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DEPARTMENT OF MECHANICAL ENGINEERING



RGIT'S MESA ACTIVITIES REPORT BOOK

ACADEMIC YEAR 2020-21

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DEPARTMENT OF MECHANICAL ENGINEERING

OUR VISION

To be a vibrant student professional body in the Department of Mechanical Engineering, committed to realize holistic development of students through outcome and skill based transformative events.

OUR MISSION

- To develop practical skills in students by offering internships and providing industrial exposure to the students.
- To assist students in connecting with Industry professionals via our seminars and events.
- To assist students in exploring and learning various inter- disciplinary technologies.
- To assist students in learning event management skills.
- To assist students in developing excellent Communication skills.
- To make students aware of the latest Industrial technology and trends by conducting industrial visits all over India.

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CNC PROGRAMING

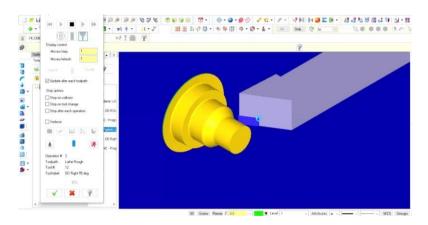
Date:-24th March 2021

Time:- 04:00PM to 06:00PM



RGIT's MESA focuses on technical skills and stuff related to mechanical engineering. The committee focuses on various section of student's development by keeping various seminars and webinars. The committee members focus on automation, computers, mechanics, mechanization and robotics etc. There was one day free workshop organized by committee members in association with Skyrider for CNC Programming for Beginners on 24th March 2021. The aim of webinar was to teach how manufacturing and programming for NX Cam is done. Numerical control is the automated control of machining tools by means of a computer. A CNC machine processes a piece of material to meet specifications by following a coded programmed instruction and without a manual operator directly controlling the machining operation.

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The webinar started with types of manufacturing, types of machines etc. The lecturer helped students with programming using Mastercam and NX Cam. The lecturer imparted a great deal of knowledge about this to mechanical engineering students. The webinar was free of cost and certificates for webinars were provided by association. Mechanical engineering is all about making machines that help reduce the effort expended by humans. The participant's interest was eye-catching by doubt session. The webinar ended by question and answer and queries section. The webinar was quite interesting and skillful. The certificates of the webinar were provided to the participants in the webinar. The participants were dispersed with a sincere hope that such events should be organized time and again giving the students a chance to learn and grow in technical stuff. In this same line, CNC programming is a tool that helps engineers automates the process of manufacturing. The count of participant for webinar was 100+ from all over India. The key element of the webinar was the applications and benefits of CNC in mechanical fields.

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LEAN SIX SIGMA

Date: -19th April 2021

Time: - 05:00PM to 07:00PM



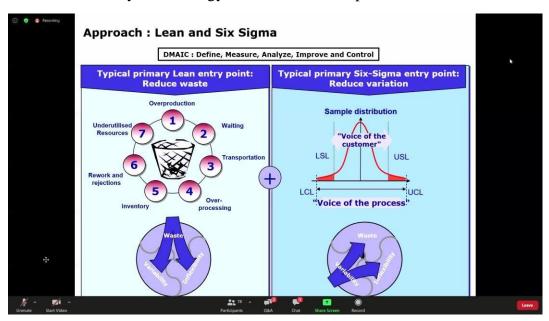
SWE RGIT in collaboration with RGIT'S MESA conducted a free webinar on LEAN SIX SIGMA YELLOW BELT TRAINING. The chief guest for the webinar was Mr. Amitabh Saxena.

He is Founder, CEO-Anexas Europe. Process Excellence Consultant, Author, Speaker, Poet. Master Black Belt & PMP Trainer. Helping organizations and individuals excel through powerful Lean Six Sigma. The Six Sigma Yellow Belt training was aimed at those new to the world of Six Sigma who has a small role, interest, or need to develop foundational knowledge. The webinar was conducted on 19 April 2021.

