

ASSOCIATION OF MECHANICAL ENGINEERS  
DEPARTMENT OF MECHANICAL ENGINEERING  
IIT KANPUR

# ANNUAL REPORT

2019-2020

*AME Faculty Advisor 2019-2020: Dr. Jishnu Bhattacharya, ME, IITK  
Report prepared by: Aditya Singh (VP, AME), Date: 29 June 2020  
Checked by: Tarun Sharma (President, AME)*

# TABLE OF CONTENTS

## Contents

AME Management Structure _____	1
Fund Transfer, Freshers' Day, and AME Registration _____	3
Fund Collection and New Members _____	6
Workshops _____	11
Happy Hour/ Department Session _____	17
Effect of COVID19 _____	19
Financial Report _____	21

## AME Management Structure

### ABOUT AME

The Association of Mechanical Engineers (AME) is a student body at the Indian Institute of Technology Kanpur which aims at providing much needed exposure to real life engineering problems, both technical as well as managerial kind by organizing industrial tours visits, lectures on topics of general interest and seminars of specific interest, Freshers' Day, Research Scholars' Day, Farewell, etc.

### STRUCTURE OF THE STUDENT BODY OF AME

The responsibilities listed below are not exclusive and they may change as per requirements of the team.

#### 1) President

- a. Overall coordinator of the team
- b. Responsible for all interactions with faculties and students
- c. Responsible for organizing all stuffs and taking all decisions
- d. Responsible for keeping team together and distributing responsibilities to members
- e. Organize and manage all the events

#### 2) Vice President

- a. Coordinating among team member during events
- b. Arranging meetings for planning the events
- c. Organize and manage all the events
- d. Assisting the President in his responsibilities
- e. Preparing the annual report

#### 3) General & Account Secretary

- a. Collecting AME Registration fee from the students
- b. Management of the AME funds
- c. Preparing and maintaining a database of the funds.
- d. Organizing Workshops for MATLAB, and SolidWorks, etc.
- e. Guiding the new batch students to get into academics of IIT Kanpur

#### 4) Event Coordinator

- a. Management of events- Departmental Freshers, Research Scholars' Day, Departmental Farewell, Workshops, etc.
- b. Responsible for looking after all aspects of events
- c. Designing posters, certificates, arranging for high-tea etc.

#### 5) R & D Coordinator

- a. Responsible for innovative ideas in all events
- b. Posing proposals for making the members aware of the research going on in the dept.
- c. Posing ideas and working for designing posters certificates, etc.
- d. Research for resource materials if needed for any event

# AME REPORT 2019- 2020

## 6) Web Coordinator

- a. Maintaining AME website
- b. Maintaining social media pages of AME
- c. Designing google forms and feedback forms of the events

## 7) Event Secretary, R & D Secretary, Web Secretary

- a. Assisting their respective coordinators in their responsibilities.

These are just a brief description and responsibilities during actual will depend on the requirement of the hour.

## NOMINATION

**Nominations for each year's team is invited in the last week of June.**

**Interviews are conducted in mid-June.**

Composition of the team was re-defined in 2019. Apart from the structure defined in session 2018-19, posts for a secretary was under to Event, R & D, and Web Coordinators to share the work load. R&D and Placement Coordinator was renamed as R&D coordinator.

### Role of Faculty Advisor in conducting interviews:

Faculty adviser calls all the potential candidates and interact/interview everyone in coordination with the outgoing AME team members. After discussing each candidate with the AME team he appoints the new team.

## AME TEAM COMPOSITION FOR SESSION 2019-2020

Designation	Name	Email (@iitk.ac.in)
President	Tarun Sharma	tarunsha
Vice President	Aditya Singh	adisingh
General & Account Secretary	Gajji Sai Kiran	kiran
	Aditya Tiwari	adityat
Event Coordinator	Rahul Singh Kushwaha	rahulba
	Vishal Shrirame	shrirame
	Jayant Ranwka	jayant
R & D Coordinator	Sumeet Bhatia	sumeetb
	Mayank Patel	mkpatel
Web Coordinator	Anjali Rameswari	anjur
Event Secretary	Rushabh G. Gadhave	grushabh
R & D Secretary	Gaurav Sahebrao Dhage	gsdhage
Web Secretary	Ajay Kumar Yadav	ajayky

## Fund Transfer, Freshers' Day, and AME Registration

### FUND TRANSFER

Information such as webmail account of AME [ame@iitk.ac.in], website access [www.iitk.ac.in/ame], leftover AME fund and annual report is passed on to next AME team. This information helps in smooth conduct of events and seek improvement in conducting the events.

