KANDULA SRINIVASA REDDY MEMORIAL COLLEGE OF ENGINEERING
(AUTONOMOUS)

KADAPA-516003. AP

(Approved by AICTE, Affiliated to JNTUA, Ananthapuramu, Accredited by NAAC)

(An ISO 9001-2008 Certified Institution)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATION COURSE
ON
"ANDROID APPLICATION DEVELOPMENT"

Resource Person: 1. Mrs. S. Riyaz Banu, Assistant Professor, Dept. of CSE, KSRMCE

2. Mr. N. Suresh Babu, Assistant Professor, Dept. of CSE, KSRMCE

Course Coordinator: Mr. N. Ramanjaneya Reddy, Assistant Professor, Dept. of CSE, KSRMCE

Duration: 06/05/2019 to 25/05/2019

K.S.R.M. COLLEGE OF ENGINEERING

(UGC - AUTONOMOUS)

Kadapa, Andhra Pradesh, India - 516003

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

An ISO 14001:2004 & 9001: 2015 Certified Institution

Lr./KSRMCE/ (Department of CSE)/2018-19

Date: 01/05/2019

To
The Principal
KSRM College of Engineering
Kadapa, AP.

Sub: KSRMCE - (Department of CSE) – Permission to conduct certification course on Android Application Development - Requested – reg.

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Respected Sir,

With reference to the cited, the Department of CSE is planning to conduct certificate course on "**Android Application Development**" for B.Tech students from **06/05/2019 to 25/05/2019**. So I request you to grant permission to conduct the certificate course. This is submitted for your kind perusal.

Thanking you sir,

Yours Faithfully,

Coordinator,
Mr. N Ramanjaneya Reddy,
Assistant Professor ,
CSE Dept.,

Forwarded to our Principal Sir,

Cc:

To The Director for Information

To All Deans/HODs

Permitted
V. S. S. Murthy

K.S.R.M. COLLEGE OF ENGINEERING

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Kadapa, Andhra Pradesh, India - 516003

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Dated: 02/05/2019

All the B.Tech students are here by informed that department of Computer Science & Engineering is going to organize certification course on **"Android Application Development"** from **06/05/2019 to 25/05/2019**. Interested students do register their names with the below mentioned coordinator on or before 05/05/2019, 5PM.

For any queries contact,

Coordinator:
Mr. N Ramanjaneya Reddy,
Assistant Professor,
CSE Dept.,

HoD
Dr. M. Sreenivasulu,
M. E., Ph. D.
Professor & HOD CSE
K.S.R.M. College of Engineering
KADAPA - 516 003

Cc to:

The Management /Director / All Deans / All HODS/Staff / Students for information

The IQAC Cell for Documentation

K.S.R.M. COLLEGE OF ENGINEERING

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Date:02.05.2019

Department of Computer Science & Engineering

Certificate Course on Android Application Development (06/05/2019 to 25/05/2019)

Registered Student List

S.No.	Roll Number	Name of the Student	Year & Branch	Signature

Coordinator **HoD**

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Date:02.05.2019

Department of Computer Science & Engineering

Certificate Course on Android Application Development (06/05/2019 to 25/05/2019)

Registered Student List

S.No.	Roll Number	Name of the Student	Year & Branch	Signature
1	169Y1A0503	A. Vanitha	B.Tech VI Sem	A. Vanitha
2	169Y1A0507	A. Subrahmanya Sumanth	Kumar 6th Sem	Sumanth
3	1694 1A0523	C. Swapna	B.Tech 6th Sem	C Swapna
4	169Y1A0520	C. Govardhan	Reddy 6th Sem	CG
5	1694 1A0531	H. Subhash Reddy	B Tech 6th sem	Subhash R
6	169Y1A0509	B. Venkatesh	6th Sem	B. Venkatesh
7	1694 1A0524	D. Vasudha	6th Sem	Vasu
8	1694 1A0538	J. charan Reddy	B Tech 6th sem	Charan Reddy
9	169Y1A0502	A. Sreekarth	B.Tech. VI Sem	A
10	169Y1A0525	D. Gangi Reddy	VI th sem	gangi
11	169Y1A0504	A. Shireesha	B.Tech 6th Sem	A. Shireesha
12	169Y1A0526	D. Manjula.	6th Sem	Manjula.
13	169Y1A0528	D. Jyoshna	B.Tech VI Sem	Dj
14	169Y 1A0543	K. Sriram	6th Sem	KS
15	1694 1A0527	D. prasanna kumar	6th sem	Prasanna
16	169Y1A0505	A. Venkata Ravindra Reddy	B.Tech VI Sem	A. Ravi

