DADI INSTITUTE OF ENGINEERING &TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to JNTUK, Kakinada)
NAAC Accredited Institute and Inclusion under Section 2(f) of UGC Act
An ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution
NH-16, Anakapalle – 531002, Visakhapatnam, A.P.
Mobile: +91 9963981111, Website: www.diet.edu.in, E-mail: info@diet.edu.in

Date: 08-01-2021
Anakapalle

To
The Principal,
Dadi Institute of Engineering & Technology
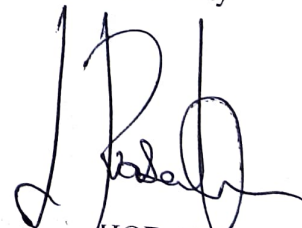Anakapalle, Visakhapatnam.

Sub: Request for Approval to conduct Six day Workshop on Android Application Development– Reg

Respected Sir,

Department of CSE is proposing to conduct Six day Workshop on Android Application Development. In this regard, we request you to give approval to conduct this event from 18th January to 23rd January 2021.

Thank You Sir,

Yours faithfully

HOD CSE

Head of the Department
Computer Science & Engg.
Dadi Institute of Engg. & Tech
Anakapalle-531002

PRINCIPAL
Dadi Institute of
Engineering & Technology
ANAKAPALLE - 531 002

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Date: 12-01-2021

Anakapalle

Circular

This is to inform all the students that Department of CSE is conducting Six day Workshop on Android Application Development from 18th January to 23rd January 2021. All the students are informed to participate in the event and enhance your skills.

HOD CSE
Head of the Department
Computer Science & Engg.
Dadi Institute of Engg. & Tech.
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Andhra Pradesh State Skill Development Corporation
(Department of Skill Development, Entrepreneurship & Innovation, Govt. of Andhra Pradesh)

SIX DAY WORKSHOP ON ANDROID APPLICATION DEVELOPMENT
(18th JANUARY – 23rd JANUARY 2021)
Organized by
Department of Computer Science & Engineering

In Association with Andhra Pradesh State Skill Development Corporation

Report on ANDROID APPLICATION DEVELOPMENT

About Workshop:

In pursuit of excellence in Technical education Dadi Institute of Engineering & Technology, Visakhapatnam in association with Andhra Pradesh State Skill Development Corporation organized a six day Workshop for the Third Year B.Tech. -CSE Students of Department Computer Science & Engineering on Google Android Developer Fundamentals during 18th January to 23st January 2021. The Workshop aims to enhance and strengthen the skills among the students on Android Developer Fundamentals. In order to give hands-on exposure on Android Fundamentals, this workshop has been organized for six days in Association with APSSDC. As everyone knows that Android APP plays an important role on more than 80% of smart phones which is in full demand and there is a lot of study work and project work going on this concept. Students have a wide scope of opportunities in the Android APP design. The participants were very much satisfied with the workshop.

Andhra Pradesh State Skill Development Corporation:

Andhra Pradesh State Skill Development Corporation provides specialized training to the Students of Polytechnic, Engineering colleges etc., in various disciplines in different courses by conducting six day Workshops.

Fig.1 Six day Workshop on Android Application Development

Introduction

 Mobile Apps are becoming popular day by day. Today, everyone owns a Smartphone and they

do a lot of things with the help of their smart phones such as making payments, ordering groceries, playing games, chatting with friends and colleagues etc .

There is huge demand in the market to develop android apps. Its Google's CEO Sundar Pichai's initiative to train 2 Million people to become android developers as this platform has a huge need

In view of this scenario and keeping industry needs in mind, APSSDC is offering an "Android Application Development Program" so that the faculty/students across engineering colleges in the state of Andhra Pradesh gain App Development knowledge.

 Mainly focuses on how to use Android OS for building your own Android Application. Only the basic knowledge of programming is required for Android App once the basics of Android are done we will begin with building Apps.

The duration of this workshop will be two consecutive days, with eight hours each day in a total of sixteen hours, properly divided into theory and hands- on practical sessions.

Inauguration

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The inauguration of the Workshop was done in the Seminar hall - 2 (, DIET Campus on 18-1-2021 at 9.30 AM with lightening of the lamp. The dignitaries of the Inaugural Function included Dr. Ch. Narsimham , Principal, Dr.L.Prasanna Kumar, HOD CSE, HOD's of other departments and Trainers from APSSDC , other faculty members and 100 participants attended the inaugural function. Dr.L.Prasanna Kumar addressed Android Application Development Workshop provides participants technical training on the concepts and programming methodologies needed to develop applications for mobile devices.Participants will learn to use different android libraries. Instruction is aided with live projects which will allow students to grasp concepts of the complete mobile application development life- cycle.

