

K.T.S.P. MANDAL'S

**HUTUTMA RAJGURU MAHAVIDYALAYA, RAJGURUNAGAR**

**TAL-KHED, DIST-PUNE 410 505**

**DEPARTMENT OF COMPUTER SCIENCE**

BRIEF REPORT OF SHORT-TERM COURSE 2023-24

**“Introduction To API using Android Language”**

<b>Sr.No.</b>	<b>Particulars</b>	<b>Details</b>
1	Date	27/02/2024 - 06/03/2024
2	Name of the event	Introduction to API using Android Language
3	Duration of the program	30 Hrs
4	Venue	Hutatma Rajguru Mahavidyalaya, Rajgurunagar
5	Name of coordinator	Prof. A.P.Kulkarni
6	Number of Participants	94
7	Activity belongs to which criteria	Criteria I
8	Curricular/Co-Curricular/Extra-Curricular	Extra-Curricular

The department of Computer Science organized short term course of 30 hours on “**Introduction to API using Android Language**” for S.Y.B.Sc. (Computer Science) and T.Y.B.Sc. (Computer Science) students to enhance the technical skills of students in modern software development practices from 27/02/2024 to 06/03/2024. The course commenced with a keynote address by Principal Dr. Shirish S.Pingale, highlighting the importance of APIs in modern software ecosystems and mobile application development. The short-term course was conducted by experienced faculty members from the Computer Science Department, who have a deep understanding of API using Android Language and its applications in website designing. Students were provided with an overview of what is API using Android Language and its advantages. Hands-on training on essential API using Android Language for website design was given to students. This short-term course was helpful in enhancing students understanding of Android developers use APIs provided by the Android operating system to interact with device hardware and software, such as the Camera API or the Location API. Feedback from participants was overwhelmingly positive.

- **Core Topics Covered:**

- i. Fundamentals of RESTful APIs.
- ii. Setting up an Android development environment.
- iii. Hands-on sessions on integrating APIs into Android apps.
- iv. API testing and debugging using tools like Postman.
- v. Building a basic Android app with live data integration from public APIs (e.g., weather or currency exchange APIs).

**Name of Department:** Department of Computer Science

**Name of short-term course:** Introduction to API using Android Language

**Objectives of the course:** The purpose of this course is

- 1) to provide the skill need to effectively create and operate
- 2) To develop and host own application and share students' idea about work.
- 3) To impart knowledge and understanding of the various facts of API including this guide focuses primarily on web APIs, which facilitate communication between an Android app and a server over the internet
- 4) Understanding core technologies like java, Kotlin, SQLite.
- 5) To familiarize students with the concepts of APIs (Application Programming Interfaces) and their role in app development.
- 6) To provide practical experience in integrating APIs into Android applications for real-world use cases.
- 7) To equip students with tools and techniques for effective API design, implementation, and testing.

**Course outcome:** After completing this course the student will be able to:

- The ability to install and configure android application, SDK tool.
- Built an Android application for mobile device.
- Understanding of XML: Building Android UI.
- Understanding Java Programming language for android app development.
- Create an app that works with data entered by the user.
- Learn how to use state to display data and reflect the changes automatically when the data gets updated.

**Evaluation Process:** Test (No. of students appear - 94, Absent -00)

**Duration of the process:** Two weeks

- 1) **Name of Department:** Computer Science
- 2) **Name of Course:** Introduction to API using Android Language
- 3) **Duration of Course:** 30 Hrs.
- 4) **No. of participants:** 95
- 5) **Class:** S.Y.B.Sc(Computer Science)  
T.Y.B. Sc (Computer Science)
- 6) **Name Of Guide:** Prof. A.P.Kulkarni  
Prof. S.V.Patole  
Prof. Y.J. Patangade  
Prof. P.G.Darakhe  
Prof. M.R.Ugle

### Course Syllabus:

Sr. No.	Unit
1	<p><b><u>Module 1: Fundamentals of APIs</u></b> <span style="float: right;"><b>5 Hours</b></span></p> <p>Introduction to APIs and their Importance in Application Development. Types of APIs: Web APIs, RESTful APIs, and GraphQL. HTTP Basics: Methods (GET, POST, PUT, DELETE), Status Codes, and Headers. Understanding JSON and XML Formats. Overview of RESTful API Architecture.</p>
2	<p><b><u>Module 2: Basics of Android App Development</u></b> <span style="float: right;"><b>5 Hours</b></span></p> <p>Setting Up Android Studio for Development. Overview of Android Components (Activities, Intents, and Layouts). Essentials of Kotlin/Java for Android Development.</p>

	Working with Android UI Elements (Buttons, TextViews, ListViews). Introduction to Android Lifecycle and Permissions.	
3	<b><u>Module 3: API Integration in Android</u></b>	<b>10 Hours</b>
	Setting Up Network Libraries: Retrofit and Volley. Connecting to RESTful APIs from an Android App. Parsing JSON Responses Using Kotlin/Java. Implementing Authentication and Security for API Calls. Displaying Data Fetched from APIs in UI (RecyclerView). Handling API Errors: Debugging and Exception Management.	
4	<b><u>Module 4: API Testing and Debugging Tools</u></b>	<b>3 Hours</b>
	Introduction to API Testing Tools (Postman). Creating and Testing API Requests. Debugging API Calls in Android Studio. Best Practices for Testing API Integrations in Android Apps.	
5	<b><u>Module 5: Practical Implementation and Mini-Project</u></b>	<b>7 Hours</b>
	Hands-On Sessions Using Public APIs (e.g., Weather, News, Currency Converter APIs). Building a Simple Android App with Live Data from APIs. Improving App Features with Dynamic Data Integration. Mini-Project: Students develop an API-based Android app (e.g., Weather App, Currency Converter). Project Presentation and Evaluation by Course Mentors	

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**TAL-KHED, DIST-PUNE 410 505**

