course is to equip participants with the knowledge and skills necessary to develop robust and user-friendly applications for the Android platform. By the end of the course, students will:

- Understand the fundamentals of Android development, including UI design and activity lifecycle management.
- Learn how to build layouts using XML and Java, and handle user input effectively.
- Gain proficiency in data storage techniques and integration with external APIs.
- Develop a strong understanding of debugging tools and techniques for troubleshooting Android applications.
- Acquire hands-on experience through practical exercises and real-world projects.
- Cultivate the ability to create innovative and interactive Android applications that meet industry standards.
- Foster problem-solving skills by tackling challenges commonly encountered in Android development.
- Prepare for further exploration and specialization in advanced Android topics or related fields.
- Gain confidence in independently developing, testing, and deploying Android applications for various purposes and audiences.

Instructional Strategies: Theory class, Practical, Video clips.

Evaluation Strategies: Oral discussions and Final MCQ examination.

Course outline: Course Outlines: (Relevance)

Module 1: Introduction to Android Development

Overview of Android platform
Setting up development environment
Introduction to Android Studio IDE
Creating first Android project
Understanding project structure

Module 2: User Interface Design

Basics of UI design in Android
Working with layouts and views
Designing user interfaces using XML
Implementing responsive layouts
Handling different screen sizes and densities

Module 3: Activity Lifecycle Management

Understanding the lifecycle of an Android activity
Managing activity state transitions
Implementing lifecycle callbacks
Handling configuration changes

Module 4: User Interaction

Capturing user input with EditText, Button, and other UI elements
Responding to user interactions
Implementing event listeners
Handling touch events

Module 5: Data Storage

Introduction to data storage options in Android
Working with SharedPreferences for simple data storage
Using SQLite databases for structured data storage
Implementing CRUD operations with SQLite

Module 6: Networking and Integration

Making network requests using HTTP libraries
Parsing JSON and XML data
Integrating with external APIs
Handling network security and permissions

Module 7: Debugging and Testing

Overview of debugging tools in Android Studio
Debugging techniques for identifying and fixing errors
Unit testing basics for Android applications
Testing user interfaces and functionality

Module 8: Advanced Topics

Implementing background tasks with Async Task and other techniques
Working with Fragments for flexible UI design
Exploring Material Design principles
Implementing animations and transitions

Duration of course: Ten weeks (30 Hours)

The Structure of Syllabus and System of evaluation -

Course	Theory Papers and Practical	Total Marks	
		Theory	Practical
Certificate Course in Android Programming	Theory paper- Android Programming * Theory examination will be of MCQ pattern having 30 questions each with equal marks.	60	40
	* Practical examination will be based on folder and performance evaluation in the laboratory	100	

VCP

Assistant Professor
Department of Computer Science
S.S.E.S. Amt's Science College
Congress Nagar, Nagpur

SYLLABUS

Certificate course (10 weeks)

Theory

Unit 1: Introduction to Android Development

Overview of the Android platform, Setting up development environment (Android Studio, SDK installation), Creating first Android project, Understanding project structure and components Basics of UI design with XML layouts, Handling user input and basic event handling.

Unit 2: Core Concepts and Data Management

Activity lifecycle management, Working with views and view groups, Implementing responsive layouts and handling screen sizes, Data storage options in Android (SharedPreferences, SQLite databases), Integrating networking capabilities (HTTP requests, JSON parsing), Debugging and testing Android applications

Unit 3: Advanced Topics and Project Work

Implementing background tasks and services, Working with Fragments for flexible UI design, Introduction to Material Design principles, Animations and transitions in Android applications, Project-based learning: Applying learned concepts to develop real-world Android applications, Deployment and distribution of Android applications to the Google Play Store,

Note: Each unit will include theoretical lectures, hands-on coding exercises, and project assignments to reinforce learning objectives. The syllabus is subject to adjustment based on the pace of learning and specific needs of the participants.

PRACTICAL:

Practical List for Android Programming Course

Unit 1: Introduction to Android Development

- Setting up Android Studio and SDK on your computer.
- Creating a basic "Hello World" Android application.
- Exploring the project structure in Android Studio.
- Designing a simple user interface using XML layouts.
- Implementing basic event handling for user interactions.

Unit 2: Core Concepts and Data Management

- Managing activity lifecycle: Implementing lifecycle callbacks.
- Creating responsive layouts for various screen sizes and orientations.
- Storing and retrieving data using SharedPreferences.
- Working with SQLite databases to perform CRUD operations.
- Making network requests using HTTP libraries and parsing JSON data.

Unit 3: Advanced Topics and Project Work

- Implementing background tasks using AsyncTask or other techniques.

- Designing UIs with Fragments for modularization and flexibility.
- Applying Material Design principles to enhance UI aesthetics and user experience.
- Adding animations and transitions to improve app interactivity.
- Project-based assignments: Developing real-world Android applications, incorporating learned concepts and best practices.
- Deploying and distributing Android applications to the Google Play Store.

Throughout the course, participants will engage in hands-on coding exercises, individual and group projects, and practical assignments to reinforce theoretical concepts and develop practical skills in Android application development.

Week-wise teaching plan:

Week	Hrs.	Syllabus
Week 1	1	Overview of the Android platform
	1	Setting up development environment (Android Studio, SDK installation)
	1	Creating first Android project
Week 2	1	Understanding project structure
	2	Understanding project components Basics of UI design with XML layouts,
Week 3	1	Handling user input
	2	basic event handling.
Week 4	1	Core Concepts and Data Management: Activity lifecycle management
	2	Working with views and view groups
Week 5	1	Implementing responsive layouts and handling screen sizes
	2	Data storage options in Android (Shared Preferences, SQLite databases)
Week 6	1	Integrating networking capabilities (HTTP requests, JSON parsing)
	2	Debugging and testing Android applications
Week 7	1	Advanced Topics and Project Work:
	2	Implementing background tasks and services
Week 8	1	Working with Fragments for flexible UI design,
	2	Introduction to Material Design principles
Week 9	1	Animations and transitions in Android applications
	2	Project-based learning: Applying learned concepts to develop real-world Android applications,
Week 10	1	Deployment and distribution of Android applications to the Google Play Store
	2	Deployment and distribution of Android applications to the Google Play Store

SSES AMT'S SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR-12

Certificate Course in **Android Programming**
SESSION 2022-2023

Time Table

Day	Theory
Friday	VCP (B12) Theory 4.00 PM – 5.00 PM
Saturday	VCP (BCA LAB) practical, 4.00 PM – 5.00 PM
	VCP (B12) Theory, 5.00 PM – 6.00 PM

VCP

Assistant Professor
Department of Computer Science
S.S.E.S. Amt's Science College,
Congress Nagar, Nagpur

Android Programming.