**Funds received from AME (2018-2019): ₹62,338**

### FRESHERS' DAY

Immediately after the team is established, the event of Freshers' Day is organized in consultation with the department, and with guidance from the ex-team of AME if required.

**In case the department completely takes over the responsibility of organizing the event**, the sole responsibility of the team is to introduce the organization of AME to the new students by the means of a presentation in the freshers' event. Team 2019-2020 had a similar situation and made the new students understand the events organized by the AME, the benefits of joining the organization, and the one-time registration fee required.

**In case the responsibility of organizing the freshers' day falls under the AME**, the following are the points suggested by team of 2018-2019 in their annual report:

- **Invitation to students:**  
Mailing list of the new batch can be collected from the department to invite students to freshers'.
- **Role of Faculty Advisor:**
  - To book the Lecture Hall for the event.
  - To motivate the new team for their first event.
- **Before the event:**  
The president and the faculty advisor discuss the script of the event.
- **Freshers' Event:**
  - Welcome address and introduction to Mechanical Department by the Head of the Department.
  - Introduction to the AME team and its activities in Freshers' Event.



**Figure 1. Snap from the freshers' night 2019**

The following poster was released on social media to target the audience not available during the freshers to provide the crux of the role of AME.



**Figure 2. Yearly plan poster**

# AME REPORT 2019- 2020

After the event, the procedure of including new members to the association begins, and is undertaken majorly by the general and accounts secretary, with assistance from other team members as requested by him.

# AME REPORT 2019- 2020

## Fund Collection and New Members

### AMOUNT FOR NEW MEMBERSHIP

An amount of ₹800 was decided for a new membership to the association, which was same as the amount of membership for session 2018-2019. So, students who are willing to register as an AME member has to pay this amount to AME Funds

### NUMBER OF NEW MEMBERS REGISTERED IN 2019-2020

- Undergraduates: 51
- Postgraduates: 67
- Total: 118

### LIST OF THE STUDENTS JOINED

The table contains the list of the students who joined in 2019-2020.

#### DETAILS OF STUDENTS JOINING THE AME IN 2019-2020

NAME	ROLL NO.	EMAIL	UG/PG
ABHIJEET KUMAR	190020	abhivasu@iitk.ac.in	UG
ADARSH CHAUDHARY	190051	adarshch@iitk.ac.in	UG
ADITYA NEELABHA	190064	adityan@iitk.ac.in	UG
AKARSH RAJ	190079	akarshr@iitk.ac.in	UG
AKASH PATEL	190084	190084@iitk.ac.in	UG
AMBUJA BUDAKOTI	190112	baambuja@iitk.ac.in	UG
AMIR RAZA	190114	amirraza@iitk.ac.in	UG
AMIT YADAV	190119	amityd@iitk.ac.in	UG
ANIT TAKHAR	190139	anilth@iitk.ac.in	UG
ANKIT YADAV	190151	ankitd@iitk.ac.in	UG
ANMOL PABLA	190154	apabla@iitk.ac.in	UG
ANSHUL KAPOOR	190160	anshulak@iitk.ac.in	UG
ASTHA PANT	190199	190199@iitk.ac.in	UG
AYUSH RANJAN	190216	190216@iitk.ac.in	UG
BANDARU SUKEERTHI	190225	sukee@iitk.ac.in	UG
CHAITANYA SAHNI	190244	csahni@iitk.ac.in	UG
DEEPENDRA SAMOTA	190264	samota@iitk.ac.in	UG
DEVANG UNIYAL	190269	devangu@iitk.ac.in	UG