17	169Y1A0514	B Nagamanasa	6th Sem	
18	169Y1A0540	J Ashok reddy	6th sem	J Ashok reddy
19	169Y1A0563	M. Ajay Kumar	6th sem	M Ajay kumar.
20	169Y1A0562	M. Srinivasulu	6th sem	M. Srinivasulu
21	169Y1A0561	M. Sai chaitha	6th sem	M Sai
22	169Y1A0515	B Bhagyashree	6th sem	
23	169Y1A0541	K. Jayanth	B.tech. 6th sem	Jayanth.
24	169Y1A0560	K. prashanth	6th sem	K. prashanth
25	169Y1A0516	B Govardhan Reddy	6th sem	
26	169Y1A0570	C. Uday Kumar	6th Sem	Uday
27	169Y1A0558	K. Sivanagamani	6th sem	K. Siva
28	169Y1A0532	G. Upendra.	6th sem	
29	169Y1A0569	K. Naresh	6th sem	K. Naresh
30	169Y1A0519	C. VINOD KUMAR	B.Tech 6th Sem	
31	169Y1A0539	J. Kiran sai	B. Tech 6th sem	Kiran
32	169Y1A0531	G. Veneela	6th sem	
33	169Y1A0557	K. Sai Kusuma	6th sem	K. Sai
34	169Y1A0511	B. I Abhinivas a Yadav	6th sem	
35	169Y1A0518	C. A. Saravathi	VI Sem	
36	169Y1A0530	D. Meghana	VI	Mega
37	169Y1A0516	C Sai charan	6th sem	
38	169Y1A0540	J. Ashok reddy	B.tech. 6th sem	Ashok reddy.
39	169Y1A0529	D. Venkata Sai Vamsi	VI th sem	
40	169Y1A0521	C. PAVITHRA	Sixth Sem	Pavithra

41	16941A0536	G. V. Sudharshan	6th	G.V.S
42	16941A0548	K. Ravi Kumar	6th sem	Ravikumar
43	16941A0556	K. Supraja	6th sem	K. Supraja
44	16941A0549	K. Vara Lakshmi	6th Sem	Vara Lakshmi
45	16941A0522	G. Praveen	6th Sem	
46	16941A0547	K. Lakshmieswaramma	6th Sem	K. Lakshmi
47	16941A0550	K. Maheswar reddy	6th sem	K. Maheswar reddy
48	16941A0545	K. Mounika reddy	B.tech 6th sem	K. Mounika
49	16941A0554	K. Rajeswara reddy	6th sem	K Rajeev
50	16941A0542	K. Varshitha	B.tech 6th sem	Varshitha.
51	16941A0555	K. Anil kumar reddy	6th sem	K Anil
52	16941A0551	K. Bhavitha	6th sem	K. Bhavitha
53	16941A0533	G. Karthik	6th	
54	16941A0552	K. V. Sai Aditya	6th sem	K. V. Sai aditya
55	16941A0544	K. C. Sankar	B.tech 6th sem	Sankar
56	16941A0553	K. Semanth kumar reddy	6th sem	K. Semanth
57	16941A0546	K. Narasimha reddy	B.tech 6th sem	K. Narasimha reddy.
58	16941A0534	G. Krishnakanth	6th	

Coordinator

HoD

Dr. M. Sreenivasulu
M E, Ph D.
Professor & HOD CSE
K.S.R.M. College of Engineering
KADAPA - 516 003

K.S.R.M. College of Engineering (Autonomous), Kadapa.

Department of CSE

Android Application Development

Module 1:

Java: The Object-Oriented Programming concepts and their various models, A detailed study of Inheritance, How to handle the Exceptions in programming, Different types of Interfaces and Packages, What is the use of Java Virtual Machine and .jar file extension?, the types of Thread Class and Runnable Interface.

SQL: study the Data Manipulation Language and Data Definition Language queries.

Module 2:

Android Introduction: What is an Android App?, How to set up the development Environment, What is the .apk file extension and Dalvik Virtual Machine.

Application Structure: AndroidManifest.xml, Uses-SDK, R.java and Resources, Layouts and & Drawable Resources, Activities and Active Life Cycle.