BCA (2022-23) ~~Codet~~

(16th Aug To 22nd Aug.)

1. Saurabh Ganesh Gaikwad Gaikwad
2. Nikita Satish Waratkar Nikita
3. Nandini Vijayrao Khandare ... Nandini
4. Payal Jayendra Ambule P. Ambule
5. Prachi Mahesh Hulke prachi
6. vaibhavi Dhanpal patle vaibhavi
7. Sahil Ravindra Chaudhari Sahil
8. Sanjana Vinod Wele Wele
9. Rajni Manoharao Tise Tise
10. Tanu Rajeev Dedhe Dedhe
11. Priyesh Rajendra Todape Todape
12. Mithali Ramesh Kathe Kathe
13. Pujan Sanjay Shahare Pujan
14. Aman Bandu Manwatkar Aman
15. Pranjali Chandrakant Kartre Kartre
16. ~~Pujan~~ Priti Bijendra Pandey P. Pandey
17. Rupesh Rajendra Ghumare Rupesh
18. Samiksha Narendra Nakshane Samiksha
19. Mai Ramdas Bansod Mbansod
20. Manas S. Kokate M.S.Kokate
21. Aarth Haridas Atkare Aarth
22. Nayani S. Borkar Nayani
23. Himanshu K Deoghare Deoghare

25)	Om Pankaj Thorat	OPT
26)	Aditya S. Nageshwar	AS Nageshwar
27)	Nisargai S. Hadke	NSH
28)	Ishaay V. Gedam	IV Gedam
29)	Mughees Ansari	Ansari
30)	Prathmesh S. Zade	PS Zade
31)	Rishita A. Raut	Raut
32)	Piyush Khandekar	Piyush
33)	Noor S. Farooki	NFarooki
34)	Sanchali Ramkrusha Dhote	S. Dhote
35)	Pranali Prabhakar Nagpure	Pranali
36)	Pranay Vaisnav Gedam	P. V Gedam
37)	Sapvesh R. Sahare	R.S
38)	Namrata Thakre	Namrata
39)	Ruchita S Meshram	Meshram
40)	Yashasree R. Padwe	Y. R Padwe
41)	Pawankumar Ramkishor Gokhe	Gokhe
42)	Tanvi R. Tiwari	T
43)	Amkar Sunil Dhage	Dhage
44)	Prashant Kisanji Hiwalkar	Hiwalkar
45)	Nitesh Patree	Patre
46)	Saranj Narendra Burde	Burde
47)	Nidhi Komal Chandak	Chandak
48)	Pratiti Tulsiram Bhujade	Bhujade
49)	Prajwal Ashokrao Chaudhari	Chaudhari
50)	Sarvesh R. Sahare	S.S. Sahare
51)	Moin Abdul Wahid Khan	Khan
	Neha Vijay Vaidya	NVaidya
	Pushpak G. Sakharkar	P. Sakharkar
	Prajwal Sakhare	

Assistant Professor
Department of Computer Science
S.S.E.S. Amt's Science College,
Congress Nagar, Nagpur

SSES Amravati's Science College, Congress Nagar, Nagpur-12

Department of Computer Science

Certificate Course (10 Weeks)

(Android Programming)

Students Registration List

Session 2022-23

Sr. No.	Student Name
1	Mai Ramdas Bansod
2	Manas Shailendra Kokate
3	Moin Abdul Wahid Khan
4	Mughees Ur Shafiqur Rahman Ansari
5	Namrata Pramod Thaware
6	Nandini Vijayrao Khandare
7	Nayani Sunil Borkar
8	Neha Vijay Vaidya
9	Nidhi Komal Chandel
10	Nikita Satish Waratkar
11	Nisarga Sanjay Hadke
12	Nitesh Neharulal Patre
13	Om Pankaj Thorat
14	Pawankumar Ramkishor Gokhe
15	Payal Jayendra Ambule
16	Piyush Chandramani Khandekar
17	Prachi Mahesh Hulke
18	Prajwal Ashokrao Chaudhari
19	Pranali Prabhakar Nagpure
20	Pranay Vaisraj Gedam
21	Pranjali Chandrakant Katre
22	Prashant Kisanaji Hirudkar
23	Prathmesh Shrawan Zade
24	Pratik Tulshiram Bhujade
25	Priti Bijendra Pandey
26	Pujan Sanjay Shahare
27	Rajni Manojrao Pise

28	Rehan Shahejad Faruki
29	Rishita Ashok Raut
30	Ruchika Shankar Meshram
31	Rupesh Rajendra Ghumare
32	Sahil Ravindra Choudhari
33	Samiksha Narendra Nakshane
34	Sanchali Ramkrushna Dhote
35	Sanjana Vinod Wele
36	Sarang Narendra Burde
37	Sarvesh Ramesh Sahare
38	Saurabh Ganesh Gaikwad
39	Tanvi Dinesh Turkar
40	Tanvi Rajeev Dedhe
41	Vaibhavi Dhanpal Patle
42	Yashashree Rameshrao Padwe
43	Aditya Sandeep Nageshwar
44	Aman Bandu Manwatkar
45	Arth Haridas Atkare
46	Himanshu Krushanarao Deoghare
47	Mitali Ramesh Kathe
48	Omkar Sunil Dhage
49	Prajwal Nitin Sakhare
50	Preyas Rajendra Zodape
51	Pushpak Ganesh Sakharkar

VCP

Assistant Professor
Department of Computer Science
S.S.E.S. Arts & Science College
Congress Nagar, Nagpur

