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Newsletter

SAEINDIA
Society of Automotive Engineers INDIA



July-Dec.
2021

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 7th 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”

Editorial Board Members:

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Rahul Kumar (6th Sem)

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Assistant Professor ME Dept. SISTec Bhopal

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Assistant Professor ME Dept. SISTec Bhopal

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Principal SISTec Gandhinagar Bhopal

Dr. Swati Saxena

Vice-Principal Gandhinagar Bhopal

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

Next Generation Vehicle Expo at SISTec Gandhi Nagar

Department of Mechanical Engineering SISTec Gandhi Nagar successfully concluded an event on Next Generation Vehicle Expo with a very high note. SISTec Gandhi Nagar witnessed a footfall of 120+ Engineering aspirants.

RJ Sukruti from 98.3 FM and RJ Ansh from 93.5 My FM made this Next Generation Vehicle Expo very happening by interacting the aspirants. Sashastra Seema Bal (SSB) officers glorified this event by their presence. Engineering aspirants were very happy to know the role and responsibilities of the SSB officers.

The highlight of the event was the test ride of All Terrain Vehicle (ATV), Battery Operated Vehicle, Solar Powered Go Kart, Battery Operated loading Kart, E Scooter and E Passenger Vehicles.* (Courtesy : Kinetic and Star I Global Automotive Pvt. Ltd. showrooms)

Each and every student enjoyed the Test ride of Vehicles developed by the ME Dept. SISTec Gandhinagar. Involvement of students in Quiz Competition was wonderful which was followed by Prize and certificates distribution.

Gratitude to Dr. Sanjay Chhalotre for being Expert trainer for this event.





सिस्टेक में टेस्ट ड्राइव के साथ नेक्स्ट-जेन-ऑटोमोटिव एक्सपो आयोजित

भोपाल। सागर ग्रुप के सागर इंस्टीट्यूट ऑफ साइंस एंड टेक्नोलॉजी (सिस्टेक) मैकेनिकल इंजीनियरिंग विभाग ने गांधी नगर कैम्पस में नेक्स्ट-जेन ई-व्हीकल ऑटोमोटिव एक्सपो का आयोजन किया है। एक्सपो में 150 से अधिक छात्रों ने भाग लिया और सिस्टेक छात्रों द्वारा बनाए गए नेक्स्ट-जेन-ई-व्हीकल का प्रदर्शन व टेस्ट ड्राइव का अनुभव प्राप्त किया। एक्सपो में छात्रों से ऑटोमोटिव निर्माण व सदी के ऑटोमोबाइल उद्योग का यात्रा चक्र के साथ-साथ ई-वाहनों में आने वाली टेक्नोलॉजी व प्रणाली की जानकारी को साझा किया। एक्सपो में छात्रों ने ऑनसाइट आयोजित प्रश्नोत्तरी प्रतियोगिता में भाग लेकर रोमांचक पुरस्कार भी जीते। एक्सपो



का आयोजन सिस्टेक मैकेनिकल इंजीनियरिंग विभाग द्वारा किया जा रहा है, जो निर्माण - राष्ट्रीय स्तर की वर्किंग मॉडल प्रतियोगिता व स्किलिंग में बढ़त हासिल करने के लिए उद्योग-उन्मुख मॉड्यूल के साथ औद्योगिक प्रशिक्षण के लिए प्रदेश में जाना जाता है। इस अवसर पर प्रोफेसर छलोत्रे ने कहा कि एक्सपो में टेक्नोलॉजी के उपयोग से विचार को वास्तविकता में बदलने का प्रदर्शन किया गया है।

10-Day Training on Strategy Based Diagnosis & Repair of Automotive Mechatronics & Mechanics for Commandant Sashastra Seema Bal (SSB)

SISTec Department of Mechanical Engineering concluded 10-Day Training on Strategy Based Diagnosis & Repair of Automotive Mechatronics & Mechanics for Commandant Sashastra Seema Bal (SSB) on 30th September 2021.

