# MANJARA CHARITABLE TRUST RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI (Permanently Affiliated to University of Mumbai) DEPARTMENT OF MECHANICAL ENGINEERING

(UG Program - NBA- Accredited; PG in Heat Power and Ph.D. Technology)

Date: 30th June 2022

To,

The Principal,

Manjara Charitable Trust's Rajiv Gandhi Institute of Technology,

Mumbai

Subject: Seating arrangement/responsibilities allocation

Respected Sir,

Following are the seating arrangement for the teaching and non-teaching staff members of the department.

	members of the depa	ii tiiieiit.	
Sr. No.	Name of the Staff	Seat/Extension No.	Responsibilities
1	Dr. Rajesh V Kale	A-23	- Head of the Department
		HOD-Cabin 1	- ISHRAE coordinator
		EXT-109	- AeroRGIT coordinator
2	Dr. Kiran	HOD Cabin, AS & H	- Program Assessment Committee
	Chaudhari		Coordinator
			- ISHRAE coordinator
3	Dr. Y P Deshmukh	A-23	- PhD Coordinator
		Cabin 2	- Placement Coordinator
			- Coordinator (Industrial Relations)
4	Dr. N. J. Panaskar	A-23	- Metrology Lab Incharge
		Cabin 2	- Major Project Coordinator
			- IIIE Coordinator
5	Prof. N. B.	A-23	- NBA Coordinator
	Shahapure	Cabin 3	- R&D Committee Incharge
6	Prof. A. L.	A-23	- CAD CAM Lab Incharge
	Mangrulkar	Cabin 4	- Internship Incharge
			- ASME Coordinator Convener
			- Industrial Visit Coordinator
7	Prof. Amitkumar	A-23. beside HOD-	- Website Coordinator
	Patil	Cabin	- Placement Coordinator
8	Dr. A. G.	IC Engine Lab	- IC Engine and Automobile Lab Incharge
	Londhekar		- Term test coordinator
9	Prof. M. R. Valse	HMT Lab	- HMT and Thermal Engineering Lab
			Incharge
			- ME Coordinator
			- Website Coordinator

10	Prof. Ajay Gawde	HMT Lab	- Internship Incharge
11	Prof. Parmeshwar	RAC Lab	- FM and Hydraulic Lab Incharge Lab
	Paul		Incharge
			- Department Time Table Incharge
			- Alumni coordinator
12	Prof. Kiran	FM Lab	- Mini Project Incharge
	Deshmukh		- Program Assessment Committee
13	Prof. Ratnam R.	MQE Lab	- Competitive exams coordinator
	Gujar		•
14	Prof. R. M.	MMA Lab	- MESA Coordinator
	Siddiqui		- NBA coordinator
15	Prof. S. D.	TOM Lab	- TOM Lab Incharge
	Gaikwad		- SAE Coordinator
16	Prof. N. K.	TOM Lab	- RAC Lab Incharge
	Deshmukh		- Alumni coordinator
17	Prof. N. N.	SOM Lab	- SOM and MT Lab Incharge
L	Bhostekar		- Facility Incharge
18	Prof. Ashwini	SOM Lab	- Robotics Club coordinator
	Gotmare		- Mentorship coordinator
19	Prof. Pravinkumar	SOM Lab	- SWAYAM & MOOCS Coordinator
	Gupta		
20	Prof. Nikhil V. S.	MMA Lab	- Mechanical Measurements and Automation
			Lab Incharge
			- Mentorship coordinator
			- Universal human Values (UHV) coordinator
21	Prof. R. Y. Kurne	WS Cabin	- Workshop Superintendent
			- Major Project Coordinator
22	Prof. Chetan Rane	EM Lab	- Department Time Table Incharge
			- Mini Project Incharge
			- Universal human Values (UHV) coordinator
23	Dr. Manju Lata	EM Lab	- Term test coordinator
			- Department Library Incharge
24	Mr. J. L. Jadhav	FM Lab	- IC Engine, RAC, FM, Lab Handling
L			- Repair & Maintenance Coordinator
25	Mr. J. M. Hajare	HT Lab	- SOM, MT, HT Lab Assistant
			- (EVEN)
			- Oral/TW Exam Assistant
26	Ms. K. A. Vartak	CAD CAM Lab	- CAD CAM Lab Assistant
			- Department Documentation Handling
			- Oral/TW Exam Assistant
27	Mr. Rajesh	TOM Lab	- MMA, TOM Lab Assistant
	Sangale		- Term Test Assistant
			- Result Analysis Assistant
28	Mr. Sohel Shaikh	CAD CAM Lab	- MQE Lab
			- Department Library Assistant

#### Additional Responsibilities:

Sr. No.	Name of the Staff	Seat/ Extension No.	Responsibilities
1	Dr. Kiran Chaudhari	HOD Cabin, AS & H	- Program assessment committee
2	Prof. N. J. Panaskar	A-23 Cabin 2	- Publications Record
3	Prof. N. B. Shahapure	A-23 Cabin 3	- Internal audit and Documentation audit
4	Prof. R. M. Siddiqui	MMA Lab	- Delegated Minutes of meeting work
5	Prof. N. K. Deshmukh	TOM Lab	- Internal audit and Documentation audit
6	Prof. N. N. Bhostekar	SOM Lab	- Stock verification, DSR, Stock write-off
7	Prof. Ashwini Gotmare	SOM Lab	- Department advisory board work
8	Prof. Nikhil V. S.	MMA Lab	- Oral practical Incharge - Class room In-Charge
9	Prof. R. Y. Kurne	WS Cabin	- Internal audit and Documentation audit
10	Prof. Pravinkumar	SOM Lab	- Parent Meet
	Gupta		
11	Prof. Ajay Gawde	HMT Lab	- Major Project
12	Ms. K. A. Vartak	CAD CAM	- E-Notice Board
		Lab	

Dr. Rajesh V Kale Head of the Department Mechanical Engineering

# MANJARA CHARITABLE TRUST RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI (Permanently Affiliated to University of Mumbai)

#### DEPARTMENT OF MECHANICAL ENGINEERING

(UG Program - NBA- Accredited; PG in Heat Power and Ph.D. Technology)

SN	File Name	File Incharge
1	VISION/ MISSION/ PEO/ PO/ PSO/ ASSESMENTS	Dr. R. V. Kale
2	STUDENT ADMISSIONS	Prof. A. V. Gotmare
3 A	DEPARTMENT BUDGET	Prof. N. B. Shahapure, Mr. J. L. Jadhav
3 B	PURCHASE DETAILS	Prof. N. B. Shahapure, Mr. J. L. Jadhav
4	RESULTS (3 Files)	Prof. R. Y. Kurane
5 A	PROJECTS	Prof. R. Y. Kurane, Dr. N. J. Panaskar
5 B	MINI PROJECTS	Prof. C. R. Rane, Prof. N.N. Bhostekar
6	STUDENT ACHIEVEMENTS	Dr. A. G. Londhekar
7 A	PLACEMENTS	Dr. Y.P. Deshmukh
7 B	HIGHER STUDIES	Prof. A. L. Mangrulkar
7C	STARTUPS & ENTREPRENEURSHIP	Prof. A. L. Mangrulkar
8	RESEARCH AND DEVELOPMENT	Prof. N. B. Shahapure
9	STAFF DETAILS	Prof. S. D. Gaikwad
9 A	PERSONAL FILES	Prof. S. D. Gaikwad
10	STUDENTS PROFESSIONAL BODIES (4 Files)	Prof. S. D. Gaikwad-SAE
	STODENTS THOSE ESSIONALE BODILES (Trace)	Prof. R.M. Siddiqui-MESA
		Prof. A. V. Gotmare -Robotics
		Prof. A.L. Mangrulkar - ASME
		Dr. R.V. Kale-ISHRAE, AeroRGIT
		Dr. N.J. Panaskar-IIIE
11	DEPARTMENT MAPPING OF OUTCOMES/ATTAINMENT	Prof. N. B. Shahapure
12 A	NBA RECORDS 2014	Prof. R.M. Siddiqui
12 B	NAAC	Prof. N. N. Bhostekar
13 A	STAFF SPONSORSHIP	Prof. A. V. Gotmare
13 B	STUDENT SPONSORSHIP	Prof. R. R. Gujar
14 A	FACULTY PUBLICATION	Dr. N. J. Panaskar
14 B	STUDENT PUBLICATION	Prof. M. R. Valse
15	INDUSTRIAL VISIT (3 Files)	Prof. C. R. Rane
16 A	INTERNSHIPS	Prof. A.L. Mangrulkar, Mr. R. T. Sangale
16 B	INTERNSHIP REPORTS	Prof. A.L. Mangrulkar, Mr. R. T. Sangale
16 C	INDUSTRIAL TRAINING	Prof. Ajay Gawade
16 D	SOFTWARE TRAINING	Prof. Ajay Gawade
16 E	NPTEL (including NITTTR, SWAYAM, MOOCS)	Dr. Y.P. Deshmukh
17	MID SEMESTER EXAMS (7 Files)	Prof. Nikhil V. S.
18	CLASS ADVISORS (3 Files)	Prof. R. M. Siddiqui
19	GUEST LECTURES/INVITED TALKS/WORKSHOP - RECORDS	Prof. Ajay Gawade
20 A	NOTICES FROM OFFICE AND DEPARTMENT (2 Files)	Prof. R. R. Gujar
20 B	UNIVERSITY CIRCULAR (3 Files)	Prof. R. R. Gujar
20 C	POLICY DOCUMENT	Prof. N. N. Bhostekar
21	LABORATORIES	Mr. J. M. Hajare
22	STUDENT FEEDBACKS (3 Files)	Prof. R. M. Siddiqui
23	TIME TABLE	Ms. K. A. Vartak
24	SYLLABUS	Mr. J. M. Hajare
25A	CONFERENCE/ STTPS/ FDP OFFERED BY DEPARTMENT	Prof. R. M. Siddiqui
25B	CONFERENCE/ STTPS/ FDP ATTENDED	Prof. P. R. Paul
26	AUDIT REPORTS	Prof. M. R. Valse
27	DEPARTMENT ALUMNI	Prof. N. K. Deshmukh
28	STAKE HOLDERS FEEDBACK	Prof. N. K. Deshmukh
29	MOU FILE	Prof. A. L. Mangrulkar
30	NOTICE BOARD FILE	Ms. K. A. Vartak