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# AME REPORT 2019- 2020

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# AME REPORT 2019- 2020

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<b>VASHISHTHA KUMAR</b>	19105131	vaskum@iitk.ac.in	PG
<b>VOONNA SATISH KUMAR</b>	19105134	vskumar@iitk.ac.in	PG
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<b>HIMANSHU</b>	19105405	himbh@iitk.ac.in	PG

## AMOUNT COLLECTED

- UG: ₹40,800
- PG: ₹53,600
- Total: ₹94,400

# AME REPORT 2019- 2020

## ID CARD

An id card for all the new joining members was introduced this year with the hope that the upcoming teams will continue this process so that it becomes easier for people to identify members of AME in an event. The id card looked as shown below:

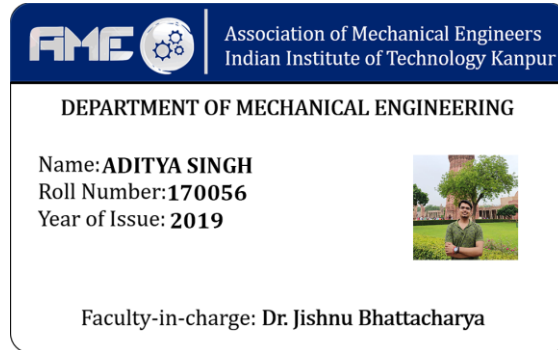


Figure 3. Sample Id card (front)



Figure 4. Sample Id card (back)

## COST OF PRINTING

Photoshop was used to generate all the files and the printing was done in photocopy shop on a blank PVC card at the cost of ₹3,924 (includes 18 % GST) (133 cards printed including the AME team members).

Cost of each card = ₹25 + GST.

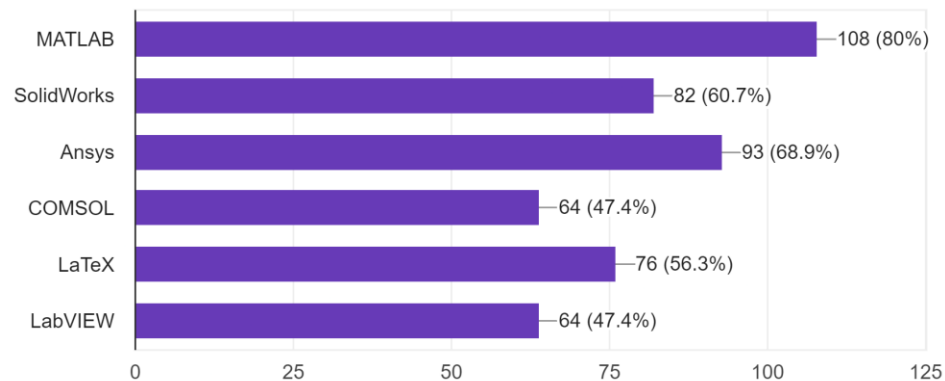
## Workshops

### POLL

A poll was conducted for the members of the association to get their suggestions on the topic of the workshops to be conducted. The response was as follows (Total 135 responses):

#### Interested in ?

135 responses



Based on the response, the following workshops were conducted:

### MATLAB WORKSHOP

MATLAB is a necessary tool in engineering. Most of the students were interested in this event.

#### Before the event:

- Search for tutor for the event
- Poster design for the event (prefer canva website online)
- Registration mail to students
- Certificate and token of appreciation for tutor
- Discuss the content of workshop with the tutor

#### Role of Faculty Advisor:

- To book New Core Labs for the workshop. (According to number of registrations)
- Present a token of appreciation and certificate to tutor

#### Points to remember:

- Participants lose interest if event gets delayed

# AME REPORT 2019- 2020

- Speaker should be clear and audible
- Speaker can't handle all the queries
- Volunteers should solve the queries of participants
- Ensure event is conducted at uniform pace
- Selection of content and examples are very important to hold the interest of participants in the workshop

Date of the event: 28<sup>th</sup> and 29<sup>th</sup> September, 2019

Speakers:

- Dr. Dhruv Chandel (MathWorks)
- Mr. Govind N. Sahu (IITK)
- Mr. Ankush Jaiswal (IITK)

Following is the poster designed for this year's event.