The concluded ceremony of SMEA program was hosted by Dr. Ravishanker V Choudri (Head of Mechanical Engineering Department). He welcomed the guest's Assistant Commandant Prabhakar, Dr. Jyoti Deshmukh Director of Sagar Group of Institutions), Dr. Swati Saxena (Vice-Principal SISTec), and all the Commandant. In the end, Dr. Jyoti Deshmukh Director of Sagar Group of Institutions), and Dr. Swati Saxena (Vice-Principal SISTec), expressed their gratitude by extending a Sapling to the Commandant Sashastra Seema Bal on behalf of SISTec. Assistant Commandant Prabhakar stated the vote of thanks to Sagar Group of Institutions-SISTec by representing a mometo to the Institution on behalf of the Sashastra Seema Bal (SSB) for conducting such wonderful training and arrangements.





सिस्टेक ग्रुप में एसएसबी मोटर ट्रांसपोर्ट अधिकारियों के लिए ट्रेनिंग आयोजित

भोपाल। सागर ग्रुप के सागर इंस्टीट्यूट ऑफ साइंस और टेक्नोलॉजी (सिस्टेक) गांधी नगर के मैकेनिकल इंजीनियरिंग विभाग ने सशस्त्र सीमा बल के मोटर परिवहन ऑफिसर्स के लिए 10 दिनों की ट्रेनिंग का आयोजन किया गया। ट्रेनिंग मोटर वाहन मेक्ट्रॉनिक्स और मैकेनिक्स की रणनीति, निदान और मरम्मत पर आयोजित हुई। ट्रेनिंग का संचालन, मेंटर-ऑफ चेंज, नीति आयोग, भारत सरकार व सिस्टेक के ऑटोमोबाइल इंजीनियरिंग के विशेषज्ञ प्रोफेसर संजय छलोत्रे द्वारा किया गया। ट्रेनिंग के समापन अवसर पर डॉ. केशवेंद्र चौधरी, प्रिंसिपल सिस्टेक, डॉ. स्वाति सक्सेना-वाइस प्रिंसिपल सिस्टेक, ने ट्रेनिंग के सफल आयोजन के लिए टीम को बधाई दी।



Skill based technical Training modules

SISTec Department of Mechanical Engineering organized skill based technical training module on "HVAC" for 5th & 7th semester students starting from 20th October 2021.

The training provided by training experts which will fully rigorous hands-on sessions.



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SKILL BASED TECHNICAL TRAINING MODULES

DEPARTMENT OF MECHANICAL ENGINEERING

Heat Ventilation and Air Conditioning (HVAC) (Hands-On Practice)



Trainers :

Dr. Sanjay Chhalotre
Dr. Rashmi Dwivedi
Mr. Vaibhav Pingle

Dates:

20th -21st, Oct 2021
10th -11th, Nov 2021
24th -25th, Nov 2021

SISTec Department of Mechanical Engineering organized skill based technical training module on "Strategy Based Diagnosis of Engine Mechatronics & Introduction to E-Vehicle" for 5th & 7th semester students starting from 20th October 2021. The training provided by training experts which will fully rigorous hands-on sessions.



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SKILL BASED TECHNICAL TRAINING MODULES

DEPARTMENT OF MECHANICAL ENGINEERING

STRATEGY BASED DIAGNOSIS OF
ENGINE MECHATRONICS &
INTRODUCTION TO E- VEHICLE (Hands-On Practice)



Trainers :

Dr. Sanjay Chhalotre
Prof. Pawan Yadav



Dates:

20th -21st, Oct 2021
10th -11th, Nov 2021
24th -25th, Nov 2021

Technical Training Module

This year the Mechanical department conducted 6 different Technical training Modules. This module was divided into six capsules as Basic Mechanical Engineering labs, Unit Conversion, Calculator operations, Engineering Workshop, Engineering Mechanics Lab, Personality Development, and Engineering Drawing.

This training was for 2nd Year students, the courses aimed to impart the basic technical knowledge in the student and make them skilled.

Based on the training an Assessment Test was given to students and certificates were provided to all participants.

Memento, Medal, and certificate provided to top three students.

Zoheed Zama Khan (1st Position)

Ashwani Kumar Tiwari (2nd Position)

Rahul Rajput (3rd Position)





Semester Break Training

Department of mechanical engineering organized semester break training for 2nd year students to develop skills in students according to the industrial requirement.