Theory/Practical: Science College, Nagpur Name of the Teacher: Dr. V. C. Pande

Attendance Sheet Month: _____ 2022

S. N.	Roll No.	Name of Students	Periods → / Date → / Contact No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Total			
																					Current Month		Progressive Month	
				1/10	1/10	7/10	7/10	8/10	8/10	14/10	15/10	15/10	21/10	22/10	22/10						Deli	Att	Deli	Att
1.	1001	Mai Ramdas Bansod		P	P	P	P	P	P	P	P	P	P	P	P									
2.	1002	Manas Shailendra Kokate		P	P	.	P	P	P	P	P	P	P	P	P									
3.	1003	Moin Abdul Wahid Khan		P	P	P	P		P	P	P	P	P	P	P									
4.	1004	Mughees Ur Shafiqur Rahman Ansari		P	.	P	P	P	P	P	P	P	P	P	P									
5.	1005	Namrata Pramod Thaware		P	P	.	P	P	P	P	P	P	.	P	P									
6.	1006	Nandini Vijayrao Khandare		.	.	P	P	P	.	P	P		.	P	.									
7.	1007	Nayani Sunil Borkar		P	P	P	.	P	P	P	P	P	.	.	P									
8.	1008	Neha Vijay Vaidya		P	.	.	P	P	P	P	.	P	P	P	.									
9.	1009	Nidhi Komal Chandel		P	P	P	.	P	P	.	P	P	P	P	P									
10.	1010	Nikita Satish Waratkar		P	P	P	P	P	P	P	P	P	.	P	.									
11.	1011	Nisarga Sanjay Hadke		P	P	.	P	P	P	P	P	P	P	P	P									
12.	1012	Nitesh Neharulal Patre		P	.	P	P	P	.	P	P	P	P	P	P									
13.	1013	Om Pankaj Thorat		P	P	.	P	.	P	P	P	.	P	P	.									
14.	1014	Pawankumar Ramkishor Gokhe		P	.	P	P	P	P	P	.	P	P	P	P									
15.	1015	Payal Jayendra Ambule		P	P	.	P	P	P	P	P	P	P	P	P									
16.	1016	Piyush Chandramani Khandekar		P	.	P	P	P	.	.	P	P	.	P	.									
17.	1017	Prachi Mahesh Hulke		P	P	P	.	P	P	P	P	P	P	P	P									
18.	1018	Prajwal Ashokrao Chaudhari		P	P	P	P	P	P	P	P	.	P	P	P									
19.	1019	Pranali Prabhakar Nagpure		P	P	D	.	.	P	P	P	P	P	P	P									
20.	1020	Pranay Vaisraj Gedam		P	P	.	P	P	P	P	.	P	.	P	P									
21.	1021	Pranjali Chandrakant Katre		P	.	P	.	P	P	P	.	P	.	P	P									
22.	1022	Prashant Kisanaji Hirudkar		P	P	.	P	P	P	P	P	P	P	P	P									
23.	1023	Prathmesh Shrawan Zade		P	P	P	P	P	P	P	P	P	P	P	P									
24.	1024	Pratik Tulshiram Bhujade		P	P	!	.	P	P	.	P	P	P	.	P									
25.	1025	Priti Bijendra Pandey		.	P	P	P	P	.	P	P	P	.	P	P									
26.	1026	Pujan Sanjay Shahare		P	P	P	P	P	P	P	.	P	P	P	.									
27.	1027	Rajni Manojrao Pise		P	.	P	.	P	P	P	P	P	P	P	P									
28.	1028	Rehan Shahejad Faruki																						

30.	1030	Ruchika Shankar Meshram	
31.	1031	Rupesh Rajendra Ghumare	
32.	1032	Sahil Ravindra Choudhari	
33.	1033	Samiksha Narendra Nakshane	
34.	1034	Sanchali Ramkrushna Dhote	
35.	1035	Sanjana Vinod Wele	
36.	1036	Sarang Narendra Burde	
37.	1037	Sarvesh Ramesh Sahare	
38.	1038	Saurabh Ganesh Gaikwad	
39.	1039	Tanvi Dinesh Turkar	
40.	1040	Tanvi Rajeev Dedhe	
41.	1041	Vaibhavi Dhanpal Patle	
42.	1042	Yashashree Rameshrao Padwe	
43.	1043	Aditya Sandeep Nageshwar	
44.	1044	Aman Bandu Manwatkar	
45.	1045	Arth Haridas Atkare	
46.	1046	Himanshu Krushanarao Deoghare	
47.	1047	Mitali Ramesh Kathe	
48.	1048	Omkar Sunil Dhage	
49.	1049	Prajwal Nitin Sakhare	
50.	1050	Preyas Rajendra Zodape	
51.	1051	Pushpak Ganesh Sakharkar	

Teacher

Assistant Professor
Department of Computer Science
S.S.E.S. Amt's Science College,
Congress Nagar, Nagpur

Head of Department

Professor & Head
Department of Computer Science
S S E.S Amt's Science College
Congress Nager Nagpur

Principal

Science College, Nagpur
Attendance Sheet

Name of the Teacher: Dr. V. C. Pande
Month: _____ 2022

S. N.	Roll No.	Name of Students	Periods → / Date → / Contact No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Total			
				19/8	20/8	20/8	26/8	27/8	27/8	2/9	3/9	3/9	9/9	10/9	10/9	16/9	17/9	17/9	23/8	25/9	Current Month		Progressive Month	
																					Del	Att	Deli	Att
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3.	1003	Moin Abdul Wahid Khan		P	.	P	P	P	P	P	.	P	P	.	P	.	P	P	P	.				
4.	1004	Mughees Ur Shafiqur Rahman Ansari		P	P	P	.	P	P	P	P	P	P	P	P	P	.	P	P	P				
5.	1005	Namrata Pramod Thaware		P	P	.	P	.	P	.	P	.	P	P	P	P	P	.	P	P				
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7.	1007	Nayani Sunil Borkar		.	P	.	P	P	P	P	P	P	P	P	P	P	.	P	P	P				
8.	1008	Neha Vijay Vaidya		P	.	.	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
9.	1009	Nidhi Komal Chandel		.	P	P	P	.	P	P	P	P	P	P	P	P	P	P	P	P				
10.	1010	Nikita Satish Waratkar		P	P	P	.	P	P	P	P	P	P	P	P	P	P	P	P	P				
11.	1011	Nisarga Sanjay Hadke		P	P	P	.	.	.	P	P	P	.	.	P	P	P	P	P	P				
12.	1012	Nitesh Neharulal Patre		.	P	.	P	P	P	P	.	.	P	P	P	.	P	P	P	P				
13.	1013	Om Pankaj Thorat		P	P	.	P	.	P	P	P	P	P	.	P	P	P	P	.	P				
14.	1014	Pawankumar Ramkishor Gokhe		.	P	P	.	P	.	.	P	P	P	P	P	P	.	P	P	P				
15.	1015	Payal Jayendra Ambule		P	.	.	.	P	P	P	.	.	P	P	P	P	P	P	P	P				
16.	1016	Piyush Chandramani Khandekar		P	P	.	P	P	.	.	P	P	.	P	P	P	.	.	.	P				
17.	1017	Prachi Mahesh Hulke		P	P	P	P	.	P	P	P	P	P	.	P	.	P	P	P	P				
18.	1018	Prajwal Ashokrao Chaudhari		P	P	.	P	P	.	P	.	P	P	P	P	P	P	P	P	P				
19.	1019	Pranali Prabhakar Nagpure		.	P	P	.	P	P	.	P	P	.	P		P	.	P	P	P				
20.	1020	Pranay Vaisraj Gedam		.	P	.	P	P	P	P	.	P	P	P	P	P	P	P	P	P				
21.	1021	Pranjali Chandrakant Katre		.	P	P	.	P	.	P	P	.	P	P	P	P	P	.	P	P				
22.	1022	Prashant Kisanaji Hirudkar		P	.	.	P	P	P	.	.	P	P	P	P	P	P	P	P	P				
23.	1023	Prathmesh Shrawan Zade		P	.	P	P	P	.	.	P	.	.	.	P	P	P	P	P	P				
24.	1024	Pratik Tulshiram Bhujade		P	P	.	P	P	P	P	.	P	P	P	P	P	.	P	.	P				
25.	1025	Priti Bijendra Pandey		P	.	P	.	.	.	P	P	.	P	P	P	P	P	P	P	.				
26.	1026	Pujan Sanjay Shahare		.	P	P	P	P	P	P	P	P	.	.	P	P	.	P	.	P				
27.	1027	Rajni Manojrao Pise		P	P	P	P	.	.	.	P	P	P	P	P	P	P	.	P	P				
28.	1028	Rehan Shahejad Faruki		.	P	.	P	P	P	P	.	P	P	P	P	P	.	P	.	P				

