

### **MCT'S RGIT Student Chapter**

### **ACTIVITIES REPORT BOOK**

Academic Year 2020-2021

PROF. AMOL MANGRULKAR
FACULTY ADVISOR

DR. RAJESH V. KALE HEAD OF DEPARTMENT

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

(Permanently Affiliated to University of Mumbai)
DEPARTMENT OF MECHANICAL ENGINEERING



#### RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI

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#### 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.

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### **Department of Mechanical Engineering**

#### Vision

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

#### Mission

- 1. 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.
- 5. 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.

### LIST OF EVENTS/WORKSHOPS CONDUCTED BY ASME IN THE ACADEMIC YEAR 2020-21

SR.NO	EVENT NAME	DATE	SPEAKER/ORGANISER
1.	E- WORKSHOP ON INVENTOR	29/08/2020- 30/08/2020	MR. MOHNISH RAUT (TREASURER ASME RGIT)
2.	CELEBRATION ON TEACHER'S DAY	05/09/2020	MR. DEVAM MHATRE (CHAIRPERSON ASME RGIT)
3.	E-WORKSHOP ON SOLIDWORKS	16/10/2020- 18/10/2020	MR. SWAGAT DAS (JT. DOCUMENTATION SECRETARY ASME RGIT) MR. SAHIL PILIKANDLU (JT. TECHNICAL SECRETARY ASME RGIT) MS. VAISHNAVI WAGH (JT. SECRETARY) MR. NIKHIL SANKHE (TECHNICAL SECRETARY) MR. ANKIT SARFARE (KNOWLEDGE HUB SECRETARY)
4.	E- WORKSHOP ON PHOTOSHOP	31/10/2020- 01/11/2020	MR. MIHIR RAONE (DIGITAL CREATIVE SECRETARY ASME RGIT) MS. RUTUJA PAGAR (JT. DIGITAL CREATIVE SECTETARY)
5.	ASME FOUNDERS DAY	12/02/2020	MR. DEVAM MHATRE (CHAIRPERSON ASME RGIT)

### DEPARTMENT OF MECHANICAL ENGINEERING

6.	E- WORKSHOP ON CREO	19/02/2021 - 21/02/2021	MR. NAVEEN GUPTA
7.	INTERNSHIP ON REVERSE ENGINEERING AND 3D PRINTING	18/04/2021 - 25/04/2021	MR. AMIT GHULE (CEO, SIMPLIFORGE CREATIONS PVT. LTD.)
8.	E- WORKSHOP ON ELECTRIC VEHICLES	01/05/2021	MR. SUHAS JOSHI (REPRESENTATIVE OF ROSEFIELD PVT. LTD.)

### **ASME RGIT STUDENT COMMITTEE 2019-20**

SR. NO	POST	NAME	YEAR
1.	CHAIRPERSON	DEVAM MHATRE	B.E.
2.	VICE CHAIRPERSON	PRANAV PALKAR	B.E.
3.	SECRETARY	CHINMAY REGE	B.E.
4.	TREASURER	MOHNISH RAUT	B.E.
5.	DIRECTOR OF OPERATIONS	NIKITA PATIL	B.E.
6.	ASST. DIRECTOR OF OPERATIONS	MAAZ SHAIKH	T.E
7.	EVENT MANAGEMENT SEC	JAY MISTRY	B.E.
8.	EVENT MANAGEMENT SEC	BHOOMI MUKADAM	B.E.
9.	PUBLIC RELATIONS SEC	SHIVANI MAYEKAR	B.E.
10.	MARKETING SECRETARY	RAHUL MORE	B.E.
11.	TECHNICAL SECRETARY	SAKSHI SOLANKE	T.E.
12.	TECHNICAL SECRETARY	NIKHIL SANKHE	B.E.
13.	DOCUMENTATION SECRETARY	SHUBHAM SATHE	B.E.
14.	LOGISTICS SECRETARY	PRASHANT GUDUR	B.E.
15.	DIGITAL CREATIVE SECRETARY	MIHIR RAORANE	B.E.
16.	KNOWLEDGE HUB HEAD	ANKIT SARFARE	B.E.
17.	VISUAL CREATIVE SECRETARY	PRANAV PRABHU	T.E.

