

**ALVA'S INSTITUTE OF ENGINEERING AND
TECHNOLOGY**

Shobhavana Campus, Mijar – 574225, Moodbidri.
Dakshina Kannada Karnataka, India.



Department of Computer Science and Engineering

CERTIFICATION COURSE

on

**“Mobile Application Development Using Android
Platform”**

ACADEMIC YEAR

2018-19



ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri - 574 225

Phone: 08258-262725 Fax: 08258-262726

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

AJET / CC / CSE / 2018-19 / 03

Date: 28/12/2018

Place: AIET, Moodbidri.

APPROVAL LETTER

To,

The Principal,
AIET, Moodbidri

Respected Sir,

Sub: - Approval for Organizing the Students Certification/Training Program on
"Mobile Application Development using Android Platform"-Reg.

With reference to the subject cited above, I would like to bring to your kind notice that, the Department is planning to host a Student Training Program/ certification course on **"Mobile Application Development using Android Platform"** from **"16th January 2019"** to **"23rd January 2019"**.

Kindly consider the above request and approve the same for further proceedings.

Thanking you Sir.



Coordinator:

Mr. Harish Kunder



Head of the Department:

H. O. D.
Dr. Manjunath Rotari
Dept. Of Computer Science & Engineering
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225



Principal:

PRINCIPAL

Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Dated 10/01/2019

CIRCULAR

The Certification course on **Mobile Application Development Android Platform** in Association with **Dlithe Software, Bengaluru** will be conducting from **16th January 2019 to 23rd January 2019 in Internet Lab**. All registered students and faculty members are hereby informed to attend and actively participate in the course.

(HOD)

Dept. Of Computer Science & Engineering
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

PROGRAMME SCHEDULE

- ❖ Invocation
- ❖ Welcome Speech
- ❖ Introducing the Chief Guest
- ❖ Honoring the Chief Guest
- ❖ Inauguration
- ❖ Presidential Speech
- ❖ Vote of Thanks

INVITATION

**ALVA'S INSTITUTE OF ENGINEERING AND
TECHNOLOGY, MOODBIDRI**

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Cordially invites you to the

Inauguration of Certification Program

On

"Android Application Development"

Resource Person: Mr. Arun V Rajpurohith
Dlithe Software, Bengaluru.

Guest of Honor: Mr. Vivek Alva
Managing Trustee

President: Dr. Peter Fernandes
Principal, AIET, Moodbidri.

Coordinator

Mr. Harish Kunder
Associate Professor

Head of the Department

Mr. Manjunath Kotari
Professor and Head, Dept. of CSE

Venue: Seminar Hall, First Floor, AIET Main Block@9.00AM

ABOUT VTU, BELAGAVI

Visvesvaraya Technological University is a collegiate public state university in Karnataka State, India. It was established by the Government of Karnataka. The university is named after M. Visvesvaraya from Karnataka, the only engineer to be awarded a "Bharat Ratna", the highest civilian award in India. Jnana Sangama, Belagavi is the headquarters of VTU. Additionally, the university has three regional centers in Bangalore, Gulbarga and Mysore. VTU is one of the largest universities in India with 212 colleges affiliated to it with an intake capacity of over 467,100 undergraduate students and 12,666 postgraduate students. The university encompasses technical and management fields which offer 30 undergraduate and 71 postgraduate courses. It has around 1800 PhD candidates. VTU has 13 QIP centers and 17 extension centers in its affiliated colleges offering postgraduate courses. It has around 2,305 departments recognized as research centers which are spread across its affiliated institutions in cities of Karnataka.

AIET, MOODBIDRI

Alva's Education Foundation (AEF) established in 1995 with the vision of our Chairman Dr. M. Mohan Alva has succeeded in making Moodbidri, an Educational hub in the South Canara Region, with more than 25000 students pursuing various courses ranging from primary school to post-graduate courses in social sciences, pure sciences, engineering and management. There are 21 institutions functioning under the Alva's Education Foundation.

Alva's Institute of Engineering and Technology, Moodbidri is a Premier Engineering Institute of Alva's Education Foundation, established in the year 2008. The college is certified to the ISO 9001: 2008 standards. The institute offers top quality education in five under graduate programs in Engineering-Computer Science, Civil, Electronics & Communications, Information Science, and Mechanical Engineering-Three Post Graduate programs- Master of Technology in Thermal Power Engineering, Computer Science & Engineering, VLSI Design Embedded System and Master of Business Administration.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

The Department was started in the year 2008 with an intake of 60 for the undergraduate program. The program has become popular among students due to the achievements and rigor. The department has well-equipped classrooms and computer laboratories with high-end systems as per the AICTE norms. The department is affiliated to Visvesvaraya Technological University (VTU).