**DEPARTMENT OF COMPUTER SCIENCE**

Short-Term Course 2023-24

**“Introduction To API using Android Language”**

## **Time Table**

<b>Sr.No</b>	<b>Date</b>	<b>Time</b>	<b>No. of Lectures</b>	<b>Name faculty</b>
1	27/02/2024	11:00 – 12:00	Theory	Prof. P.G.Darakhe
		12:00 – 4:00	Practical	Prof. P.G.Darakhe
2	28/02/2024	11:00 – 12:00	Theory	Prof. P.G.Darakhe
		12:00 – 3:00	Practical	Prof. P.G.Darakhe
3	29/02/2024	12:00 – 1:00	Theory	Prof.S.V. Patole
		1:00 – 4:00	Practical	Prof.S.V. Patole
4	01/03/2024	10:00 – 11:00	Theory	Prof. Y.J.Patangade
		11:00 – 3:00	Practical	Prof. Y.J.Patangade
5	04/03/2024	11:15 – 12:15	Theory	Prof. Y.J.Patangade
		12:30 – 3:30	Practical	Prof. Y.J.Patangade
6	05/03/2024	11:15 – 12:15	Theory	Prof. M.R.Ugle
		12:30 – 3:30	Practical	Prof. M.R.Ugle
7	06/03/2024	11:15 – 12:15	Theory	Prof.A.P.Kulkarni
		12:30 – 3:30	Practical	Prof.A.P.Kulkarni
8	07/03/2024	11:00 – 2:00	Examination	Prof.A.P.Kulkarni

  
Prof.A.P.Kulkarni

Head,

Department of Computer Science,  
Hutatma Rajguru Mahavidyalaya  
Rajgurunagar, (Pune) - 410 505





Dr. S. S. Pingale

**PRINCIPAL**  
Hutatma Rajguru Mahavidyalaya  
(Arts, Science & Commerce)  
Rajgurunagar.

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**DEPARTMENT OF COMPUTER SCIENCE**

Short-Term Course 2023-24

**“Introduction To API using Android Language”**

**Student List**

<b>Sr No</b>	<b>Student Name</b>	<b>Class</b>
1	Arekar Sakshi Maruti	S.Y.Bsc (Computer Science)
2	Bhagare Shweta Shailesh	S.Y.Bsc (Computer Science)
3	Bhalekar Prathamesh Arun	S.Y.Bsc (Computer Science)
4	Bhokase Nikhil Dilip	S.Y.Bsc (Computer Science)
5	Bomble Nikita Balasaheb	S.Y.Bsc (Computer Science)
6	Bomble Sakshi Somnath	S.Y.Bsc (Computer Science)
7	Chaskar Sahil Sanjay	S.Y.Bsc (Computer Science)
8	Dhaybar Saurabh Sandeep	S.Y.Bsc (Computer Science)
9	Gadage Mahesh Sanjay	S.Y.Bsc (Computer Science)
10	Gargote Shruti Rohidas	S.Y.Bsc (Computer Science)
11	Gavade Atharv Ramdas	S.Y.Bsc (Computer Science)
12	Gawade Harshal Santosh	S.Y.Bsc (Computer Science)
13	Ghadage Samruddhi Prakash	S.Y.Bsc (Computer Science)
14	Hake Amarjit Prakash	S.Y.Bsc (Computer Science)
15	Hole Pratik Rajaram	S.Y.Bsc (Computer Science)
16	Jadhav Priyanka Santosh	S.Y.Bsc (Computer Science)
17	Jadhav Aditya Sahebrao	S.Y.Bsc (Computer Science)
18	Jadhav Saloni Ankush	S.Y.Bsc (Computer Science)
19	Kharpude Rohan Kisan	S.Y.Bsc (Computer Science)
20	Kohinkar Purva Rajendra	S.Y.Bsc (Computer Science)
21	Korde Aditya Babaji	S.Y.Bsc (Computer Science)
22	Kulkarni Darshan Charuhas	S.Y.Bsc (Computer Science)
23	Ladhane Pratik Kalidas	S.Y.Bsc (Computer Science)
24	Lendave Saniya Bharat	S.Y.Bsc (Computer Science)
25	Mane Sejal Balu	S.Y.Bsc (Computer Science)
26	Mohite Abhishek Santosh	S.Y.Bsc (Computer Science)
27	More Pranav Somnath	S.Y.Bsc (Computer Science)
28	Morve Shubham Prakash	S.Y.Bsc (Computer Science)
29	Muluk Tejas Santosh	S.Y.Bsc (Computer Science)

