NEHRU MEMORIAL COLLEGE (AUTONOMOUS)
PUTHANAMPATTI-621 007
NATIONALLY ACCREDITED WITH "A" GRADE BY NAAC

PG AND RESEARCH DEPARTMENT OF COMPUTER SCIENCE

VALUE ADDED COURSE ON

Mobile Application Development

2019-2020

PROGRAMME COORIDATOR	Ms. K. PONVEL AZHAGU LAKSHMI Assoc.Prof PG and Research Department of Computer Science
COURSE TEACHER	Mr.P.VELMURUGAN Asst.Prof PG and Research Department of Computer Science

Course Description

With the rapid advancement of mobile technologies such as mobile gaming, machine learning, AI, and facial recognition apps increasing in popularity, there's never been a better time to become a mobile application developer. This certificate course provides the opportunity for the students to develop mobile applications with database.

Objectives of the course

- To learn how to create app using Android Studio effectively.
- To understand and work with the Components of Android Studio to create UIs in an attractive manner.
- To familiar with various database available and working with native database.
- To give exposure to create simple app using various widgets and database.

Learning Objectives

- To acquire in depth knowledge in various android versions and its installation.
- To give practical exposure to develop UIs.
- To develop apps with SQLITE database..

Learning Outcomes

- Ability to use Android Studio in developing simple apps.
- Design and develop application with different facilities in Android.
- Apply the concepts to develop applications with backend.

SYLLABUS

Mobile Application Development

Objectives

The course aims to

- Understand Android architecture and installation
- Build UIs using components in Android Studio
- Impart knowledge in different data storage methods

UNIT-I

Introduction to app Development- Introduction to Android Platform – Android SDK - Installation of Android Studio – Creating First Application – Components of Project Files.

UNIT-II

Introduction to Design Components – TextView- EditText- Button-ImageButton- ListView- ScrollBar- Spinner –Other Components- Layouts and its typesWorking with Layouts- Designing UI with Components in Android Studio

UNIT-III

Android Application Design Essentials: Application Context, Intent, Toast, Dialogs and its Types- Working with Dialogs - Animation resources- Working with Animation – Working with Camera and Video

UNIT-IV

Storage and Database: Shared Preferences- Creating, Storing and retrieving contents using Shared Preferences- Content Providers- Introduction to Database: SQLITE- Command Syntax.

UNIT-V

Applications with Database: Creating Database and establish Connections- Working with DDL and DML using SQLITE. Introduction to working with other databases.

Reference Books

Reto Meier, “Professional Android 2 Application Development”, Wiley India Pvt Ltd 2.
Mark L Murphy, “Beginning Android”, Wiley India Pvt Ltd
Android Application Development All in one for Dummies by Barry Burd, Edition

Students Enrolled

S.NO	NAME	ROLL NUMBER	DEPARTMENT
1.	Gowri S	2K18CA01	MCA
2.	MadhuVarshini E	2K18CA03	MCA
3.	Nancy Jooliet A	2K18CA04	MCA
4.	Sopna R	2K18CA07	MCA
5.	Ajithkumar M	2K19LCA01	MCA
6.	Arishkumar S	2K19LCA03	MCA
7.	Gopinath P	2K19LCA04	MCA
8.	Manojkumar B	2K19LCA07	MCA
9.	Mohanraj S	2K19LCA08	MCA
10.	Prabhakaran S	2K19PCA09	MCA
11.	Sivaprakash V	2K19LCA11	MCA
12.	Sivaraj D	2K19LCA12	MCA
13.	Venkatesan N	2K19LCA13	MCA
14.	Raja G	2K19LCA18	MCA
15.	Subash R	2K19LCA21	MCA
16.	Harshini J	2K19LCA14	MCA
17.	Pavithra R	2K19LCA16	MCA
18.	Sowndharya T	2K19LCA17	MCA
19.	Kavitha S	2K19LCA19	MCA
20.	Nithya B	2K19LCA25	MCA
21.	DEENA B	2K17BC12	BCA
22.	Lavanya S	2K17BC21	BCA
23.	Oviya J	2K17BC27	BCA

Schedule:

Time: 22.7.2020 to 31.7.2020 (10 days. 3hours/day)