## MANJARA CHARITABLE TRUST RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI (Permanently Affiliated to University of Mumbai)

#### DEPARTMENT OF MECHANICAL ENGINEERING

(UG Program - NBA- Accredited; PG in Heat Power and Ph.D. Technology)

Dated: 27/06/2022

# For AY 2021-22

1. Name of Internship In-charge: Prof Amol Mangrulkar

2. Name of Internship Assistant: Mr Sohel Shaikh

3. Head of The Department: Dr. Rajesh V. Kale

4. Academic Year : 2021-22

5. Total no of students applied for internship: 64

AS per guidelines provided by the University of Mumbai, Institute and the department of mechanical engineering the students are suggested to do the internship which are provided by various companies like HPCL, Accent, Mazgaon Dock, INTERSHALA etc, and students can utilize their interim summer vacation period. We create support and made available all facilities for our students to complete all formalities of industries as per their requirement. The details list of the students applied for paid and non-paid internship are given in below:

#### Details of major Internship Industry List (Jan-Jun 2022)

SN	Name of Company	No of students
2.	Accent Technology Solutions Pvt Ltd, Mumbai	05
3.	A N Fabrication, Turbhe, Navi Mumbai	01
4.	Mazgaon Dock Shipbuilders Ltd, Mumbai	02
5.	Matunga Railway Workshop	05
6.	Escort Ltd, Farodabad, Haryana	01
7.	Godrej and Boyce Mfg Company Ltd, Mumbai	01
8.	HPCL, Mumbai	01
9.	Maruti Suziki, Mumbai	01
10.	IIT, Kanpur	01
11.	Other industries	10
	Total	28

Prepared By

Mr. Sohel Shaikh Prof Amol mangrulkar Dr. Rajesh V. Kale

Internship Assistant Internship Incharge HOD

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#### Research and Development Committee Report Year (2020-2021)

Minor Research Proposal: Grant 2021-22 sanctioned by the University of Mumbai

-Nil

## Research Proposal funds received from different funding agencies and funds utilized for the concern activity

Name of Funding Agency	Name of Principal Investigator	Type of proposal	Title of Proposal	Date of Submission	Amount( Rs)
AICTE	Dr. Sanjay Bokade, Dr. Prathmesh Potdar	Grant for organizing the conference	International Conference on Embracing Industry 4.0 Technologies for Sustainable Growth (ICEI 4.0)		2,10,700/-

#### **Ongoing Research project in the department**

Sr. No.	Research Scholar	Guide	Topic	Research Achievements
1	Mr. Mukund R. Valse	Dr. Sanjay U. Bokade	Investigation of Heat Transfer and Fluid Flow Characteristics of Extended Surface	• 1(International conference)
2	Mr. Rajesh L. Bisane	Dr. Rajesh V. Kale	Performance Investigation on Single Cylinder Four Stroke Tri- Charged Diesel Engine.	<ul><li>1(International conference)</li><li>2 patent registered</li></ul>
3	Mr. Vinod G. Surange	Dr. Sanjay U. Bokade	Investigation of Critical Risk Factors in Manufacturing Sector	<ul> <li>1(international conference)</li> </ul>
4	Mr. Ranjeet Kekan	Dr. Rajesh V. Kale	Performance Improvement of Water Chiller with Low GWP Refrigerants, LSHX and internal subcooler	• 1(International conference)
5	Ms. Nimisha R. Shirbhate	Dr. Sanjay Bokade	Investigation on Material Characterization of 3D Printed Bone scaffold for Static and Dynamic Conditions	1(international conference)
6	Mr. Prathamesh Patil	Dr. Rajesh V. Kale	Numerical & Experimental Investigation of Perforated Fins	

#### MANJARA CHARITABLE TRUST Rajiv Gandhi institute of Technology, mumbai

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			for Enhancement of Heat Transfer	
7	Ms. Ashwini V. Gotmare	Dr. Sanjay U. Bokade	Investigating the Impact of the Adoption of Industry 4.0 Enabling Technologies on Business Performance of Indian Manufacturing Organizations	1(SCOPUS indexed international conference)
8	Prasad B. Kawade	Dr. Sanjay U. Bokade	Investigations of Cold gas assisted micro lubrication influence on machinability of die tool steel	1(SCOPUS indexed international conference
9	Deepa S. Pandey	Dr. Sanjay U. Bokade	A Holistic framework of Smart Supply Chain in Healthcare Unit with the Paradigm of Sustainability	1(SCOPUS indexed international conference
10	Swapnil R. Mane	Dr. Rajesh V. Kale	Experimental Investigations and optimization of Performance Parameters of domestic solar Water Heater	1(SCOPUS indexed international conference

## Research project completed in the department in year 2021-22

Nil

## The new startup was started by the students of the department in the year 2021-22

Two start-ups are started by the department students.

Name of the student	Name of the company or company profile
Harshal Shikhare	Mandeshi Agro
Saurabh Shahane	The Machine Learning Company

## Industry-sponsored ongoing and completed projects in the department by the students in the year 2021-22.

 Ongoing Industry-sponsored project "integrated rapid prototyping: Effective development of custom orthotics", in collaboration with ADDOwings solutions

## MOU signed by the institute/ Department in the year 2021-2022.

MOU with ETG Career Labs Pvt. Ltd. Bengaluru.

Submitted by,

Prof. N. K. Deshmukh

Prof. A. G. Londhekar

Prof. N. B. Shahapure

Prof. N. N. Bhostekar.

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#### **AERORGIT REPORT JULY-DECEMBER 2021**

The purpose of AeroRGIT, the SAE student chapter at Rajiv Gandhi Institute of Technology, is to enhance the knowledge base of its members who are Aeromodelling enthusiasts and to provide to its members access to SAE International programs and services globally, enabling them to practice world class standards in productivity and quality.

SAE International is a professional organization with over 138,000 members globally. Aside from its standardization efforts, SAE International also devotes resources to projects and programs in STEM education, professional certification, and collegiate design competitions.

SAEINDIA is a membership organization founded in 1994 and in 2003 SAEINDIA became an affiliate of SAE International. Today, the President of SAEINDIA is Dr. R.K. Malhotra and has a membership count of more than 40,000 members around India.

Website SAE INTERNATIONAL: http://www.sae.org

Website SAEINDIA: http://www.saeindia.org

Faculty Advisor for AeroRGIT: Dr. RAJESH V. KALE





# (Permanently Affiliated to University of Mumbai) DEPARTMENT OF MECHANICAL ENGINEERING (NBA- Accredited UG Program)

#### LIST OF EVENTS AND WORKSHOPS CONDUCTED BY AERORGIT

SR NO.	EVENT NAME	DATE	SPEAKER/ANCHOR
1	Computational Fluid Dynamics Workshop	10.07.2021 & 11.07.2021	Mr. Rehan Ansari
2	Crack the career code Webinar on MBA by IMS	21.08.2021	Mr. Dhaval Kunte
3	IID Webinar on Drones	04.09.2021	Mr. Rakesh Rai
4	World space week	04.10.2021 to 10.10.21	-
4.1	Space week Day 1 (Space Talk)	04.10.2021	Ms. Shweta Kulkarni
4.2	Space week Day 2 (Space Quiz Competition)	05.10.2021	Members of AeroRGIT
4.3	Space week Day 3 (Treasure Hunt)	06.10.2021	Members of AeroRGIT
4.4	Space week Day 4 (Astrophotography)	07.10.2021	Members of AeroRGIT
4.5	Space week Day 5 (Essay Competition)	08.10.2021	Members of AeroRGIT
4.6	Space week Day 6 (Space Talk)	09.10.2021	Mr. Siddharth Pandey
4.7	Space week Day 7 (Poster Making Competition)	10.10.2021	Members of AeroRGIT

#### **UPCOMING COMPETITION**

COMPETITION NAME	DATE
SAE Aero-Design Challenge East 2022, Micro class	20 <sup>th</sup> – 22 <sup>nd</sup> May, 2022

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#### COMPUTATIONAL FLUID DYNAMICS (CFD)WORKSHOP

**Date:** 10<sup>th</sup> & 11<sup>th</sup> July 2021 **Time:** 11:00 PM - 1:00 PM **Platform:** Google Meet **Speaker:** Mr. Rehan Ansari





AeroRGIT, an Aeromodelling committee of MCT's Rajiv Gandhi Institute of Technology Mumbai, had organized a two-day workshop on CFD (Computational Fluid Dynamics) on 10<sup>th</sup> and 11<sup>th</sup> of July. The workshop was conducted through online platform with a total number of 85 participants. The session began with a warm welcome from our president and vice-president. Later the session was taken over by our speaker Mr. Rehan Ansari. The topics included in the workshop were:

- 1. Simulation of flow through an open pipe with elbow joint.
- 2. Steady state simulation of flow over an airfoil.
- 3. Flow simulation through a convergent-divergent nozzle.
- 4. Aerodynamic analysis of Tesla Cybertruck.