Emulator- Android Virtual Device: How to edit emulator settings, How to Launch emulator, What are the shortcuts for Emulator, What is the use of Logcat, what is DDMS, Creation of First Project, The manifesting File, What is the Layout resource, Running your app on Emulator, Second App: (switching between activities, Develop an app for demonstrating the communication between Intents

Module 3:

Basic UI Design: Form widgets, Text Fields, Layouts, [dip, dp, sip, sp] versus px

Preferences: Preferences from XML

Menu: Option menu, Context menu, Sub menu, menu from XML, menu via code, Examples

Module 4:

Intents: Explicit Intents, Implicit intents

Advanced User Interface Design: Time and Date, Images and media, Composite, Alert Dialogs & Toast, Popup, Examples

Styles & Themes: styles.xml, drawable resources for shapes, gradients(selectors), style attribute in layout file, Applying themes via code and manifest file, Examples

Content Providers: SQLite Programming, SQLiteOpenHelper, SQLiteDatabse, Cursor, Reading and updating Contacts, Reading bookmarks.

Module 5:

Linkify: Web URLs, Email addresses, text, map addresses, Phone numbers, MatchFilter & TransformFilter.

Adapters and Widgets: Adapters: a. ArrayAdapters, b. BaseAdapters, ListView and ListActivity, Custom listview, GridView using adapters, Gallery using adapters

Text Books:

1. "Android Studio 3.0 Development Essentials", **Neil Smith**
2. "Android Programming: The Big Nerd Ranch Guide", **Bill Phillips & Chris Stewart**
3. "Android App Development for Dummies", **Michael Burton**
4. "Head First Android Development-A Brain-Friendly Guide", **Dawn Griffiths and David Griffiths**

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Department of Computer Science & Engineering
Certificate Course on Android Application Development
Schedule

S.No	Date	Time	Faculty	Topic
1	06/05/2019	4:00 PM to 6.00 PM	Mrs. S. Riyaz Banu	Inauguration, **Java:** The Object-Oriented Programming concepts and their various models, A detailed study of Inheritance, How to handle the Exceptions in programming
2	07/05/2019	4:00 PM to 6.00 PM	Mrs. S. Riyaz Banu	Different types of Interfaces and Packages, What is the use of Java Virtual Machine and .jar file extension?, the types of Thread Class and Runnable Interface
3	08/05/2019	4:00 PM to 6.00 PM	Mrs. S. Riyaz Banu	Practical session
4	09/05/2019	4:00 PM to 6.00 PM	Mr. N. Suresh Babu	study the Data Manipulation Language **and** Data Definition Language queries.
5	10/05/2019	4:00 PM to 6.00 PM	Mr. N. Suresh Babu	What is an Android App?, How to set up the development Environment, What is the .apk file extension and Dalvik Virtual Machine.
6	11/05/2019	4:00 PM to 6.00 PM	Mr. N. Suresh Babu	Practical Session
7	13/05/2019	4:00 PM to 6.00 PM	Mrs. S. Riyaz Banu	AndroidManifest.xml, Uses-SDK, R.java and Resources, Layouts and & Drawable Resources, Activities and Active Life Cycle.

8	14/05/2019	4:00 PM to 6.00 PM	Mrs. S. Riyaz Banu	How to edit emulator settings, How to Launch emulator, What are the shortcuts for Emulator, What is the use of Logcat, what is DDMS, Creation of First Project
9	15/05/2019	4:00 PM to 6.00 PM	Mrs. S. Riyaz Banu	The manifesting File, What is the Layout resource, Running your app on Emulator, Second App: (switching between activities, Develop an app for demonstrating the communication between Intents
10	16/05/2019	4:00P M to 6.00 PM	Mr. N. Suresh Babu	Practical Session
11	17/05/2019	4:00PM to 6.00PM	Mr. N. Suresh Babu	Form widgets, Text Fields, Layouts, [dip, dp, sip, sp] versus px **Preferences:** Preferences from XML
12	18/05/2019	4:00PM to 6.00PM	Mr. N. Suresh Babu	Option menu, Context menu, Sub menu, menu from XML, menu via code, Examples
13	20/05/2019	4:00 PM to 6.00 PM	Mrs. S. Riyaz Banu	**Intents:** Explicit Intents, Implicit intents **Advanced User Interface Design:** Time and Date, Images and media, Composite, Alert Dialogs & Toast, Popup, Examples
14	21/05/2019	4:00 PM to 6.00 PM	Mrs. S. Riyaz Banu	**Styles & Themes:** styles.xml, drawable resources for shapes, gradients(selectors), style attribute in layout file, Applying themes via code and manifest file, Examples
15	22/05/2019	4:00 PM to 6.00 PM	Mr. N. Suresh Babu	**Content Providers:** SQLite Programming, SQLiteOpenHelper, SQLiteDatabse, Cursor, Reading and updating Contacts, Reading bookmarks.

