

CHANDIGARH ENGINEERING COLLEGE LANDRAN (MOHALI)



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PREFACE

This Newsletter is the result of continuous hard work and dedication of the editorial board of the newsletter. This Newsletter is aimed towards providing the students with the necessary information about not only their department, but also doing extra hard work and making the department proud. Whether it's in the field of academics, research, extracurricular or sports, the motive of the Newsletter is to bring in limelight, the students who are the unsung heroes of the department and to keep the students aware about the latest happenings and events of the departments.



EDITOR'S IN CHIEF
ER.PAWAN KUMAR NAIN

Vision of the Department

- ❖ To emerge as centre of quality education for creating competent mechanical engineers catering to the ever-changing needs of industry and society.

Mission of the Department

- M1** To provide quality education by constantly updating departmental resources and using effective teaching learning methodology.
- M2** To promote research practices in the field of mechanical engineering in pursuit of academic excellence and for the benefit of society.
- M3** To establish industrial collaborations for imparting contemporary knowledge to keep pace with the technological challenges in the interdisciplinary and core areas of mechanical engineering.
- M4** To provide opportunities to the students for global exposure through international collaborations.
- M5** To nurture students through pre-placement training programs to succeed in campus placements and to provide guidance for entrepreneurship and higher studies.

Program Educational Objectives (PEOs)

Mechanical Engineering graduates will be able to:

- PEO1:** Develop dexterity to analyze and synthesize data and technical concepts for design, development and manufacturing.
- PEO2:** Meet the present needs of industry effectively.
- PEO3:** Embrace multidisciplinary view with an ability to work diligently as leader /team member on various projects with a focus on the economic, environmental and social feasibility of the project.
- PEO4:** Exhibit communication skills along with mathematical and scientific fundamentals to excel in various career related aspects.
- PEO5:** Engage in continuous self-improvement, personal enrichment and professional ethics through lifelong learning.

QUIZ COMPETITION

'Quiz competition' organized by Mechnorobs club of Mechanical engineering department of CEC on Feb 6, 2019. There were 60 participants from mechanical department who appeared for written preliminary round out of which 10 semi-finalists were shortlisted. The final round consisted of rounds on CEC mechanical engineering. Ranjan Gupta, Nitin Jamwal and Kunal Goyal got 1st, 2nd and 3rd position respectively.



DEBATE COMPETITION

DEBATE COMPETITION organized by Mechnorobs Club of Mechanical engineering department of CEC on 14Feb 2019, in seminar hall. Ten teams (each comprising of 2 members) from CEC, Landran participated in the competition. The topics for the debate were (1) Reservation: Right or wrong? (2) Is it modernization or is it Cultural Digression?



FACULTY DEVELOPEMENT PROGRAMME



EFFECTIVE PRESENTATION AND COMMUNICATION SKILLS

Department of Mechanical Engineering has conducted two days short term course on "Effective Presentation and Communication Skills" on 21 and 22 Feb 2019 in association with NITTTR, Chandigarh. Prof. Parmod Kumar Singla, Associate Professor at Curriculum Development centre, NITTTR Chandigarh, inaugurated the session on 21st Feb 2019 and gave valuable information on effective communication skills and how to present effectively. Thereafter, Ms. Prabhjot Kaur Sohal (Skills Researcher) gave valuable information on articulation, problems in articulation etc. Further on 22nd Feb, Dr. A.B Gupta, Head and Professor at Curriculum Development centre, shared his experiences & knowledge on gestures, facial expressions while communicating with the audience. Hitesh Kumar Gulati, Founder & Executive consultant of Diversity Ace Business Consulting, presented on the aspects of resume writing and personal information.



Department of mechanical engineering organized expert lecture talk on basics of mechanical engineering related to competitive examination held on 25/03/2019 at seminar hall of Mechanical Engineering department. Er. Gagandeep Singh Sohi directed this expert talk deliberately and convinced students about the future in the good PSU'S or gazette jobs in centrally organized departments.