#### **DAY 1:**

Speaker explained about Finite Element Simulations since it is a part of CFD. Some key points that were explained:

- ➤ Basic terminologies like Domain, Discretization, and Mesh.
- ➤ Basics of finite element simulations: based on 3 simple steps Pre-processing, Solving, and Post-processing.
- > Application of CFD.
- ➤ Difference between FEA, and CFD.
- ➤ Software used for CFD: ANSYS Fluent, and SimScale.

#### **DAY 2:**

The next day he explained few simulation processes which are as follows:

- > Simulation of flow through an open pipe with elbow joint
- > Steady state simulation of flow over an airfoil
- > Flow simulation through a convergent-divergent nozzle
- Aerodynamic analysis of Tesla Cybertruck.

The speaker cleared all the doubts from the participants. The session was then concluded with a vote of thanks from AeroRGIT committee.

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# CRACK THE CAREER CODE WEBINAR ON PURSUING MBA BY IMS

**Date:** 21st August 2021 **Time:** 4:00 PM - 5:30 PM **Platform:** Zoom Meetings **Speaker:** Mr. Dhaval Kunte





An informative webinar focused on guiding students aspiring MBA after graduation was organized by AeroRGIT, on 21st August 2021 at 4:00 PM in collaboration with IMS Education, Mumbai. The session started with an introductory speech by Ms. Aakanksha Shirke, where she introduced the committee and its activities. As the webinar commenced, the speaker, Mr. Dhaval Kunte, introduced himself and explained the importance of pursuing an MBA. The four major reasons to pursue MBA were discussed in depth. Further, the speaker discussed the perfect time to begin preparations after graduation and showed a best-case scenario with a pictorial representation.

A quick overview of CAT and other entrance exams for MBA with their preparation process and timeline was given. The speaker provided some great advice to the students on how to tackle the exam and achieve a good rank. Top MBA institutes were also mentioned. In the end, a doubt session was held where the speaker cleared queries of all the students. Then the webinar was concluded with a vote of thanks and regards from the committee.

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#### **IID WEBINAR ON DRONES**

Date: 4th September 2021

Time: 04:00 PM - 06:00 PM

**Platform:** Google Meet

Speakers: Mr. Rakesh Rai





An illuminating webinar focused on drone technology was organized by AeroRGIT, on 4<sup>th</sup> September 2021 at 4pm in collaboration with IID. The session started with the introductory speech by Mr. Nikhil Thosar, where he introduced the committee and its activities.

As the webinar commenced, the host, Mr. Rakesh Rai introduced himself and explained the agenda about the importance of drones nowadays. The Speaker also asked the participants about when was the first time, they heard about the term drone and there was huge response by participants. The speaker explained about types of UAV's, their uses and the various purposes of drones in military field like surveying, mapping, patrolling, and many more. He then introduced the wireless communication and its various types. A Q&A session was held where all queries of the attendees were cleared. The session concluded with a vote of thanks and regards from the committee.

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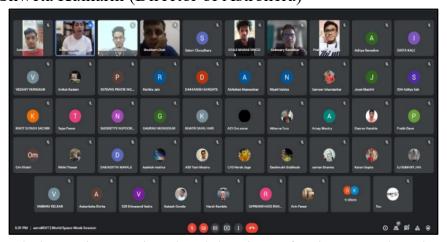
#### WORLD SPACE WEEK

#### **DAY 1: SPACE TALK**

Date: 4th October 2021

**Time:** 5:00 PM - 6:00 PM **Platform:** Google Meet

Speaker: Ms. Shweta Kulkarni (Director of Astronera)



World Space Week is an international celebration of science and technology, and their contribution to the betterment of the human condition. The United Nations General Assembly declared in 1999 that World Space Week will be held each year from 4<sup>th</sup> to 10<sup>th</sup> of October.

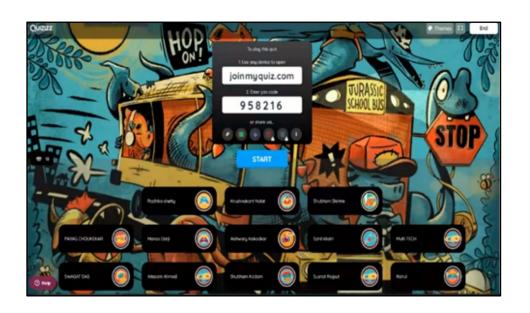
On day 1, a webinar was conducted by Astronera in collaboration with AeroRGIT, this webinar commenced the beginning of the space week (4<sup>th</sup> Oct -10<sup>th</sup> Oct). The session kick started with an introduction speech by Mr. Rohan Rathod, wherein he highlighted AeroRGIT committee and its achievements and also acquainted the participants with the speaker for the session, Ms. Shweta Kulkarni. The speaker began by sharing their personal journey right from 3-4 years of age till present time. The dominant focus of the session was on role of women in astronomy. There have been many prominent women scientists and astronomers who have contributed immensely in what we know about space, stars, and planets.

There were various questions from the students such as, scope of science communicator in India, what is dark matter, and much more about Astronera. The webinar was concluded with a vote of thanks and regards from the committee.

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#### **DAY 2: SPACE QUIZ COMPETITION**

**Date:** 5<sup>th</sup> October 2021 **Time:** Round 1 - 5 PM Round 2 - 7 PM



On the 2<sup>nd</sup> day of World Space Week, Space Quiz was conducted which consisted of 2 rounds. The first round was held at 5:00 PM with time slot of 30 minutes, which included of 67 participants and among them 17 participants qualified for the second round which was held at 7:00 PM with the time slot of 20 minutes. The 1<sup>st</sup> round of the quiz was conducted through google forms and the 2<sup>nd</sup> round of the quiz was live. Before the start of each round rules were explained to the participants and each round consisted of 20 questions. At the end, names of top 3 winners were announced.

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#### **DAY 3: TREAURE HUNT**

Date: 6th October 2021

Time: 12:00 PM -7:00 PM

Platform: Google Meet, All social media accounts of AeroRGIT

On the 3<sup>rd</sup> day of World Space Week, Treasure Hunt was conducted by AeroRGIT, at 12 pm. The host, Mr. Aishwary Kakodkar went ahead by introducing himself, then he started with explaining the rules to the players in detail. Every aspect of the process was explained and repeated so that the players understood the game well. The registration fees for the competition was Rs.20, provided with a cash prize for the winners upto Rs.500. The reward turned out to be a great motivator for the participants. The participants were asked to follow all the social media accounts of AeroRGIT, as the hints were hidden somewhere in the posts.

The game began at 1pm, and after every hour new hints were posted. Later the game concluded and the winners were announced.

#### **DAY 4: ASTROPHOTOGRAPHY**

Date: 7th October 2021

Platform: Google Form

**Time:** 12:00 PM – 8:00 PM

On 4<sup>th</sup> day, astrophotography competition was conducted in which the participants had to submit photographs of astronomical objects through google forms. The participants were allotted a time slot from 12:00PM to 8:00 PM for uploading their responses. The judge for this event was Ms. Shweta Kulkarni, Director of Astronera. Several students participated and this event was a huge success. Later the winners were declared and the event concluded with a vote of thanks from the committee.

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#### **DAY 5: ESSAY COMPETITION**

Date: 8th October 2021

**Platform:** Google Form

**Time:** 12:00 PM – 8:00 PM

On 5<sup>th</sup> day, essay writing competition was conducted in which the participants had to write an essay on the topic "A Day as an astronaut in space". The participants were allotted a time slot from 12pm to 8pm for uploading their responses. The judge for this event was Mr. Ankush Ingole, Assistant Professor at RGIT. Several students participated and this event was a huge success. Later the winners were declared and the event concluded with a vote of thanks from the committee.

#### **DAY 6: SPACE TALK**

Date: 9th October 2021

**Platform:** Google Meet

**Time:** 12:00 PM – 1:00 PM

On 6<sup>th</sup> day, a space talk was organized. The speaker was Mr. Siddharth Pandey, Head of the Centre of Excellence in Astrobiology at Amity University, India. The session began with a warm welcome and then it was taken over by Mr. Siddharth. He gave a brief information about his achievements, work, and shared his entire journey as a space enthusiast. He also discussed about several recent and upcoming trends and development in the aerospace industry. The session also included an information about several courses in aerospace. Overall, the session was quite motivating and informative for all space enthusiast. Later the session was concluded with a vote of thanks from the committee.