### DEPARTMENT OF MECHANICAL ENGINEERING

SR. NO	POST	NAME	YEAR
18.	JOINT SECRETARY	ATHARVA BODKE	T.E.
19.	JOINT SECRETARY	ARUSHI KALRA	T.E.
20.	JOINT SECRETARY	VAISHNAVI WAGH	T.E.
21.	JOINT TREASURER	TEJAS MOOLYA	T.E.
22.	JOINT TREASURER	PRAPTI LAD	T.E.
23.	JOINT TREASURER	CHAITALI PARAB	T.E.
24.	JT. EVENT MANAGEMENT SEC	AAYUSH RAO	T.E.
25.	JT. EVENT MANAGEMENT SEC	AMAN MALI	T.E.
26.	JT. EVENT MANAGEMENT SEC	ROMESH KHOBRAGADE	T.E.
27.	JT. PUBLIC RELATIONS SEC	RUTUJA CHAVHAN	T.E.
28.	JT. PUBLIC RELATIONS SEC	SHREYA TAMBE	T.E.
29.	JT. PUBLIC RELATIONS SEC	DIKSHA MUNESHWAR	T.E.
30.	JT. TECHNICAL SECRETARY	SAHIL PILLIKANDLU	T.E.
31.	JT. TECHNICAL SECRETARY	SIDDHI RASKAR	T.E.
32.	JT. MARKETING SECRETARY	ROSHAN SHAH	T.E.
33.	JT. MARKETING SECRETARY	SULAIMAN MOHAMED AFSAL	T.E.
34.	JT. LOGISTICS SECRETARY	CHINMAY GAIKWAD	T.E.
35.	JT. LOGISTICS SECRETARY	PRITISH BAGUL	T.E.
36.	JT. LOGISTICS SECRETARY	ANIKET SURVE	T.E.
37.	JT. DOCUMENTATION SECRETARY	MAYURI GHADIGAONKAR	T.E.
38.	JT. DOCUMENTATION SECRETARY	SANGHAVI VAVEKAR	T.E.
39.	JT. DOCUMENTATION SECRETARY	SWAGAT DAS	T.E.

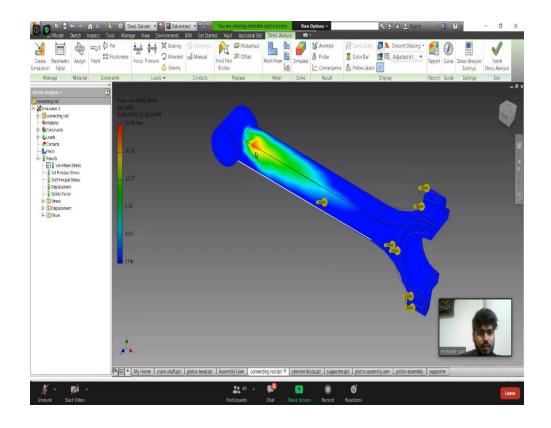
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40.	KNOWLEDGE HUB SECRETARY	SIDDHESH PARAB	T.E.	
41.	JT. DIGITAL CREATIVE SECRETARY	RUTUJA PAGAR	T.E.	
42.	JT. DIGITAL CREATIVE SECRETARY	GAURAVI MUNGEKAR	T.E.	
43.	JT. VISUAL CREATIVE SECRETARY	PRITISH BAGUL	T.E.	

### 'E- WORKSHOP ON INVENTOR'

DATE: 29th August 2020 and 30th August 2020.

PLATFORM: Zoom.



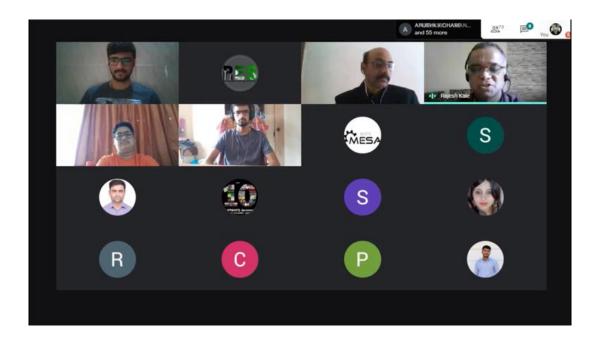
ASME-RGIT had organized a two-day workshop on Autodesk Inventor on 29th and 30th August, 2020 to enhance solid modelling, computer aided designing and analysis skills of students. Subject of the workshop was Piston-Cylinder assembly. The entries flooded in, with the total 54 number of participants. The cost of workshop was ₹89 per participants. It was conducted by Mr. Mohnish Raut, Rgit, Mumbai.