The Department carries out various Industry-Institute interaction events for the benefit of the students. The Department conducts various Seminars and Technical talks in collaboration with various Companies also. Faculty members are of many Professional societies like IEEE, ISTE, etc. With an objective of developing core competence in the respective subject specializations and for learning newer technologies, the Department has formed the various Technical divisions.

ABOUT ANDROID

Android is a mobile operating system developed by Google, based on a modified version of the **Linux kernel** and other open source software and designed primarily for touch screen mobile devices such as smart phones and tablets. In addition, Google has further developed Android TV for televisions, Android Auto for cars and Android Wear for wrist watches, each with a specialized user interface. Variants of Android are also used on game consoles, digital cameras, PCs and other electronics. Android has been the best-selling OS worldwide on smart phones since 2011 and on tablets since 2013.

Continuing with the effort of training the members, a Student Training Program is organized on "**Mobile application using Android**" at AIET Moodbidri by the Department of Computer Science and Engineering.

As per the current trend, due to constant change and development in digitization, our lives are improving in all areas. To deliver a quality product, we need to have information on recent industrial trends skills in the Software Development Process.

COURSE CONTENT

1. Introduction to Android.
2. Android studio setup.
3. Working with GUI based components
4. Various Layouts.
5. Activity and Toast.
6. Animation on images.
7. Media player
8. Network Communication.
9. Notification
10. SQLite Database connectivity.

RESOURCE PERSON

Mr. Arun V Rajpurohith

Dlithe Software, Bengaluru.

PROGRAM SCHEDULE

16- JANURARY-2019

Registration:	08:30 am to 09:30 am
Inauguration:	09:30 am to 10:00 am
Keynote Address:	10:00 am to 11:00 am
Tea Break:	11:00 am to 11:15 am
Session 1:	11:15 am to 01:00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 2:	02:00 pm to 05:00 pm

17- JANURARY-2019

Session 3:	09.00 am to 11:00 am
Tea Break:	11.00 am to 11.20 am
Session 4:	11.20 am to 01.00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 5:	02:00 pm to 05:00 pm

18- JANURARY-2019

Session 6:	09.00 am to 11:00 am
Tea Break:	11.00 am to 11.20 am
Session 7:	11.20 am to 01.00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 8:	02:00 pm to 05:00 pm

19- JANURARY-2019

Session 09: 09.00 am to 11:00 am
Tea Break: 11.00 am to 11.20 am
Session 10: 11.20 am to 01.00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 11: 02:00 pm to 05:00 pm

20- JANURARY-2019

Session 12: 09.00 am to 11:00 am
Tea Break: 11.00 am to 11.20 am
Session 13: 11.20 am to 01.00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 14: 02:00 pm to 05:00 pm

21- JANURARY-2019

Session 15: 09.00 am to 11:00 am
Tea Break: 11.00 am to 11.20 am
Session 16: 11.20 am to 01.00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 17: 02:00 pm to 05:00 pm

22- JANURARY-2019

Session 18: 09.00 am to 11:00 am
Tea Break: 11.00 am to 11.20 am
Session 19: 11.20 am to 01.00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 20: 02:00 pm to 05:00 pm

23- JANURARY-2019

Session 21: 09.00 am to 11:00 am
Tea Break: 11.00 am to 11.20 am
Session 22: 11.20 am to 01.00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 23: 02:00 pm to 05:00 pm



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Registration List Of Students for Mobile Application Development using Android Platform Certification

SLN	USN	NAME
1.	4al15cs058	Md. Afnan
2.	4al16cs400	Chandan B
3.	4al15cs082	Sai Charan R
4.	4al15cs008	Anand R
5.	4al15cs107	Vishnu P S
6.	4al17cs401	Gouramma
7.	4al17cs402	Shraddha
8.	4al15cs050	Kiran A S
9.	4al16cs047	Madushree R
10.	4al16cs078	Harshith S
11.	4al17cs013	Aruna K
12.	4al17cs048	Madan G Gudigar
13.	4gw17cs050	Niriksha A
14.	4al17cs061	Pramod Jammanakatti
15.	4al17cs062	Pranav L M
16.	4al17cs063	Praveen Kumar S
17.	4al17cs064	Praveen Kumar
18.	4al17cs072	Rahul Reddy R
19.	4al17cs078	Rohan Vashista B M
20.	4al17cs080	Sachin Rajora
21.	4al17cs089	Shetty Sathvik Ravindra
22.	4al17cs092	Shrinivasa