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#### **DAY 7: POSTER MAKING COMPETITION**

**Date:** 10<sup>th</sup> October 2021

Platform: Google Form

**Time:** 12:00 PM – 8:00 PM

On  $7^{\text{th}}$  day, the last day of space week, poster making competition was conducted in which the participants had to prepare a poster on the topic "Women in Space". The participants were allotted a time slot from 12:00 PM - 8:00 PM for uploading their responses. Several students participated and this event was a huge success. Further the posters were evaluated and ranked considering the creativity and unique idea. Later the winners were declared and the event concluded with a vote of thanks from AeroRGIT.

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Dated: 26/06/2022

#### Report of ASME-RGIT Student Body for Academic Year 2021-21

1. Name of Chairperson: Pranav Prabhu

2. Name of Coordinator: Prof Amol Mangrulkar

3. Academic Year: 2021-22

4. Total no of Activities conducted: 09

As a part of extracurricular and co-curricular to develop the all-round personality of the students the ASME-RGIT committee members organize various events. In the academic year 2020-21 we organize the various events which are given below.

S	Name	D-4-	Resource	Worksho	Damasak
N	Name	Date	Person	p/Semina r/other	Remark
		July- D	ec 2021 (ODD SEN	<u>(I)</u>	
1.	'4D Printing:				To Boost
	New	18 Sep 2021	Mr Amit Ghule	Seminar	knowledge 3 D
	Dimension in		CoFounder of		Printing
	manufacturing?'		Simpliforge		_
	,		technologies,		
			Mumbai		
	Unlocking		Dr Santosh B.	Seminar	Academitia
2.	Industrial	04 Oct 2021	Rane		
	Potential of		Dean, SPCE,		
	Digital Twin		Mumbai		
3.	webinar on 'MS		MakinGrad	Webinar	ndustry Resource
	in abroad'	02 Oct 2022	Overseas		person
			Education		
			Consultants Pvt		
			Ltd,		
			Mumbai		

4.	webinar on Opportunity 'MBA IN INDIA'.	13 Oct 2021	Mr. Vishesh Nadiyana (IIM C Alumnus). This	webinar	Industry Resource person		
5.	Know Your Branch	08 Dec 2021	ASME Team	Orientatio n	Orient students about asme activities		
6.	Webinar on Energy Conservation'.	18/12/2021	'Saikat Das', Energy Analyst and Strategists	Webinar	Industry Resource person		
	Jan- June 2021 (Even SEM)						
7.	WORKSHOP ON NX-CAD	24/01/2022 to 29/02/2022	Mr. Prasad Mastakar	Worksho p	Alumni train to students		
8.	WORKSHOP ON SOLIDWORKS	28/03/2022 to 30/03/2022		Worksho p	Alumni train to students		
9.	ICEI 4.0 International Confernce	21-23 April 2022	Success Stories & Doctorial Consortium	Conferen ce	Be part of event		

Thanking You,

Prepared By

Pranav Prabhu
[ASME Chair Person]

Prof Amol L. Mangrulkar [ASME Coordinator]

Amangoulkarz

Dr. Rajesh V. Kale [HOD]

Brake.

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DEPARTMENT OF MECHANICAL ENGINEERING
(UG Program – NBA Accredited; PG in Heat Power and PhD Technology)



# Report of ISHRAE-RGIT Student Body for Academic Year 2021-2022

Convener

Co-Convener

Dr. Rajesh V Kale

Prof. Parmeshwar Paul

(Permanently Affiliated to University of Mumbai)
DEPARTMENT OF MECHANICAL ENGINEERING
(UG Program – NBA Accredited; PG in <u>Heat</u> Power and PhD Technology)



#### Report of ISHRAE-RGIT Student Body for Academic Year 2021-22

President: Ms. Shubhangi Gaikwad

General Secretary: Mr. Yash Karandekar

**Academic Year:** 2021-22

Total no. of activities conducted: 3

Following events were organised & attended by ISHRAE-RGIT student body in academic year 2021-22.

- 1. Event Name: **"Evaluation of Student bodies"** organised on 15<sup>th</sup> September 2021, hosted by all the HOD's and Convenors of student bodies
- 2. Event Name: "**Know Your Department**" on 20<sup>th</sup> September 2021 hosted by Head of the Department Dr. R. V. Kale and various student professional bodies.
- 3. Event Name: "**Know Your Department**" on 8<sup>th</sup> December 2021 hosted by Head of the Department Dr. R. V. Kale and various student professional bodies.
- 4. Participated in "National Student Design Competition" 2021-22

Prof. Parmeshwar Paul

**Co-Convenor-ISHRAE RGIT** 

Dr. Rajesh V. Kale

**Convenor-ISHRAE RGIT** 

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DEPARTMENT OF MECHANICAL ENGINEERING
(NBA- Accredited UG Program)



# RGIT'S MESA ACTIVITIES REPORT BOOK

**ACADEMIC YEAR JULY 2021- DECEMBER 2021** 

(Permanently Affiliated to University of Mumbai)
DEPARTMENT OF MECHANICAL ENGINEERING
(NBA- Accredited UG Program)

### **INDEX**

SR NO.	EVENTS	DATE
1.	Webinar on Python Programming	03/07/2021
2.	Felicitation Ceremony	17/07/2021
3.	Webinar on Electric Vehicle Technology	06/09/2021
4.	Know Your Committee	20/09/2021
5.	Website Development Tutorial	18/09/2021
6.	Megazine Launch Event	22/09/2021
7.	Webinar on Career Opportunities In Public Sector Institutions	03/10/2021

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#### **WEBINAR ON PYTHON PROGRAMMING**

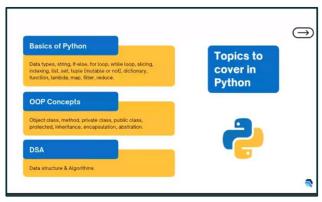
**Date:** 3<sup>rd</sup> July, 2021

**Time:** 05:00 PM - 06:00 PM

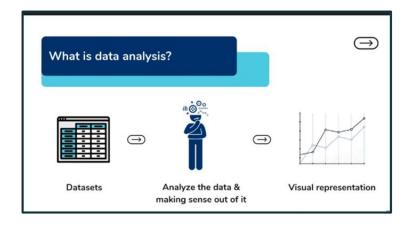
Platform: Google meet

Speaker: Ms. Antaripa Saha

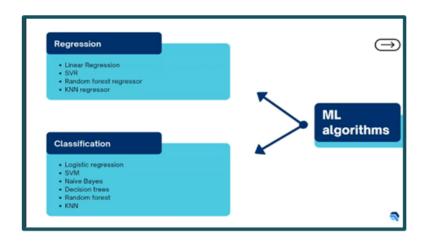




RGIT'S MESA is the oldest student body of the Mechanical Department which focuses on skill building and development in students by organising various webinars and events. On 3rd July,2021 RGIT'S MESA organised a webinar on the topic of Python Programming and it's applications. The orator invited for this event was Ms.Antaripa Saha a Machine Learning Engineer at Omdena currently a Research Intern at IISC Bangalore. She's a B-Tech graduate from NIT Agartala also she's selected as one of 51 changemakers from 20 Countries for the Omdena World Resource Institute Project. The event was organised with an aim to Acknowledge the audience with current developments in the field of Python Programming and it's applications in various sectors.



At the beginning of the webinar the speaker gave us a glance of the topics to be discussed in the session. She started the discussion by giving a brief introduction about Data Science Engineering and AI as well as she disclosed how various organisations and renowed companies use it for their functioning. Later she guided the students for choosing the Language to begin with the path of Data Science Engineering. During the session Ms.Antaripa Saha also shared her invaluable experience on entering into the AI field which served as an inspirational knowledge for the students.



The session continued with her summarising the Concepts of Python basics, Object Oriented Programming and Data Structures and Algorithms. Graphical and Statistical presentation for better understanding of Data Analysis was showed. Also, She deeply explained the significance of ML Algorithms and how to use it for pursuing a Data Scientist's job. She also guided how can one get noticed by the recruiters for good placements. At the end we had a Question Answer session in which the audience cleared all their queries. It was truly a great learning and inspiring experience. The webinar met to a conclusion with a Vote of Thanks by RGIT's MESA.

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#### **FELICITATION CEREMONY**

**Date:** 17<sup>th</sup> July, 2021

**Time:** 04:00 PM - 05:00 PM

Platform: Google meet



RGIT'S MESA is the oldest student body in the mechanical department which provides practical and professional experience to the student and helps in his overall development.

On 17<sup>TH</sup> September 2021, RGIT's MESA organised a felicitation ceremony for all the senior core members of MESA 2020-2021. The ceremony was hosted by Ms. Aakanksha Shirke, member of MESA. She began the ceremony with a warm welcome for all the attendees, senior members and covenors. Then Prof. Narendra Bhostekar, convenors of MESA addressed all the senior members and congratulated them for their incredible work for the committee. Later, the president, Vice-President and General Secretary of MESA 2020-21 shared their experience and memories being a part of this committee and then signed off from their posts.