31	1031	Rupesh Rajendra Ghumare
32	1032	Sahil Ravindra Choudhari
33	1033	Samiksha Narendra Nakshane
34	1034	Sanchali Ramkrushna Dhote
35	1035	Sanjana Vinod Wele
36	1036	Sarang Narendra Burde
37.	1037	Sarvesh Ramesh Sahare
38.	1038	Saurabh Ganesh Gaikwad
39.	1039	Tanvi Dinesh Tukar
40.	1040	Tanvi Rajeev Dedhe
41.	1041	Vaibhavi Dhanpal Patle
42.	1042	Yashashree Rameshrao Padwe
43.	1043	Aditya Sandeep Nageshwar
44.	1044	Aman Bandu Manwatkar
45.	1045	Arth Haridas Atkare
46.	1046	Himanshu Krushanarao Deoghare
47.	1047	Mitali Ramesh Kathe
48.	1048	Omkar Sunil Dhage
49.	1049	Prajwal Nitin Sakhare
50.	1050	Preyas Rajendra Zodape
51.	1051	Pushpak Ganesh Sakharkar

VCP

Teacher

Assistant Professor
Department of Computer Science
S.S.E.S. Amt's Science College
Congress Nagar, Nagpur

Head of Department

Professor & Head
Department of Computer Science
S.S.E.S. Amt's Science College
Congress Nagar Nagpur

Principal

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR

Certificate Course on **Android Programming**

Announcement of Theory and Practical Examination Dates for **Android Programming** Certificate Course

NOTICE

Date: 24-October-2022

This is to inform all students enrolled in the Certificate Course on Android Programming that the dates for the Theory and Practical Examinations have been scheduled as follows:

Theory Examination:

- Date: **-28-10-2022**

- Time: 04:00 pm

- Venue: Room No B12

Practical Examination:

- Date: **29-10-2022**

- Time: 04:00 pm

- Venue: BCA Lab, 3rd Fioor

All students are required to be present at the examination venue at least 15 minutes before the scheduled time. Please ensure you bring your college ID card and any other necessary materials.

For any further queries, please contact the Department of Computer Science office.

Dr. Varsha.C. Pande

Course Co-ordinator

VCP

Assistant Professor
Department of Computer Science
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Congress Nagar, Nagpur

Professor & Head
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Congress Nagar Nagpur

Shri Shivaji Education Society Amravati's

Science College, Congress Nagar, Nagpur.

Certified Course in Android Programming
Test Examination 2022-23
Attendance Sheet

Date: 28th October 2022

Sr. No.	Roll Number	Name Of Student	Signature of Student
1	1001	Mai Ramdas Bansod	
2	1002	Manas Shailendra Kokate	
3	1003	Moin Abdul Wahid Khan	
4	1004	Mughees Ur Shafiqur Rahman Ansari	
5	1005	Namrata Pramod Thaware	
6	1006	Nandini Vijayrao Khandare	
7	1007	Nayani Sunil Borkar	
8	1008	Neha Vijay Vaidya	
9	1009	Nidhi Komal Chandel	
10	1010	Nikita Satish Waratkar	
11	1011	Nisarga Sanjay Hadke	
12	1012	Nitesh Neharulal Patre	
13	1013	Om Pankaj Thorat	
14	1014	Pawankumar Ramkishor Gokhe	
15	1015	Payal Jayendra Ambule	
16	1016	Piyush Chandramani Khandekar	
17	1017	Prachi Mahesh Hulke	
18	1018	Prajwal Ashokrao Chaudhari	
19	1019	Pranali Prabhakar Nagpure	
20	1020	Pranay Vaisraj Gedam	

21	1021	Pranjali Chandrakant Katre	Katre
22	1022	Prashant Kisanaji Hirudkar	Hirudkar
23	1023	Prathmesh Shrawan Zade	P.S. Zade
24	1024	Pratik Tulshiram Bhujade	Bhujade
25	1025	Priti Bijendra Pandey	P. Pandey
26	1026	Pujan Sanjay Shahare	Pujan
27	1027	Rajni Manojrao Pise	R. Pise
28	1028	Rehan Shahejad Faruki	R. faruki
29	1029	Rishita Ashok Raut	Rait
30	1030	Ruchika Shankar Meshram	Rameshram
31	1031	Rupesh Rajendra Ghumare	Rupesh
32	1032	Sahil Ravindra Choudhari	Sahil
33	1033	Samiksha Narendra Nakshane	Samiksha
34	1034	Sanchali Ramkrushna Dhote	S. Dhote
35	1035	Sanjana Vinod Wele	Wele
36	1036	Sarang Narendra Burde	Burde.
37	1037	Sarvesh Ramesh Sahare	
38	1038	Saurabh Ganesh Gaikwad	Gaikwad
39	1039	Tanvi Dinesh Turkar	
40	1040	Tanvi Rajeev Dedhe	Dedhe
41	1041	Vaibhavi Dhanpal Patle	Vaibhavi
42	1042	Yashashree Rameshrao Padwe	Y. R. Padwe
43	1043	Aditya Sandeep Nageshwar	ASNageshwar
44	1044	Aman Bandu Manwatkar	Aman
45	1045	Arth Haridas Atkare	Arth

46	1046	Himanshu Krushanarao Deoghare	HDeoghare
47	1047	Mitali Ramesh Kathe	MKathe
48	1048	Omkar Sunil Dhage	Dhange
49	1049	Prajwal Nitin Sakhare	Pos
50	1050	Preyas Rajendra Zodape	Rzodape
51	1051	Pushpak Ganesh Sakharkar	P. Sakharkar

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Congress Nagar Nagpur

Shri Shivaji Education Society Amravati's

Science College, Congress Nagar, Nagpur.