Fig. 2 Dr.L.Prasanna Kumar HOD of CSE, addressing the gathering at the Six day workshop on Android Application Development

Fig. 3 Dr.L.Prasanna Kumar HOD of CSE addressing the gathering

Fig. 4 Mr.Chaitanya, Android Resource person from APSSDC is addressing the gathering at the Android Application Development Workshop.

Fig. 5 Prinicipal Dr.Challa Narsimham addressing the students

Prinicipal Dr.Challa Narsimham motivated the students to participate in such kind of events and he also shared his views on importance of technical activities in development of student carrier.

He emphasized on acquiring knowledge over and above the syllabus by attending such workshops and seminars

Fig. 6 Mr.Chaitanya, Android Resource person training students

After completing the Android Development training the students understood:
1. Introduction to Mobile App Development a. History of Mobile evolution b. Version History of Android c. Android Architecture

2. Installing the Development Environment a. Installation of Android Studio b. Installation of Android emulator c. Connecting the physical device with the IDE
3. Creating the first application a. Hello World
4. Creating a User Intractable App a. Hello Toast b. Text and Scroll View

5. Intents a. Explicit Intents b. Implicit Intents

6. Activity Lifecycle

7. User Interface Components

8. Buttons and Clickable Images

9. nput Controls

10. Menus & Pickers

11. Using Material Design for UI

12. User Navigation

13. a. Navigation Drawer

   b. Navigation Components

        i. Navigation Graph

        ii. Navigation Host

        iii. Navigation Controller

   c. Ancestral and Back Navigation

   d. Lateral Navigation

        i. Tabs for navigation

14. Recycler view

15. Working in the background a. Fetching JSON Data from the internet using retrofit GET.

b. Discussion of various JSON Converters. c. Writing data to the API using retrofit POST. d. Broadcast Receivers

16. Schedulers a. Notifications b. Work Manger

17. Saving user Data a. View Model b. Live Data c. Shared Preferences d. Room

The Head of the Department of Computer Engineering gave a brief introduction of the Computer Engineering Department. He emphasized on acquiring knowledge over and above the syllabus by attending such workshops and seminars. Session started with the introduction of the open source android platform. He explained the software architecture layer and android application architecture to the participants. He discussed different widget and layouts used in android applications. He also explained different types of intents, activities and services. The

afternoon hands-on session started at 1.30 PM where the students were familiarized with how to develop an android mobile application using Eclipse IDE. The main purpose of the hands-on session was to create self reliant students who are confident to build their own android-mobile applications.

Valedictory Function:

Fig. 7 Dr.L. Prasanna Kumar-HOD CSE is addressing to the gathering in the valedictory function of Android workshop.

Fig. 8 Mr.S.V.Krishna, Android Resource person from APSSDC is addressing the gathering at the Android Application Development Workshop.

Fig. 9 Principal Dr.Challa Narsimham is addressing the gathering in the valedictory function of Android Application Development workshop.