16	23/05/2019	4:00 PM to 6.00 PM	Mrs. S. Riyaz Banu	**Linkify:** Web URLs, Email addresses, text, map addresses, Phone numbers, MatchFilter & TransformFilter.
17	24/05/2019	4:00 PM to 6.00 PM	Mrs. S. Riyaz Banu Mr. N. Suresh Babu	**Adapters and Widgets:** Adapters: a. ArrayAdapters, b. BaseAdapters, ListView and ListActivity, Custom listview, GridView using adapters, Gallery using adapters
18	25/05/2019	4:00 PM to 6.00 PM	Mrs. S. Riyaz Banu Mr. N. Suresh Babu	Certificate Distribution

Coordinator

HoD

Dr. M. Sreenivasulu,
M. E., Ph. D.
Professor & HOD CSE
K.S.R.M. College of Engineering
K A D A P A - 516 003

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Department of Computer Science & Engineering

Certificate Course on Android Application Development from 06/05/2019 to 25/05/2019

Attendance Sheet

S.No	Roll Num	Name Of The Student	06/05/2019	07/05/2019	08/05/2019	09/05/2019	10/05/2019	11/05/2019	13/05/2019	14/05/2019	15/05/2019	16/05/2019	17/05/2019	18/05/2019	20/05/2019	21/05/2019	22/05/2019	23/05/2019	24/05/2019	25/05/2019
1	169Y1A0502	A. Sreekanth	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
2	169Y1A0503	A.Vanitha	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
3	169Y1A0504	A. Shireesha	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
4	169Y1A0505	A. Venkata Ravindra Reddy	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
5	169Y1A0507	A. Subrahmanya Sumanth Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6	169Y1A0509	B. Venkatesh	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
7	169Y1A0510	B. Govardhan Reddy	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
8	169Y1A0511	B. I Anandsrinivasyadav	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
9	169Y1A0514	B. Nagamanasa	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10	169Y1A0515	B. Bhagya Sree	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
11	169Y1A0516	C. Sai Charan	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
12	169Y1A0517	C. Uday Kumar Reddy	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
13	169Y1A0518	C.A Sravanthi	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
14	169Y1A0519	C.I Vinod Kumar Reddy	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
15	169Y1A0520	C. Govardhanreddy	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P

16	169Y1A0521	C. Pavithra	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
17	169Y1A0522	C. Praveen	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
18	169Y1A0523	C. Swapna	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
19	169Y1A0524	D. Vasudha	P	P	P	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P
20	169Y1A0525	D. Gangi Reddy	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
21	169Y1A0526	D. Manjula	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
22	169Y1A0527	D. Prasannakumar	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
23	169Y1A0528	D. Jyoshna	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
24	169Y1A0529	D. Venkata Sai Vamsi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
25	169Y1A0530	D. Meghana	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
26	169Y1A0531	G. Vineela	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
27	169Y1A0532	G. Upendra	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
28	169Y1A0533	G. Karthik	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
29	169Y1A0534	G. Krishnakanth	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P
30	169Y1A0535	Go. Saireddy	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
31	169Y1A0536	G. Venkata Sudharshan Reddy	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
32	169Y1A0537	H. Subhash Reddy	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
33	169Y1A0538	J. Charan Reddy	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
34	169Y1A0539	J. Kiran Sai	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
35	169Y1A0540	J. Ashok Reddy	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
36	169Y1A0541	K. Jayanth	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P
37	169Y1A0542	K. Varshitha	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
38	169Y1A0543	K. Sriram	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
39	169Y1A0544	K. C. Shankar	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
40	169Y1A0545	K. Mounika Reddy	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
41	169Y1A0546	K. Narasimha Reddy	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
42	169Y1A0547	K. Lakshmi Eswaramma	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
43	169Y1A0548	K. Ravikumar	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
44	169Y1A0549	K. Vara Lakshmi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
45	169Y1A0550	K. Maheswarreddy	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
46	169Y1A0551	K. Babitha	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P

47	169Y1A0552	K. Valasala Sai Adithya	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
48	169Y1A0553	K. Suman Kumar Reddy	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
49	169Y1A0554	K. Rajeswara Reddy	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
50	169Y1A0555	K.Anilkumarreddy	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
51	169Y1A0556	K. Supraja	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
52	169Y1A0557	K. Sai Kusuma	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
53	169Y1A0558	K. Siva Nagamani	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
54	169Y1A0559	K. Naresh	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P
55	169Y1A0560	K. Pranitha	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
56	169Y1A0561	M. Saicharitha	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
57	169Y1A0562	M. Srinivasulu	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
58	169Y1A0563	M. Ajay Kumar	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P