Duration: 30Hrs

Attendance

	7/22/2020 16:40:56	7-23-2020 14:37:18	7-24-2020 12:40:10	7-25-2020 11:08:17
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1	Ajith kumar	Ajith kumar	Ajith kumar	Ajith kumar
2	Arishkumar	Arishkumar	Arishkumar	Arishkumar
3	Chelladurai_ Kavitha	Chelladurai_ Kavitha	Chelladurai_ Kavitha	Chelladurai_ Kavitha
4	DEENA B	DEENA B	DEENA B	DEENA B
5	Gowri Kutty	Gowri Kutty	Gowri Kutty	Gowri Kutty
6	Harshini Jayabalan	Harshini Jayabalan	Harshini Jayabalan	Harshini Jayabalan
7	Lavanya Lavan	Lavanya Lavan	Lavanya Lavan	Lavanya Lavan
8	Madhu Varshini	Madhu Varshini	Madhu Varshini	Madhu Varshini
9	Manoj kumar	Manoj kumar	Manoj kumar	Manoj kumar
10	Mohan Mohan	Mohan Mohan	Mohan Mohan	Mohan Mohan
11	NANCY JOOLIET	NANCY JOOLIET	NANCY JOOLIET	NANCY JOOLIET
12	Nithya Balu	Nithya Balu	Gopinath	Nithya Balu
13	Gopinath	Gopinath	Oviya	Gopinath
14	Oviya	Oviya	Pavithra	Oviya
15	Pavithra	Pavithra	Prabakaran Selvaraj	Pavithra
16	Prabakaran Selvaraj	Prabakaran Selvaraj	raja rajaag	Prabakaran Selvaraj
17	raja rajaag	raja rajaag	Sivaraj	raja rajaag
18	Sivaraj	Sivaraj	SIVA PRAKASH	Sivaraj
19	SIVA PRAKASH	SIVA PRAKASH	Sowndharya 123	SIVA PRAKASH
20	sofna ravi	sofna ravi	Venkatesh	sofna ravi
21	Sowndharya 123	Sowndharya 123		Sowndharya 123
22	Subash 17	Subash 17		Subash 17
23	Venkatesh	Venkatesh		Venkatesh

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Ajith kumar	Ajith kumar	Ajith kumar	Ajith kumar	
Arishkumar	Arishkumar	Arishkumar	Arishkumar	
Chelladurai_ Kavitha	Chelladurai_ Kavitha	Chelladurai_ Kavitha	Chelladurai_ Kavitha	
DEENA B	DEENA B	DEENA B	DEENA B	
Gowri Kutty	Gowri Kutty	Gowri Kutty	Gowri Kutty	
Harshini Jayabalan	Harshini Jayabalan	Harshini Jayabalan	Harshini Jayabalan	
Lavanya Lavan	Lavanya Lavan	Lavanya Lavan	Lavanya Lavan	
Madhu Varshini	Madhu Varshini	Madhu Varshini	Madhu Varshini	
Manoj kumar	Manoj kumar	Manoj kumar	Manoj kumar	
Mohan Mohan	Mohan Mohan	Mohan Mohan	Mohan Mohan	
NANCY JOOLIET	NANCY JOOLIET	NANCY JOOLIET	NANCY JOOLIET	
Nithya Balu	Nithya Balu	Nithya Balu	Nithya Balu	
Gopinath	Gopinath	Gopinath	Gopinath	
Oviya	Oviya	Oviya	Oviya	
Pavithra	Pavithra	Pavithra	Pavithra	
Prabakaran Selvaraj	Prabakaran Selvaraj	Prabakaran Selvaraj	Prabakaran Selvaraj	
raja rajaag	raja rajaag	raja rajaag	raja rajaag	
Sivaraj	Sivaraj	Sivaraj	Sivaraj	
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Sowndharya 123	Sowndharya 123	Sowndharya 123	Sowndharya 123	
Subash 17	Subash 17	Subash 17	Subash 17	
Venkatesh	Venkatesh	Venkatesh	Venkatesh	