**Figure 5. Poster for MATLAB event**

# AME REPORT 2019- 2020

Day 1 topics covered:

- 1) Basics of MATLAB
- 2) Array/Matrix operations and indexing
- 3) Functions
- 4) Plotting
- 5) Saving and accessing data in different formats
- 6) Basic simulations in Simulink

Day 2 topics covered:

- 1) Introduction to live scripts
- 2) Solving system of linear equations
- 3) Solving differential equations using ode45
- 4) Basics of Image processing
- 5) Introduction to Sim-scape



**Figure 6. Snap from MATLAB Workshop 2019**

Cost of the event:

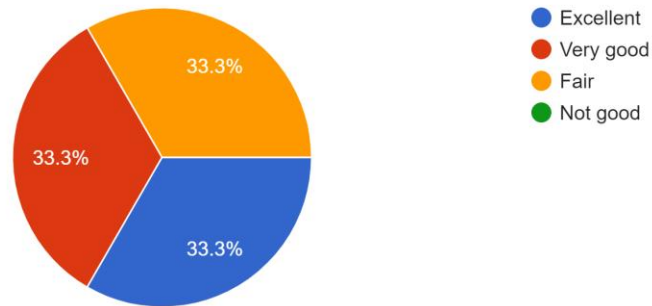
- 1) Token of thanks to the speakers: ₹1,000 (Govind, IITK) + ₹1,000 (Ankush, IITK) + ₹450 gift (Dhruv, MathWorks)
- 2) Printing cost of certificates + water bottle for speakers + snacks for participants: Covered in next section of MATLAB Workshop

# AME REPORT 2019- 2020

The post workshop feedback is as follows:

The program overall

9 responses



## Comments

What did you most appreciate/enjoy/think was best about the workshop? Any suggestions for improvement?

9 responses

- 
- Systematic approach towards matlab
- Basics from all the areas were covered. We were given enough resources and time to practice everything that is taught and doubts were answered immediately.
- Discuss some practical problems of the topic taught between the topics instead of cramming it all at the end. A more interactive session with some lighter notes would be better.
- n/a
- The eagerness to help us, thanx a lot for that.
- qw
- The last instructor session is really Good. The way he started with the basic and then approached higher is good and also he is keeping good interaction with all the students.



# AME REPORT 2019- 2020

## ANSYS WORKSHOP

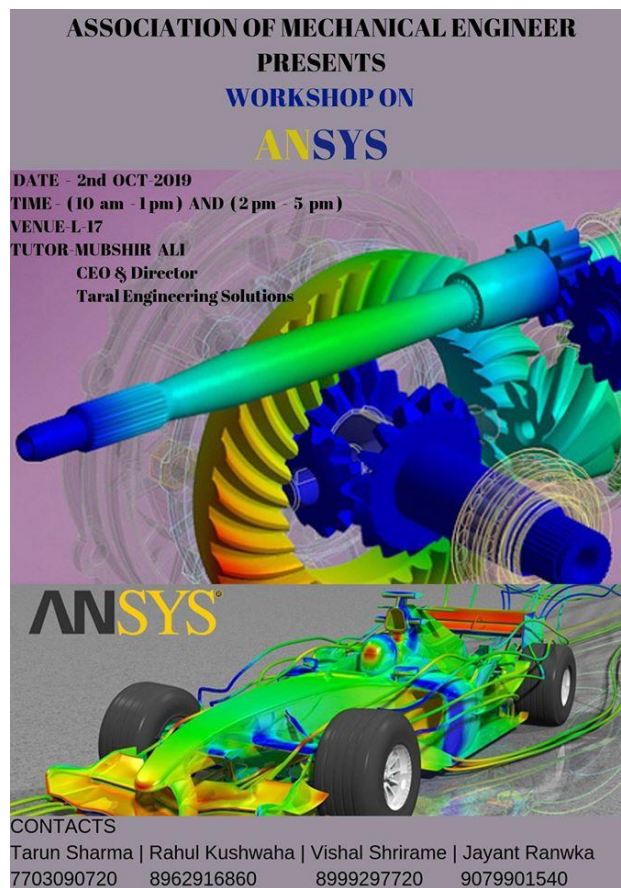
A workshop similar to that of MATLAB was conducted for ANSYS. Similar points of suggestions to MALTBAB event to be considered for this workshop as well.

