

Newsletter



Jan-June 2020

> DEPARTMENT OF **MECHANICAL ENGINEERING**

Editorial Message

"Casting the world, Forging the campus, Shaping the universe, Welding the rest of all braches, Because, We are the Men, We are the machine, and we are Mechanical Engineers"

Heartily welcome to the 4th Edition of our Departmental Newsletter.

We are indeed very happy and proud in bringing this newsletter about the latest developments and programs under the banner of SMEA.

It is indeed a great pleasure to note that our Department is publishing the newsletter on half yearly basis on every aspect of activities and events held during the semester. The newsletter aims to bring into view various proceedings, functions, events, news, accomplishments and happenings in the Department.

News letter acts as a communication channel among the alumni, faculty, students and experts in Mechanical Engineering.

We are very much grateful to the Management, Rector and Principal for their continuous encouragement, inspiration and support extended for the release of this "NEWSLETTER"

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Vision, Mission & PEOs of Mechanical Engineering Department

Vision:

To build competent human resources towards self employability and lifelong learning in the field of Mechanical Engineering to overcome challenges.

Mission:

- 1. To provide students with comprehensive knowledge of Mechanical Engineering with a multi-disciplinary approach along with an intellectually stimulating environment for creativity, research, scholarship, innovation and professional activity.
- 2. To establish Industry-Institute interaction in order to contribute towards serving mankind.
- 3. To build career oriented graduates with multi-disciplinary fields.

PEOs:

- **PEO-01**: Engage successfully in Mechanical Engineering practice in industry, government, private, post-graduate courses or alternative career pathways.
- **PEO-02**: Able to apply the knowledge of mathematics, basic science, mechanical engineering and other allied branches to solve engineering challenges and engage themselves in dynamic engineering teams.
- **PEO-03**: Inculcate life-long learning and service for the betterment of society and the environment.



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DEPARTMENTAL ACTIVITIES

NIRMAAN 2020

Department of Mechanical Engineering of Sagar Institute of Science and Technology (SISTec) commenced its 8th Edition of signature event "Nirmaan 2020" at its Gandhi Nagar campus with conclave of Electric Vehicle Start-up.

It is organized by SISTec Mechanical Engineers Association (SMEA) under banner of Society of Automotive Engineers (SAE, India) & Indian Institution of Industrial Engineering (IIIE) Student Chapter in association with the The Automotive Research Association of India (ARAI) having SoEEM & UTD RGPV as its academic partner and sponsored by RGPV under TEQIP III.

The conclave was inaugurated by Dr. Sunil Kumar, Vice Chancellor Rajiv Gandhi Proudyogiki University.



'Nirmaan 2020' begins at Sagar campus

STAFF REPORTER BHOPAL

Department of Mechanical Institute of Science and Technology (SISTec) commenced its 8th edition of signature event "Nirmaan 2020" at its Gandhi Nagar campus with conclave of Electric Vehicle Start-up.

Start-up. It was organised by SISTec Mechanical Engineers Association (SMEA) under banner of Society of Automotive Engineers (SAE, India) & Indian Institution of Industrial Engineering (IIIE) Student Chapter in association with Automotive Research Association of India (ARAI) having SoEEM & UTD RGPV as its academic partner and sponsored by RGPV under TEOIP III.

TEOIP III. The conclave was inaugurated by Dr Sunil Kumar, Vice Chancellor Rajiv Gandhi Proudyogiki University in presence of Managing Director Sagar Group - Siddharth Sudhir Agrawal, Dr Keshvendra Choudhary -Principal SISTee, Dr Kuldeep



Ganju – Principal SIPTec, Dr Swati Saxena - Vice Principal SISTec, Dr Abhishk Tripathi -Dean SISTec MBA, Dr Ravishanker Choudri – HoD Mechanical Department, BS Kushwah - Sr Administrator SISTec and technocrat students.