Coordinator

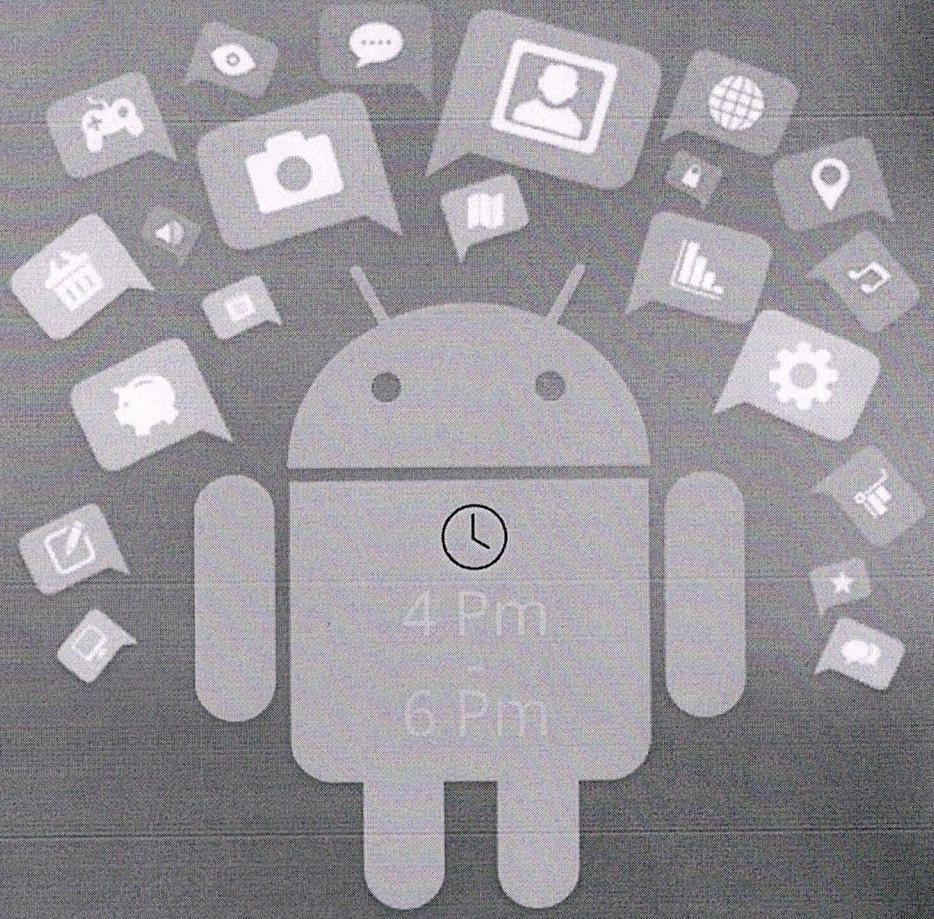
HoD

Dr. M. Sreenivasulu,
M. E., Ph. D.
Professer & HOD CSE
K.S.R.M. College of Engineering
KADAPA - 516 003

K.S.R.M. COLLEGE OF ENGINEERING

(UGC - Autonomous)
Kadapa, Andhra Pradesh, India– 516 003
Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

Department of Computer Science & Engineering



06-May-2019 to 25-May-2019

Certificate course on

ANDROID APP DEVELOPMENT

venue : MB 209,MAD Lab

Coordinator
Mr. N.Ramanjaneya Reddy
Resource Persons
Mrs. S. Riyaz Banu,
Mr.N. Suresh Babu

Ksrmceofficial www.ksrmce.ac.in 8143731980, 8575697569

K.S.R.M. COLLEGE OF ENGINEERING

(UGC-AUTONOMOUS)

Kadapa, Andhra Pradesh, India– 516 003

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An ISO 14001:2004 & 9001: 2015 Certified Institution

ACTIVITY REPORT

Certification Course
On
"Android Application Development"

06-05-2019 to 25-05-2019

Target Group	:	**B.Tech V Semester Students**
Details of Participants	:	**58 Students**
Coordinator	:	**Mr. N. Ramanjaneya Reddy** **Asst. Prof, Dept. of CSE,KSRMCE**
Organizing Department	:	**Department of Computer Science & Engineering**
Venue	:	**MB209 (MAD Lab)**