<b>Sr No</b>	<b>Student Name</b>	<b>Class</b>
30	Naikade Siddhi Santosh	S.Y.Bsc (Computer Science)
31	Nehere Om Sunil	S.Y.Bsc (Computer Science)
32	Pacharane Vishwambhar Ramdas	S.Y.Bsc (Computer Science)
33	Pacharne Tejom Ramesh	S.Y.Bsc (Computer Science)
34	Padwal Kajal Shivaji	S.Y.Bsc (Computer Science)
35	Padwal Tejal Tanaji	S.Y.Bsc (Computer Science)
36	Patel Nadim Barkatali	S.Y.Bsc (Computer Science)
37	Pawale Kunal Ramdas	S.Y.Bsc (Computer Science)
38	Pawar Siddheshwar Subhash	S.Y.Bsc (Computer Science)
39	Phuge Aditya Gorakshanath	S.Y.Bsc (Computer Science)
40	Pokharkar Shravani Arun	S.Y.Bsc (Computer Science)
41	Rakshe Harshada Devram	S.Y.Bsc (Computer Science)
42	Raut Sahil Shankar	S.Y.Bsc (Computer Science)
43	Raut Kadambari Pandurang	S.Y.Bsc (Computer Science)
44	Salunke Pranali Devram	S.Y.Bsc (Computer Science)
45	Satkar Vishakha Mukund	S.Y.Bsc (Computer Science)
46	Sawant Dhairyashil Bajirao	S.Y.Bsc (Computer Science)
47	Shaikh Taufik Hanif	S.Y.Bsc (Computer Science)
48	Shinde Dnyaneshwari Ganesh	S.Y.Bsc (Computer Science)
49	Shinde Harshada Prakash	S.Y.Bsc (Computer Science)
50	Shinde Sakshi Sunil	S.Y.Bsc (Computer Science)
51	Singh Ishwar Krishna	S.Y.Bsc (Computer Science)
52	Sutar Prajakta Nilesh	S.Y.Bsc (Computer Science)
53	Tamboli Sahil Mahamad	S.Y.Bsc (Computer Science)
54	Tanpure Srushti Baban	S.Y.Bsc (Computer Science)
55	Thigale Omkar Lahu	S.Y.Bsc (Computer Science)
56	Thigale Sairaj Anil	S.Y.Bsc (Computer Science)
57	Thigale Sakshi Babaji	S.Y.Bsc (Computer Science)
58	Varye Avinash Vitthal	S.Y.Bsc (Computer Science)
59	Vishwakarma Anujkumar Shravan	S.Y.Bsc (Computer Science)
60	Wadekar Mayur Govind	S.Y.Bsc (Computer Science)
61	Walunj Chaitali Sanjay	S.Y.Bsc (Computer Science)
62	Wankhede Kunal Padmakar	S.Y.Bsc (Computer Science)
63	Papat Krishna Shekhar	S.Y.Bsc (Computer Science)
64	Said Shreyash Vilas	S.Y.Bsc (Computer Science)
65	Bhambure Saburi Sunil	T.Y.Bsc (Computer Science)



<b>Sr.No</b>	<b>Student Name</b>	<b>Class</b>
66	Datkhile Aishwarya Sandip	T.Y.B.Sc.(Computer Science)
67	Jare Sanika Bajarang	T.Y.B.Sc.(Computer Science)
68	Kale Kaveri Pramod	T.Y.B.Sc.(Computer Science)
69	Jagdale Sanket Kantaram	T.Y.B.Sc.(Computer Science)
70	Kale Pragati Santosh	T.Y.B.Sc.(Computer Science)
71	Kasbe Rutuja Gautam	T.Y.B.Sc.(Computer Science)
72	Khaire Aishwarya B.	T.Y.B.Sc.(Computer Science)
73	Masurkar Netra Nikesh	T.Y.B.Sc.(Computer Science)
74	Kaudare Nikeeta D.	T.Y.B.Sc.(Computer Science)
75	Pathare Vedang Sanjay	T.Y.B.Sc.(Computer Science)
76	Patil Sneha Anil	T.Y.B.Sc.(Computer Science)
77	Pawar Akash Vijay	T.Y.B.Sc.(Computer Science)
78	Pawar Samiksha Suresh	T.Y.B.Sc.(Computer Science)
79	Pawar Sonal Govind	T.Y.B.Sc.(Computer Science)
80	Rode Komal Santosh	T.Y.B.Sc.(Computer Science)
81	Sangare Sakshi Santosh	T.Y.B.Sc.(Computer Science)
82	Tavhare Mayuri Dipak	T.Y.B.Sc.(Computer Science)
83	Thakur Yogita Dattatray	T.Y.B.Sc.(Computer Science)
84	Pingat Omkar Shivaji	T.Y.B.Sc.(Computer Science)
85	Totre Mayuri Jaysing	T.Y.B.Sc.(Computer Science)
86	Ubale Shivam Pradip	T.Y.B.Sc.(Computer Science)
88	Tamboli Zinat Jakir	T.Y.B.Sc.(Computer Science)
89	Walunj Shweta Ramdas	T.Y.B.Sc.(Computer Science)
90	Walunj Vaishnavi Dipak	T.Y.B.Sc.(Computer Science)
91	Chavan Vishal Vitthal	T.Y.B.Sc.(Computer Science)
93	Gundal Tanuja Navnath	T.Y.B.Sc.(Computer Science)
94	Thigale Vaishnavi Bansilal	T.Y.B.Sc.(Computer Science)

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**Examination**

**Date: - 06/03/2024**

**Time: -2hr**

**Marks: -20**

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**Q.1 Choose the Correct Alternative**

**10M**

**1) Android is -**

- a. a web browser
- b. a web server
- c. an operating system
- d. None of the above

**2) Under which of the following Android is licensed?**

- a. Sourceforge
- b. Apache/MIT
- c. OSS
- d. None of the above

**3) Which of the following virtual machine is used by the Android operating system?**

- a. Dalvik virtual machine
- b. Simple virtual machine
- c. JVM
- d. None of the above

**4) Android is based on which of the following language?**

- a. C++
- b. C
- c. JAVA
- d. None of the above

**5) APK stands for -**

- a. Android Page Kit
- b. Android Package Kit
- c. Android Phone Kit
- d. None of the above

**6) What does API stand for?**

- a. Android Programming Interface
- b. Android Page Interface
- c. Application Programming Interface
- d. Application Page Interface

**7) What is an activity in android?**

- a. android package
- b. A single screen in an application with supporting java code
- c. Android class
- d. None of the above

**8) ADB stands for -**

- a. Android delete bridge
- b. Android destroy bridge
- c. Android debug bridge
- d. None of the above

**9) We require an AVD to create an emulator. What does AVD stand for?**

- a. Android Virtual display
- b. Active Virtual display
- c. Android Virtual device
- d. Active Virtual device

**10) Does android support other languages than java?**

- a. No
- b. May be
- c. Yes
- d. Can't say

**Q2. Attempt Any one of the following**

**10M**

- 1) Develop any sample android application for mobile device.
- 2) Develop any sample android application in virtual device.