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

23.	4al17cs094	Sindhu N
24.	4al17cs101	Surya Prakash S
25.	4al17cs102	Sushmitha
26.	4al17cs110	Vikas M
27.	4al17cs111	Vineeth R
28.	4al17cs113	Vishal D
29.	4al17cs115	Suman Rathod
30.	4al17cs116	Sahana C
31.	4al17cs120	B Sai Harsha
32.	4al18cs402	Shetty Shodhan Sudhakar
33.	4al17cs122	Ravi Math
34.	4al17cs123	Pruthvi B C
35.	4al18cs400	Sagar B V

Arjun
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		Ravindra	Rav	Rav	Rav	Rav	Rav	Rav	Rav	Rav	Rav	Rav	Rav	Rav	Rav	Rav	Rav	Rav	Rav
22.	4AL17CS092	Shrinivasa	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
23.	4AL17CS094	Sindhu N	Sindhu	Sindhu	Sindhu	Sindhu	Sindhu	Sindhu	Sindhu	Sindhu	Sindhu	Sindhu	Sindhu	Sindhu	Sindhu	Sindhu	Sindhu	Sindhu	Sindhu
24.	4AL17CS101	Surya Prakash S	Surya	Surya	Surya	Surya	Surya	Surya	Surya	Surya	Surya	Surya	Surya	Surya	Surya	Surya	Surya	Surya	Surya
25.	4AL17CS102	Sushmitha	Sush	Sush	Sush	Sush	Sush	Sush	Sush	Sush	Sush	Sush	Sush	Sush	Sush	Sush	Sush	Sush	Sush
26.	4AL17CS110	Vikas M	Viki	Viki	Viki	Viki	Viki	Viki	Viki	Viki	Viki	Viki	Viki	Viki	Viki	Viki	Viki	Viki	Viki
27.	4AL17CS111	Vineeth R	VR	VR	VR	VR	VR	VR	VR	VR	VR	VR	VR	VR	VR	VR	VR	VR	VR
28.	4AL17CS113	Vishal D	Vish	Vish	Vish	Vish	Vish	Vish	Vish	AB	AB	Vish	Vish	Vish	Vish	Vish	Vish	Vish	Vish
29.	4AL17CS115	Suman Rathod	Suma	Suma	Suma	Suma	Suma	Suma	Suma	Suma	Suma	Suma	Suma	Suma	Suma	Suma	Suma	Suma	Suma
30.	4AL17CS116	Sahana C	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana
31.	4AL17CS120	B Sai Harsha	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
32.	4AL18CS402	Shetty Shodhan	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh
33.	4AL17CS122	Ravi Math	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi
34.	4AL17CS123	Pruthvi B C	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr
35.	4AL18CS400	Sagar B V	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Sag

KHV

H.O.D.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Quiz on Android App Development Course

1. A type of service provided by android that shows messages and alerts to user is

- A. Content Providers
- B. View System
- C. Notifications Manager
- D. Activity Manager

2. Broadcast that includes information about battery state, level, etc. is

- A. android.intent.action.BATTERY_CHANGED
- B. android.intent.action.BATTERY_LOW
- C. android.intent.action.BATTERY_OKAY
- D. android.intent.action.CALL_BUTTON

3. One of application component, that manages application's background services is called

- A. Activities
- B. Broadcast Receivers
- C. Services
- D. Content Providers

4. In android studio, callback that is called when activity interaction with user is started is

- A. onStart
- B. onStop
- C. onResume
- D. onDestroy

5. Tab that can be used to do any task that can be done from DOS window is

- A. TODO
- B. messages
- C. terminal
- D. comments

6. Android content provider architecture, component that does not resides on data layer is

- A. Internet
- B. SQLite
- C. Files
- D. content provider

7. In android studio, each new activity created must be defined in

- A. res/layout
- B. res/values
- C. Build.gradle
- D. AndroidManifest.xml

8. Android component that controls external elements of file is called

- A. intent
- B. resource
- C. view
- D. manifest



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Quiz on Android App Development Course