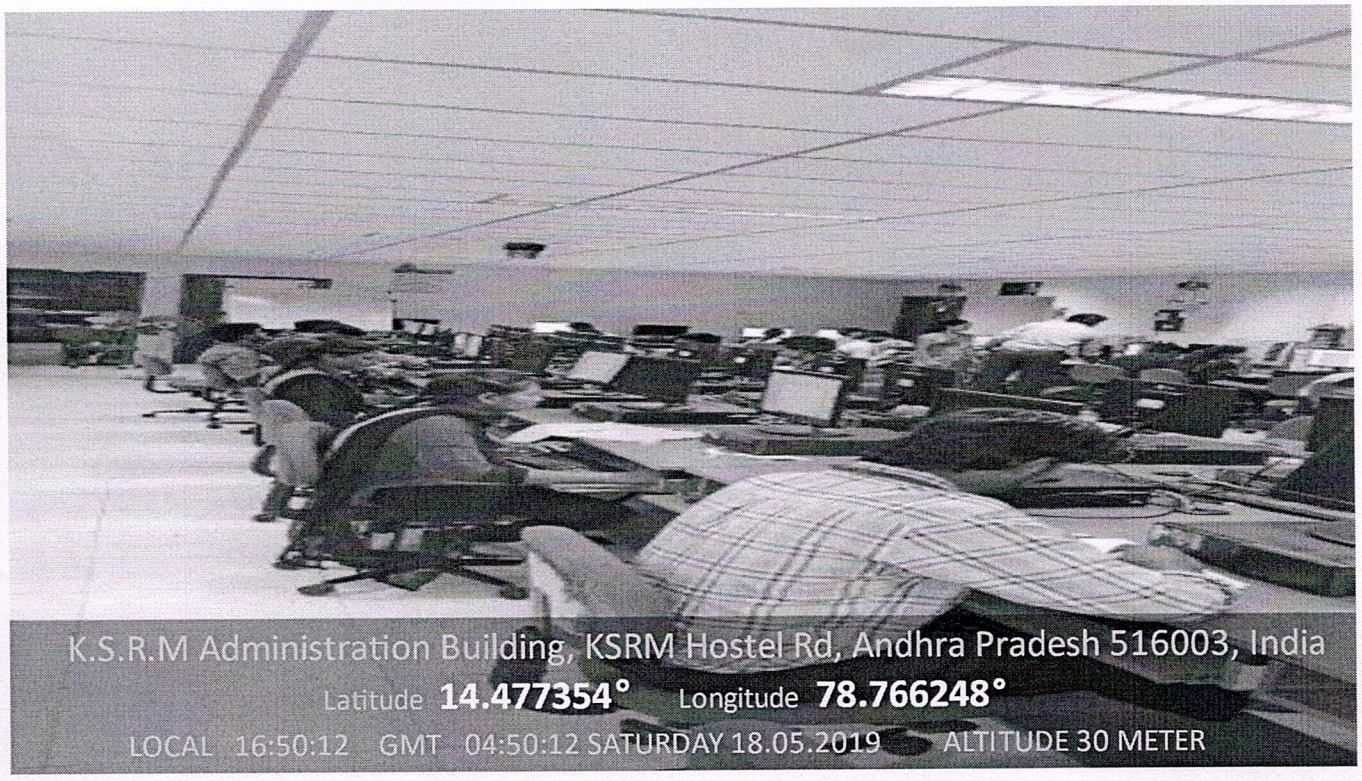
Description:

Certification course on "Android Application Development" was organized by Dept. of CSE from **09-09-2019 to 27-09-2019** in MB 209(MAD LAB). Mr. N. Ramanjaneya Reddy acted as Course Coordinator & resource persons are Mrs. S. Riyaz Bhanu and Mr. N. Suresh Babu. This course will clear up the fundamental concepts of Android Application Development. Thirty Four hours course was successfully completed and participation certificates were provided to the participants.

Event Photos:

Event banner

Resource Person monitor and clarify doubts about certificate course in session (Android Application Development)



Students participated in practical session

Coordinator

HoD

Dr. M. Sreenivasulu,
M E, Ph. D.
Professer & HOD CSE
K.S.R.M. College of Engineering

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Miss. G. Vineela bearing Roll Number. 169Y1A0531 participated in a certification course on "**Android Application Development**" organized by department of Computer Science and Engineering from 06-05-2019 to 25-05-2019.

COORDINATOR HOD PRINCIPAL

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Miss. K. Sriram bearing Roll Number. 169Y1A0543 participated in a certification course on "**Android Application Development**" organized by department of Computer Science and Engineering from 06-05-2019 to 25-05-2019.

COORDINATOR HOD V. S. S. Murthy PRINCIPAL

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Miss. K. Babitha bearing Roll Number. 169Y1A0551 participated in a certification course on "**Android Application Development**" organized by department of Computer Science and Engineering from 06-05-2019 to 25-05-2019.