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Ajith kumar	Ajith kumar
Arishkumar	Arishkumar
Chelladurai_ Kavitha	Chelladurai_ Kavitha
DEENA B	DEENA B
Gowri Kutty	Gowri Kutty
Harshini Jayabalan	Harshini Jayabalan
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Madhu Varshini	Madhu Varshini
Manoj kumar	Manoj kumar
Mohan Mohan	Mohan Mohan
NANCY JOOLIET	NANCY JOOLIET
Nithya Balu	Nithya Balu
Gopinath	Gopinath
Oviya	Oviya
Pavithra	Pavithra
Prabakaran Selvaraj	Prabakaran Selvaraj
raja rajaag	raja rajaag
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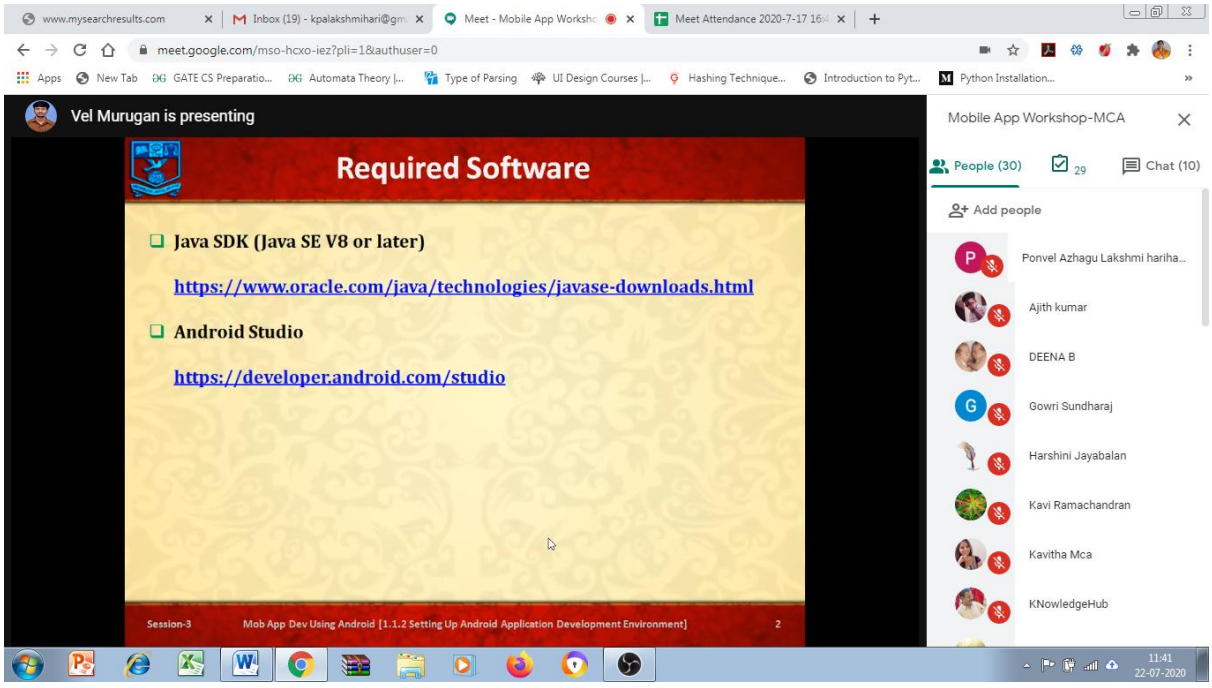
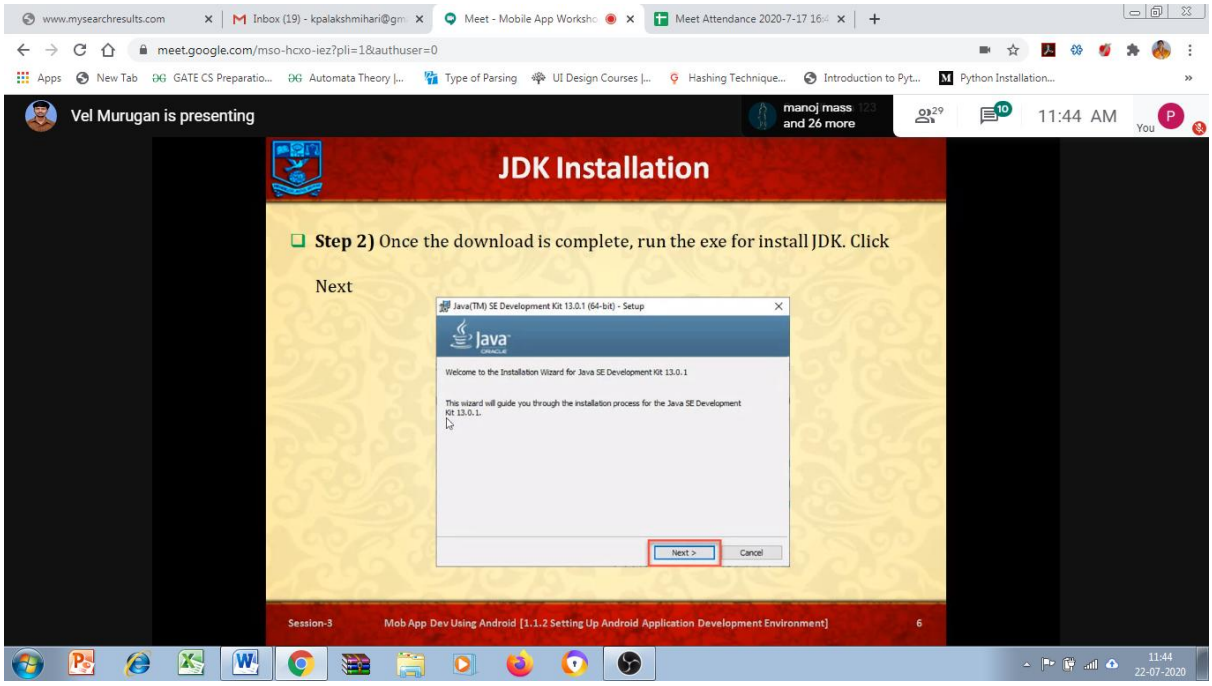
Sowndharya 123	Sowndharya 123
Subash 17	Subash 17
Venkatesh	Venkatesh