Certified Course in Android Programming
Practical Examination 2022-23
Attendance Sheet

Date: 29th October 2022

Sr. No.	Roll Number	Name Of Student	Signature of Student
1	1001	Mai Ramdas Bansod	MBansod
2	1002	Manas Shailendra Kokate	M S Kokate
3	1003	Moin Abdul Wahid Khan	Khan
4	1004	Mughees Ur Shafiqur Rahman Ansari	Ansari
5	1005	Namrata Pramod Thaware	Namrata
6	1006	Nandini Vijayrao Khandare	Khandare
7	1007	Nayani Sunil Borkar	Nayani
8	1008	Neha Vijay Vaidya	Vaidya
9	1009	Nidhi Komal Chandel	Chandel
10	1010	Nikita Satish Waratkar	Nikita
11	1011	Nisarga Sanjay Hadke	Nisa
12	1012	Nitesh Neharulal Patre	Patre
13	1013	Om Pankaj Thorat	OPT
14	1014	Pawankumar Ramkishor Gokhe	Pawan
15	1015	Payal Jayendra Ambule	Ambule
16	1016	Piyush Chandramani Khandekar	Piyush
17	1017	Prachi Mahesh Hulke	Prachi
18	1018	Prajwal Ashokrao Chaudhari	Chaudhari
19	1019	Pranali Prabhakar Nagpure	P. V. Nagpure

20	1020	Pranay Vaisraj Gedam	
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Congress Nagar Nagpur

SSES Amravati's Science College, Congress Nagar, Nagpur-12
DEPARTMENT OF COMPUTER SCIENCE
Session 2022-2023
Certificate Course Examination

Course Name: Android Programming

Time: 60 Minutes] [Max. Marks: 40

Practical Exam Slip

Unit 1: Introduction to Android Development

- Setting up Android Studio and SDK on your computer.
- Creating a basic "Hello World" Android application.
- Exploring the project structure in Android Studio.
- Designing a simple user interface using XML layouts.
- Implementing basic event handling for user interactions.

Unit 2: Core Concepts and Data Management

- Managing activity lifecycle: Implementing lifecycle callbacks.
- Creating responsive layouts for various screen sizes and orientations.
- Storing and retrieving data using SharedPreferences.
- Working with SQLite databases to perform CRUD operations.
- Making network requests using HTTP libraries and parsing JSON data.

Unit 3: Advanced Topics and Project Work

- Implementing background tasks using AsyncTask or other techniques.
- Designing UIs with Fragments for modularization and flexibility.
- Applying Material Design principles to enhance UI aesthetics and user experience.
- Adding animations and transitions to improve app interactivity.
- Project-based assignments: Developing real-world Android applications, incorporating learned concepts and best practices.
- Deploying and distributing Android applications to the Google Play Store.

Throughout the course, participants will engage in hands-on coding exercises, individual and group projects, and practical assignments to reinforce theoretical concepts and develop practical skills in Android application development.

VCP

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S.S.E.S. Amt's Science College
Congress Nagar, Nagpur

SSES Amravati's Science College, Congress Nagar, Nagpur-12

DEPARTMENT OF COMPUTER SCIENCE

Final Examination
Session 2022-2023
Certificate Course in Android Programming

Maximum Marks: 60

Students Name: _____

Roll No:_____ **Date:** _____ **Time: 1 HOUR**

Name and Signature of Invigilator: _____

Note: 1. All Questions are compulsory and carry equal marks.
2. Tick the Correct option only.

1. What is the primary Integrated Development Environment (IDE) used for Android app development?

a) Eclipse b) Visual Studio c) Android Studio d) IntelliJ IDEA

2. Which file is responsible for defining the structure of the user interface in an Android app?

a) MainActivity.java b) activity_main.xml
c) AndroidManifest.xml d) strings.xml

3. Which method is called by the Android system when an activity is first created?

a) onStart() b) onCreate() c) onResume() d) onInit()

4. What is the purpose of SharedPreferences in Android development?

a) To store and retrieve key-value pairs persistently. b) To manage SQLite databases.
c) To handle network requests. d) To implement background tasks.

5. Which layout manager is commonly used to create responsive layouts in Android?

a) LinearLayout b) RelativeLayout c) ConstraintLayout d) FrameLayout

6. Which class is used to perform CRUD operations on a local SQLite database in Android?

a) SQLiteOpenHelper b) SQLiteDatabase
c) SQLiteManager d) SQLHelper

7. Which HTTP client library is commonly used for making network requests in Android?

a) OkHttp b) Volley c) Retrofit d) Apache HttpClient

8. Which method is used to add an event listener to a Button in Android?

a) setOnClickListener() b) addOnClickListener()
c) setOnTouchListener() d) addOnTouchListener()

9. Which lifecycle method of an activity is called when the activity is no longer visible to the user?

a) onStop() b) onDestroy() c) onPause() d) onExit()

10. What is the purpose of the AsyncTask class in Android?

a) To perform background tasks asynchronously. b) To handle user input events.
c) To manage application resources. d) To interact with external APIs.

11. Which XML attribute is used to specify the layout behavior of a view in ConstraintLayout?

a) android:layout_width b) android:layout_height

c) app:layout_constraintStart_toStartOf d) app:layout_constraintTop_toTopOf

12. Which method is used to inflate a layout resource in an activity?
a) inflateLayout() b) setContentView()
c) createLayout() d) loadLayout()

13. Which component is responsible for managing the navigation flow between different screens in an Android app?
a) Activity b) Fragment c) Intent d) Service

14. Which layout manager is best suited for building complex and flexible UIs in Android?
a) LinearLayout b) RelativeLayout c) ConstraintLayout d) FrameLayout

15. Which attribute is used to specify the orientation of a LinearLayout?
a) android:orientation b) android:layout_width
c) android:layout_height d) android:gravity

16. What is the purpose of the AndroidManifest.xml file?
a) To define the layout of the user interface. b) To specify the permissions required by the app.
c) To manage database operations. d) To handle background tasks.

17. Which method is called when an AsyncTask is executed?
a) doInBackground() b) onPreExecute() c) onPostExecute() d) onCancelled()

18. Which class is used to make HTTP GET and POST requests in Android?
a) HttpConnection b) HttpURLConnection c) HttpClient d) HttpsURLConnection

19. What is the primary purpose of using Fragments in Android development?
a) To manage activity lifecycle callbacks. b) To handle user input events.
c) To create modular and reusable UI components. d) To perform background tasks.