It was a 5 day training module which involves Introduction to engineering Metrology, Personality development, E vehicle, Welding Technology, Industrial drawing reading.

Training provided by expert trainers.

The poster features a blue background with yellow and white text. At the top, there are four logos: NAAC Accredited Institution, SISTec, Sagar Group of Institutions, and a 21st anniversary logo. The main title is 'SEMESTER BREAK TRAINING MODULES' in large, bold, yellow and white letters. Below it, 'DEPARTMENT OF MECHANICAL ENGINEERING' is written in white. The specific module is 'INTRODUCTION TO ENGINEERING METROLOGY'. On the left, there are illustrations of metrology tools: a vernier caliper, a depth gauge, a surface plate, a hole gauge, and a micrometer. On the right, the text '4th SEMESTER' is displayed with yellow arrows, followed by 'Trainer : Prof. Kuldeep Namdev' and 'Date: 28th - 29th, Dec 2021'.

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Celebrating 21 Years of Excellence in Education

SEMESTER BREAK TRAINING MODULES

DEPARTMENT OF MECHANICAL ENGINEERING

INTRODUCTION TO ENGINEERING METROLOGY

4th SEMESTER

Trainer :
Prof. Kuldeep Namdev

Date:
28th - 29th, Dec 2021



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SEMESTER BREAK TRAINING MODULES

DEPARTMENT OF MECHANICAL ENGINEERING

INTRODUCTION TO ELECTRIC VEHICLES

4th SEMESTER

Trainer :

Dr. Sanjay Chhalotre

Date:

30th, Dec 2021



NIRMAAN 2021

Department of Mechanical Engineering SISTec GN, successfully conducted the 9th edition of Working Model and Poster Making Competition Nirmaan 2021 on 1st Dec 2021. The event was jointly organized by SISTec Mechanical Engineers Association (SMEA) and Electrical and Electronics Engineering.

This program is specifically designed to provide a platform to students to show their technical skills. This program includes Working Model Presentation, Poster and Stall Expo, Technical Evaluation & Discussion.

This one day Nirmaan 2021 witnessed the presence of 250 + students with a display of 41 working models and 55 poster presentations in the fields of Solar Energy, Robotics, Techno-farm, Eco-friendly Vehicles, Go-cart, ATV, Municipal Solid waste, Mobile applications, Software, smart City etc.

Mr. Anurag, Asst. Commandant, SSB Academy (Training) Bhopal, was the special visitor who appreciated the efforts by of students.





**SAGAR INSTITUTE OF SCIENCE & TECHNOLOGY (SISTec)
DEPARTMENT OF MECHANICAL ENGINEERING
AND
ELECTRICAL & ELECTRONICS ENGINEERING**

PRESENTS
Nirmaan
2021

**WORKING MODEL AND
POSTER MAKING COMPETITION**

DATE **01st** Dec. 2021

HIGHLIGHTS

- ⊗ Working Model Presentation
- ⊗ Poster and Stall Expo
- ⊗ Technical Evaluation & Discussion
- ⊗ Certificate to all Participants
- ⊗ Attractive Awards

Various Categories are follows:

- Best Design
- Best Innovation
- Best Economical Product
- Best Business Plan

CERTIFICATE
TO ALL
PARTICIPANTS

WIN
EXCITING
PRIZES

FREE
REGISTRATION

Team of 5 Members (Minimum 2)

Coordinators :
Dr. Sanjay Chhalotre (ME Dept.)
Email - sanjaychhalotre@sistec.ac.in
Mob - 9826329214

Prof. Sitaram Raikwar (EX Dept.)
Email - sitaramraikwar@sistec.ac.in
Mob - 9039740202

For Registrations, visit us: www.sistecgn.ac.in



VENUE:
Sagar Institute of Science & Technology (SISTec)
Opp. International Airport, Ganoli Nagar, Bhopal

Student Coordinators: Mr. Manas Nair (ME Dept.)9425672282 | Mr. Dharmendra Vishwakarma, (EX Dept.)9399511721





Industrial Visit to Sagar Nutriments Pvt. Ltd. (SNPL)

About: Industrial Visit to Sagar Nutriments Pvt. Ltd.