Lastly, Mr. Tanmay Bhavsar, President announced the top three post holders of MESA 2021-2022. The ceremony concluded with an appreciation to all the senior core members for their contribution for the betterment and upliftment of MESA.						

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#### WEBINAR ON ELECTRIC VEHICLE TECHNOLOGY

**Date:** 6<sup>th</sup> September, 2021

**Time: 0**5:00 PM - 06:00 PM

Speaker: Mr. Ujjwal Kumaren





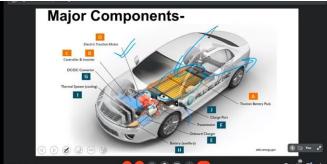
RGIT's MESA is the oldest student body in the mechanical department which provides professional and practical experiences for students' overall development. On 6<sup>th</sup> September, 2021 RGIT'S MESA in Collaboration with IEEE RGIT organized a webinar on Electric Vehicle Technology. The speaker for the event was Mr. Ujjwal Kumar Sen, Youtuber and coaching expert. The purpose of this event was to give an insight about the Electric Vehicle Technology, its scope and career opportunities in India.



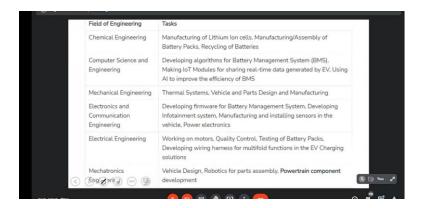


The session started with a brief introduction about the market summary in electric vehicle technology, where the speaker showed the graphical representation of rise in Electric vehicle technology in next 5 years. The speaker also discussed about the market value of electric vehicles by different manufacturing companies along with its specifications.





Later he explained about the different job opportunities in this field and the qualification required for it.



He also elaborated about the task done in various fields of engineering, each and every field had something to contribute or to learn whether it is manufacturing, robotics or management. Mr Ujjwal Kumar Sen gave a brief idea about the Electrical Vehicle Technology to our students. Later we had a Question and Answer session where all the doubts of the students were cleared by Mr. Sen. It was truly an informative session for all our students and will surely benefit them in their future. Then the event concluded with a vote of thanks from RGIT's MESA.

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#### **KNOW YOUR COMMITTEE**

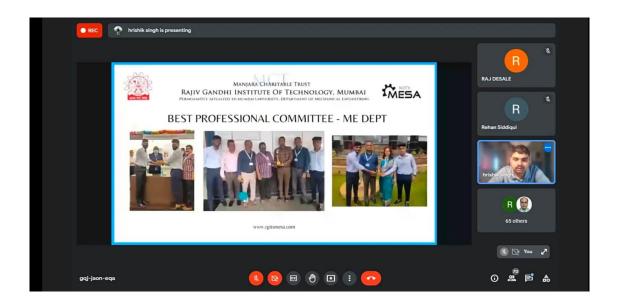
**Date:** 20<sup>th</sup> September, 2021 **Time:** 05:00 PM - 06:00 PM

Platform: Google meet



RGIT'S MESA is the oldest student body in the mechanical department which provides practical and professional experience to the student and helps in his overall development.

On 20<sup>TH</sup> September 2021, RGIT's MESA organised a KYC (Know your committe) for all the seconf year students of RGIT. The purpose of this session was to inform the students about the different committees in the Mechanical Department, their contribution and work for students overall development. The session was hosted by HOD Prof. Rajesh Kale. Later the principal Mr. Sanjay Bokade addressed the students and explain them about the importance of being a part of any student body. He also elaborated about benefits of the extra cucrricular activities.



Then Mr. Hrishik Singh, President of MESA, introduced the MESA committee to the students. He explained about the work, activities of the committee for the betterment of students and its achivements. He also informed them about the perks and opportunites that the student body provides to its members. The contact details and the form links for joining MESA was sgared to the students. The session then concluded with a vote of thanks from MESA.

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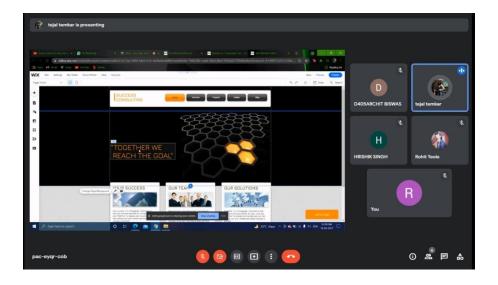
#### WEBSITE DEVELOPMENT TUTORIAL

**Date:** 18<sup>th</sup> September, 2021 **Time: 0**7:00 PM - 08:00 PM

Platform: Google meet

RGIT'S MESA is the oldest student body in the mechanical department which provides practical and professional experience to the student and helps in his overall development.

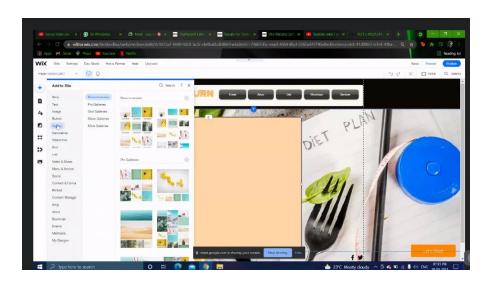
On 18<sup>TH</sup> September 2021, RGIT's MESA organised a session on web development for its members. It was conducted by Tejal temkar, Web Master of RGIT's MESA. The main objective of this meeting was to teach newly joined members how to make and maintain websites without coding.



She first introduced the members to the Wix platform. Wix is an online-website builder that gives users drag-and-drop simplicity when it comes to designing and publishing your portfolio, small business website, blog, or online store.

Then, she explained the commands thoroughly which they were going to use in website making. While explaining the commands, she also discussed the doubts with the members. She practically showed the members how they could add links, images, etc. to a website.

For better understanding of members, she decided to practice on a health-related website. After that, she assigned some work to the members and ended the meet. Members were very interactive throughout the meeting. The tutorial went great and was very informative.

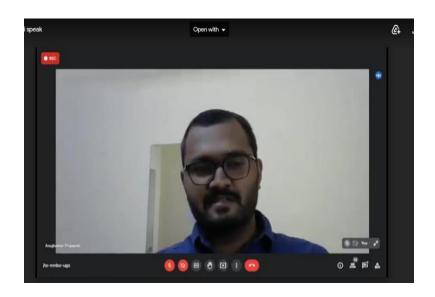


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#### MAGAZINE LAUNCH EVENT

**Date:** 22<sup>nd</sup> September, 2021 **Time:** 5:30PM – 06:00 PM

Platform: Google meet



RGIT'S MESA is the oldest student body in the mechanical department which provides practical and professional experience to the student and helps in his overall development.

On 22<sup>nd</sup> September,2021 RGIT MESA had its Magazine Launch Event The Guest for our Event was Mr.Anujkumar Prajapati, Alumni of RGIT. The session was started by the president of MESA Mr. Hrishik Singh with a warm welcome speech for the guest and the attendees. Then the session was then take over by the Mr. Anujkumar Prajapati. He shared his experience and memories of his engineering years in RGIT also discussed how he was able to crack the GATE exam and how he managed time.



He also gave advices to the students who will be preparing for GATE as to how to manage time and which all subjects should be focused on.

Mr. Prajapati discussed about his experience at (IOCL) Indian Oil Corporation limited. Prof. Rajesh Kale also became a part of the Magazine launch and interacted with our alumni and the students. The magazine was finally displayed on Mr. Prajapati's screen showcasing the events, industrial visits, teams and so on. Later the core committee members of MESA 21-22 were announced. Lastly the President of MESA concluded by Thanking Mr. Anujkumar Prajapati for his presence and experience that was shared by him to the students.

## MANJARA CHARITABLE TRUST RAIIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI

(Permanently Affiliated to University of Mumbai)
DEPARTMENT OF MECHANICAL ENGINEERING
(NBA- Accredited UG Program)

# WEBINAR ON CAREER OPPORTUNITIES IN PUBLIC SECTOR INSTITUTIONS

Date: 7th October, 2021

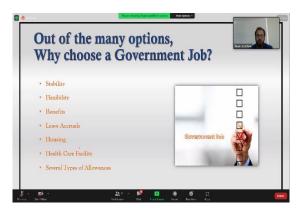
**Time: 0**5:00 PM - 06:00 PM **Speaker:** Mr. Karan Sardana



RGIT's MESA is the oldest student body in the mechanical department which provides professional and practical experiences for students' overall development. On 7<sup>th</sup> October, 2021 RGIT's MESA organized a webinar on Career Opportunities in Public Sector Institutions.

The speaker for this event was Mr. Karan Sardana. He is teaching quant from last 13 years to Bank/SSC aspirants and taught 20000+ students. The purpose of this event is to tell students about the different job opportunities in the Public Sector, their scopes and strategies for preparation.





