

ACTIVITY REPORT BOOK JULY 2021-JULY 2022

MANJARA CHARLTABLE TRUST

RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI

(Permanently Affiliated to University of Mumbai)

Program Outcomes (PO) Engineering Graduates will be able to:

- **PO1** Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO2 Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO3 Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO4 Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **PO5** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- **PO6** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **PO7** Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO11 Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- PO12 Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI

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Department of Mechanical Engineering

Vision

To create competent technical professionals in Mechanical Engineering with ethical behaviour and environment consciousness.

Mission

- To provide contemporary and cutting-edge technical education in Mechanical Engineering.
- 2. To provide an ambience which nurtures research ideas in futuristic domains of Mechanical Engineering.
- 3. To initiate project based learning and practical exposures in the area of Mechanical Engineering.
- 4. To direct faculties in research and consultancy / advisory roles.
- To establish strong linkages with well-known national and international technical institutes.
- 6. To promote the culture of imbibing environmental care and eco-friendly designs.
- 7. To become a department of aspiration & choice.

Program Educational Objectives (PEOs)

PEO1: To prepare the stakeholder to exhibit leadership qualities with demonstrable attributes in lifelong learning to contribute to the societal needs.

PEO2: To make ready the stakeholder to pursue higher education for professional development.

PEO3: To help the stakeholder to acquire the analytical and technical skills, knowledge, analytical ability attitude and behavior through the program.

PEO4: To prepare the stakeholders with a sound foundation in the mathematical, scientific and engineering fundamentals.

PEO5: To motivate the learner in the art of self-learning and to use modern tools for solving real life problems and also inculcate a professional and ethical attitude and good leadership qualities.

PEO6: To prepare the stake holder to able to Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

Program Specific Outcomes (PSOs)

PSO1:Successful Career and Entrepreneurship: Graduates will be able to understand the social-awareness and environmental wisdom along with ethical responsibility to have a successful career and to sustain passion and zeal for real-world applications using optimal resources as an entrepreneur.

PSO2: Hobbies and Career: Graduates have nurtured their hobbies which are useful in their specific chosen career.



Dated: 10/02/2022

Report of Student Body ASME-RGIT for Academic Year 2021-2022

1. Name of Chairperson : Pranav Prabhu

2. Name of Coordinator: Prof Amol Mangrulkar ae

3. Academic Year: 2021-22

4. Total no of Activities conducted: 07

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 2021-22 we organise the various events which are given below.

Sr no	Name	Date	Resource person	Worksho p/ Webinar / Seminar	Remark	
ODI	ODD SEMESTER					
1	Unlock the power of Linkedin	09/09/2021	Tejas Sawant Linkedin Expert and Instrumentati on engineer	Seminar	Academitia	
2	'4D Printing: New dimension in manufacturing ?'. '	18/09/2021	Mr Amit Ghule CoFounder of Simpliforge technologi es, Mumbai	Seminar	To Boost knowled ge 3 D Printing	

3	HPVC CHALLENGE	01/10/2021	Team Members	Competitio n	To boost Technical Knowledge
4	Unlocking Industrial Potential of Digital Twin	04/10/2021	Dr Santosh B. Rane Dean, SPCE, Mumbai	Seminar	Academitia

5	webinar on 'MS in abroad'	02/10/2022	MakinGrad Overseas Education Consultan ts Pvt Ltd, Mumbai	Webinar	Industry Resource person
6	webinar on Opportunity 'MBA IN INDIA'.	13/10/2021	Mr. Vishesh Nadiyana (IIM C Alumnus). This	webinar	Industry Resource person
7	Know Your Branch	08/12/2021	ASME Team	Orientation	Orient students about asme activities
8	Webinar on Energy Conservation'.	18/12/2021	'Saikat Das', Energy Analyst and Strategists	Webinar	Industry Resource person
9	WORKSHOP ON NX-CAD	24/01/2022 to 01/02/2022	Mr. Prasad Mastakar	Workshop	Alumni train to students

10	Inaugural Day	16/02/2022	Members	Celebration	
11	Workshop On Solidworks	28/03/2022 to 30/03/2022	Vinayak Bhatt	Workshop	Alumni to train students
12	ICEI 4.0 International Conference	21-23/04/22	Success stories and doctorial consortium	Conference	Be part of event

Thanking You,

Prepared By

Mr. Pranav Prabhu

Prof Amol L.