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## **Evaluation Report**

<b>Sr No</b>	<b>Student Name</b>	<b>Class</b>	<b>Grade</b>
1	Arekar Sakshi Maruti	S.Y.Bsc (Computer Science)	O
2	Bhagare Shweta Shailesh	S.Y.Bsc (Computer Science)	A
3	Bhalekar Prathamesh Arun	S.Y.Bsc (Computer Science)	A
4	Bhokase Nikhil Dilip	S.Y.Bsc (Computer Science)	A
5	Bomble Nikita Balasaheb	S.Y.Bsc (Computer Science)	A
6	Bomble Sakshi Somnath	S.Y.Bsc (Computer Science)	A
7	Chaskar Sahil Sanjay	S.Y.Bsc (Computer Science)	A
8	Dhaybar Saurabh Sandeep	S.Y.Bsc (Computer Science)	B
9	Gadage Mahesh Sanjay	S.Y.Bsc (Computer Science)	A
10	Gargote Shruti Rohidas	S.Y.Bsc (Computer Science)	A
11	Gavade Atharv Ramdas	S.Y.Bsc (Computer Science)	A
12	Gawade Harshal Santosh	S.Y.Bsc (Computer Science)	B
13	Ghadage Samruddhi Prakash	S.Y.Bsc (Computer Science)	O
14	Hake Amarjit Prakash	S.Y.Bsc (Computer Science)	A
15	Hole Pratik Rajaram	S.Y.Bsc (Computer Science)	A
16	Jadhav Priyanka Santosh	S.Y.Bsc (Computer Science)	A
17	Jadhav Aditya Sahebrao	S.Y.Bsc (Computer Science)	A
18	Jadhav Saloni Ankush	S.Y.Bsc (Computer Science)	A
19	Kharpude Rohan Kisan	S.Y.Bsc (Computer Science)	B
20	Kohinkar Purva Rajendra	S.Y.Bsc (Computer Science)	O
21	Korde Aditya Babaji	S.Y.Bsc (Computer Science)	A
22	Kulkarni Darshan Charuhas	S.Y.Bsc (Computer Science)	O
23	Ladhane Pratik Kalidas	S.Y.Bsc (Computer Science)	O
24	Lendave Saniya Bharat	S.Y.Bsc (Computer Science)	A
25	Mane Sejal Balu	S.Y.Bsc (Computer Science)	B
26	Mohite Abhishek Santosh	S.Y.Bsc (Computer Science)	A
27	More Pranav Somnath	S.Y.Bsc (Computer Science)	O
28	Morve Shubham Prakash	S.Y.Bsc (Computer Science)	B
29	Muluk Tejas Santosh	S.Y.Bsc (Computer Science)	B

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30	Naikade Siddhi Santosh	S.Y.Bsc (Computer Science)	A
31	Nehere Om Sunil	S.Y.Bsc (Computer Science)	A
32	Pacharane Vishwambhar R.	S.Y.Bsc (Computer Science)	B
33	Pacharne Tejom Ramesh	S.Y.Bsc (Computer Science)	B
34	Padwal Kajal Shivaji	S.Y.Bsc (Computer Science)	O
35	Padwal Tejal Tanaji	S.Y.Bsc (Computer Science)	O
36	Patel Nadim Barkatali	S.Y.Bsc (Computer Science)	C
37	Pawale Kunal Ramdas	S.Y.Bsc (Computer Science)	O
38	Pawar Siddheshwar Subhash	S.Y.Bsc (Computer Science)	B
39	Phuge Aditya Gorakshanath	S.Y.Bsc (Computer Science)	A
40	Pokharkar Shravani Arun	S.Y.Bsc (Computer Science)	A
41	Rakshe Harshada Devram	S.Y.Bsc (Computer Science)	O
42	Raut Sahil Shankar	S.Y.Bsc (Computer Science)	A
43	Raut Kadambari Pandurang	S.Y.Bsc (Computer Science)	A
44	Salunke Pranali Devram	S.Y.Bsc (Computer Science)	O
45	Satkar Vishakha Mukund	S.Y.Bsc (Computer Science)	O
46	Sawant Dhairyashil Bajirao	S.Y.Bsc (Computer Science)	C
47	Shaikh Taufik Hanif	S.Y.Bsc (Computer Science)	B
48	Shinde Dnyaneshwari Ganesh	S.Y.Bsc (Computer Science)	O
49	Shinde Harshada Prakash	S.Y.Bsc (Computer Science)	O
50	Shinde Sakshi Sunil	S.Y.Bsc (Computer Science)	A
51	Singh Ishwar Krishna	S.Y.Bsc (Computer Science)	A
52	Sutar Prajakta Nilesh	S.Y.Bsc (Computer Science)	A
53	Tamboli Sahil Mahamad	S.Y.Bsc (Computer Science)	B
54	Tanpure Srushti Baban	S.Y.Bsc (Computer Science)	A
55	Thigale Omkar Lahu	S.Y.Bsc (Computer Science)	B
56	Thigale Sairaj Anil	S.Y.Bsc (Computer Science)	B
57	Thigale Sakshi Babaji	S.Y.Bsc (Computer Science)	A
58	Varye Avinash Vitthal	S.Y.Bsc (Computer Science)	C
59	Vishwakarma Anujkumar Shravan	S.Y.Bsc (Computer Science)	A
60	Wadekar Mayur Govind	S.Y.Bsc (Computer Science)	A
61	Walunj Chaitali Sanjay	S.Y.Bsc (Computer Science)	O
62	Wankhede Kunal Padmakar	S.Y.Bsc (Computer Science)	C
63	Papat Krishna Shekhar	S.Y.Bsc (Computer Science)	A
64	Said Shreyash Vilas	S.Y.Bsc (Computer Science)	C
65	Bhambure Saburi Sunil	T.Y.Bsc (Computer Science)	B