The speaker started his session by showing the different types of career opportunities after graduation and explained why to choose govn. Jobs over other different options. Then, he elaborated the different types of fields where we can apply for a government jobs. He briefly discussed some of the best paying government jobs after graduation and their exam pattern. He also tells us the best strategies to crack those exams. At last, we had a doubts session where all students questions were answered by Mr. Karan Sardana.



This event would have definitely benefit the students to choose their career path and help them to make the best strategies for their examination. Then the event concluded with a vote of thanks from RGIT's MESA.

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# Report on "ALUMNI MEET REPORT-2021-22"

Date: 22 April ,2022 (Friday)

**Time :- 4 PM** 

**Venue: Auditorium** 

#### Organized By:

Department of Mechanical Engineering MCT's Rajiv Gandhi Institute of Technology Juhu Versova Link Road, Andheri (W) Mumbai-400053

#### **CHIEF PATRONS**

**Shri. Amit Deshmukh**, Secretary, Manjara Charitable Trust

**Mrs. Aditi Amit Deshmukh**, Trustee, Manjara Charitable Trust

PRINCIPAL Dr. S. U. Bokade

HEAD OF DEPARTMENT Dr. R. V. Kale

**Department Alumni COORDINATOR-: Prof. N.K. Deshmukh**Assistant Professor

Department Alumni Committee:- Prof. Parmeshwar Paul, Prof. Chetan Rane

Report Prepared By: Prof. N.K.Deshmukh

(UG Program - NBA- Accredited; PG in Heat Power and Ph.D. Technology)

### Report on

#### "ALUMNI MEET REPORT"

Academic Year 2021-22

### **About the Institute**

The great visionary & philanthropist Hon. Vilasrao Deshmukh founded Manjara Charitable Trust in the year 1988. In 1992, the Trust started the college of Engineering at Airoli (Navi Mumbai) to meet the demand of engineering & technocrats in the country. The institute was renamed as Rajiv Gandhi Institute of Technology & shifted to the permanent campus in 2002. Over the past one & half decades, the Institute has marched towards the pinnacle of glory through its remarkable achievements & laurels in the field of Engineering Education. The institute is committed to impart quality education by ensuring practical, innovative, technology-driven delivery of the programs & creating outstanding managers & technocrats who make valuable contribution to the global business & society to suit their ever changing needs.

- Recognized by All India Council for Technical Education, New Delhi.
- "A" Grade awarded by Govt. Of Maharashtra.
- ISO: 9001-2008 Certified Institution.
- Permanently affiliated to University of Mumbai
- National Board of Accreditation (NBA) accredited undergraduate programs in Mechanical Engineering, Electronics & Telecommunication and Computer Engineering
- Institute offers 4-year degree engineering Courses in Mechanical, Electronics &Telecommunication, Information Technology, Computer& Instrumentation Engineering.
- Institute also offers PG Programs in Mechanical, Electronics & Telecommunication, Computer Engineering & Information Security.
- Institute offers Research Programme (PhD) in Electronics & Telecommunication, Computer & Mechanical Engineering.

#### **Department of Mechanical Engineering**

The Department of Mechanical engineering was established since inception of this institute in 1992. The department offers B.E., M.E. program in Heat Power & PhD Program. A team of highly qualified & experienced staff is the major strength of this department. The Department focuses on cutting edge technologies & updates the faculty about the current trends in the field of Mechanical engineering. The academic leadership of department aims at preparing students for the better & secure future.

**Date**:18 /05 /2022

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The undergraduate program B.E. (Mechanical) of the department is accredited by National Board of Accreditation since July 2014 and reaccredited up to 30 June 2021.

#### **About "Alumni Meet"-**

Department of Mechanical Engineering ,MCT's Rajiv Gandhi Institute of Technology has organized the Alumni Meet on 22.04.2022(Friday). The alumni meet is conducted every year in order to reconnect with the Alumni and celebrate their success and various achievements.

This alumni meet has organized to provide the alumni to express their experiences, insights and share knowledge to the present students. This time department invited distinguished senior alumni. This alumni meet also offered opportunities to the students to learn from alumni & get updated, motivated in this present competitive world.

### **Objective of Alumni Meet -**

- To provide the alumni to express their experiences, insights and share knowledge to the present students.
- > To create awareness among the Mechanical Engineering students about global competitiveness, exploration of career opportunities in interdisciplinary fields.
- Exploring opportunities through "Make in India"
- To establish the linkages with industries with the help of alumni and thereby promote Training and placement activities of mechanical engineering department.

#### **About Participants-**

T.E and B.E students of Mechanical Engineering

### **Organizing Team-**

Prof N.K. Deshmukh ,Prof.Parmeshwar Paul, Prof.Chetan Rane,Prof.Rehan Siddique

**Student Team**- Akash Tandel ,Maaz Shaikh, Rutuja Pagar, Vaishnavi Wagh, Pranav Prabhu, Mohd.Rafi Jalgaonkar, Ishita Kale, Yesh Mestry, Bhavana Kolkondi

(UG Program - NBA- Accredited; PG in Heat Power and Ph.D. Technology)

### Department Invited following distinguished alumni------

- Mr.Manojj Natarrajan:-(Alumni Batch 2000)- Director, Goenvi Technologies Pvt. Ltd.Thane.
- Mr.Gaurav Bhende (Alumni Batch 2001) -Director and CEO -Protton Synergy Ltd, Mumbai.
- Mr.Akshay Kalyanpurkar (Alumni Batch 2009)-Director-Sridevi Tools Engineering Pvt.Ltd, Vasai , Mumbai.
- Ms. Anagha Bhide--(Alumni Batch 2010)-Director -Bhide's Institute of Testing Technology Pvt.Ltd.,Panvel & Proprietor-North Star Enterprises, Panvel.
- Ms.Miloni Thakkar (Alumni Batch 2013)- Jt.MD-KLT Automotive & Tubular Products Ltd, Mumbai.

### Flow of "Alumni Meet 2021-22"

Department of Mechanical Engineering ,MCT's Rajiv Gandhi Institute of Technology has organized "Alumni Meet-2021-22" on the campus on 22 April 2022. The Meet was attended by above alumni and faculties as well as students of Mechanical Engineering. The event started around 4PM.

Department Alumni Coordinator Prof.N.K.Deshmukh, formally opened the event by welcoming all alumni, Principal Dr.S.U.Bokade, Dr. R. V. Kale, Head of Mechanical Engineering Department, faculties & students and shared objectives of the event. Dr.R.V.Kale, Head, Department of Mechanical Engineering addressed the alumni regarding the Academic achievements, updated about the academic activities and good practices, curriculum, PEOs, PSOs, POs and contributions of the department alumni.

Principal Dr.S.U.Bokade expressed need of Alumni contributions and engagement in training & placements in the development of institute. He also expressed his views on exploring opportunities through "Make in India"

After that Prof.N.K.Deshmukh invited alumni---

to express their experiences, insights and share knowledge to the present students. Also

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- ➤ How to create awareness among the Mechanical Engineering students about global competitiveness, exploration of career opportunities in interdisciplinary fields.
- How to Explore opportunities through "Make in India"
- ➤ Establish the linkages with industries with the help of alumni and thereby promote Training and placement activities of mechanical engineering department.

Later, Alumni wholeheartedly expressed their views on above said points. After discussion on agenda, the alumni interactive session and Q &A session has been arranged with the students of TE & BE.

At the end, the meet has been concluded with the vote of thanks by department alumni coordinator Prof.N.K.Deshmukh to Principal Dr.S.U.Bokade, Head of Mechanical Engineering Department Dr. R.V.Kale & the management of Rajiv Gandhi Institute of Technology for the support and guidance which has made Alumni Meet 2021-22 a grand success.

Prof.N.K.Deshmukh expressed his thanks to All esteemed Alumni for giving their valuable time for attending the meet. He also thanked all faculty members and students of Mechanical Engineering department for attending the meet.

Later all the alumni interacted with the faculties and cherished their memories. The alumni also shared their experiences in their college days and their journey from student to the present.

All alumni met Principal and expressed their gratitude for arranging such a nice meet.

**Glimpses of Alumni Meet-**

(UG Program - NBA- Accredited; PG in Heat Power and Ph.D. Technology)





DEPARTMENT OF MECHANICAL ENGINEERING (UG Program - NBA- Accredited; PG in Heat Power and Ph.D. Technology)						

(UG Program - NBA- Accredited; PG in Heat Power and Ph.D. Technology)

#### STUDENT MENTORING REPORT

#### **ACADEMIC YEAR 2021-22**

At the start of academic year 2021-22, mentoring groups were formed which consist of 20 students and one faculty mentor was assigned for conducting mentor-mentee meeting for the academic year 2021-22.

For odd semester, all faculty members were informed to conduct their mentoring sessions on 17<sup>th</sup> September 2021 and 07<sup>th</sup> October 2021 from 3:00 pm onwards. The mentors were informed to conduct sessions in online mode due to COVID restrictions and preserve the recording of mentoring sessions.

For even semester, all faculty members were informed to conduct their mentoring sessions on 04<sup>th</sup> February 2022, 04<sup>th</sup> march 2022 & 07<sup>th</sup> April 2022 from 3:00 pm onwards. The mentors were informed to conduct sessions in offline mode. All the mentor were given their mentee list, format of Student mentoring form (which they will maintain along with them in their mentor file) and mentor's report format.