Mangrulkar

[ASME Chair Person]

ASME Coordinator

Dr. Rajesh V. Kale

HOD

SENIOR CORE 2021-22

POSITION	NAME
Chairperson	Pranav Prabhu
Vice Chairperson	Chaitali Parab
Managing Director	Rutuja Pagar
General Secretary	Maaz Shaikh & Tejas Moolya
Treasurer	Sanghavi Vavekar
Event Management Secretary	Rutuja Chavan
Public Relations Secretary	Diksha Muneshwar
Technical Secretary (1)	Sahil Pillikandlu
Technical Secretary (2)	Vaishnavi Wagh
Documentation Secretary	Swagat Das
Logistics Secretary	Siddesh Parab
Marketing Secretary	Sulaiman Mohamed Afsal
Digital Creative Secretary	Siddhi Raskar
Knowledge Hub Secretary	Krushnakant Nalat
Visual Creative Secretary	Aniket Surve

JUNIOR CORE 2021-22

POSITION	NAME
Jt. Secretary	Ishita Kale
Jt. Secretary	Harshal Yeole
Jt. Managing Director	Omkar Parab & Sanaulla Ansari
Jt. Treasurer	Bhavna Kolkondi
Jt. Treasurer	Onkar Sudrik
Jt. Event Management Secretary (1)	Anushka Dhamankar
Jt. Event Management Secretary (2)	Niyati Vaidya
Jt. Event Management Secretary (3)	Yash Mestry
Jt. Public Relations Secretary (1)	Nisha Desai
Jt. Public Relations Secretary (2)	Vatsal Shanbhag
Jt. Public Relations Secretary (3)	Tejal Temkar
Jt. Technical Secretary (1)	Arun Kunchumuthu

Jt. Technical Secretary (2)	Aryan Bhalerao
Jt. Technical Secretary (2)	Mohammedrafi Jalgaonkar
Jt. Documentation Secretary (1)	Venkatesh Kanole
Jt. Documentation Secretary (2)	Prathamesh Mainkar
Jt. Logistics Secretary (1)	Rugved Raote
Jt. Marketing Secretary	Joyson Neelkumar
Jt. Marketing Secretary	Jai Padaya
Jt. Digital Creative Secretary (1)	Shruti Shirke
Jt. Knowledge Hub Secretary	Kalpesh Kadam
Jt. Visual Creative Secretary	Prithvij Kakade

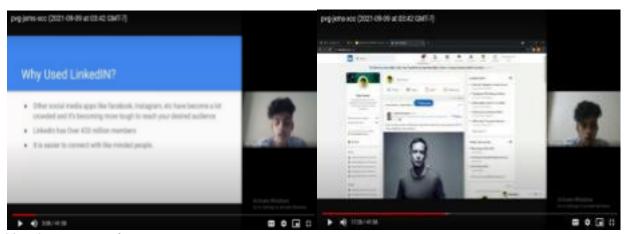
EVENT SUMMARY

UNLOCK THE POWER OF LINKDIN

Date: 09th September 2021

Time: 4:00pm to 5:00 pm

ASME-RGIT had organized a Webinar on 'Unlock the power of Linkedin' on 9th September, 2021 to demostarte their Konwledge and leadership expertise and to build Professional Linkedin profile. The webinar was exclusive for ASME members only. The webinar was free of cost. It was conducted by ASME member.



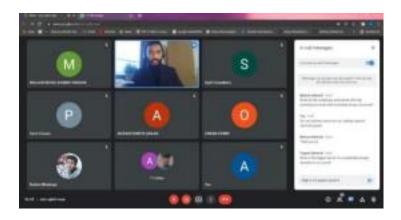
- · Selection of profile photo
- · Things should not to be mentioned
- · How to present your skills
- · How to connect with industries using Linkedin
- Job hunting

WEBINAR ON ENERGY CONSERVATION

Date: 11th December 2021

Time: 4:00-5:00

ASME-RGIT had organized a Webinar on 'Energy Conservation using Engineering Efforts' on 11th December, 2021 to raise awareness about the engineering efforts that could be taken towards saving energy resources. Total **40** students attended this webinar.



- · National and Global Engineer's efforts towards saving Energy Resources · Importance of saving energy
- · How to use the energy to its maximum potential
- · Better ways towards saving energy resource
- · How to efficiently shift towards renewable energy sources.

4D PRINTING: NEW DIMENSION IN MANUFACTURING?

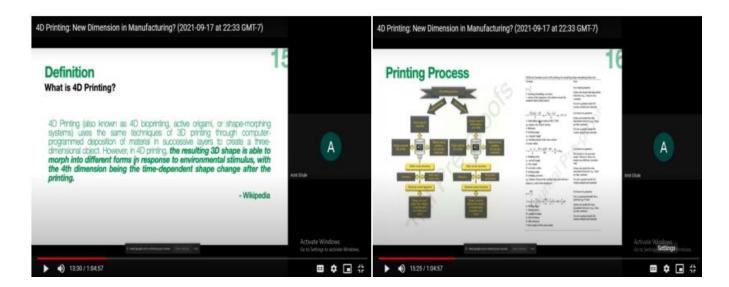
Date: 18th September 2021

Time: 4:00pm to 5:00pm

ASME-RGIT had organized a Webinar on '4D Printing-New Dimension in manufacturing?' on 18th September, 2021 to demonstrate their Industrial Knowledge and 4D Printing experience. The webinar was open for all the ASME & NON-ASME members. It was a free webinar conducted by ASME member. Total **240** students attended this workshop.