The chief guest told everyone about his company Anexas that it is a global network of lean six sigma and project professionals serving a wide spectrum of industries. They operate in 10 countries and had 25 professionals in the team. Its mission is to help organizations and individuals achieve excellence. They have trained more than 1,50,000 professions in lean six sigma.

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In the further part of the session, he made everyone aware of the benefits of lean six sigma in the different organizations and projects. While explaining its benefits he told everyone about the history of six sigma. Six Sigma was first started in Motorola Company in 1979. Sir explained to everyone about the basics of lean six sigma through different definitions and the role of DMAC in the process. Those definitions were explained using different day-to-day life examples like the use of standard deviation techniques in different departments of production in sanitizers, its use in the improvement of college placement percentages, etc. Root cause analysis was made understandable to everyone. Different charts were used to explain each and every terminology in the above examples.



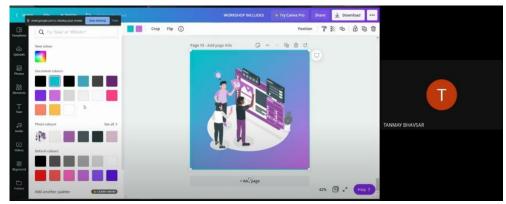
All about DMAC were explained through various charts models, diagrams, some examples relating to the industries. Even boxplot and scatterplot were used to clear all the concepts. The infrastructure of the roadmap to apply DMAC in the various process was explained to the students. Project Identifications, Prioritization, and Execution with the process owner and belts were explained. Different projects were discussed which used DMAC, like the use of DMAC to reduce the recruitments cycle in any company. Different Phases of the process using tools and techniques were explained. Coming to the end of the session the guest shared a really important message that communication skills are not much important as compared to the technical knowledge one possessed. Some tips on CV building and interview tips were also discussed. The session ended with thanks giving speech by the president of RGIT MESA Mr. Tanmay Bhavsar.

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STUDENT DEVLOPEMENT PROGRAM

Date:-2nd April 2021

Time:- 04:00PM to 07:00PM

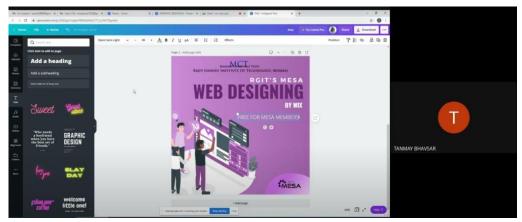


We RGIT's MESA organized online student development program for MESA members to introduce them and enhance their creativity through Graphic Design Course on 2nd April, 2021 through online meeting source Google meet and it was started by 4.00 pm. The webinar was hosted by MESA's President Tanmay Bhavsar and Digital creativity head Hrishik singh.

The session was started by interacting with participants by Hrishik, he asked them about their understanding about photoshop and poster making and participants also respond positively to it by sharing their knowing about the photoshop. Further Hrishik introduced the participants with different software's which were used for photoshop and poster making and their advantages and disadvantages over one another, then he introduced the Canva software which was majorly use by RGIT's MESA Digital Creativity Team.

Hrishik explained its advantages over other software's and introduced the various features of software to all participants. Also stated its importance while creating poster, book cover page, Instagram post, etc. He showed some of his past created poster to give participant's idea about the poster making. He then explained working of software by taking a small example which was relatively easy to understand to know the basics of Canva. Further Time was given to students to sign up in the software and exploring it.

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The Student development program was further continued by giving hand on experience of software to the participants. Further they were allocated with a small task for understanding the basic software use.

Now the session was continued by RGIT's MESA President Tanmay, he started introducing various features of software which were used by MESA's creativity team for making event posters. He explained the participants about the process of poster making, by using previously created poster of Web Designing event. He recreated the poster again to introduce the students about the process of creating the poster for event. He explained every step of it from inserting the images of different types to adding correct information for effective poster making.

At the end of the session every step was again repeated by every participant, and poster was made by help of all the participants. Lastly participants discuss their doubt regarding the software use and the Student Development Program on "Digital Creativity" was ended by thanks giving to all the participants.