For SE students, along with faculty mentor Student mentors are also allotted from final year Batches and for female students female mentors are assigned.

#### **Activities planned for upcoming Semester**

- 1. Formation of mentoring group for SE & DSE (Sem III).
- 2. Assigning Faculty mentors and Student mentor for Sem III students.
- 3. Documentation of Action Taken Report for Previous academic year.
- 4. Collecting and maintaining records of mentor's documents of academic year 2021-22.

Prof. Ashwini Gotmare/Prof. Nikhil V S

Dept. Mentoring Coordinator

# A REPORT ON

**AICTE SPONSORED** 

INTERNATIONAL CONFERENCE
ON EMBRACING
INUSTRY 4.0 TECHNOLOGIES
FOR SUSTAINABLE GROWTH
(ICEI 4.0)

21st - 23rd APRIL, 2022



Organized by
Rajiv Gandhi Institute of Technology,
Mumbai

# RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI



Dr. Sanjay Bokade Principal& Conference Chair, ICEI 4.0

ICEI 4.0 conference organized during 21-23 April is immensely successful. The vast array of events conducted during the conference received great response. The delegates were from all over Maharashtra and from outside state as well. The paper presentation, the deliberations on various topic received huge participation. The coordinators of the events left no stone unturned to make sure the conference became a huge success. My heartiest congratulations to the organizing team of the conference.



Dr. Rajesh Kale Coordinator, ICEI 4.0

ICEI 4.0 conference received a grand success and was a satisfying experience. The delegates and guests who attended the conference were experts of different fields. We received good support from the management and Principal.



Dr. Kiran Chaudhari Coordinator, ICEI 4.0

The specialty of conference was it had not only research article presentation but had different events which were well attended by the participants. It was great experience to and we had a fabulous team to work with. We are grateful to the Management &Principal for their guidance.





# Manjara Charitable Trust Rajiv Gandhi Institute Of Technology, Mumbai

# MANJARA CHARITABLE TRUST RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI

### A Report on

### **AICTE Sponsored**

# International Conference on Embracing Industry 4.0 Technologies for Sustainable Growth (ICEI 4.0)

**Inaugural function** of the conference took place on 21<sup>st</sup> April 2022. The chief guest for the event was Mr. Vasant Mestry, Director, Suvidya Institute of Technology and Accent Techno Solutions Pvt. Ltd. Other guest invited were Dr. P.C Sehgal, Mr. Subodh Sant, Chief Engineers, Siemens Ltd., Mr. Damodar Bhagat, Chairman, IIIE, Dr. Rajesh Kale and Dr. Kiran Chaudhari coordinators of International conference did the anchoring. Dr. Sanjay Bokade delivered the welcome address. Dr. P.C. Sehgal and Mr. Damodar Bhagat delivered the inaugural address. Inaugural function concluded with National Anthem.



Thereafter Mr. Subodh Sant delivered the **keynote address** on the topic "Industry 4.0Technologies" for 1 hour duration, followed by Question- answer session.

## RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI

**Panel discussion** started on scheduled time 12 pm on 21st April 2022 on the topic Industry 4.0 technologies and Academia.

- Subhabrata Ghosal, Corporate Advisory | Infrastructure Development Specialist | Mumbai Univ. Adjunct Faculty ex-CEO TVS Infrastructure.
- Rajeev Nayyer, retired as the CEO and full time director of Essar Oilfield Services Pvt. Ltd.
- Prasad Ghag, Solution Architect, TCS Blockchain Services.
- Dr Sudhakar Mande, Member BOS in Electronics and Telecommunication,
   University of Mumbai. Professor at Department of EXTC, Don Bosco Institute of Technology Mumbai.
- Dr. Sanjay D. Deshmukh, Professor & Head of Department of Electronics and Telecommunication Engineering, Vice Principal - Rajiv Gandhi Institute of Technology, Mumbai.

Prof. Ankush Hutke moderated the discussion.



RGIT Codecell's Recursion Hackathon was a 24 hour Hackathon based on five different domains: Web development, App development, Machine Learning, IoT/Robotics. The hackathon made students ideate on the given problem statements to come up with optimal solutions. More than 80 teams registered for the event out of which 19 teams were shortlisted to participate. Prof Dilip Dalgade co-ordinated the event and was well supported by the CESS team

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**Research article presentation** event was conducted in eleven sessions. Preparations started with the call for abstracts; 140 abstracts were received out of which 117 were accepted. The next step was the call for papers, and out of 105 papers submitted by authors, 73 were accepted for oral presentations.



The conference maintained a high-quality peer-review process for all the manuscripts submitted, starting with a primary evaluation that included a plagiarism check for the original contents. Blind review process was employed, where the reviewer remained anonymous to the authors throughout the process.

Selected research papers have been compiled and edited in the form of Conference Proceedings. ICEI4.0 collaborated with 'Journal of Engineering Project and Production Management' which is Scopus Indexed International Journal.

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Day 2 started with the **Second Key-note** talk of Dr Guruprasad Rao, the eminent scientist on the topic 3-D Technologies.

**Doctoral consortium** was conducted on the second day and third day. More than 30 entries received and were conducted in three tracks. Event Co-ordinator for the event was Dr. Poonam Sonar.

On the hand, **Industry 4.0 Success Stories** was conducted in seminar hall.

- Prashant Koranne, CEO Second Quadrant Consulting Solutions Pvt Ltd.
- Manoj Natrajan, CEO Goenvi Technologies Pvt Ltd, Mumbai
- Mr Gaurav Bhende, CEO Protton Synergy

were invited to speak on the implementation of Industry 4.0 success stories. It was hugely popular event and deliberations were interesting and well received by the audience. Dr Sunil Wankahde coordinated the event and was well supported by the team.

Later in the evening, **CEO Meet** was conducted. Topic for CEO Meet on '**Embracing Industry 4.0 Indian Industries** – **Challenges**'. The discussion was steered and moderated by conference chair and Principal Dr Sanjay Bokade. The Event was Coordinated by Dr. Kiran Chaudhari and Supported by the team. The event was appreciated by many and was attended by Directors, HR's of Industries, Faculty and Final Year Students.



### **DAY 03**

Closing Day began with **Quiz event**. It received forty plus entries and was conducted in

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three stages. Meticulous planning was done to carry out the event. A total of three top ranked participants were selected for cash prizes. Dr Jyoti Deshmukh coordinated the event and was well supported by the team.



Over 150 delegates, more than 10 CEOs, Representatives from various organizations, HRs of various companies, teaching fraternity from various colleges attended the conference. Session chairs, eminent personalities were invited in capacity as judges. Students of our Institute and other distinct colleges were in presence over a period of three days during the conference. At the outset it was a very successful conference. The International Conference on Embracing Industry 4.0 Technologies for Sustainable Growth (ICEI 4.0) was concluded

This event was designed to bridge the curriculum gap between industry and academics. Additionally students and mentors were given a chance to gain an insider's perspective into the industry 4.0 wherein the mentors shared the directions on what to expect from the Industry 4.0 event. The technical and business session helped in networking and gaining some industry knowledge from exhibitors

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# Report on "ALUMNI SPEAK SERIES"

**Duration: 31July- 18 September, 2021** 

Venue: online platform-you tube, Zoom app

#### **Organized By:**

Department of Mechanical Engineering MCT's Rajiv Gandhi Institute of Technology Juhu Versova Link Road, Andheri (W) Mumbai-400053

#### **CHIEF PATRONS**

**Shri. Amit Deshmukh**, Secretary, Manjara charitable Trust

**Mrs. Aditi Amit Deshmukh**, Trustee, Manjara Charitable Trust

PRINCIPAL Dr. S. U. Bokade

HEAD OF DEPARTMENT Dr. R. V. Kale

Department Alumni COORDINATOR-: Prof. N.K. Deshmukh
Assistant Professor

Department Alumni Committee:- Prof. Parmeshwar Paul, Prof. Chetan Rane

Report Prepared By: Prof. N.K.Deshmukh

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### Report on

### "ALUMNI SPEAK SERIES"

Academic Year 2021-22

### **About the Institute**

The great visionary & philanthropist Hon. Vilasrao Deshmukh founded Manjara Charitable Trust in the year 1988. In 1992, the Trust started the college of Engineering at Airoli (Navi Mumbai) to meet the demand of engineering & technocrats in the country. The institute was renamed as Rajiv Gandhi Institute of Technology & shifted to the permanent campus in 2002. Over the past one & half decades, the Institute has marched towards the pinnacle of glory through its remarkable achievements & laurels in the field of Engineering Education. The institute is committed to impart quality education by ensuring practical, innovative, technology-driven delivery of the programs & creating outstanding managers & technocrats who make valuable contribution to the global business & society to suit their ever changing needs.

