



EDITOR'S COLUMN

“To emerge as the most preferred educational group with global recognition, developing competent and socially sensitive leaders committed to excellence to create world class facilities & ambience for advance level of teaching and practical training. From the day of its inception, CEC nurtured a dream to become a leading technical Institute with a global vision. Today the dream has become a reality as CEC students have gained due recognition worldwide for their academic and professional excellence

I sincerely thank to Prof (Dr.) Rajdeep Singh for his sincere support. He is a very nice and energetic Head of department whose leading hands are giving this institute right direction. I also thank all faculty members and students for giving valuable inputs.



Editor's chief

Mr. Pawan 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.

THRUST 2K17

Thrust-2017' Fest was organized on Sept 22, 2017 with the theme "Grow green Go clean" by Mechanical Engineering Department of C.E.C consisting of Technical events like Lathe master, Junkyard war, Quiz and literary events like Group discussion, photography exhibition and cultural including talent hunt and fashion show. Large number of students from various sections across the branch participated in this fest. The venue was Auditorium Hall near Admin block. The festival was earlier inaugurated by Sr. Satnam Singh Sandhu, Chairman, Chandigarh Group of colleges by lighting the ceremonial Lamp. All Principals of Chandigarh Group of colleges were present. The conveners of fest were Dr. Rajdeep Singh & Ms. Aishna Mahajan.

The events under THRUST 2K17 were:

1. Group Discussion
2. MechnoQuiz
3. Troubleshooter
4. Fashion Show
5. Lathe Master
6. Photography Exhibition
7. Talent Hunt
8. Junkyard Wars



Expert Talks

DATE	TOPIC	SPEAKER	ORGANISATION
31.08.2017	CAD/CAM in designing and modern manufacturing	Dr. Rajesh Madan	UIET, Chandigarh
14.09.2017	Design & Validation Of Aircrafts, Automobiles & General Engg. Products"	Er. Sandeep Sharma	Aerosphere Pvt Ltd
20/08/2018	Welding Technology	Dr Sanjeev Kumar	
24/08/2018	Recent advancements in manufacturing processes	Dr Harmesh Kansal	UIET, Chandigarh

Guest Lecture

The Guest Lecture was conducted by ASME Section of ME Deptt. in departmental Seminar hall. Er Emamul Haque (member board of Governor ASME) was keynote speaker in the event. Er Haque was welcomed by Dr Rajdeep Singh (HOD ME CEC) and Er. Haque was briefed about various activities and event conducted by ME deptt in last one year. Students of 5th SEM and 3rd SEM were present in the event. Er. Emamul Haque delivered lecture on "**World Class Manufacturing: Recent advancement in waste utilization in India & global Industries**". and on "**Quality Mechanical Engineering: Bridging the gap between academics & industry**". He give useful information regarding use of fly ash a waste product of thermal power plant for making bricks with the concept of world class manufacturing also encourageage student to how to excel in field of education and latest trend in manufacturing industries across globe. ASME Event details in India and abroad with details were shared with students Student Interaction session was conducted in which student asked their queries about waste utilization in industries and how latest technology help in waste mgmt. Lecture concluded with vote of thanks by Mr Sagar 3rd sem ME.



Achievements

BOOK PUBLISHED

Title: Data book for **DESIGNING MACHINE ELEMENTS**

Publisher: S.K.KATARIA &SONS

Prof. Arun Kumar, Associate Prof. CEC, LANDRAN

NAME: RAJAN PAL

SEMESTER: 3rd Semester Leet

Trade: Mechanical engineering

Event Name: Engineer's Eye

Position: 1st

Date of competition held: 21 September, 2017

Occasion: Thrust 2K17 Engineer day.



Team-Optimus-2 from department of mechanical engineering participated in the SAE SUPRA 2017 at Budhh international circuit, Greater Noida on 1st July 2017. The team designed, manufactured and assembled the student formula 6 kart. They got 46th rank out of 130 teams in the event along with appreciation trophy. There are 25 members in the team along with mentor – Mr. Amandeep Singh.

Industrial Visits

INDUSTRIAL VISIT ON GURU GOBIND SINGH SUPER THERMAL PLANT (G.G.S.S.T.P.) ROPAR



We are highly thankful to honourable management and our HOD (Dr. Rajdeep Singh for giving us an opportunity to go for industrial visit at Guru Gobind Singh Super Thermal Plant (G.G.S.S.T.P.) Ropar. In this trip forty four (44) students of B.Tech (M.E.-3rd Semester, Section- E+F) along with two faculty members visited at the former power plant in ROPAR which was held on 3rd October, 2017. In this visit, students learnt about the process of generating electricity using the water of the river. The trip was started

from C.E.C campus, Landran at 9:30 am of 3rd October, 2017. Reaching to the industry; students were guided by the Power plant officials. In this visit students learnt about the treatment of water, pulverization of coal, flame propagation inside furnace, water-tube boiler, reheating process, and generation of electricity. The whole process of generation of electricity is categorized as follows:-

- **Water treatment plant**
- **Pulverization of coal**
- **Water-tube boiler**
- **Reheating process**
- **Generation of electricity**