



## **ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY**

(Unit of Alva's Education Foundation (R), Moodbidri)

Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi. Recognized by Government of Karnataka.

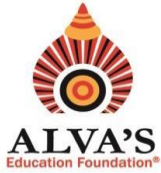
**A+, Accredited by NAAC & NBA (ECE & CSE)**

Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka

Ph: 08258-262725; Mob:722262724,7026262725,mail:principalaiet08@gmail

# **DEPARTMENT OF MECHANICAL ENGINEERING**

**SOLVING MECHANICAL PROBLEM USING PYTHON  
WORKSHOP**



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## **TECHNICAL TALK REPORT**

### **Objectives of the Technical talk:**

Technical talks in engineering colleges serve several important objectives, both for students and faculty. These talks are designed to provide a platform for students to gain knowledge, exposure, and insights into various technical subjects and emerging trends in engineering. Here are the main objectives of technical talks in engineering colleges:

1. Technical talks are a means to disseminate knowledge on a wide range of topics, including new technologies, engineering innovations, and research findings.
2. These talk / interactions help students and faculty stay updated with the latest developments in their respective fields.
3. Technical talks enhance the educational experience by providing students with the opportunity to learn from experts in the field. These talks can cover topics beyond the curriculum and practical understanding of engineering concepts.
4. Inviting accomplished professionals and researchers as speakers can inspire students to set higher goals



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## **SOLVING MECHANICAL PROBLEM USING PYTHON WORKSHOP**

**Workshop mode: Offline**

**Date: 11/03/2023 to 13/03/23**

**Resource person:** Dr. S. Mohideen Badhusha,  
Professor at Dept. of CSE, AIET.

**Outcomes :** The 3 days workshop helped students of Mechanical Engineering to understand the importance of coding using Python and also how they can combine the topics of mechanical and coding together which is necessary in the present world.

### **INTRODUCTION**

A workshop on "Solving Mechanical Problem using Python" was had from 11<sup>th</sup> to 13<sup>th</sup> march 2023 which was arranged by Department of Mechanical Engineering by HOD Dr. Satyanarayan and forum coordinator Mr. Hemanth Suvarana and the resource person was Dr. S. Mohideen Badhusha, Professor at Dept. of CSE, AIET. The workshop was conducted for 3 days and it was for both 3<sup>rd</sup> & 6<sup>th</sup> Sem. students. The Introduction of guest was done by our vice president Chiranth Acharya. Resource person spoke about the benefit of python program in Mechanical Engineering, as the world is moving towards AI and most of job opportunity are IT and as a Mechanical Engineer by learning python the job opportunities are more compare to other branches. HoD during his speech told about learning python would also help in solving problems related to mechanical. Then the vote of thanks speech was give the CR of 3<sup>rd</sup> sem. Akhil Sharma.



### **Inaugural session of the workshop**

Then the workshop was divided in two session everyday that is Forenoon (FN) and Afternoon (AN)

#### **Day-1**

##### **1<sup>st</sup> session (FN)**

Dr. Badhusha described about the difference between C language and python. It is also known that the python is Dynamically typed. It is a versatile and can be adapted in DA, ML, GUI software & web development. There are many software were we can practice python like IDLE, Pycharm, Google Colab, Atom, etc. But we did our session in Colab. We got to know the basics rules of python and what is known by comment lines, multiple lines, multiple assignment, Indentation and blocks. How we can use the conditional execution in program. Dr. Badhusha made students to solve some problems related to the topics discuss related to the session. He also gave some exercise related to topics.



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## Dr. Badhusha describing the importance of Python to Mechanical Engineering Students

### 2<sup>nd</sup> Session (AN)

In 2<sup>nd</sup> session of the day students learned what is Iteration & String. Where it is used and how it is used. Different types of iteration and where and how it is used. Also the different types of loops how it is worked, where we need to apply and how to apply. Some additional problems related to the topics were discusses related to the session. He also gave us some exercise related to topics.

### Day-2

### 1<sup>st</sup> Session(FN)

In day 2 Resource Person taught about how we can make a list of numbers, alphabets, etc as we require. Students learned about tuple and how it is worked, where we need to apply and how to apply. Then he gave some problems related to the topics discuss related to the session. He also gave us some exercise related to topics.

### 2<sup>nd</sup> Session(AN)

In 2<sup>nd</sup> session students learnt about the Dicitonary that how it is worked, where we need to apply and how to apply. Then he gave some problems related to the topics discuss related to the session. He also gave us some exercise related to topics.



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### **Day-3**

In both session he gave some problems related to the topics discuss related to the session. He also gave us some exercise related to topics. Students were involved thoroughly throughout the both session to complete the work and task given to them before the end of the day.

# **ANNEXURE**





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Date -07/03/23

To

IQAC Chairman

AIET, Mijar

Respected Sir

## **Sub: Requesting for permission conduct a Technical talk**

We are happy to inform you that Department of Mechanical Engineering, is planning to organize a technical talk on 11/03/2023 to 13/03/2023. The details are mentioned below, kindly request you do the needful.

### **Resource Person Details**

Name: **Dr. S. Mohideen Badhusha**

Designation: **Professor at Dept. of CSE, AIET.**

Title: **SOLVING MECHANICAL PROBLEM USING PYTHON WORKSHOP**

Venue: **CAMD lab**

Date/month/year: **11/03/2023 to 13/03/2023**

Mode : **OFFLINE**



HOD  
H. O. D.