<b>Sr No</b>	<b>Student Name</b>	<b>Class</b>	<b>Grade</b>
66	Datkhile Aishwarya Sandip	T.Y.B.Sc.(Computer Science)	O
67	Jare Sanika Bajarang	T.Y.B.Sc.(Computer Science)	B
68	Kale Kaveri Pramod	T.Y.B.Sc.(Computer Science)	O
69	Jagdale Sanket Kantaram	T.Y.B.Sc.(Computer Science)	O
70	Kale Pragati Santosh	T.Y.B.Sc.(Computer Science)	O
71	Kasbe Rutuja Gautam	T.Y.B.Sc.(Computer Science)	A
72	Khaire Aishwarya B.	T.Y.B.Sc.(Computer Science)	A
73	Masurkar Netra Nikesh	T.Y.B.Sc.(Computer Science)	O
74	Kaudare Nikeeta D.	T.Y.B.Sc.(Computer Science)	O
75	Pathare Vedang Sanjay	T.Y.B.Sc.(Computer Science)	O
76	Patil Sneha Anil	T.Y.B.Sc.(Computer Science)	O
77	Pawar Akash Vijay	T.Y.B.Sc.(Computer Science)	O
78	Pawar Samiksha Suresh	T.Y.B.Sc.(Computer Science)	O
79	Pawar Sonal Govind	T.Y.B.Sc.(Computer Science)	A
80	Rode Komal Santosh	T.Y.B.Sc.(Computer Science)	O
81	Sangare Sakshi Santosh	T.Y.B.Sc.(Computer Science)	O
82	Tavhare Mayuri Dipak	T.Y.B.Sc.(Computer Science)	A
83	Thakur Yogita Dattatray	T.Y.B.Sc.(Computer Science)	O
84	Pingat Omkar Shivaji	T.Y.B.Sc.(Computer Science)	B
85	Totre Mayuri Jaysing	T.Y.B.Sc.(Computer Science)	O
86	Ubale Shivam Pradip	T.Y.B.Sc.(Computer Science)	C
88	Tamboli Zinat Jakir	T.Y.B.Sc.(Computer Science)	A
89	Walunj Shweta Ramdas	T.Y.B.Sc.(Computer Science)	A
90	Walunj Vaishnavi Dipak	T.Y.B.Sc.(Computer Science)	A
91	Chavan Vishal Vitthal	T.Y.B.Sc.(Computer Science)	B
93	Gundal Tanuja Navnath	T.Y.B.Sc.(Computer Science)	B
94	Thigale Vaishnavi Bansilal	T.Y.B.Sc.(Computer Science)	A

K.T.S.P. MANDAL'S  
HUTATMA RAJGURU MAHAVIDYALAYA RAJGURUNAGAR  
ARTS, COMMERS AND SCIENCE COLLEGE  
RAJGURUNAGAR  
Department of Computer Science

Short Term Course  
On  
"Introduction to API using Android Language"

ATTENDCE SHEET

DATE: 27-2-2024 (Inauguration function + Theory)

TIME: 11:00  
to 4:00pm

Sr.No.	Student Name	class	sign
1	Abhishek santosh Mohite	S.Y. BCS	
2	Ichwan Rishna Singh	S.Y. BCS	
3	Pawale Kunal Ramdas	S.Y. BCS	
4	Gaurav Bhalekar	S.Y. BCS	
5	Shubham More	S.Y. BCS	
6	Sahit Chaskar	S.Y. BCS	
7	Atharv Gavade	S.Y. BCS	
8	Pranav More	S.Y. BCS	
9	Tejas Muluk	S.Y. BCS	
10	Aditya Phuge	S.Y. BCS	
11	Darshan Kulkarni	S.Y. BCS	
12	Shreyash Shinde	S.Y. BCS	
13	Maresh Gadage	S.Y. BCS	
14	Saurabh Dhaybar	S.Y. BCS	
15	Pratik Ladhane	S.Y. BCS	
16	Nikhil Bhokase	S.Y. BCS	
17	Krishna S. Patil	S.Y. BCS	
18	Harshal Gowade	S.Y. BCS	

2

19	Sutar Prajakta Nilesh	SYBCS	<del>Butae</del>
20	Gurgate shrawi	SYBCS	<del>Shetti</del>
21	bhagure shweta	SYBCS	<del>shweta</del>
22	Tampure srushti	SYBCS	<del>shetty</del>
23	Shinde sakshi Smil	SYBCS	<del>Sakshi</del>
25	Kalunj chaitali sanjay	S.Y.BCS	<del>Caudy</del>
26	Padwal kajal shivaji	S.Y.BCS	<del>Kalwal</del>
27	balunke Pranali	S.Y.BCS	<del>balunke</del>
28	Rakshhe Harshada	SYBCS	<del>Rakshhe</del>
29	shinde Dnyaneshwari	SYBCS	<del>Shinde</del>
30	Padwal Tejal	SYBCS	<del>Padwal</del>
31	Bomble Sakshi	S.Y.BCS	<del>Bomble</del>
32	Thigale sakshi	S.Y.BCS	<del>Thigale</del>
33	Neheze om sunil	S.Y.BCS	<del>N</del>
34	Priyanka santerh Jadhav.	S.Y.BCS	<del>P.J.Jadhav</del>
35	satkar vishakha	S.Y.B.C.S	<del>satkar</del>
36	Lendave saniya Bharat	S.Y.BCS	<del>saniya</del>
37	Wadekar mayur Govind	S.Y.BCS	<del>mayur</del>
38	Gundal Tanuja Navnath	T.Y.BCS	<del>Gundal</del>
39	Tamboli Zinat	T.Y.BCS	<del>Zebur</del>
40	patil Sneha	T.Y.B.C.S.	<del>Patil</del>
41	Kaudare nireeta	T.Y.B.C.S	<del>nireeta</del>
42	masurkar netta	T.Y.BCS	<del>masurkar</del>
43	Sangara sakshi	T.Y.BCS	<del>sakshi</del>
44	Tavhare Mayuri Dipak	T.Y.BCS	<del>Tav</del>
45	Kale Kaveri Pramod	T.Y.BCS	<del>Kale</del>
46	Patwar Samiksha	T.Y.BCS	<del>Patwar</del>
47	Thigale Vaishnavi Banshal	T.Y.BCS	<del>Thigale</del>
48	Totter Mayuri	T.Y.BCS	<del>Totter</del>
49	Kalunj Vaishnavi	T.Y.BCS	<del>Kalunj</del>
50	Kasbe Rutuja	T.Y.BCS	<del>Rutuja</del>
Sl.	Patwar Sonal		<del>Sonal</del>

Topic - Introduction, History, overview

Talavadi  
Prof. Dattakhe P.G.