dents. 'Nirmaan 2020' aims to provide special insights on lifecycle of E-Vehicle Start-up right from the ideation stage and comprise of workshops. panel discussions, presentations, innovative case studies, start-up case studies, policies and business models by the industry experts from World Auto Forum, Mad About Wheels, ARAI Academy etc. In next two days, technocrats will apply the pedagogical approach for development of e-vehicle with innovation, application of technology, support ecconomic development strategies for husiness development with technology transfer among various participants of conclave. The conclave will focus on electronic vehicles - Electricity sources and Energy storage options, its components, motors and batteries, charging options, Plug-in Charging stations, battery management, merits & demerits, Government incentives, subsidies, promotions, current mardet, sutations, sustainability and future strategies of Electric Vehicles. Nirmaan 2020' also witnessed exhibit of E-Vehicle of 28 teams and participation of 028 teams and participation of 28 teams and participation of 28 teams and participation

E-vehicle design, innovaion, prototype, battery anagement system, economical with sest business plan with excitng prizes to be won upto Rs 1

lakh. Speaking on the occasion, Sunil Kumar said, "I congratulate SISTec for successfully organizing "Nirmaan 2020 to ignite the young minds and invoke innovative ideas. The specific EV conclave is unique as it provides opportunities to create future technologies."

Webinar on "Development of CO2 based Adsorption Cooling System"

Department of Mechanical Engineering SISTec Gandhi Nagar organized Webinar which was based on the topic "Development of CO2 based Adsorption Cooling System" delivered by Dr Vinod Kumar Singh, Assistant Professor from Madanapalle Institute of Technology & Science which is located in Andhra Pradesh.



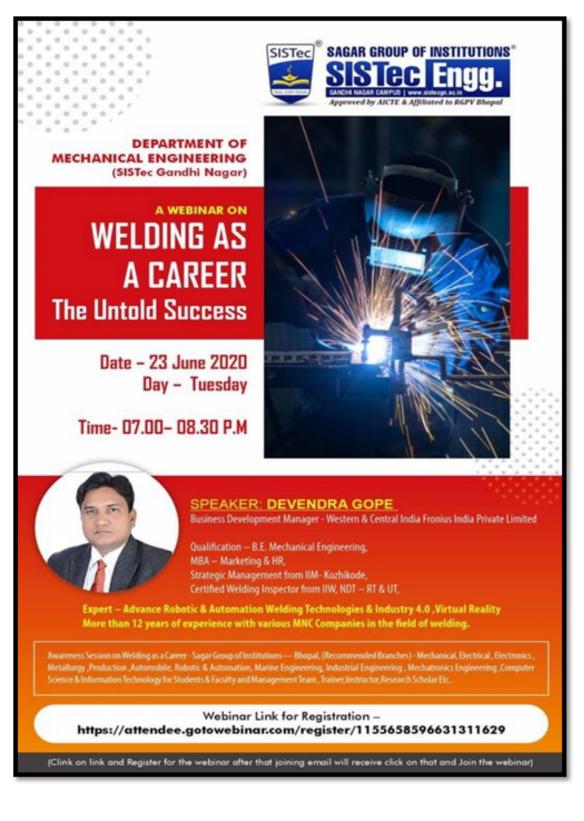
Series of Webinars organized by Mechanical Engineering Dept SISTec Gandhinagar

Webinar on "Mechanical Engineering: A Boon to Serve the Mankind Post Covid-19" organized by Dept. of Mechanical Engineering, SISTec Gandhi Nagar. Eminent experts like Mr. Vinay Piparsania (Founder & CEO Principal Millen Strat), Mr. Anuj Guglani (CEO, Word Auto Forum), Mr. Amresh Khar (Co-Founder & CEO, Mad About Wheels) delivered the lectures.



Webinar on Welding As a Career- The Untold Success

This webinar was focused on creating Awareness on Welding as a Career for Mechanical, Electrical, Electronics, Metallurgy, Production, Automobile, Robotic & Automation, Marine Engineering, Industrial Engineering, Mechatronics Engineering, Computer Science & Information Technology for Students & Faculty.



STUDENT ACTIVITIES

Industrial Visit to SNPL (Sagar Nutriments Private Limited)

Students witnessed an amazing process through which lots of Rice is prepared in SNPL (Sagar Nutriments Private Limited). At first the raw material as paddy goes through the Husker then paddy separator, destoner, thickness grater and then followed by whitener in the last stage. The unwanted top most layer of the raw material is removed in the husker. Paddy separator removes the paddy from the rice. Mean while the destoner removes dust and small stones from the rice. After that, the rice is graded according to the thickness in the thickness grater, then it is loaded in the whitener to polish the rice and then finally it is dispatched. Also the rice is collected and separated according to its colour like red, black, yellow by applying 2.5 GPA pressure and this pressure is applied thought air.