- Recognized by All India Council for Technical Education, New Delhi.
- "A" Grade awarded by Govt. Of Maharashtra.
- ISO: 9001-2008 Certified Institution.
- Permanently affiliated to University of Mumbai
- National Board of Accreditation (NBA) accredited undergraduate programs in Mechanical Engineering, Electronics & Telecommunication and Computer Engineering
- Institute offers 4-year degree engineering Courses in Mechanical, Electronics &Telecommunication, Information Technology, Computer& Instrumentation Engineering.
- Institute also offers PG Programs in Mechanical, Electronics & Telecommunication, Computer Engineering & Information Security.
- Institute offers Research Programme (PhD) in Electronics & Telecommunication, Computer & Mechanical Engineering.

#### **Department of Mechanical Engineering**

The Department of Mechanical engineering was established since inception of this institute in 1992. The department offers B.E., M.E. program in Heat Power & PhD Program. A team of highly qualified & experienced staff is the major strength of this department. The Department focuses on cutting edge technologies & updates the faculty about the current trends in the field of Mechanical engineering. The academic leadership of department aims at preparing students for the better & secure future.

**Date**: 12 /01 /2022

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The undergraduate program B.E. (Mechanical) of the department is accredited by National Board of Accreditation since July 2014 and reaccredited up to 30 June 2021.

### **About "Alumni Speak Series"-**

Department of Mechanical Engineering has organized online Alumni Webinars named "Alumni Speak Series" to provide the virtual platform to alumni to express their experiences, insights and share knowledge to the present students. Under this series, department invited distinguished senior alumni. This series also offered opportunity to the students to learn & get updated ,motivated in this present covid -19 pandemic situation.

### Objective of Alumni Speak Series-

- ➤ To provide the virtual platform to alumni to express their experiences, insights and share knowledge to the present students.
- ➤ To create awareness among the mechanical engineering students about exploration of career opportunities in interdisciplinary fields.
- ➤ To familiarize with the latest technological development in engineering field.
- ➤ To establish the linkages with industries with the help of alumni and thereby promote Training and placement activities of mechanical engineering department.

#### **About Participants-**

Students joined online by you tube as well as Zoom app students from various Engineering and Technological Institutes from India. Live streaming was done on "MCT'S RAJIV GANDHI INSTITUTE OF TECHNOLOGY MUMBAI YOU TUBE CHANNEL" as well as "ZOOM APP."

Participation for all was free of cost.

Registration link URL:https://forms.gle/Xt8i8pesAXh1Shfa8

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### **Organizing & Technical Team-**

Prof N.K Deshmukh ,Prof.Parmeshwar Paul, Prof.Chetan Rane,Prof.Rehan Siddique,Ms.Kajal Vartak

**Student Team**- Akash Tandel ,Maaz Shaikh, Rutuja Pagar, Vaishnavi Wagh, Pranav Prabhu, Mohd.Rafi Jalgaonkar, Ishita Kale, Yesh Mestry, Bhavana Kolkondi

#### **Department Invited -----**

- SPEAKER 1 -Ms. Anagha Bhide--(Alumni Batch 2010)- (Director -Bhide's Institute of Testing Technology Pvt.Ltd.,Panvel & Proprietor-North Star Enterprises,Panvel) on dated 31July 2021(Time-11:00AM)
- > Topic -"Non-Destructive testing & Career opportunities in Industries".

Zoom Meeting-:

https://zoom.us/j/94120306023?pwd=MXlBMkVzbURqSXZCclY4M1Y4c0dm Zz09

Meeting ID: 941 2030 6023 1480, Password: 123456

You tube Link: https://youtu.be/j\_VLzjGDYhU

### Flow of "Alumi Speak Series"

Department alumni student team member Mr. Maaz Shaikh, formally opend the session by welcoming all. He invited Dr. R. V. Kale, Head of Mechanical Engineering Department, to introduce Ms. Anagha Bhide & to share his views. Dr. R. V. Kale, Head of Mechanical Engineering Department, formally welcomed Ms. Anagha Bhide, Principal Dr.S.U.Bokade, Vice Principal S.D. Deshmukh, department alumni coordinator Prof.N.K.Deshmukh, all HOD's, all the participants and shared objectives of the program & then he introduced Ms. Anagha Bhide to the attendees and He requested to all participants to enrich their knowledge by effective participation. After that Mr. Maaz Shaikh invited Ms. Anagha Bhide to start her session. After wonderful session, Ms. Anagha Bhide answered the questions of participants in Q/A sessions. At the end, student team member Ms.Rutuja Pagar thanked Ms.Anagha Bhide, All participants, HOD's & Principal Dr.S.U.Bokade, Vice Principal S.D. Deshmukh for kind support.

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- ➤ <u>SPEAKER 2</u>-Mr.Amod Khandekar: Deputy General Manager(Mechanical)

  -L&T Hydrocarbon Engineering Ltd, Mumbai -(Alumni batch 2001)
  (Deputy General Manager(Mechanical) –L&T Hydrocarbon Engineering

  Ltd, Mumbai) on dated 08 August 2021(11:00AM)
- Topic- "Global Career Opportunities in Oil & Gas Sector"

Zoom Meeting:

https://zoom.us/j/92765658827?pwd=RHZJb3A5UExKOFhiVnFCMURBTUUrdz09

Meeting ID: 927 6565 8827, Password: 123456

Youtube Link - https://youtu.be/WxCljyvPsbc

### Flow of "Alumi Speak Series"

Department alumni student team member Ms.Vaishnavi Wagh opened the session by welcoming Mr.Amod Khandekar & Principal Dr.S.U.Bokade , Vice Principal S.D. Deshmukh ,HOD's,all the participants. She invited Dr. R. V. Kale, Head of Mechanical Engineering Department, to introduce Mr.Amod Khandekar & to share his views. Dr. R. V. Kale, Head of Mechanical Engineering Department, formally welcomed Mr.Amod Khandekar, Principal Dr.S.U.Bokade ,Vice Principal S.D. Deshmukh ,department alumni coordinator Prof.N.K.Deshmukh ,all HOD's ,all the participants and shared objectives of the program & then he requested to all participants to enrich their knowledge by effective participation. After that Ms.Vaishnavi Wagh introduced Mr.Amod Khandekar & invited Mr.Amod Khandekar to start his session. At the end of session, Mr.Amod Khandekar answered questions of participants in Q-A session. Student team member Mr Pranav Prabhu proposed vote of thanks to Mr.Amod Khandekar,All participants, HOD's & Principal Dr.S.U.Bokade, Vice Principal S.D. Deshmukh for kind support.

- SPEAKER 3-Mr.Manojj Natarrajan:-(Alumni Batch 2000)- (Director, Goenvi Technologies Pvt. Ltd., Thane) on dated 18th September 2021(Saturday) (Time 11:00AM) on
- > Topic- "Entrepreneurship"

ZoomMeeting\*:https://us06web.zoom.us/j/89760169200?pwd=b29jYW9yWGh

5NGt6U3hCUExzc0ZlUT09 Meeting ID\*: 897 6016 9200

Password\*: 123456

You tube Link: https://youtu.be/z95fffK9tYw

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### Flow of "Alumi Speak Series"

Department alumni student team member Mohd.Rafi Jalgaonkar opened the session by welcoming Mr.Manojj Natarrajan & Principal Dr.S.U.Bokade , Vice Principal S.D. Deshmukh ,HOD's,all the participants.He invited Dr. R. V. Kale, Head of Mechanical Engineering Department, to introduce Mr.Manojj Natarrajan & to share his views. Dr. R. V. Kale, Head of Mechanical Engineering Department, formally welcomed Mr.Manojj Natarrajan , Principal Dr.S.U.Bokade ,Vice Principal S.D. Deshmukh ,department alumni coordinator Prof.N.K.Deshmukh ,all HOD's ,all the participants and shared objectives of the program & he requested to all participants to enrich their knowledge by effective participation. After that Mohd.Rafi Jalgaonkar introduced Mr.Manojj Natarrajan & invited to start his session. At the end of session Mr.Manojj Natarrajan answered questions of participants in Q-A session. Student team member Ms.Ishita Kale proposed vote of thanks to Mr.Manojj Natarrajan, All participants, HOD's & Principal Dr.S.U.Bokade,Vice Principal S.D. Deshmukh for kind support.

### FLYERS for "ALUMNI SPEAK SERIES" ---



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# <u>From Department Alumni Coordinator Prof.N.K.Deshmukh - Expression of Gratitude-</u>

I ,Prof.N.K.Deshmukh deem it a great honour to propose the vote of thanks to all who have helped in making "Alumni Speak Series" such a resounding success.

I would like to propose hearty vote of thanks to all our distinguished and respected alumni namely, Ms.Anagha Bhide,Mr.Amod Khandekar, Mr.Manojj Natarrajan for taking their precious time out and accepting invitation of this event.Indeed alumni's words of experience and encouragement will definitely inspire students to seek job in various fields of engineering.

The event like this can not happen overnight. The wheels start rolling a month ago. It requires planning and birds eye details. I take this opportunity to thanks our organizing and technical team members for their amazing work behind the curtain.

I would like to express my profound gratitude to our Principal Dr.S.U.Bokade,Vice Principal Dr. S.D.Deshmukh,Head of Department Dr.R.V.Kale for constant guidance and support to this event.

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I must mention my deep sense of appreciation to wonderful students & participants