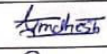

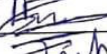
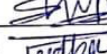
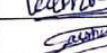

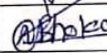
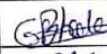

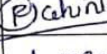
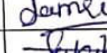
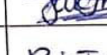
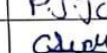
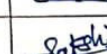




K.T.S.P. MANDAL'S  
HUTATMA RAJGURU MAHAVIDYALAYA RAJGURUNAGAR  
ARTS, COMMERS AND SCIENCE COLLEGE  
RAJGURUNAGAR  
Department of Computer Science

Short Term Course  
On  
"Introduction to API using Android Language"

ATTENDANCE SHEET


DATE: 28-2-2024 (Theory + Practical)

TIME: 11:00 AM  
to 4:00 PM

Sr.No.	Student Name	class	sign
1	Maresh Sanjay Gadage	SY. BCS	
2	Taufik Hanif Shaikh	SY. BCS	
3	Aditya Phuge	SY. BCS	
4	Tejar Muluk	SY. BCS	
5	Pratik Kalidas Ladhane	SY. BCS	
6	Darshan Chomhar Kulkarni	SY. BCS	
7	Krushna Shekhar Papat	SY. BCS	
8	Nikhil Dilip Bhokse	SY. BCS	
9	Gaurav Arun Bhalekar	SY. BCS	
10	Aditya Babaji Karde	SY. BCS	
11	Kohinkar Purva Rajendra	SR. BCS	
12	Ghadage Samudhi Prakash	SR. BCS	
13	Asekar Sakshi Manuti	SR. BCS	
14	Jadhav Priyanka Santosh	SR. BCS	
15	Walunj Chaitali Sanjay	S.Y. BCS	
16	Shinde Sakshi Sunil	S.Y. BCS	
17	Singh Ishwar Krishna	S.Y. BCS	
18	Atharva Gawade	S.Y. BCS	

19	Arekar Sakeshi Manuti	SYBCS	<del>Sakeshi</del>
20	Kohinkar Purva Rajendra	SYBCS	<del>Bahin</del>
21	Ghadage Samruddhi Prakash	SYBCS	<del>Samruddhi</del>
22	Jadhav Priyanka Santosh	SYBCS	P.S. Jadhav
23	Bombale Nikita Balasaheb	SYBCS	<del>Nikita</del>
25	Totre Mayuri Jaysing	TYBCS	<del>Totre</del>
26	Khalunj Vaishnavi Dipak	TYBCS	<del>Vaishnavi</del>
27	Pawar Samiksha Suresh	TYBCS	<del>Samiksha</del>
28	Tavhare Mayuri Dipak	TYBCS	<del>Mayuri</del>
29	Manekar Netra Nitesh	TYBCS	<del>Manekar</del>
30	Sangare Sakshi Santosh	TYBCS	<del>Sangare</del>
31	Kale Kavari Pramod	TYBCS	<del>Kavari</del>
32	Datkhi Aishwarya	TYBCS	<del>Datkhi</del>
33	Rode Komal	TYBCS	<del>Komal</del>
34	Kaulgare Niketa	TYBCS	<del>Niketa</del>
35	Patil Sneha	TYBCS	<del>Sneha</del>
36	Tambali Rina	TYBCS	<del>Rina</del>
37	Thigale Vaishnavi	TYBCS	<del>Vaishnavi</del>
38	Solunke Pranali	S.Y.BCS	<del>Pranali</del>
39	Rakhe Harshada	S.Y.BCS	<del>Rakhe</del>
40	Bomble Sakshi	S.Y.BCS	<del>Bomble</del>
41	Thigale Sakshi	S.Y.BCS	<del>Thigale</del>
42	Gargate Shreya	S.Y.BCS	<del>Shreya</del>
43	Bhagare Shweta	S.Y.BCS	<del>Shweta</del>
44	Nehere Om Sunil	S.Y.BCS	<del>Om</del>
45	Sattar Vishakha Mukund	S.Y.B.C.S.	<del>Vishakha</del>
46			
47			
48			
49			
50			

Topic - Installation & set up Android Studio on windows & basic of Android

  
Prof. S.V. Patole

K.T.S.P. MANDAL'S  
HUTATMA RAJGURU MAHAVIDYALAYA RAJGURUNAGAR  
ARTS, COMMERS AND SCIENCE COLLEGE  
RAJGURUNAGAR  
Department of Computer Science




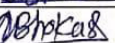








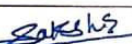

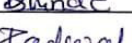

Short Term Course  
On  
"Introduction to API using Android Language"

ATTENDANCE SHEET

DATE: 4-3-2024

(Theory + Practical)

TIME: 11:00 am  
to 4:00 pm

Sr.No.	Student Name	class	sign
1	Abhishek santosh Mohite	SJ.BCS	
2	Ishwar Kishan Singh	S.Y.BCS	
3	Pratik Ladhane	SY.BCS	
4	Nikhil bhokare	S.Y. BCS	
5	Shrutiash. shinde	S.Y. BCS	
6	Mahesh Gadage	SY BCS	
7	Darshan Kulkarni	SY BCS	
8	Krishna papat	SY BCS	K.papat
9	Saurabh Dhejbar	S.Y. BCS	
10	Harshal Gawade	SY BCS	H.S.Gawade
11	Poojaka Sutar	SY. BCS	
12	Shruti Gargote	SY. BCS	
13	Kajal Padwal	SY. BCS	
14	Walunjchaitali Sanjay	S.Y. BCS	
15	shinde sakshi Sunil	S.Y. BCS	
16	shinde Dnyaneshwari	SY. BCS	
17	Padwal Tejal	SY. BCS	
18	Tanpure srushti	SY BCS	

