

Department organised Events:

An One Week Workshop  
On  
“CATIA V5 Mechanical Design”  
At  
Geethanjali Institute of Science and Technology (GIST)

Department of Mechanical Engineering organized an one week workshop on “CATIA V5 Mechanical Design” by Mr.K.Nagendra, Andhra Pradesh State Skill development Corporation (APSSDC) from 10-02-2020 to 29-02-2020, nearly 120 students was attended this workshop. The Principal of GIST, Prof. Dr. G.SubbaRao addressed the students regarding the Role and importance of CATIA V5 Design in today’s world. The resource person discussed about this workshop was organized by Mechanical Engineering department to enhance the skills and increase the employability of the students.

This seminar also addressed queries about fundamentals of the CATIA V5 Fundamentals course is designed to provide delegates The with a broad skill set for using CATIA V5. It is a starting point for CATIA and the knowledge gained is a prerequisite for many more specialized training courses. CATIA V5 Fundamentals should not be viewed as just a basic course, as together with the key CATIA skills that are on offer, the student will also pick up very important advice on engineering methodologies. The course includes a mixture of presentation and tutorial, enabling students to gain hands-on experience.

**Mechanical Design Fundamentals Content:**

- Introduction to CATIA
- Introduction to CATIA
- Profile Creation
- Basic Features
- Additional Part Features
- Dress-up Features
- Reusing Data
- Finalizing Design Intent
- Assembly Design
- Designing in Cont



**STUDENTS ACHIEVEMENTS:**

Placements:



**KHADKA SARATH**  
**162U1A0320**  
**GREEN TECH**  
**RS 2,34000**



**M SUMEESH**  
**162U1A0326**  
**GREEN TECH**  
**RS 2,34000**



**PUTTURU KARTHIK**  
**162U1A0336**  
**GREEN TECH**  
**RS 2,34000**



**V.KRISHNA CHAITHANYA**  
**162U1A0357**  
**RS 2,34000**

**LATEST INNOVATION IN MECHANICAL ENGINEERING FIELD:**

Robot teaching

When robots were invented, they had to learn from their human mentors. This required special skills and a lot of time to train a robot so that it can be helpful. In the recent times, manufacturers have come up with a set of software that will help a robot learn how to take human activities. This will reduce the time taken to train a robot and also ensure proper robot training.

The new advancement in low-temperature combustion This is because This technology advancement is very flexible and has a massive potential for improvement. It will help in reducing pollution their oil at low temperatures considerably companies and automobiles can burn.

DAORI Smart helmets These work are helmet designed to reduce complexity and increase productivity. This helmet is an Internet of Things device that helps people connect with machines, data, and their fellow workers. The helmet helps engineers see through obstacles, reduce noise data in the environment of work.and providing

Vaporized foil actuator welding Professors at the Ohio State University have come with a new method of welding. They have invented a solution to joining metal without melting them. In a normal welding, a metal rod has to be melted to join two metals.

## SEMESTER TOPPERS:

IV-II



SHAIK ABDUL REHMAN  
162U1A0342  
9.09 SGPA



S. YASH JAIN  
162U1A0339  
9.09 SGPA

III-II



P.GIRI VIKAS  
172U1A0307  
8.70SGPA



K.VENKATESWAR  
LU REDDY  
172U1A0315  
8.04SGPA

II-II



SHAIK ALTHAF  
192U5A0304  
8.57SGPA



SHAIK ASHIK  
192U1A0305  
8.30SGPA

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GEETHANJALI INSTITUTE OF SCIENCE AND TECHNOLOGY  
(Approved by AICTE, New Delhi & Affiliated to JNTU, Anantapur)

DEPARTMENT OF MECHANICAL ENGINEERING

# NEWS LETTER

# METROID

"TECHNOLOGY TRENDS TRADITION"

## Vision

To evolve as a prospective learning centre for producing quality human resources

## Mission

- ✦ Impart Technical knowledge through effective teaching-learning practices.
- ✦ Provide congenial academic environment for honing technical skills.
- ✦ Develop professional and entrepreneurial skills through collaborations.
- ✦ Promote leadership skills along with social and ethical values.

## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- ✦ Analyze Mechanical Engineering problems and provide sustainable solutions.
- ✦ Pursue successful professional career in industry, academia or research.
- ✦ Engage in continuous learning to keep abreast of emerging technologies with the sense of professional ethics.
- ✦ Contribute in multi-disciplinary teams through effective interpersonal skills.

## PROGRAM SPECIFIC OUTCOMES (PSOs)

- ✦ Utilize the knowledge of materials and manufacturing principles to plan, design and monitor the production operations of an Industry.
- ✦ Employ the governing laws of Thermodynamics, Heat transfer and Refrigeration & Air Conditioning to design and develop Thermo Fluid systems

## ROTARY ENGINE:

The **rotary engine** was an early type of internal combustion engine, usually designed with an odd number of cylinders per row in a radial configuration, in which the crankshaft remained stationary in operation, with the entire crankcase and its attached cylinders rotating around it as a unit. Its main application was in aviation, although it also saw use before its primary aviation role, in a few MM early motorcycles and automobiles.