INDUSTRIAL VISITS



Mechanical engineering department organized an Industrial Visit for 60 students of B.Tech ME to Ganguwala Hydro power Plant (Ropar) on February 13, 2019. The objective of this visit was to know about conversion of hydraulic energy into electrical energy. How various components of Hydraulic power plant are working like Hydraulic turbines (Kaplan), draft Tube, Pan stock, nozzles, surge tank, generators and many more auxiliary devices like gauges and thermocouples. The overall visit gave vital knowledge to the students which will be beneficial for their academics as well as professional career.

Mechanical engineering department organized an Industrial Visit for 61 students of B.Tech M.E 2nd year to Cheema Boilers Ltd. (Kurali) on February 1, 2019. The objective of the visit was to learn about fundamentals of steam generation and applications. Surely, this visit will help the students to think about how to minimize the heat addition and work input to the boiler.



Mechanical engineering department organized an Industrial Visit for 30 students of B.Tech ME to diesel locomotive maintenance (DCW) Patiala on February 25, 2019. The objective of this visit to learned about how diesel locomotive maintenance is carried out. What are the various processes are involved during servicing of a diesel locomotive.



TECHNICAL ACHIEVEMENTS

Sr. No.	Patent Name	Patent no.	Inventor
1	Friction enhancement system for vehicles	201911004144	01-02-2019



Rahul Sharma of 6th semester participated in tech event of Chandigarh University with his Go-kart and got 1st position in skid pad, 2nd position in endurance & 3rd position in drag race.

Prince Thakur from mechanical engineering department filed 13 patents out of which 4 are given below. He is from 6th semester and he had a interests in research and development field. He filed many patents on common problems in the industries, environment, medical field as well as agricultural fields.



Sr. No.	Patent Name	Patent no.	Comments
1	CONVEYOR BELT PROTECTION SYSTEM	201811028392	In this project Laser assembly is used to protect conveyor belt from any external object.
2	NITRIC ACID INDICATOR	201811020675	It is a electronic device which is used to detect the presence of nitric acid without any use of external chemicals.
3	SULPHURIC ACID INDICATOR	201811020676	It is a electronic device which is used to detect the presence of sulphuric acid without any use of external chemicals.
4	RIFFLE ATTACHMENT FOR PROTECTION FROM EMPTY BULLET SHELL	-Under process-	It is a attachment of assault rifle used to protect a person from empty bullet shell.

ACHIEVEMENTS

Education is not just about studying and getting good marks. It's about the overall development of the being. And it is never completed without extracurricular activities like sports and other technical and non technical events. Students of our department have always been ahead in such events. And just like always our students again held our heads high by roaring in various events. Some of these are:



1. Bharat bagged gold **medal in 4×100m boys' race** in IKGPTU Athletics' Championship held in GTBIMT, Ludhiana from 6th to 8th march, 2019. He also won a bronze medal in 200m race in the same event.
2. Ajay was the part of our department's basketball team which won the inter-department basketball tournament held in our college from 5th to 7th of March, 2019.



NAME –ARIHIT SEHGAL (ROLL NO 1703510)

GOT 2ND POSITION IN 3RD SEMESTER.



NAME- PUNEET SHARMA (ROLLNO-1703630)

GOT 1ST POSITION IN 3RD SEMESTER



Students from Department of Mechanical Engineering of CEC LANDRAN Participated in the “INNOTECH 2019” which is held at science city. The team participated in the category of “AUTOMOBILE” and secured 1st position. They designed and manufactured a hybrid tadpole trike vehicle which consist of electric as well as engine drive. Sanidhya from Mechanical engineering (6th semester) leads the team and flourish the fame of the college as well as the department.

The students from Mechanical Department made a batterant system in which batteries can be rented to the customer with lot of features. They used IOT system and developed an app. The person can take battery on rent at anytime. The Team “M3N”from Mechanical engineering made this project and got 1st position in “INNOTECH 2019” at science city. They got 2nd position in the smart India hackathon 2019 in software edition.





TEAM – NEOPHYTES GOT 25TH RANK OUT OF 80 KARTS IN THE INDIAN KARTING CHAMPIONSHIP -3 AT KOHLAPUR, MAHARASHTRA.

GALLERY

Career Opportunities discussed during Industrial Visit