9. A type of service provided by android that controls application lifespan and activity pile is

- A. Activity Manager
- B. View System
- C. Notifications Manager
- D. Content Providers

10. Activity is needed to be stopped by doing any operation until resumed callback is called, type of callback is

- A. onPause
- B. onDestroy
- C. onResume
- D. onRestart

11. In android studio, a service that is started and cannot be stopped even calling activity is destroyed is

- A. startService()
- B. onStop()
- C. onDestroy()
- D. bindService()

12. Dalvik Virtual Machine (DVM) actually uses core features of

- A. Windows
- B. Mac
- C. Linux
- D. Contiki

13. On implementing method of onStartCommand(), service must be stopped after task is completed using

- A. stopSelf()
- B. stopService()
- C. stopSelf() or stopService()
- D. endService()

14. Button option can be choose from palette category

- A. textfields
- B. containers
- C. widgets
- D. layouts

15. In android studio, quick options can be accessed from

- A. tool bar
- B. menu bar
- C. navigation bar
- D. editor tab



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FEEDBACK FORM

Students Training Program

On

"Android Application Development"

For the following areas, please indicate your rating from 1 to 5:

1=strongly Disagree 2=Disagree 3=neither agree nor disagree 4=Agree 5=strongly Agree

Name	Sem & Sec
------	-----------

SN	Topics	1	2	3	4	5
A.	Content					
1	Understood the basics of Android App Development.					
2	Understood the concepts of installing android studio.					
3	A Understood the concepts of various components for designing app.					
4	Understood the concepts of Database connectivity.					
5	Able to design applications using Xml and Java Programming.					

B	Presentation					
6	Resource Person knowledge					
7	Resource Person presentation style					
8	Resource covered material clearly					
9	Resource Person responded well to questions					
10	Resource Person facilitated interactions among participants well					

C. How could this workshop be improved?

D. Any other comments or suggestions?

E. Overall, how would you rate this workshop?

<input type="checkbox"/>	Poor	<input type="checkbox"/>	Good
<input type="checkbox"/>	Neither Good Nor Poor	<input type="checkbox"/>	Excellent



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REPORT ON

Mobile App Development using Android

8 days National Level workshop on the theme "Mobile Application Development using Android" was organized from 16th January 2019 to 23rd January 2019 by Alva's Institute of Engineering & Technology, Moodbidri, Karnataka with Technical Collaboration of Computer Society of India Student Chapter and Co-Sponsored by Dlithe Bangalore.

The formal inaugural function was graced by the presence of our Head of the Department Dr. Manjunath Kotari, Mr. Arun V Rajpurohith Founder Dlithe Bangalore, Mr. Avinash R S Corporate Trainer - Android & Robotics and Certification Course Coordinator Prof. Harish Kunder.

35 CSE students were registered for the course and obtained a Certificate from the Dlithe Bangalore.



KND
Coordinator

Arun
HOD
H.O.D.
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Case Studies:

The following case studies are assigned to respective batches. All the case studies are expected to be completed by end of March 2019

1. Grocery shop owner finding it difficult to visit APMC as its far and thus increasing his operational expenditures. He is in need of a simple app for placing his orders through a mobile app
2. Children's between the age of 4-12 are exposed to the internet world, thus watching video's online. Parents wish to have a mobile app which can streamline video related to kids' interest and block rest everything
3. Saloon owner wish to have a mobile app for his VVIP customers to block the date with their choices of haircut etc...
4. Your college wish to have a mobile app with all relevant information and updates. Can you build one app?
5. Corporate wants a mobile app to capture minutes of meeting recording and convert that as report and send it to participant's email
6. Flower shop owner wants a mobile app for accepting the orders from his regular customers and deliver it with delivery confirmation through app
7. Dlithe would like to have a mobile app to collect "e-waste" from the households. A waste ordering/collecting app will help to collect e-waste from the households