Date of Event: 2<sup>nd</sup> October, 2019

Speaker: Mr. Mushbir Ali (Tara Engg. Solutions)

People registered: 77

The following was the poster released for the event.



**Figure 7. Poster for ANSYS Workshop**

Cost of the event:

- 1) Token of thanks to the speakers: ₹2500 (Mubshir Ali)
- 2) Printing cost of certificates + water bottle for speakers + snacks for participant in both the workshops (MATLAB+ANSYS) combined: ₹3603



**Figure 8. Snap from the ANSYS Workshop 2019**

## COMSOL WORKSHOP

A COMSOL workshop was organized in the Computer Centre 2 of IITK.

Date of Event: 17<sup>th</sup> January 2020.

Instructor: Mr. Vineet Bansal

The instructor didn't stay for the two sessions and went off after the first session. The volunteers forgot to click the pictures of the event.

Cost to the workshop:

- 1) Snacks in DOAA canteen: ₹50

## Happy Hour/ Department Session

It was the most successful event in the session 2019-2020. AME collaborated with the Academic and Career Council (AnC) of the Student Gymkhana to organize an opportunity for students of all branches to come and understand the opportunities in research in the dept. of mechanical engineering. This allowed postgraduates of a particular topic to get themselves acquainted with work in other areas, and the undergraduates a chance to select a topic to apply for summer internships. Speakers included the four professors from ME Dept. They were:

- 1) Prof. Sameer Khandekar
- 2) Prof. Anindya Chatterjee
- 3) Prof. J. Ramkumar
- 4) Prof. Nachiketa Tiwari

Date of the Event: 11<sup>th</sup> February 2020

Poster released for the event is as follows:



Figure 9. Poster for Dept. Session

# AME REPORT 2019- 2020

The process involved for conducting this session is as follows:

- 1) Deciding a tentative date to conduct such a session. Time should be preferably evening so that professors can make time for the event.
- 2) Keeping a maximum of 4 speakers for a day.
- 3) Trying to select speaker from different domains, with focus on those known to be excellent researchers as well as presenters
- 4) Trying to find a time suitable to all the speakers
- 5) Booking a lecture hall keeping a rough idea of attendance in mind
- 6) Creating a poster mentioning the time and venue of the event.
- 7) Informing the speakers about the venue and their sequence of presentation
- 8) Floating an email to the students inviting them to attend the event
- 9) Arranging for high tea for the professors and the students before the start of the event
- 10) Arranging for water bottles from the canteen and microphone, hdmi cables, etc from the lecture hall office.



**Figure 10. Snap of the Dept. Session 2020**

Cost of the Event:

- 1) High tea and water bottles: ₹1,702

## Effect of COVID19

### DEPARTMENT TRIP

The AME was going to conduct a department trip after a gap of 4 years for the students of ME Dept. The locations decided were Modern Coach Factory, Rae Bareilly; Ordnance Factory, Kanpur; Field Gun Factory, Kanpur.

An amount of ₹400 was decided as a security fee which was to be refunded after the trip has ended (the people who registered and didn't attend won't get their security money back). The security money was already collected and list was floated as to who shall go to which location out of three (lottery basis). We were to use IITK buses for logistics.

We were in our last process of finalizing the list with the head of department and working out the logistics when COVID19 hit and all was cancelled. We returned all the security money back to their respective depositors.

The upcoming batch is advised to try and conduct this dept. session in their session if possible.