Duration: One Day

Date: 17th November 2021

Participants: V Semester Students

Highlights:

The students of 5th semester, Mechanical Engineering Dept. visited the industry Sagar Nutriments private limited (SNPL) on 17th November, 2021. A team of 47 students along with Assistant Professor Yasir Baig and Mr. Vaibhav Pingle visited the plant.

On the visit students got to see live working of a Rice husk power generation plant which is running 2MW turbine and generating electricity to provide for the requirements of the industry. Students also got to see the processes that raw rice from farms undergo to get converted into high quality product starting from power boiling to packaging. Finally the visit was completed after their visit of water treatment plant inside the industry which supplies chemically treated water to boiler and for rice drying purpose.

Coordinators:

1. Nitin Kumar Sahu – AP ME Dept
2. Yasir Baig – AP ME Dept
3. Vaibhav Pingle – Lab Assistant ME Dept.



Industrial Visit to Star iGlobal Automotive Pvt. Ltd.

Duration: One Day

Date: 31st December 2021

Participants: II Year Students

Highlights:

The students of II year, Mechanical Engineering Dept. visited the industry Star iGlobal Automotive Pvt. Ltd. on 31st December, 2021. A team of 28 students along with Dr. Sanjay Chhalotre and Dr. Ruchin Kacker visited the plant.

On the visit students got to see the live manufacturing of E-Rickshaw. First students visit production department where student notice the complete assembly of different parts of E-Rickshaw by means of spot welding. Here students also understand the use of spot welding. After production E-Rickshaw send R & D dept. where different test perform on E-rickshaw for the final validation of the product. Later production department, E-rickshaw send to Paints department where layer of paint is allow to dry for 30 min. After final touch of paint E-Rickshaw is ready to dispatch.

The students were amazed to see the high scale production facility and they enjoyed witnessing the working and applications of the theoretical concepts, processes and services that they study during their classroom teaching.

Coordinators:

1. Dr. Sanjay Chhalotre– AP ME Dept
2. Dr. Ruchin Kacker – AP ME Dept



STUDENT ACTIVITIES

FRESHERS WELCOME PARTY - 2021

Senior students organized a wonderful fresher's welcome party for the newly joined junior student.



PLACEMENTS

Congratulations to our Mechanical Engineering students from Batch 2017-21 for getting placed in M/s Automotive Axles Limited on a profile of Graduated Engineer Trainee on the package of 3.75 LPA.

1. Ms. Shivani Ikhare
2. Mr. Lokendra Baheshwar
3. Mr. Prasanjit Pandit

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21
Years of
Establishment in
Education

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Congratulations
to our **Mechanical Engineering** students for getting placed as

TRAINEE | **Automotive Axles Limited** | **CTC: 3.75 LPA**

Ms. Shivani Ikhare
Graduated Engineer Trainee
SISTec

Mr. Lokendra Baheshwar
Graduated Engineer Trainee
SISTec

Mr. Prasanjit Pandit
Graduated Engineer Trainee
SISTec

BATCH 2017-21

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Congratulations to our Mechanical, Electrical, and Electrical & Electronics Engineering students from Batch 2018-22 for getting placed as Graduate Engineer Trainee in M/s HEG Ltd.

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Congratulations
to our
Mechanical, Electrical Engineering, Electrical and Electronics Engineering Students
for getting placed as

Graduate Engineer Trainee | **HEG**

Mr. Sankalp Mittal Mr. Arpit Vishwakarma Mr. Sanjay Ahirwar Mr. Vishal Vishwakarma

Mr. Akash Kanade Mr. Sandeep Kumar Mr. Shivalaya Rathore

Mr. Suraj Jha Mr. Vishal Khampariya Mr. Rahul Somkumar Mr. Manpreet Saini

BATCH 2018-22

MAGNIFICENT PLACEMENTS

B. Tech | M.Tech | B.Pharm | M.Pharm | MBA
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THANK YOU

next edition will come soon....