Coordinator


HOD

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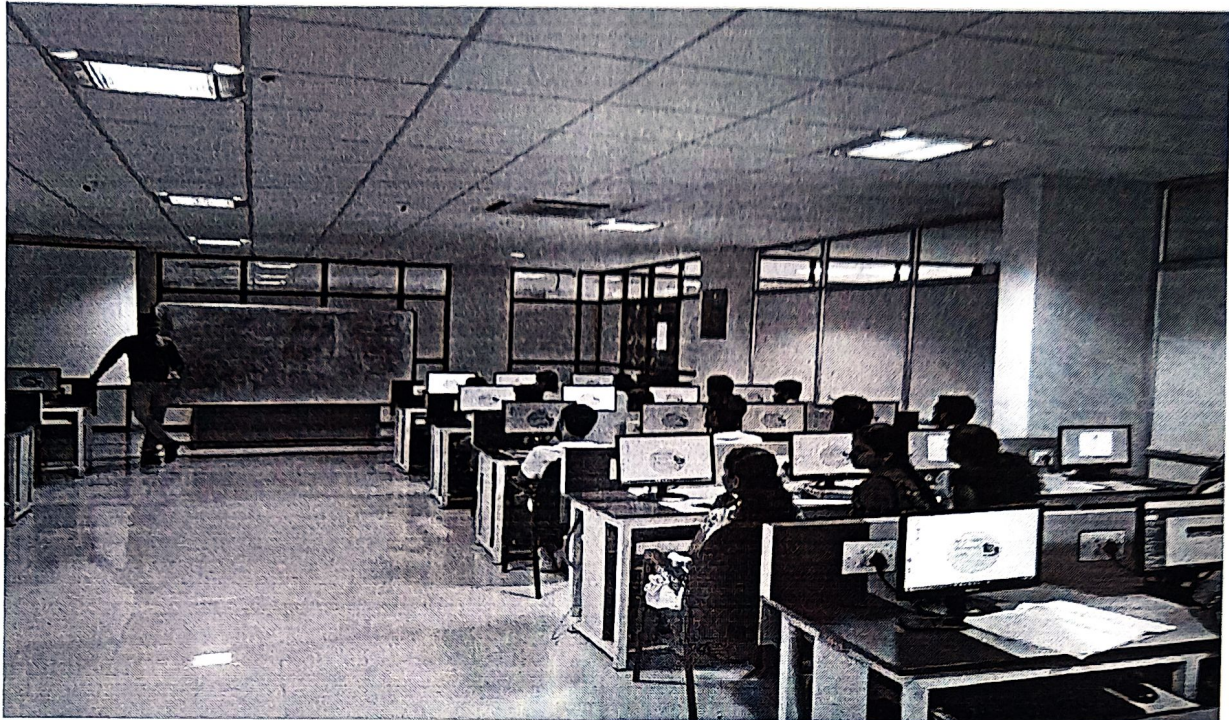


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Department of Computer Science & Engineering

Summary Report of Add-on / Certificate program with its Outcomes

Academic Year : 2018-2019	Duration: 16 th January 2019 to 23 rd January 2019
Title of the Course: Mobile Application Development using Android	
Resource Person: Mr. Arun V Rajpurohith Founder Dlithe Bangalore, Mr. Avinash R S, Dlithe Software, Bangalore	

Department of CSE organized 8 days National Level workshop/ Certification Program on the “Mobile Application Development using Android” from 16th January 2019 to 23rd January 2019 in association with Technical Collaboration of Computer Society of India Student Chapter and Co-Sponsored by Dlithe Bangalore. Mr. Arun V Rajpurohith Founder Dlithe Bangalore, Mr. Avinash R S Corporate were the resource person for the sessions.

35 CSE students were benefited by the course were benefitted from this course and were able to.

- Use Android Studio, Android virtual devices, and physical devices to build and test Android apps
- Understand how Java is used in Android app development.
- Understand the activity and fragment lifecycle.
- Use the fragment manager to handle fragments and fragment transitions.
- Use implicit intents to open other applications and activities and access the central contact database.

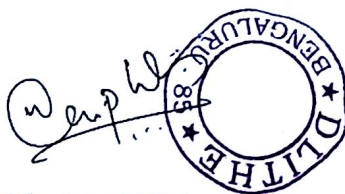


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To whomsoever concerned

This is to certify that **Mr./Ms. Sai Charan** bearing **4AL15CS082** has successfully undergone the workshop on **“Mobile Development using Android Platform”** conducted by Dlithe, Bengaluru in association with Department of Computer Science and Engineering, Alva's Institute of Engineering & Technology - Moodbidri, from 16th January 2019 to 23rd January 2019.



Mr. Arun V Rajpurohit
CEO & Founder, Dlithe



Dr. Manjunath Kotari
HOD, CSE - Alva's Institute of Engineering & Technology
Alva's Institute of Engg. & Technology
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