19	Gargate Shruti	SYBCS	Shruti
20	Rhagare shweta	SYBCS	shweta
21	thigale Sakshi	SYBCS	Sakshi
22	Raksho Harshada	S.Y.BCS	RHP
23	Tampure Srushti	S.Y.B.C.S	Sruti
25	Bamble Sakshi	S.Y.BCS	Bamble
26	Salunke Pranali	Sy BCS	Salunke
27	Bamble Nikita	Sy BCS	Bamble
28	Padwal Kajal	Sy BCS	Padwal
29	Sutar Prajakta	S.Y. BCS	Bute
30	shinde dnyaneshwari	S.Y. BCS	Bhinde
31	salkar vishakha	S.Y. BCS	Walkar
32	shinde Harshada	S.Y. BCS	ShiS
33	Anuj Vishwakarma	Sy BCS	Anuj
34	Amarjit Hake	Sy BCS	Amarjit
35	Sahil Tamboli	Sy BCS	Samboli
36	Siddheshwar pawar	Sy BCS	Sawar
37	saurabh Dhaybar	Sy BCS	SAD
38	Dhairyashil Sawant	Sy. BCS	Dawant
39	Harshal Gawade	Sy BCS	H.S.Gawade
40	Gundal Tanuja Navnath	Ty BCS	Gundal
41	Tamboli Zinat	Ty BCS	Fateli
42	Patil sneha	Ty BCS	Fatil
43	Kaudare nireeta	T.Y.B.C.S	Nireeta
44	Kule kavari	Ty BCS	Kule
45	Tavhare Mayuri	Ty BCS	Tavare
46	Pawar samiksha	Ty BCS	Pawar
47	Kasbe Rutuja	Ty BCS	Phashe
48	Pawar Sonal	Ty BCS	Spawar
49	Bangare Balashi	Ty BCS	Sakshi
50	Bhamburkar Netra	Ty BCS	Bhamburkar
51	Thigale Vaishnavi	Ty BCS	Thigale
52	Totre Mayuri	---	Mayuri
53	Walmuj Vaishnavi	---	Vai.

Topic :- Create virtual emulators & Physical emulators with API Prof. Y. J. Patengade

Y. J. Patengade

K.T.S.P. MANDAL'S

**HUTUTMA RAJGURU MAHAVIDYALAYA,  
RAJGURUNAGAR TAL-KHED, DIST-PUNE 410 505  
DEPARTMENT OF COMPUTER SCIENCE**

Short-Term Course 2023-24

**“Introduction To API Using Android Language”**

Name:- Vedang Sanjay Pathare  
Class:- T.V.BCS  
e-Mail Id:- vedangpathare9630@gmail.com  
Contact No :- 9973356296

SR.No	Particulars	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1.	The objectives of the course were clearly defined	✓				
2.	The course contents were easy to follow		✓			
3.	The trainers were knowledgeable about the training topic	✓				
4.	The course was well organized within stipulated		✓			
5.	Participation and interaction were encouraged		✓			
6.	The trainers were well Prepared	✓				
7.	The facilities provided were adequate and comfortable	✓				

8. Any suggestion for improving the program-

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K.T.S.P. MANDAL'S

HUTUTMA RAJGURU MAHAVIDYALAYA,  
RAJGURUNAGAR TAL-KHED, DIST-PUNE 410 505  
DEPARTMENT OF COMPUTER SCIENCE

Short-Term Course 2023-24

“Introduction To API Using Android Language”

Name:- Gavade Atharva Ramdas.

Class:- SY bcs Roll No - 11

e-Mail Id:- AtharvaGavade143@gmail.com.

Contact No :- 9822484617

SR.No	Particulars	Strongly Agree	Agree	Netural	Disagree	Strongly Disagree
1.	The objectives of the course were clearly defined	✓				
2.	The course contents were easy to follow		✓			
3.	The trainers were knowledgeable about the training topic	✓				
4.	The course was well organized within stipulated	✓				
5.	Participation and interaction were encouraged	✓				
6.	The trainers were well Prepared	✓				
7.	The facilities provided were adequate and comfortable		✓			

8. Any suggestion for improving the program-

✓ very good teaching.

K.T.S.P. MANDAL'S

HUTUTMA RAJGURU MAHAVIDYALAYA,  
RAJGURUNAGAR TAL-KHED, DIST-PUNE 410 505  
DEPARTMENT OF COMPUTER SCIENCE

Short-Term Course 2023-24

“Introduction To API Using Android Language”

Name:- Chaskar Sahil sanjay  
Class:- sybcs  
e-Mail Id:- sanichaskar370@gmail.com  
Contact No :- 8767396840

SR.No	Particulars	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1.	The objectives of the course were clearly defined	✓				
2.	The course contents were easy to follow	✓				
3.	The trainers were knowledgeable about the training topic		✓			
4.	The course was well organized within stipulated	✓				
5.	Participation and interaction were encouraged	✓				
6.	The trainers were well Prepared	✓				
7.	The facilities provided were adequate and comfortable		✓			
8. Any suggestion for improving the program-						
No any suggestion						

K.T.S.P. MANDAL'S

HUTUTMA RAJGURU MAHAVIDYALAYA,  
RAJGURUNAGAR TAL-KHED, DIST-PUNE 410 505  
DEPARTMENT OF COMPUTER SCIENCE

Short-Term Course 2023-24

“Introduction To API Using Android Language”

Name:- Jagdale Sanket Kantoram.  
Class:- TYBsc (Computer Science).  
e-Mail Id:- Sanketjagdale282@gmail.com.  
Contact No :- 968992 7607