20. Which method is called when a user interacts with a MenuItem in an Android app?
a) onOptionsItemSelected() b) onMenuItemClick()
c) onOptionsSelected() d) onItemSelected()

21. Which layout manager is used to display a list of scrollable items in Android?
a) RecyclerView b) GridView c) ListView d) ScrollView

22. Which component is responsible for running long-running background tasks independently of the UI?
a) Activity b) BroadcastReceiver c) Service d) ContentProvider

23. Which method is used to start a new activity in Android?
a) startActivity() b) startActivityForResult() c) startService() d) broadcastIntent()

24. What is the purpose of the XML file named "strings.xml" in an Android project?
a) To define the layout of the user interface. b) To manage localized string resources.
c) To handle database operations. d) To specify app permissions.

25. Which method is called when an activity is brought to the foreground after being paused?
a) onStart() b) onResume() c) onRestart() d) onCreate()

26. Which component is responsible for managing app-wide data storage and retrieval in Android?
a) Activity b) Fragment c) Intent d) SharedPreferences

27. What is the purpose of the "R.java" file in an Android project?
a) To store application resources such as layout files and images.

b) To generate unique IDs for resources defined in XML files.
c) To handle database operations.
d) To manage activity lifecycle callbacks.

28. Which method is called to handle the result of a user action initiated by startActivityForResult()?

a) onActivityResult()
b) onRequestPermissionsResult()
c) onPermissionResult()
d) onResult()

29. What is the primary purpose of using a RecyclerView over a ListView in Android?

a) RecyclerView provides better performance and more flexible item layouts.
b) ListView is deprecated and no longer recommended for new development.
c) RecyclerView simplifies data binding and adapter implementation.
d) ListView supports only vertical scrolling, whereas RecyclerView supports both vertical and horizontal scrolling.

30. Which method is called when an activity is no longer visible and is about to be destroyed?

a) onStop()
b) onDestroy()
c) onPause()
d) onFinish()

Answers:

1) c) Android Studio
2) b) activity_main.xml
3) b) onCreate()
4) a) To store and retrieve key-value pairs persistently.
5) c) ConstraintLayout
6) a) SQLiteOpenHelper
7) a) OkHttp
8) a setOnClickListener()
9) c) onPause()
10) a) To perform background tasks asynchronously.
11) c) app:layout_constraintStart_toStartOf
12) b) setContentView()
13) c) Intent
14) c) ConstraintLayout
15) android:orientation a
16) b) To specify the permissions required by the app.
17) doInBackground() (a)
18) b) HttpURLConnection
19) c) To create modular and reusable UI components.
20) onOptionsItemSelected() a
21) RecyclerView a
22) c) Service
23) startActivity() a
24) b) To manage localized string resources.
25) b) onResume()
26) d) SharedPreferences
27) b) To generate unique IDs for resources defined in XML files.
28) a) onActivityResult()
29) a) RecyclerView provides better performance and more flexible item layouts.
30) b) onDestroy()

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.

Certified Course in Android Programming
Test Examination 2022-23
Result Sheet

Date:

Sr. No.	Roll Number	Name Of Student	Marks Theory (60)	Marks Practical (40)	Total Marks (100)	Grade
1	1001	Mai Ramdas Bansod	30	27	57	A
2	1002	Manas Shailendra Kokate	42	33	75	A
3	1003	Moin Abdul Wahid Khan	32	27	59	B+
4	1004	Mughees Ur Shafiqur Rahman Ansari	38	33	71	A
5	1005	Namrata Pramod Thaware	28	35	63	A
6	1006	Nandini Vijayrao Khandare	24	25	49	B
7	1007	Nayani Sunil Borkar	26	32	56	B+
8	1008	Neha Vijay Vaidya	42	35	77	A+
9	1009	Nidhi Komal Chandel	48	31	79	A+
10	1010	Nikita Satish Waratkar	54	33	87	A+
11	1011	Nisarga Sanjay Hadke	38	27	65	A
12	1012	Nitesh Neharulal Patre	20	28	48	B
13	1013	Om Pankaj Thorat	42	31	73	A
14	1014	Pawankumar Ramkishor Gokhe	50	38	88	A+
15	1015	Payal Jayendra Ambule	40	32	72	A
16	1016	Piyush Chandramani Khandekar	38	28	66	A
17	1017	Prachi Mahesh Hulke	46	34	80	A+
18	1018	Prajwal Ashokrao Chaudhari	40	28	68	A
19	1019	Pranali Prabhakar Nagpure	52	33	85	A+

20	1020	Pranay Vaisraj Gedam	28	34	62	A
21	1021	Pranjali Chandrakant Katre	54	29	83	A+
22	1022	Prashant Kisanaji Hirudkar	50	29	79	A+
23	1023	Prathmesh Shrawan Zade	28	34	62	B+
24	1024	Pratik Tulshiram Bhujade	30	26	56	B+
25	1025	Priti Bijendra Pandey	22	34	56	B+
26	1026	Pujan Sanjay Shahare	22	27	49	B
27	1027	Rajni Manojrao Pise	54	29	83	A+
28	1028	Rehan Shahejad Faruki	28	28	56	B+
29	1029	Rishita Ashok Raut	52	32	84	A+
30	1030	Ruchika Shankar Meshram	42	29	71	A
31	1031	Rupesh Rajendra Ghumare	28	28	56	B+
32	1032	Sahil Ravindra Choudhari	44	29	73	A
33	1033	Samiksha Narendra Nakshane	24	34	58	B+
34	1034	Sanchali Ramkrushna Dhote	54	34	88	A+
35	1035	Sanjana Vinod Wele	34	34	68	A
36	1036	Sarang Narendra Burde	32	29	61	A
37	1037	Sarvesh Ramesh Sahare	38	27	65	A
38	1038	Saurabh Ganesh Gaikwad	42	30	72	A
39	1039	Tanvi Dinesh Turkar	40	26	66	A
40	1040	Tanvi Rajeev Dedhe	40	26	66	A
41	1041	Vaibhavi Dhanpal Patle	32	26	58	B+
42	1042	Yashashree Rameshrao Padwe	48	35	83	A+
43	1043	Aditya Sandeep Nageshwar	32	28	60	A
44	1044	Aman Bandu Manwatkar	44	29	73	A

45	1045	Arth Haridas Atkare	46	34	80	A+
46	1046	Himanshu Krushanarao Deoghare	46	35	81	A+
47	1047	Mitali Ramesh Kathe	54	34	88	A+
48	1048	Omkar Sunil Dhage	42	29	71	A
49	1049	Prajwal Nitin Sakhare	20	32	52	B+
50	1050	Preyas Rajendra Zodape	46	35	81	A
51	1051	Pushpak Ganesh Sakharkar	36	33	69	A

VCP

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Congress Nagar Nagpur

Shri Shivaji Education Society, Amravati's

SCIENCE COLLEGE

Congress Nagar, Nagpur-12 (M.S.), India

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A "College with Potential for Excellence" identified by UGC New Delhi.
Institutional Member of APQN
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Mentor College under 'PARAMARSH Scheme', UGC, New Delhi

Add-on Course

Course Exam Name: Certificate Course in Android Programming

Name of Student: Mai R. Bansod

Roll No.: 1 0 0 1 **Session: 2022-23**

Test Date: 17/03/23 **Max. Marks:** 60

Invigilator Signature VCP **Obtained Marks:** 30

INSTRUCTIONS FOR FILLING THE SHEET

1. This sheet should not be folded or crushed.
2. Use only blue/ black ball point pen to fill the circles.
3. Use of pencil is strictly prohibited.
4. Circles should be darkened completely and properly.
5. Cutting and erasing on this sheet is not allowed.
6. Do not use any stray marks on the sheet.
7. Do not use marker or white fluid to hide the mark.