Fig. 10 Students of III.B.Tech. student giving feedback about the workshop

Fig. 11Students of III. B.Tech. are giving feedback about the workshop

Fig.12 Sample certificate

List of Participants

Sl.No:	Reg.No:	Candidate Name
1	18U41A0501	Adadi Naga Divya
2	18U41A0502	Adari Sarvani
3	18U41A0503	Andukuri Hemalatha
4	18U41A0504	Ankireddy Deva
5	18U41A0505	Appikonda Lohitha
6	18U41A0506	Atta Nikhitha
7	18U41A0507	Bokku Mohan
8	18U41A0508	Damarouthu Gunavardhan
9	18U41A0509	Adari Leena Gowthami
10	18U41A0510	Boddapati Sandhya
11	18U41A0511	Boddeda Charan
12	18U41A0512	Boddu Sushma Sahithi
13	18U41A0513	Bolla Ranadheer Krishna
14	18U41A0514	Bollapragada Kaameswari Sowmya
15	18U41A0515	Bora Mounika
16	18U41A0516	Buddha Prathyusha
17	18U41A0517	D Chandini
18	18U41A0518	Dadi Aravinda
19	18U41A0519	Garikina Naveen
20	18U41A0520	Gemmeli Sai Sushma
21	18U41A0521	Gudupu Deepika
22	18U41A0522	Karri Shyam Sridhar
23	18U41A0523	Hari Krishnan G Anil
24	18U41A0524	Kantimahanthi Sowndarya
25	18U41A0525	Kanuru Hemanth
26	18U41A0526	Karri Pelsea
27	18U41A0527	Konathala Sravani
28	18U41A0528	Konathala Sri Padma Hrushikesh
29	18U41A0529	Kurmadasu Maheswari
30	18U41A0530	Maddala J V S Shivani
31	18U41A0531	Malla Garishma
32	18U41A0532	Malla Kushal Manohar
33	18U41A0533	Medisetti Tejasri
34	18U41A0534	Medisetty Ramya Sree
35	18U41A0535	Molleti Mounika
36	18U41A0536	Nakka Hema
37	18U41A0537	Thota Sai Harika
38	18U41A0538	Adari Komali
39	18U41A0539	Pappala Dharani
40	18U41A0540	Pasala Ruchitha

41	18U41A0541	Pathivada Parameswari
42	18U41A0543	Polamarasetty Bhavana
43	18U41A0544	Puram Keerthi Chandana
44	18U41A0545	Ragula Swarupa
45	18U41A0546	Reddy Lohit Kumar
46	18U41A0547	Reddy Tharun
47	18U41A0548	Saragadam Hari Shankar
48	18U41A0549	Sheik Rajeya
49	18U41A0550	Sirigirisetty Yasodha

50	18U41A0551	Sundarapu Sai Deepthi
51	18U41A0552	Pedapudi Sirisha
52	18U41A0553	Beela Dharani Kumar
53	18U41A0554	Tirunagari Manoj Swamy
54	18U41A0555	Vadrevu Sree Krishna Gayithri
55	18U41A0557	Yallapu Nirisha Devi
56	18U41A0558	Yedurada Jaswanth Kumar
57	18U41A0559	Yemisetty Ananda Raju
58	18U41A0560	Yenninti Eswara Abhishek Aravind
59	18U41A0561	Yeramal Bhagya Sri
60	18U41A0562	Yeramal Vijay Durga Prasad
61	18U41A0564	Malla Pavani
62	18U41A0565	Karanam Chandra Sekhar
63	18U41A0566	Vinnakota Venkata Lalitha Sai Srilakshmi
64	18U41A0567	Vudi Rajesh Kumar
65	18U41A0568	Pulakanta Vardhini
66	18U41A0569	Thummapala Chandu Kumar
67	18U41A0570	Kothapalli Devika
68	18U41A0571	Nandavarapu Anuradha
69	18U41A0572	Yellapu Vamsi
70	18U41A0573	Kotni Swathi
71	18U41A0574	Manchala Sai Sahithi
72	18U41A0575	Nagireddy Kurma Vijaya Lakshmi
73	18U41A0576	Gavara Sai Sumanth
74	18U41A0577	Bandaru Sai Likitha
75	18U41A0578	Andhavarapu Ranjith
76	18U41A0579	Nandavarapu Lova
77	18U41A0580	Marisetty Vaishnavi
78	18U41A0581	Ramadugu Sai Teja
79	18U41A0582	Komati Srisahithi
80	18U41A0583	Orupula Sai Sumanth
81	18U41A0584	Gunturu Raja Rama Harshita
82	18U41A0585	Manthina Goutham Krishna
83	18U41A0586	Sahukari Nimisha
84	18U41A0587	Karri Srinivas
85	18U41A0588	Karanam Triveni

86	17U41A0545	Nagiredla Tejaswi
87	19U45A0501	Akkireddy Mounika
88	19U45A0502	Animireddy Neelaveni
89	19U45A0503	Maddala Ranjit Kumar
90	19U45A0504	Surisetti Vineertha Lakshmi Prasanna
91	19U45A0505	Terapalli Suvarna
92	19U45A0506	Thota Sandeep
93	19U45A0507	Ulabala Anitha
94	19U45A0508	Sidireddy Devaki

Feedback:

1. How do rate this session?
a) Poor
b) Average
c) Good
d) Excellent

2. Which type of programme do you expect in future?

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Fig. 12 Paper clippings of news paper for the Android Application Development at DIET Anakapalle