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



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Aiet/Mech/AY2022-23/015

Date-25/02/23

## CIRCULAR

All the students from Department of Mechanical Engineering, are hereby informed to attend the Technical Talk by **Dr. S. Mohideen Badhusha, Professor at Dept. of CSE, AIET.**

**Date: 11/03/2023 to 13/03/2023**

**Time: 09:00 pm-05:00 pm**

**Title of the Talk: : SOLVING MECHANICAL PROBLEM USING PYTHON**

**WORKSHOP**

**Venue : CAMD lab,**

**MODE: OFFLINE**

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H. O. D.

Dept. Of Mechanical Engineering  
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Mijar, MOODBIDRI - 574 225

Principal  
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Principal table/Deans/HODs/AO/Office/---



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## DEPARTMENT OF MECHANICAL ENGINEERING

### FACULTY ATTENDANCE LIST

Sl.No.	Faculty Name	Signature
1	Dr. Satyanarayana	
2	Mr. Veerendra kumar	
3	Mr. Sharathchandra Prabhu	
4	Dr. G. B. Vaggar	
5	Mr. Hemanth Suvarna	
6	Mr. Suresh P S	
7	Mr. Sadashiv Bellubbi	
8	Mr. Kiran C H	
9	Mr. Pramod Badyankal	
10	Mr. M.R. Ganesh	
11	Mr. Kumar Swamy M.C	
12	Mr. Gopal Krishna U.B	
13	Mr. Deepak Kothari	
14	Mr. Srinivas C S	
15	Mr. Pramod kumar N	
16	Mr. Praveen K C	
17	Mr. Sudheer PN	

HOD of Mechanical Engineering  
Alva's Institute of Engg. & Technology  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### STUDENT ATTENDANCE LIST

Semester : 6<sup>th</sup> semester

Sl no.	Name	USN	Sign
1	ADHWITH	4AL20ME001	Adwith..
2	AKSHAR N	4AL20ME002	Akshar N
3	BABUGOUDA SHANKARAGOUDA	4AL20ME003	Babugouda
4	CHANDAN BHOSALE	4AL20ME004	Chandan
5	CH'RANTH H S	4AL20ME006	Chanth H S
6	DILEEP P R	4AL20ME007	Dileep P.R.
7	FRISON NIKHIL MARTIS	4AL20ME008	Frison
8	GIRISH B BANNIKOPPA	4AL20ME009	Girish
9	JENNY FERNANDES	4AL20ME011	Jenny
10	MANOJ KUMAR KARNAM	4AL20ME012	Manoj
11	MANU K N	4AL20ME013	Manu
12	MOHAMMED SWAHID	4AL20ME014	M. Swahid
13	MOHAMMED FAHAD H	4AL20ME015	Mohammed
14	NAVYASHREE H B	4AL20ME016	Navyashree
15	PALLAVI P	4AL20ME017	Pallavi
16	PAVANKUMAR H R	4AL20ME018	Pavankumar
17	RAKSHITH S	4AL20ME019	Rakshith
18	VARUN S BHANDARY	4AL20ME021	Varun
19	VIGNESH	4AL20ME022	Vignesh
20	DODDAMALLAIAH	4AL21ME400	Doddamalliah
21	RAHUL KUMBAR	4AL21ME401	Rahul
22	RAKESH KELAGADE	4AL21ME402	Rakesh
23	SACHIN RATHOD	4AL21ME403	Sachin
24	SANDEEP JARALE	4AL21ME404	Sandeep





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## Semester : 4<sup>th</sup> semester

Sl no.	Name	USN	Sign
1	AJITH R	4AL21ME001	
2	AKHIL SHARMA K	4AL21ME002	
3	AKSHAY KRISHNA M	4AL21ME003	
4	CHARAN KUMAR	4AL21ME004	
5	DHARSHITH A	4AL21ME005	
6	MELVIN VINAY SERA	4AL21ME006	
7	MOHAMMAD SWALIH	4AL21ME007	
8	NARAYAN V	4AL21ME008	
9	NAVANEETH H SHETTY	4AL21ME009	
10	NITHIN M	4AL21ME010	
11	PAIGAMBAR S NADAF	4AL21ME011	
12	HASHWATH R GOWDA	4AL21ME013	
13	SUDESH D SHETTY	4AL21ME015	
14	KARTHIK VISWANATH DHANNUR	4AL22ME401	
15	PRAVEEN VEERAPPA CHAVADI	4AL22ME402	
17	KRISHNA KYADGIHALLI	4AL22ME403	
18	KARTHIK GOWDA B C	4AL22ME400	

Forum Coordinator

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## FEEDBACK FORM

1. Name of the Resource Person : Mr Rishikesh Saringe

2. Topic of the Technical talk : INTRODUCTION TO VIRTUAL MACHINE  
TECHNOLOGY

Please give feedback on how well this session met its objectives, indicate your response  
by putting check mark to relevant box

Sl. No.		Poor	Fair	Good	Very good	Excellent
		1	2	3	4	5
1	Relevance of the topic in today's scenario		13%	5%	35%	47 %
2	Clarity of the presentation		6%	20%	20%	54%
3	The presentation contained Practical examples & useful techniques that can be applied to current work			33%	52%	15%
4	The visual aids were effective				43%	57%
5	The resource person was knowledgeable about the topic & any related issues		2%	20%	59%	39%
6	Resource person clarified all queries			10%	81%	9%
7	How was your overall experience			13%	23%	64%

**Any other comments :** Participants had few queries regarding maintenance of regular lab.

**Action Taken :** all queries were answered by the resource person .

  
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