WRONG METHODS ⊗ ◉ ⊘ ✓ CORRECT METHOD ○ ○ ○ ●

	A	B	C	D		A	B	C	D		A	B	C	D		A	B	C	D		A	B	C	D
1	○	○	●	○	11	●	○	○	○	21	○	○	●	○	31	○	○	○	○	41	○	○	○	○
2	○	○	●	○	12	○	●	○	○	22	○	○	●	○	32	○	○	○	○	42	○	○	○	○
3	○	●	○	○	13	○	○	●	○	23	○	●	○	○	33	○	○	○	○	43	○	○	○	○
4	○	○	○	●	14	○	●	○	○	24	○	●	○	○	34	○	○	○	○	44	○	○	○	○
5	○	●	○	○	15	○	●	○	○	25	●	○	○	○	35	○	○	○	○	45	○	○	○	○
6	○	●	○	○	16	○	●	○	○	26	○	○	○	●	36	○	○	○	○	46	○	○	○	○
7	●	○	○	○	17	●	○	○	○	27	○	●	○	○	37	○	○	○	○	47	○	○	○	○
8	○	○	●	○	18	○	○	●	○	28	●	○	○	○	38	○	○	○	○	48	○	○	○	○
9	○	○	●	○	19	○	○	●	○	29	○	○	●	○	39	○	○	○	○	49	○	○	○	○
10	●	○	○	○	20	○	○	●	○	30	○	●	○	○	40	○	○	○	○	50	○	○	○	○

Shri Shivaji Education Society Amravati's

SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR

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CERTIFICATE

This is to certify that

Mai Ramdas Bansod

Is awarded with certificate on successful completion of the course entitled, certificate course in **"Android Programming."**

Session 2022-23 under Add-on course conducted for **30 hours from 16/08/2022 to 22/08/2022** by Department of Computer Science, SSESA's, Science College, Congress Nagar, Nagpur 440012.

He/She has passed the Examination with **"A"** Grade.

Dr. V. C. Pande
Coordinator

Dr. S. R. Pande
Head of Department

Dr. M. P. Dhore
Principal

Action Taken:

A free Add-On Course for UG students in the Department of Computer Science, Shri Shivaji Education Society Amravati's Science College, Congress Nagar,Nagpur was held from 16th August 2022 to 22nd October 2022. The course title was "Introduction to Android Programming".51 students appeared and passed in both theory and practical examination. The result was prepared and certificates were distributed to the students.

Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur

Add on Course in Android Programming Feedback Form

Name of Student.....

Please rate the following aspects of the program on a scale from 1 to 5, with

1. Best	2. Excellent	3. Good	4. Satisfactory	5. Fair

Q.1 How would you rate the organization and structure of the course?

1 2 3 4 5

Q.2 How do you rate the quality of the delivery of the units by the Teacher?

1 2 3 4 5

Q.3 How useful were the hands-on assignments and projects in enhancing your practical understanding of Android programming?

1 2 3 4 5

Q.4 How well-organized was the course structure, including the sequencing of topics and the pacing of the material?

1 2 3 4 5

Q.5 Overall, how would you rate your learning experience in this Android Programming?

1 2 3 4 5

Q.6 Any Suggestions:

_____

_____

Feedback Analysis

1. Number of Students Registered for the Course :51
2. Number of Students submitted the Feedback :46
3. Question wise analysis of the Feedback:

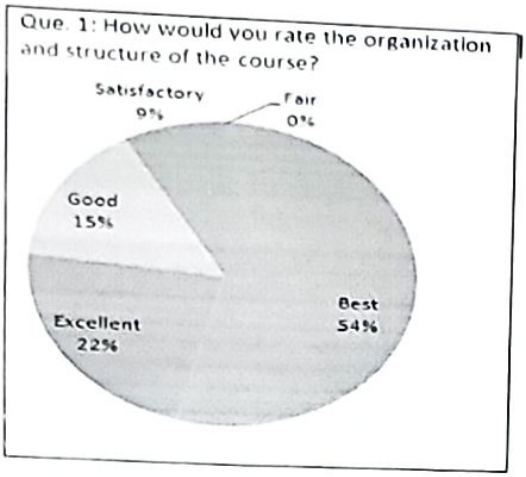
Sr. No	Question	Responses in Percentage (%)				
		Best	Excellent	Good	Satisfactory	Fair
1)	How would you rate the organization and structure of the course?	54.34	22.73	15.21	8.69	0
2)	How do you rate the quality of the delivery of the units by the Teacher?	60.86	26.08	10.86	2.17	0
3)	How useful were the hands-on assignments and projects in enhancing your practical understanding of Android programming?	56.52	17.39	13.04	10.86	2.17
4)	How well-organized was the course structure, including the sequencing of topics and the pacing of the material?	65.21	10.86	13.04	10.86	0
5)	Overall, how would you rate your learning experience in this course?	60.86	15.20	13.04	10.86	0
6)	Any Suggestions	No Suggestions: 50% Remaining Comments: Good Course, Nice Course, Change the timing of Classes				

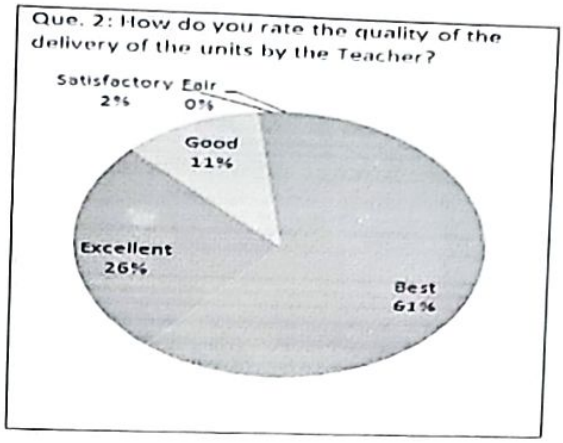
Remark: Students commented that the course will be useful in professional life.