### RESEARCH SCHOLARS' DAY (RSD)

Even though the RSD was cancelled, but we had discussions with the HoD and Faculty in charge on the logistics and procedures which may be useful to the next team. So, they are as follows:

- 1) It was suggested to use the area in front of LHC 18 and LHC 19 instead of LHC 8 foyer.
- 2) The poster presentation was suggested to be conducted in batches of two or three, so that the presenter can be audience in other sessions. Pinning of posters one over other was suggested, with the poster to be presented later to be below the poster to be presented first. After the first presenter is done with his session, he may pin out the poster and take it with him so that the next presenter's poster surfaces on the top.
- 3) Info about the poster printing shop can be taken from the ME office (rates are lower than available in halls of IITK)
- 4) Confirm from the ME office if RSD lunch is to be taken care by the dept or not. (most probably they will)
- 5) Print certificates and make water bottles available for PhD oral presentations.
- 6) Book lecture halls for the oral presentation (last year LHC 11-13 were booked).

### BATCH PHOTO SESSION

Below is what we were planning. These may act as suggestions to the next team.

- 1) The photoshoot of the batch shall be scheduled on the BTP presentation day in the afternoon (subject to changes). A photographer needs to be hired and a mail to all the faculty and students need to be circulated, so that maximum participation is ensured.

- 2) The Y16 BTech batch; the MTech & MSR batch; the dual, double major & extended degree students are the three breakups of batches decided for photoshoot. However, these may change upon suggestions. If the graduating PhDs are high in number and available in campus, a separate batch for them may be considered, else they may be added to any of the three batches.
- 3) The idea to present the students graduating with a photo frame along with their batch photo needs to be considered (along with the decision if AME shall bear full cost, partial cost, or no cost for the hard copy of the photo). The soft copy shall be made available to all the batch students via a drive link.

## GENERAL SUGGESTIONS

All the suggestions are subject to the suggestions and views of the faculty advisor of the upcoming batch.

- 1) Even though farewell is one of the most important events conducted by AME, we didn't reach the situation to start worrying the farewell. A suggestion would be that instead of presenting the students with a token at the farewell, they may be given a frames photo of the photoshoot if budget allows.
- 2) The size of the AME team was larger than required for the session 2019-2020. It is recommended to reduce the number of posts for the next batch.
- 3) Since our department has a dedicated budget for RSD, allots budget for freshers, and provides reimbursement for small amounts. It is recommended to negotiate and talk with the HoD via means of the faculty advisor to reduce the membership fees of new students. This can allow a larger community to benefit from the initiatives.
- 4) AME should collaborate more with already present groups and councils in the campus (like the AnC collaboration for Dept. Session). This increases the exposure of the association, and experience of the team. Also, since such groups also have money allotted to them, the financial burden can be shared with them.
- 5) [IMPORTANT] Please maintain a database of AME members starting from this year, to keep record of the members if the registration if to be kept paid.
- 6) [IMPORTANT] Please continue the ID card printing process for the upcoming batches.

# AME REPORT 2019- 2020

## Financial Report

### FINANCES FOR YEAR 2019 – 2020 (ALL AMOUNT IN ₹)

DATE	EVENT	DETAILS	CREDIT	DEBIT	BALANCE
24 Aug 19	Received from AME 18-19		62,338	-	62,338
27 Sep 19	Fund Collection	PG (67) UG (51)	94,400	-	1,56,738
1 Oct 19	Token to Govind Sahu	MATLAB event	-	1,000	1,55,738
1 Oct 19	Token to Ankush	MATLAB event	-	1,000	1,54,738
2 Oct 19	Token to Mubshir	ANSYS event	-	2,500	1,52,238
2 Oct 19	Workshop costs	MATLAB+Ansys	-	3,603	1,48,635
3 Oct 19	Volunteer food	MATLAB+Ansys	-	3681.54	1,44,953.46
4 Nov 19	ID Card printing (133 nos)	@₹25+18%GST	-	3924	1,41,029.46
14 Nov 19	Refunded from ME Dept.	For workshops	6000	-	1,47,029.46
17 Jan 20	COMSOL workshop	DOAA Canteen	-	50	1,46,979.46
10 Feb 20	Department Session	High tea	-	1702	145277.46

**Fund available for next term: ₹1,45,277.46**

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