COORDINATOR	HOD	PRINCIPAL

K.S.R.M. COLLEGE OF ENGINEERING

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FEEDBACK FORM

Certificate Course on "Android Application Development", from 06-05-2019 to 25-05-2019
Organized
by
Department of Computer Science & Engineering

NAME:

Roll No:

S.No	Feedback Item	Excellent	Very Good	Good	Average	Below Average
1	Organization of certificate course and session planning by resource person.					
2	Clarity in content delivery.					
3	Content is relevant and useful.					
4	Adequate opportunity to interact with resource person.					
5	Judicious mix of concepts, principles and practices.					
6	Assignments and tasks are interesting and challenging.					

Any suggestions for improvement.

Signature

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FEEDBACK FORM

Certificate Course on "Android Application Development", from 06-05-2019 to 25-05-2019
Organized
by
Department of Computer Science & Engineering

NAME: A. Sreekanth

Roll No: 16941A0502

S.No	Feedback Item	Excellent	Very Good	Good	Average	Below Average
1	Organization of certificate course and session planning by resource person.	✓				
2	Clarity in content delivery.	✓				
3	Content is relevant and useful.		✓			
4	Adequate opportunity to interact with resource person.	✓				
5	Judicious mix of concepts, principles and practices.	✓				
6	Assignments and tasks are interesting and challenging.	✓				

Any suggestions for improvement.

–

Signature

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Kadapa, Andhra Pradesh, India– 516 003

FEEDBACK FORM

Certificate Course on "Android Application Development", from 06-05-2019 to 25-05-2019

Organized

by

Department of Computer Science & Engineering

NAME: C. Govardhanreddy

Roll No: 169Y1A0520

S.No	Feedback Item	Excellent	Very Good	Good	Average	Below Average
1	Organization of certificate course and session planning by resource person.	✓				
2	Clarity in content delivery.	✓				
3	Content is relevant and useful.	✓				
4	Adequate opportunity to interact with resource person.	✓				
5	Judicious mix of concepts, principles and practices.	✓				
6	Assignments and tasks are interesting and challenging.	✓				

Any suggestions for improvement.

—

Signature

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FEEDBACK FORM

Certificate Course on "Android Application Development", from 06-05-2019 to 25-05-2019

Organized

by

Department of Computer Science & Engineering

NAME: D. Jyoshna

Roll No: 16J91A0528

S.No	Feedback Item	Excellent	Very Good	Good	Average	Below Average
1	Organization of certificate course and session planning by resource person.	✓				
2	Clarity in content delivery.	✓				
3	Content is relevant and useful.		✓			
4	Adequate opportunity to interact with resource person.	✓				
5	Judicious mix of concepts, principles and practices.		✓			
6	Assignments and tasks are interesting and challenging.	✓				

Any suggestions for improvement.

Signature

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FEEDBACK FORM

Certificate Course on "Android Application Development", from 06-05-2019 to 25-05-2019
Organized
by
Department of Computer Science & Engineering

NAME: K. Sriram

Roll No: 169Y1A0543

S.No	Feedback Item	Excellent	Very Good	Good	Average	Below Average
1	Organization of certificate course and session planning by resource person.		✓			
2	Clarity in content delivery.	✓				
3	Content is relevant and useful.	✓				
4	Adequate opportunity to interact with resource person.		✓			
5	Judicious mix of concepts, principles and practices.	✓				
6	Assignments and tasks are interesting and challenging.	✓				

Any suggestions for improvement.

K.S

Signature

Android Programming

Android

- Includes a Java API for developing applications
- It is **not** a device or product

Manufacturers: Designing Android Devices

- Samsung
- Motorola
- Dell
- Sony Ericsson
- HTC
- LG
- Amazon
- Intel
- Texas Instruments
- ARM
- NVIDIA
- Qualcomm

Overview

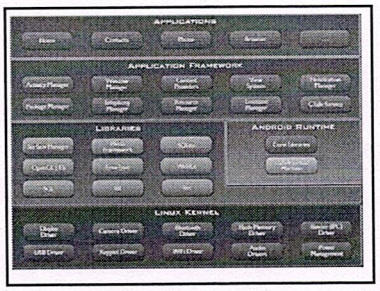
- What is Android?
- Why teach Android?
- What do you need in order to teach Android?
- Hello, Android

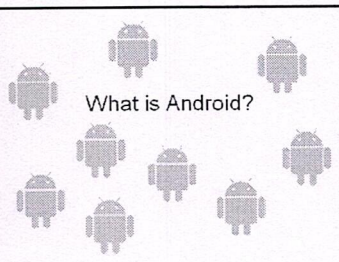
Links for android beginners: https://www.udacity.com/courses/android