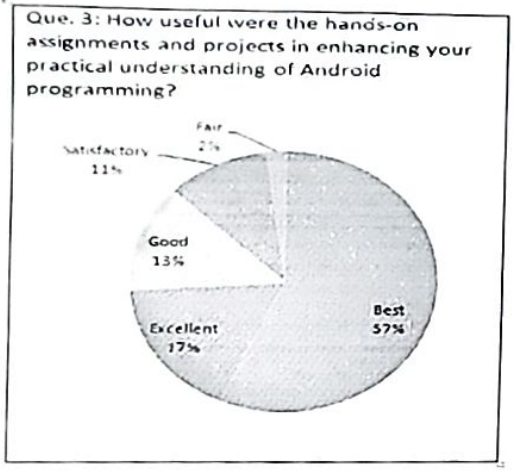
Department will keep on improving the quality of the course.

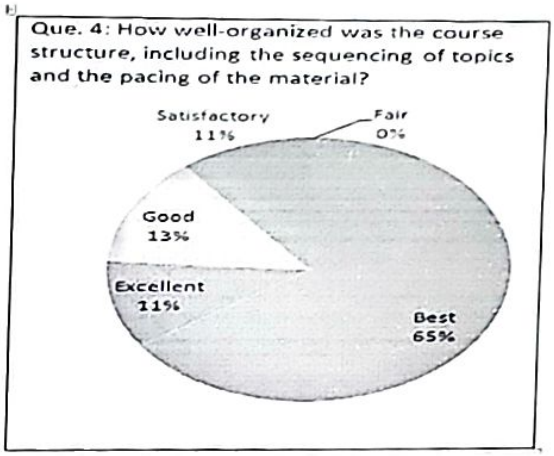
Certificate course: Android programming (2022-23)

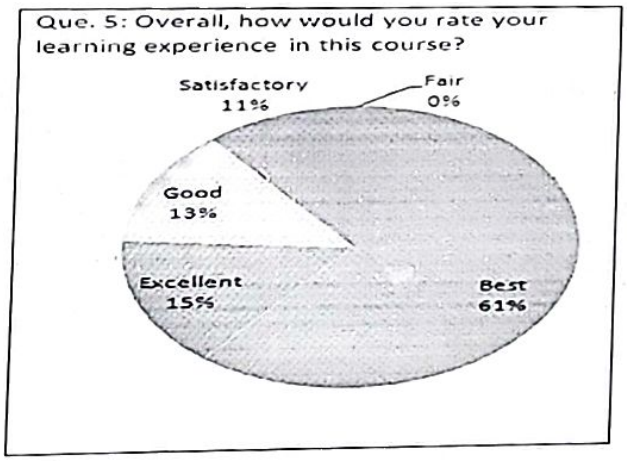
Feedback Analysis











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Department of Computer Science
S.S.E.S. Amt's Science College
Congress Nagar, Nagpur

IQAC Coordinator
Science College,
Congress Nagar Nagpur

Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur

Add on Course in Android Programming Feedback Form

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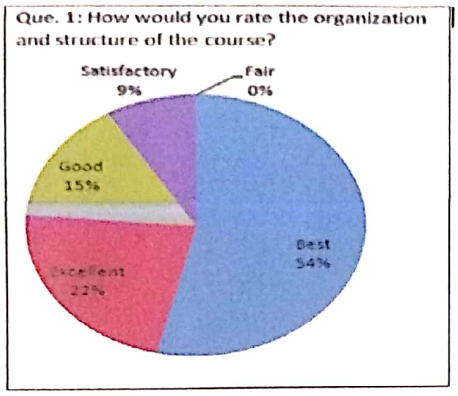
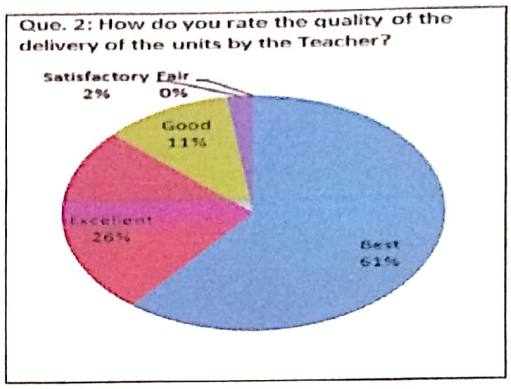
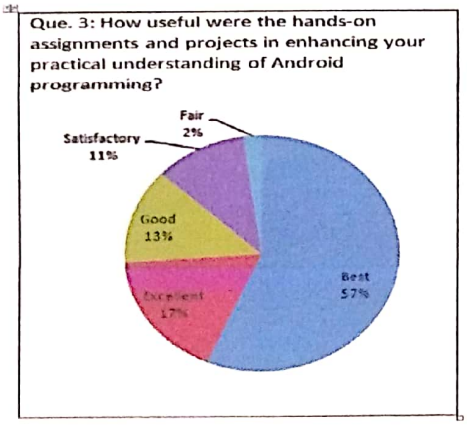
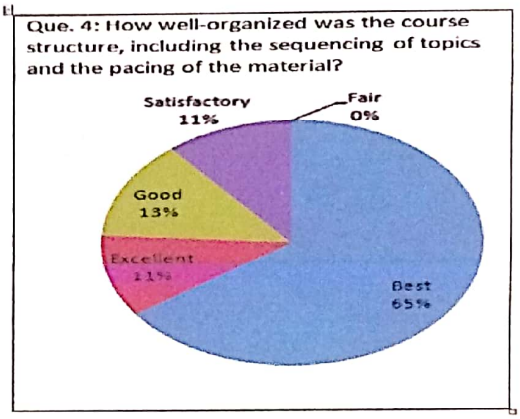
Certificate course: Android programming (2023-24)

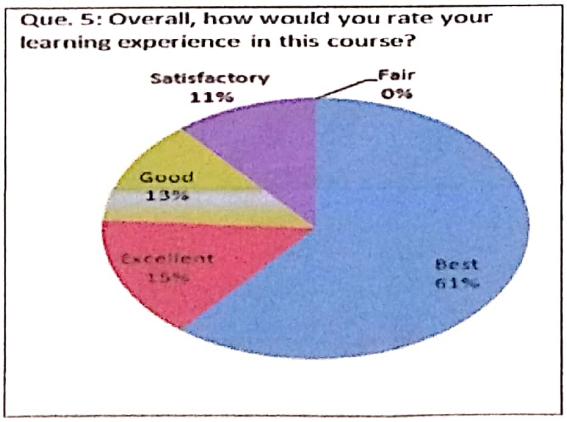
Feedback Analysis











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