Vel Murugan is presenting
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JDK Installation
Step 2) Once the download is complete, run the exe for install JDK. Click
Next
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Welcome to the Installation Wizard for Java SE Development Kit 13.0.1
This wizard will guide you through the installation process for the Java SE Development Kit 13.0.1.
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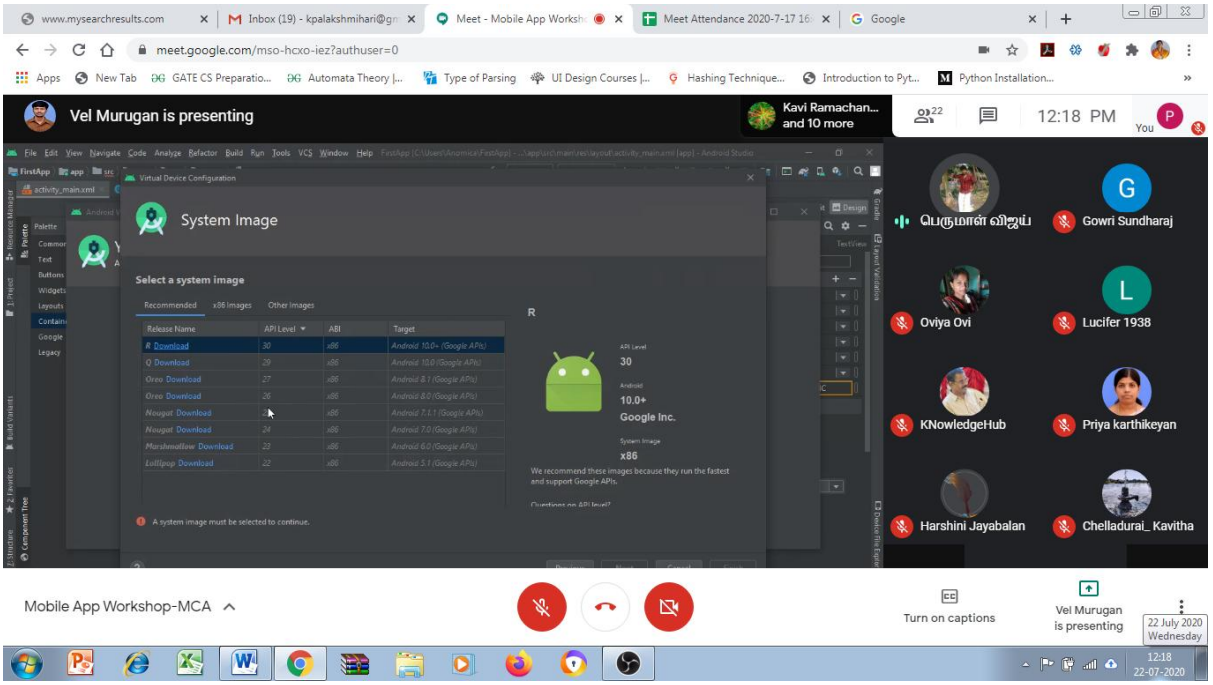
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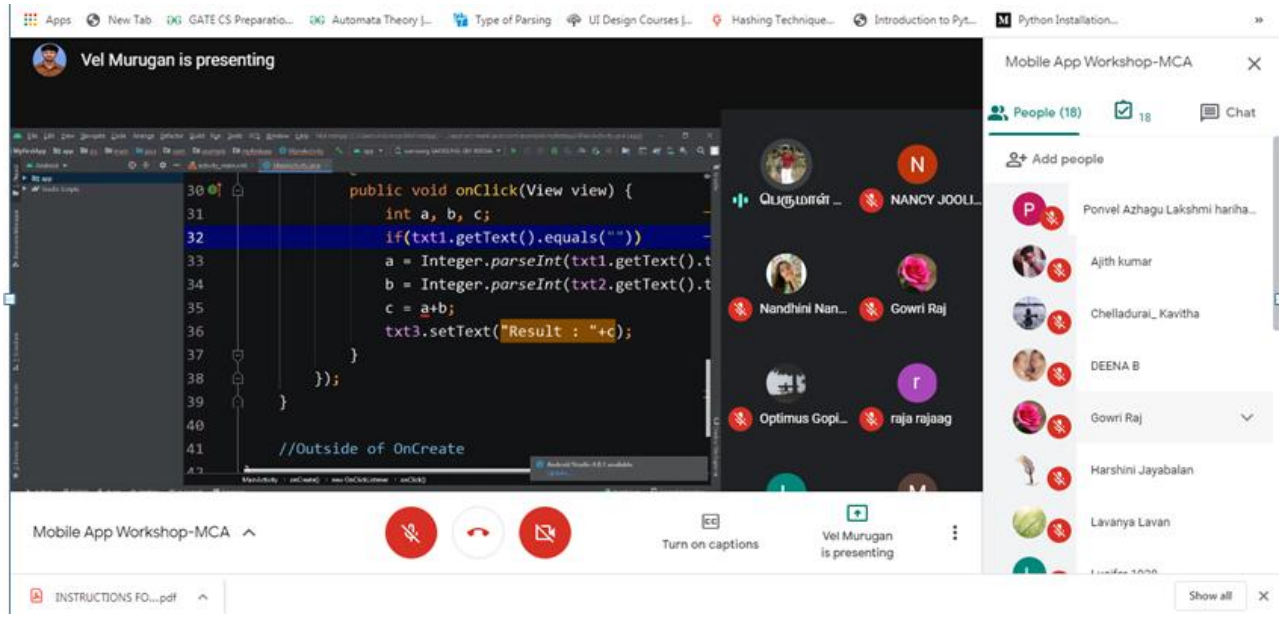
22 July 2020 Wednesday