SR.No	Particulars	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1.	The objectives of the course were clearly defined	✓				
2.	The course contents were easy to follow		✓			
3.	The trainers were knowledgeable about the training topic	✓				
4.	The course was well organized within stipulated			✓		
5.	Participation and interaction were encouraged	✓				
6.	The trainers were well Prepared		✓			
7.	The facilities provided were adequate and comfortable		✓			
8.	Any suggestion for improving the program-					
	<hr/>					
	<hr/>					





  
**K.T.S.P.MANDAL'S**  
**HUTATMA RAJGURU MAHAVIDYALAYA**  
**RAJGURUNAGAR**  
**TAL.KHED ,DIST.PUNE 410505**  
**ACCREDITED B++ GRADE BY NACC**  
**Certificate**

This is to certify that  
 Mr./Mrs.....Vedang Sanjay Pathare .....of ..T.Y.Bcs.....has successfully  
 completed short term course on "Introduction to API using  
 AndroidLanguage" obtained 'A' grade from 27/02/2024 to 06/03/2024  
 organized by Department of Computer Science.

  
P.N.A.P.Kulkarni  
 Head  
 Department of Computer Science  
 Hutatma Rajguru Mahavidyalaya  
 Rajgurunagar (Pune)-410505

**COORDINATOR**

  
Dr. S. S. Pingale  
 PRINCIPAL  
 Hutatma Rajguru Mahavidyalaya  
 (P.N.A. Branch & Computer)  
 Rajgurunagar.

**PRINCIPAL**



  
**K.T.S.P.MANDAL'S**  
**HUTATMA RAJGURU MAHAVIDYALAYA**  
**RAJGURUNAGAR**  
**TAL.KHED ,DIST.PUNE 410505**  
**ACCREDITED B++ GRADE BY NACC**  
**Certificate**

This is to certify that  
 Mr./Mrs.....Gawade Atharv Ramdas. ....of ..S.Y.Bcs.....has successfully  
 completed short term course on "Introduction to API using  
 AndroidLanguage" obtained 'O' grade from 27/02/2024 to 06/03/2024  
 organized by Department of Computer Science.

  
P.N.A.P.Kulkarni  
 Head  
 Department of Computer Science  
 Hutatma Rajguru Mahavidyalaya  
 Rajgurunagar (Pune)-410505

**COORDINATOR**

  
Dr. S. S. Pingale  
 PRINCIPAL  
 Hutatma Rajguru Mahavidyalaya  
 (P.N.A. Branch & Computer)  
 Rajgurunagar.

**PRINCIPAL**





**K.T.S.P.MANDAL'S**  
**HUTATMA RAJGURU MAHAVIDYALAYA**  
**RAJGURUNAGAR**  
**TAL.KHED ,DIST.PUNE 410505**  
**ACCREDITED B++ GRADE BY NACC**

**Certificate**

This is to certify that  
 Mr./Mrs.....Chasakar Sahil .....Sanjay of ..S.Y.Bcs.....has successfully  
 completed short term course on "Introduction to API using  
 AndroidLanguage" obtained 'A' grade from 27/02/2024 to 06/03/2024  
 organized by Department of Computer Science.

  
Dr. A. P. Kulkarni  
Head  
Department of Computer Science  
Hutatma Rajguru Mahavidyalaya  
Rajgurunagar, Pune-410505  
**COORDINATOR**

  
Dr. S. S. Pingale  
PRINCIPAL  
Hutatma Rajguru Mahavidyalaya  
(Arts, Science & Commerce)  
Rajgurunagar,  
**PRINCIPAL**





**K.T.S.P.MANDAL'S**  
**HUTATMA RAJGURU MAHAVIDYALAYA**  
**RAJGURUNAGAR**  
**TAL.KHED ,DIST.PUNE 410505**  
**ACCREDITED B++ GRADE BY NACC**

**Certificate**

This is to certify that  
 Mr./Mrs.....Sanket Jagdale of ..T.Y.Bcs.....has successfully completed short  
 term course on "Introduction to API using Android Language" obtained 'O'  
 grade from 27/02/2024 to 06/03/2024 organized by Department of  
 Computer Science.

  
Dr. A. P. Kulkarni  
Head  
Department of Computer Science  
Hutatma Rajguru Mahavidyalaya  
Rajgurunagar, Pune-410505  
**COORDINATOR**

  
Dr. S. S. Pingale  
PRINCIPAL  
Hutatma Rajguru Mahavidyalaya  
(Arts, Science & Commerce)  
Rajgurunagar,  
**PRINCIPAL**



Rajgurunagar, Maharashtra, India  
VV2Q+5CJ, Rajgurunagar, Maharashtra 410505, India  
Lat 18.850244°  
Long 73.888381°  
27/02/24 10:56 AM GMT +05:30



Rajgurunagar, Maharashtra, India  
VV2Q+5CJ, Rajgurunagar, Maharashtra 410505, India  
Lat 18.85023°  
Long 73.888392°  
27/02/24 10:59 AM GMT +05:30



Rajgurunagar, Maharashtra, India  
VV2Q+274, Rajgurunagar, Maharashtra 410505, India  
Lat 18.849964°  
Long 73.888219°  
28/02/24 10:30 AM GMT +05:30





Rajgurunagar, Maharashtra, India  
VV2Q+274, Rajgurunagar, Maharashtra 410505, India  
Lat 18.850032°  
Long 73.888424°  
04/03/24 12:01 PM GMT +05:30

Prof.A.P.Kulkarni  
Head,

Department of Computer Science,  
Hutatma Rajguru Mahavidyalaya  
Rajgurunagar. (Pune) - 410 505



Dr. S. S. Pingale

**PRINCIPAL**  
Hutatma Rajguru Mahavidyalaya  
(Arts, Science & Commerce)  
Rajgurunagar.