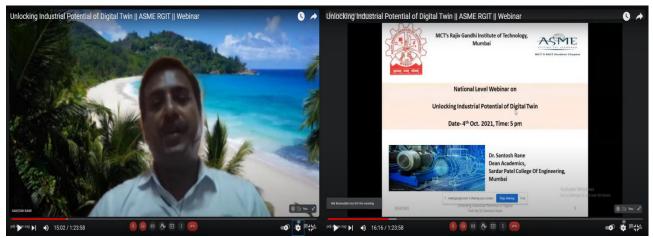
- · Introduction of 4D printing technology
- · Principles and laws of 4D Printing
- · Process of making an object from 4D Printing and leveraging the aspect of the fourth dimension
- · Software and hardware required for 4D Printing
- · Explained the applications of 4D Printing in brief



UNLOCKING INDUSTRIAL POTENTIAL OF DIGITAL TWIN

Date: 4th October 2021

Time: 5:00pm to 6:00pm



ASME-RGIT had organized a Webinar on 'Unlocking Industrial Potential on Digital Twin' on 4th October, 2021 to demonstrate their Industrial knowledge and experience. Total **60** students attended this webinar. The webinar was open for all the ASME and NON-ASME members.

- · Introduction and principle of digital twin.
- · Concepts & Types of 'Digital Twin'
- · Digital twin in automotive value chain.
- · Role of digital twin in product development life cycle.
- · Digital twin vehicle services and parts.
- · Case study of manufacturing for digital twin

WEBINAR ON MS IN ABROAD

Date: 2nd October 2021

Time: 4:30pm to 5:30pm

We, the undersigned members of ASME RGIT in collaboration with MakinGrad Overseas Education Consultants Pvt Ltd endeavor to conduct a webinar on 'MS in abroad' on 2nd October 2021 at 4:30 PM on Google Meet platform. This seminar will include everything regarding masters in abroad universities and will be conducted by Ms Nidhi Rangari and Mr Abhijeet Bhati. Total **90-100** students attended this webinar.

WEBINAR ON OPPORTUNITY 'MBA IN INDIA'

Date: 13th October 2021

Time: 4:30 pm to 5:30 pm

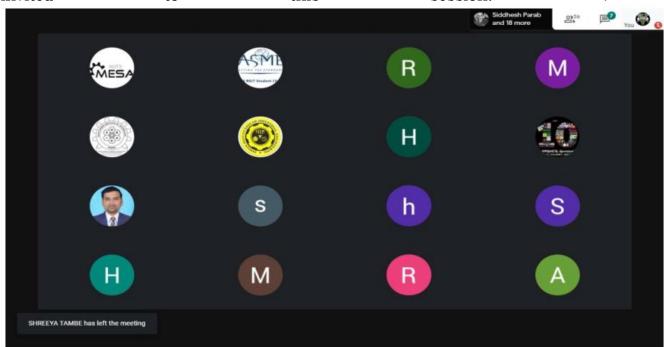
We, the undersigned members of ASME RGIT would like to conduct a webinar on 'MBA IN INDIA'. Host for the webinar is Mr. Vishesh Nadiyana (IIM C Alumnus). This webinar will be conducted on 13th October at 4:30 PM. This webinar will present students with information about MBA entrances tests in India, colleges in India, Specializations in MBA and important topics covered in CAT and other MBA entrances. Total **100** students attended this webinar.

KNOW YOUR BRANCH

Date: 20th September 2021

Time: 5:00pm onwards

Mechanical Engineering Department had organized a one day session on 'Know Your Department' on 20th September, 2021 to get better Understanding of Mechanical Department and to get to know about students Technical Bodies and their work. All the students from Mechanical Department were invited to this session.



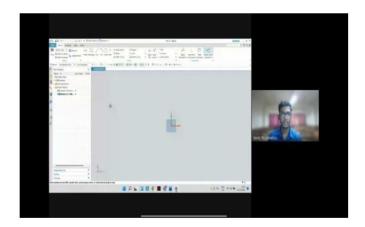
- · Introduction to ASME RGIT committee
- · Mentioned their prior successful events
- · Mentioned about their future endeavor.
- · Talked about ASME's monthly theme based events.
- · Introduced 'Knowledge Hub'
- · Introduced 'Skill Development Hub' and Benefits of joining ASME

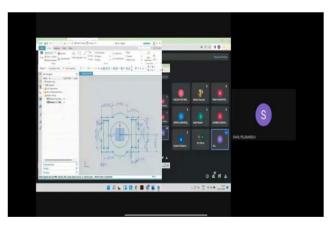
WORKSHOP ON NX CAD

Date: 24th Jan to 29th Jan

Time: 3:00pm to 5:00pm

ASME-RGIT had organized a Webinar on 'NX CAD Software 12.0' from $24^{\rm th}$ Jan to $29^{\rm th}$ Jan 2022, for better understanding of basic CAD sketching , modelling and assembly in a task environment. The webinar was open for all the ASME & NON-ASME members. The webinar costed INR400 for ASME members and





INR500 for non ASME members. It was conducted by ASME members. Total **40** students attended this workshop.

- · Introduction to NX CAD and Basic Sketching
- · Commands of sketching in a task environment.
- · Learn Synchronous modelling, Assembly
- Drafting a project
- · 3D modelling features
- · Synchronized modelling.