Meeting Link: https://meet.google.com/mso-hcxo-iez

Evaluation Criteria:

Online Multiple Choice Questions through Google Forms.

Link: https://forms.gle/D6TFTje9AuTQaSZ8A

Conducted on 30.07.2020

Practical Test: 31.07.2020

Question Paper attached in Annexure - I

Examiner: Ms.K.Ponvel Azhagu Lakshmi

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2	2020/07/3	manojma	1.00 / 5	MANOJ KU	-- / 0		2k19lca07	-- / 0		II MCA Co	-- / 0		Windows	0.00 / 1		HTC Drear	0.00 / 1
3	2020/07/3	hacker@g	1.00 / 5	Kalpana	-- / 0		2k18bc07	-- / 0		III BCA Co	-- / 0		Linux	1.00 / 1		HTC Drear	0.00 / 1
4	2020/07/3	lucifer193	1.00 / 5	VENKATSA	-- / 0		2k19LCA1	-- / 0		II MCA Co	-- / 0		Linux	1.00 / 1		HTC Drear	0.00 / 1
5	2020/07/3	gowriraj1	3.00 / 5	GOWRI S	-- / 0		2K18CA01	-- / 0		II MCA Co	-- / 0		Linux	1.00 / 1		T-Mobile	1.00 / 1
6	2020/07/3	lavanyala	1.00 / 5	S.LAVANY	-- / 0		2K17BC21	-- / 0		III BCA Co	-- / 0		Linux	1.00 / 1		Google gP	0.00 / 1
7	2020/07/3	mohanraj	1.00 / 5	MOHANRA	-- / 0		2K19LCA0	-- / 0		II MCA Co	-- / 0		Windows	0.00 / 1		HTC Drear	0.00 / 1
8	2020/07/3	ajithbca2	2.00 / 5	AJITHKUM	-- / 0		2K19LCA0	-- / 0		II MCA Co	-- / 0		Linux	1.00 / 1		HTC Drear	0.00 / 1
9	2020/07/3	pavithra1	5.00 / 5	R. PAVITH	-- / 0		2k19lca16	-- / 0		II MCA Co	-- / 0		Linux	1.00 / 1		T-Mobile	1.00 / 1
10	2020/07/3	sowndhar	5.00 / 5	SOWNDH	-- / 0		2K19LCA1	-- / 0		II MCA Co	-- / 0		Linux	1.00 / 1		T-Mobile	1.00 / 1
11	2020/07/3	harshasak	5.00 / 5	HARSHINI	-- / 0		2K19LCA1	-- / 0		II MCA Co	-- / 0		Linux	1.00 / 1		T-Mobile	1.00 / 1
12	2020/07/3	kavisaran	5.00 / 5	KAVITHA.	-- / 0		2k19lca19	-- / 0		II MCA Co	-- / 0		Linux	1.00 / 1		T-Mobile	1.00 / 1
13	2020/07/3	nancyjool	2.00 / 5	A NANCY	-- / 0		2K18CA04	-- / 0		II MCA Co	-- / 0		Java	0.00 / 1		T-Mobile	1.00 / 1
14	2020/07/3	nithyabal	3.00 / 5	Nithya.B	-- / 0		2k19lca25	-- / 0		II MCA Co	-- / 0		Linux	1.00 / 1		HTC Drear	0.00 / 1

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RESULT

S.NO	NAME	ROLL NUMBER	DEPARTMENT	MCQ & Practical
1.	Gowri S	2K18CA01	MCA	A
2.	MadhuVarshini E	2K18CA03	MCA	C
3.	Nancy Jooliet A	2K18CA04	MCA	A
4.	Sopna R	2K18CA07	MCA	C
5.	Ajithkumar M	2K19LCA01	MCA	C
6.	Arishkumar S	2K19LCA03	MCA	B
7.	Gopinath P	2K19LCA04	MCA	C
8.	Manojkumar B	2K19LCA07	MCA	C
9.	Mohanraj S	2K19LCA08	MCA	C
10.	Prabhakaran S	2K19PCA09	MCA	B
11.	Sivaprakash V	2K19LCA11	MCA	B
12.	Sivaraj D	2K19LCA12	MCA	B
13.	Venkatesan N	2K19LCA13	MCA	A
14.	Raja G	2K19LCA18	MCA	C
15.	Subash R	2K19LCA21	MCA	C
16.	Harshini J	2K19LCA14	MCA	A
17.	Pavithra R	2K19LCA16	MCA	A
18.	Sowndharya T	2K19LCA17	MCA	A
19.	Kavitha S	2K19LCA19	MCA	A
20.	Nithya B	2K19LCA25	MCA	B
21.	DEENA B	2K17BC12	BCA	A
22.	Lavanya S	2K17BC21	BCA	A
23.	Oviya J	2K17BC27	BCA	A

Nehru Memorial College

(Autonomous)
[Nationally Accredited with "A" Grade by NAAC]
Puthanampatti- 621 007, Tiruchirappalli(Dt.), Tamil Nadu, India

E- Certificate

This is to certify that **S LAVANYA (2K17BC21), III BCA, Nehru Memorial College** has participated in the Online course on **"Mobile Application Development"** organized by Post Graduate and Research Department of Computer Science from **22.07.2020** to **31.7.2020(3hrs/day).**

Head of the Department
(Dr.M.Muralidharan)

Principal
(Dr.A.R.Ponperiasamy)

Nehru Memorial College

(Autonomous)
[Nationally Accredited with "A" Grade by NAAC]
Puthanampatti- 621 007, Tiruchirappalli(Dt.), Tamil Nadu, India

E- Certificate

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Head of the Department
(Dr.M.Muralidharan)

Principal
(Dr.A.R.Ponperiasamy)

ANNEXURE-I: Practical Examination Question Paper

1. Design a Calculator App

2. Design a Utility app for BMI calculation

3. Create a Splash Screen with necessary Animations

4. Create a UI to read Name, Roll No, Semester and Course and store it into database

5. Create a custom Dialog to set and confirm password.

6. Design a Simple UI, Read data and store it into SQLITE and write a code to retrieve it

7. Design a Simple utility app with notification

8. Read Data using widgets store it into Shared preferences and retrieve it

9. Design Alert Dialog and display the message.