Industrial Visit to the Sanchi Milk Processing Pvt Ltd

Students of Mechanical Engineering Department had an Industrial Visit to the Sanchi Milk Processing Pvt Ltd which was a wow learning experience for them.

Industry has capacity to produce 4 Lakh Litres of only drinkable milk daily. They also used to produce Paneer and Ghee. Raw milk is brought to the industry from the nearly villages and then processed to final stage for selling. There are many laboratories where milk is tested regularly and if it is found okay as per the standards then the process is initiated. Tests like Urea, Fat, Sucrose and Fructose tests are done to categorize pass out milk and product milk.



Industrial Visit to the L. M. Bakers Pvt Ltd, Manufacturer of Parle Products, Mandideep Bhopal

Students of Mechanical Engineering Department had an Industrial Visit to the "L. M. Bakers Pvt Ltd, Manufacturer of Parle Products" Mandideep Bhopal where the industry and academics amalgamate to each other. Students of 4th semester from SISTec Department of Mechanical Engineering visited L. M. Bakers Pvt Ltd, Manufacturer of Parle Products located at Mandideep Bhopal. A short over view of the whole process of every Parle Products was introduced to the students in an auditorium with the help of an animated film made for Parle Products in very interesting manner and that film was thoroughly enjoyed by every student.



ACHIEVEMENT & AWARDS

Shivani Ikhare got facilitated by the trophy & honored for representing College at National Level on the occasion of Republic Day





Best Innovative Project Award at Anusandhan 2K20

The students of ME participated in the Event named Anusandhan 2K20 the State Level innovative project competition, which was held recently in SIRT college on 28th of Feb 2020.

This competition was conducted in 2- Phases, In 1st phase total 110 teams were participated from all over India, out of Which 76 teams were shortlisted, on the basis of their abstract for the final Round.



Best Innovative Idea Award in "National Level Technical Fest"

The students of ME dept participated and won 1st prize in the Event named National Level Technical Fest which was the National Level innovative project competition organized by "PLANET ENGINEER's – 2020", which was held recently in LNCT College Bhopal on 5th of Feb 2020.



<u>Prof. Ravishanker V Choudri awarded the Doctorate of Philosophy</u> (PhD)

Prof. Ravishanker V Choudri, who is working as an Associate Professor in the Dept. of Mechanical Engineering SISTec GN, has completed his PhD course and awarded the Doctorate of Philosophy (PhD) from Mewar University, Chittourgarh Rajasthan.

His thesis title is "To find the Mechanical Properties of Improved Developed Elastic Composite" under the guidance of Dr. S C Soni and Dr. A N Mathur.

His research work was on the Metal Composites, where-in, he choosed the rarest combinations of metals and developed newer Kind of composites. Mechanical Properties found from these composites and constitutive theories will help the researchers working in the field of Metal Composites.

He has published 5 research papers in which 3 are in reputed International Journal and 2 are in International conferences.



PLACEMENT

Mr. Ajay Malviya placed in M/s Waaree Energies Limited as Graduate Trainee Engineer



SISTec Department of Mechanical Engineering student Shubham Kumar Chaubey placed in M/s Asahi India Glass Ltd. as Engineer Trainee Graduate.





SISTec Department of Mechanical Engineering students Indrabhan Chauhan, Padam Singh, Chandan Kumar, Rahul Harode, Piyush Mishra, Vishnu Sharma placed in M/s Micro Turner as Graduate Engineer Trainee.





SISTec Department of Mechanical Engineering students Kunal Verma, Priyanshi Baghel, Syed Hisham Ali placed in M/s Big Basket as quality analyst.



SISTec Department of Mechanical Engineering students Priyanshi Baghel and Akshay Jain placed in M/s Reliance as Graduate Engineer Trainee.



SISTec Department of Mechanical Engineering student Faiz Khan placed in M/s Zomato as Operations Executive.



SISTec Department of Mechanical Engineering students Padam Singh, Shubham Ranjan placed in M/s Plastech Solutions.



THANK YOU

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next edition will come soon