### 'CELEBRATION ON TEACHER'S DAY'

**DATE: 5th September 2020** 

TIME: 11:00 AM – 11:30 AM

**PLATFORM: Google Meet** 



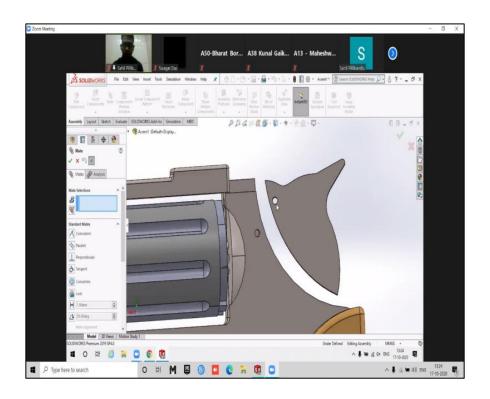
ASME-RGIT along with other student's committees of mechanical department had organized an online event on occasion of Teacher's day on 5th September 2020 to appreciate the hard work and diligent of professors, over years of teaching and training students. The event was hosted by Mr. Devam Mhatre, Chairperson, ASME-RGIT, Mumbai.

### 'E-WORKSHOP ON SOLIDWORKS'

DATE: 16th October 2020 to 18th October 2020.

TIME: 10.00 AM - 2.30 PM.

Platform: Zoom



ASME-RGIT had organized a three-day workshop on Solidworks on 16<sup>th</sup>, 17<sup>th</sup> and 18<sup>th</sup> October, 2020 to enhance solid modelling, computer aided designing and analysis skills of students. Subject of the workshop was Revolver Gun assembly. The entries flooded in, with the total 99 number of participants. The cost of workshop was ₹70 per participant. It was conducted by Mr. Nikhil Sankhe, Mr. Ankit Sarfare, Ms. Vaishnavi Wagh, Mr. Sahil Pilikandlu, Mr. Swagat Das, students of RGIT, Mumbai.

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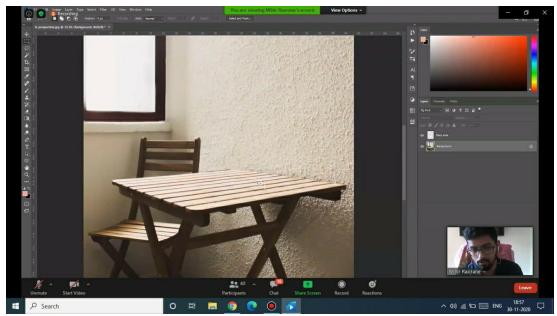
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### **'E-WORKSHOP ON PHOTOSHOP'**

DATE: 31st October 2020 and 1st November 2020.

TIME: 10.00 AM - 2.30 PM.

Platform: Zoom.



ASME-RGIT had organized a two-day workshop on Adobe Photoshop on 31st October, 2020 and 1st November, 2020 to enhance graphics editor skills of students. Subject of the workshop was Movie Poster Making. The entries flooded in, with the total 87 number of participants. The cost of workshop was ₹70 per participants. It was conducted by Mr. Mihir Raone and Ms. Rutuja Pagar, RGIT, Mumbai.

### Topics covered in the workshop are

- 1. Basic Photoshop
- 2. Social media template
- 3. Poster Making
- 4. Introduction to Curves
- 5. Editing of Cup

### 'ASME FOUNDERS DAY'

DATE: 12th February 2021

TIME: 11.00 AM - 2:30 PM



The event began with felicitation of our dignitaries. Then chairperson, Mr. Devam gave a speech showcasing the journey of ASME and the events and webinars conducted successfully. Furthermore, he invited our HOD Dr. R. V. kale and faculty advisor Prof. Amol Mangrulkar to shared their thoughts on the occasion. ASME RGIT also celebrated their faculty advisor Prof. Amol Mangrulkar's birthday.

