

## PANIMALAR ENGINEERING COLLEGE

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#### DEPARTMENT OF MECHANICAL ENGINEERING

NEWSLETTER-THE TOROUE

.... Ready to be driven

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### FROM THE PRINCIPAL'S DESK

I congratulate the Department of Mechanical Engineering for taking the initiative to bring out this Department newsletter in a fashionable manner. I hope this newsletter will provide the platform and opportunity to all the students and staff members of Mechanical Engineeing to share and update the information on recent developments taking place in the field of Mechanical Engineering. I wish all the best for bringing out many volumes successfully.

### FROM THE HOD'S DESK

happy that our Mechanical Engineering Department is releasing this newsletter as a fore runner of the department activities for this semester. It is of upmost importance that students know things apart from the fundamentals in all fields to help them in their future. This newsletter in general will help the faculty and students to learn the latest developments. It will surely be of help to the students to advance their skills set.

#### **CATIA WORKSHOP**



The CATIA workshop for III year Mechanical students was held on 3rd January 2022. Organized by the Mechanical Engineering Department, the event aimed to enhance students' skills in computer-aided design. Industry experts led interactive sessions, covering topics from basic modeling to advanced assembly design. Participants gained hands-on experience with CATIA V5 software, applying tools techniques to real-world projects. Over 50 students attended, benefiting from the expertise shared. The workshop concluded with a certificate distribution ceremony, recognizing participants' successful completion. Feedback was overwhelmingly positive, with students praising the workshop's practical approach and relevance to industry requirements.

# Advanced Robotics - Lead to Greater Automation

Robots can now take on all sorts of jobs that are too dull, dirty or dangerous for people. Robots are working on assembly lines, exploring harsh environments, handling hazardous materials and even performing surgery!

Mechanical engineers are designing these amazing machines optimized for specific tasks. Areas of focus include flexible robotic limbs, safety features like impact-absorbing bodies, and highly precise end effectors for delicate tasks.



As robots gain more senses, dexterity and intelligence, they'll take on even more complex assignments. Exciting innovations in prosthetics, rehabilitation devices and remote surgery could be on the horizon thanks to robotics!

DID YOU KNOW?

WRIST WATCH WAS INVENTED IN 1904

DV I OUIC CAPTIED

## A massive device that cleans coastlines -Boomy McBoomface

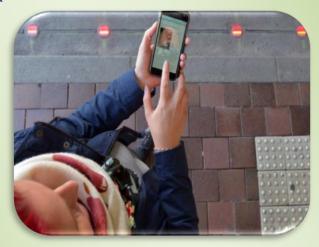
An ocean-cleaning innovation finally became a reality in 2016 after five years of research, prototypes and creativity. Dutch entrepreneur Boyan Slat first proposed an ocean cleanup machine at only 17 years old. But a prototype of the buoyant boom-like device called Boomy McBoomface was finally put into action in June, thanks to more than \$10 million in funding.



Slat's device floats along a coast and creates an artificial coastline, catching debris on the surface of the ocean. A connected conveyer then lifts the garbage into a central tower, where it is sorted for disposal.

# Sidewalk traffic lights for those glued to their phones

Let's face it: You simply can't be trusted to peel your eyes away from your phone — even when crossing the street. These sidewalk lights are very helpful for those who are glued to their phones.



That's why German public transportation provider Stadtwerke Augsburg embedded traffic lights in some city crosswalks around the country in April. The company hopes new lights will help tech-focused pedestrians to cross streets safety even if they refuse to look up.

"The engineer has been, and is the maker of history"