Andriod Basics: (1) User Interface, (2) Multicscreen Apps, (3) User Input, (4) Data Storage, (5) Networking

The Android Open Source Project (AOSP)

- An open source Linux-based operating system intended for mobile computing platforms
- An initiative led by Google
  - Makes the source code of the Android OS available for all
    Read, review, and modify the code to your liking
- The main goals of the AOSP
  - Provide a set of compatibility guidelines—for OEMs (Original Equipment Manufacturers) and device manufacturers—for porting Android to custom devices
  - Build accessories that comply with Android's open accessory standard Allows OEMs and manufacturers to deliver a standard experience
- Making radical changes to that experience introduces fragmentation in the marketplace and in competing Android distributions.





The Open Handset Alliance

- Android, Inc
  Created by Andy Rubin, Acquired by Google in 2005.
- Open Handset Alliance (OHA)
  - Formed in November 2007
  - Business alliance composed of mobile players
    - Chip makers
    - Handset manufacturers
    - Software developers
    - Service providers
- OHA began developing open standards based on Android, Inc. technologies. The result is the Android project.
- Google provided the initial code, online documentation, tools, forums, and SDK.

Why teach Android?

Engaging Students with Android

- Android has a lot of "buzz" now
  - Newness
  - Coolness
  - Googleness
- UI and graphics made simple(r)
- Advanced Java skills

What do you need in order to teach Android?

Online Resources

- developer.android.com
- code.google.com/p/apps-for-android/
- stackoverflow.com
- videos from Google I/O conferences

What Skills Will Students Learn?

- Reinforce the basics: OOP, decomposition, etc.
- Separation of UI design and functionality
- XML and resource files
- Events and Listeners
- Callback methods
- Threads

What Should Students Already Know?

- Java!
  - inheritance, method overriding
  - interfaces, casting
  - exceptions
  - debugging
  - reading API documentation
- Eclipse
  - easy to pick up quickly, though

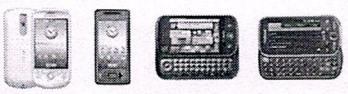
"Hello, Android"

Android vs. iPhone

- Java vs. Objective-C
- Direct install vs. Marketplace vs. App Store
- Open source?

Do I Need Phones?

- The emulator that is part of the Android toolset for Eclipse is quite good (though a bit slow)
- You may be able to get free "developer phones" from Google

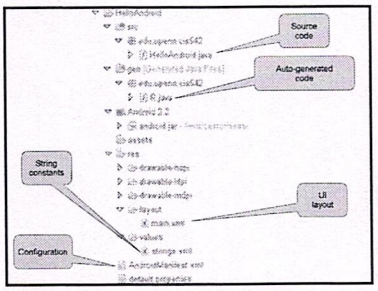


Creating Your First(?) Android App

1. Set up your development environment
2. Create a new Android project in Eclipse
3. Run it in the emulator
4. Hilarity ensues

1. Set Up Your Android Environment

- http://developer.android.com/sdk
  Install Android Studio with Android SDK
  (Android libraries)
- Install JDK if it is not in your computer
- Create AVD (Android virtual device)



HelloAndroid.java

```
public class HelloAndroid extends Activity {
  /** Called when the activity is first created. */
  @Override
  public void onCreate(Bundle savedInstanceState)
  {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.main);
  }
}
```

2. Create an Android Project

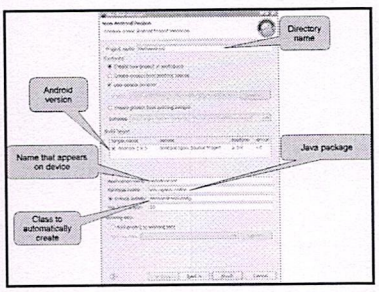
- File → New → Project
- Select "Android Project"
- Fill in Project details...

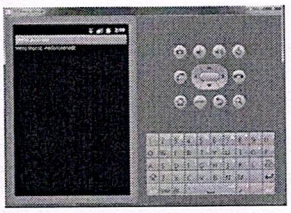
3. Run the Android Application

- Run → Run (or click the "Run" button)
- Select "Android Application"
- The emulator may take a few minutes to start, so be patient!
- You don't need to restart the emulator when you have a new version of your application

main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    >
<TextView
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="@string/hello"
    />
</LinearLayout>
```





strings.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string name="hello">Hello World, HelloAndroid!</string>
    <string name="app_name">Hello, Android</string>
</resources>
```

AndroidManifest.xml