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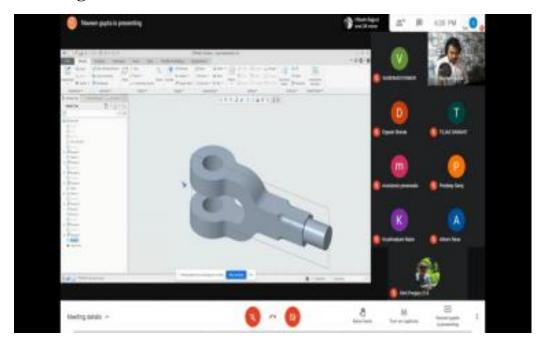
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### **'E-WORKSHOP ON CREO'**

DATE: 19th February 2021 – 21st February 2021.

TIME: 12.00 PM - 3.00 PM

Platform: Google meet.



ASME-RGIT had organized a three-day workshop on CREO on 19<sup>th</sup> ,20<sup>th</sup> and 21<sup>th</sup> February, 2021 to enhance solid modelling, computer aided designing and analysis skills of students. The entries flooded in, with the total 65 number of participants. The cost of workshop was ₹59 for ASME members and ₹99 for non ASME participants. It was conducted by ASME members.

### TOPICS COVERED IN THE WORKSHOP

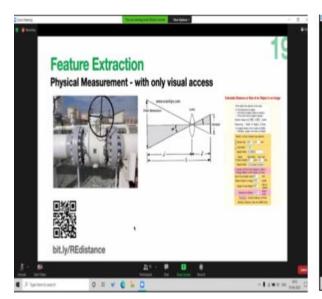
- 1. Importance of 2D drawing
- 2. Conversion of 3D drawing into 2D
- 3. Concept of projection
- 4. Design and assembly of knuckle joint
- 5. Assembly of radial engine

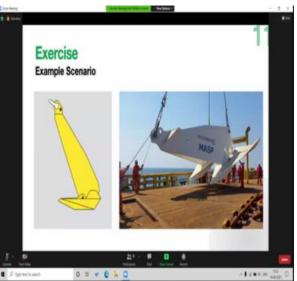
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### 'INTERNSHIP ON REVERSE ENGINEERING AND 3D PRINTING'

DATE: 18th April 2021 - 25th April 2021.

**PLATFORM: ZOOM** 





ASME-RGIT had organized a six-day internship on Reverse Engineering and 3D printing on 18th, 19th, 21st, 23rd, 24th and 25th April, 2021 to enhance their skills on real life projects and problem solving skills of students. The entries flooded in, with the total 86 number of participants. The event was conducted in collaboration with Simpliforge creations PVT. LTD. The event's speaker were MR. Amit Ghule and MR. Waseem Chaudhary. It was conducted by ASME and IEEE members.

#### TOPICS COVERED IN THE WORKSHOP

- 1. Introduction to Reverse Engineering
- 2. Reverse Engineering of External Geometries
- 3. 3D Printing to Production
- 4. Reverse Engineering of Internal Geometries
- 5. Reverse Engineering in domains and ethics

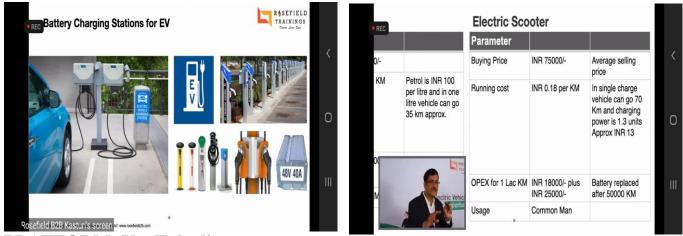
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### **'E-WORKSHOP ON ELECTRIC VEHICLES'**

**DATE: 1st May 2021** 

TIME: 3:00 PM - 4:15 PM



**PLATFORM: YouTube live** 

ASME-RGIT had organized a one-day workshop on "Electric Vehicles" on 1<sup>st</sup> May, 2021 to enhance knowledge of students. Total 257 students registered for the workshop. The workshop was free for all the students. It was conducted by ASME RGIT in collaboration with Rosefield Energy Tech.

#### TOPICS COVERED IN THE WORKSHOP

- 1. Introduction to Electric vehicle
- 2. Importance of Electric vehicle
- 3. Types of Electric vehicle
- 4. Charging of Electric vehicle
- 5. Battery Management system
- 6. Learning Opportunities