



BLACKHAWKS RACING TEAM



Our department aims to ignite the minds of the students by encouraging them to perform activities beyond academics. Thanks to the sincere efforts taken by our HOD Dr.K. Arun Vasantha Geethan, M.E. Ph.D., his interests towards this project provokes us to do more of this kind.

The event named "Mega ATV championship" was held in Goa in which over 120 teams from various engineering colleges across India participated. Our "Blackhawks racing team" contested in this event and secured a whopping 35th place bringing pride to our department and college.

Blackhawks' ATV:

4 stroke. Petrol engine. 305cc. Free end suspension.

Total cost: Rs. 3,00,000

The team is currently focusing on improving the performance of the vehicle and enhancing its abilities. The team also has ideas of participating in similar events in the future

THE STORY OF THE GENIUS WHO BROUGHT THE DARK TO LIGHT



Genius is one percent inspiration and ninety-nine percent perspiration.

I have not failed. I've just found 10,000 ways that won't work.

Our greatest weakness lies in giving up. The most certain way to succeed is always to try just one more time.

In 1878, Edison began working on a system of electrical illumination, something he hoped could compete with gas and oil-based lighting.[46] He began by tackling the problem of creating a long-lasting incandescent lamp, something that would be needed for indoor use. Many earlier inventors had previously devised incandescent lamps, including Alessandro Volta's demonstration of a glowing wire in 1800 and inventions by Henry Woodward and Mathew Evans. Others who developed early and commercially impractical incandescent electric lamps included Humphry Davy, James Bowman Lindsay, Moses G. Farmer,[47] William E. Sawyer, Joseph Swan, and Heinrich Göbel. Some of these early bulbs had such flaws as an extremely short life, high expense to produce, and high electric current draw, making them difficult to apply on a large scale commercially.[48] 217-218 Edison realized that in order to keep the thickness of the copper wire needed to connect electric lights economically manageable he would have to develop a lamp that would draw a low amount of current. This meant the lamp would have to have a high resistance.[49]



BEACON 17-01



Hey there !!!!

I'm Beacon, the newsletter of department of Mechanical Engineering. I visit you all every semester highlighting the achievements of both faculties and students of our department. I serve to recognize talents, hard work and the efforts that has been put in to sculpt the honor of our department. I present myself before you with colossal pride once again.

I CARRY KNOWLEDGE !

I CARRY FUN !TURN OVER AND



FROM THE HOD'S DESK

GREETINGS TO FACULTY AND STUDENTS!

It gives an immense pleasure to release annual newsletter of Mechanical Engineering department for the year 2017. During last year, various curricular and co-curricular activities were conducted successfully by the department. Participation of Mechanical Engineering faculty in various training programs and International conferences was the most encouraging factor, which we want to continue in coming years also. Through periodic seminars, symposium, workshops, industrial visits and industrial training as integral parts of the course, the student were equipped with technical knowledge, critical thinking skills and creativity to excel in the engineering profession. An extremely dynamic and large faculty and a well experienced support staffs, give the Department a breadth of research focus and wide range of technical expertise. We are very pleased with the quality of the incoming students. It is up to us now to provide the same, if not better, learning experience for the enlarged study community.

VISION:

To Provide Knowledge centered education and prepare students for meeting global mechanical engineering challenges thereby enabling them to contribute for the prosperity of the society.

MISSION:

* To impart quality education in mechanical engineering through teaching and learning process.

* To promote students awareness about the importance of professional ethical practices.

* To enrich the knowledge in mechanical engineering through research and innovation.

* To inculcate the spirit of entrepreneurship among students.

PROGRAM EDUCATIONAL OUTCOMES (PEO)

1. Graduates of Mechanical engineering program will have a successful career in Mechanical Engineering and allied industries.
2. Graduates of Mechanical engineering program will have expertise in the areas of Design, Thermal, Materials and Manufacturing.
3. Graduates of Mechanical engineering program will contribute towards technological development through academic research and industrial practices.
4. Graduates of Mechanical engineering program will practice their profession with good communication, leadership, ethics and social responsibility.
5. Graduates of Mechanical engineering program will adapt to evolving technologies through lifelong learning.

PROGRAM SPECIFIC OUTCOMES (PSO)

- * PSO 1: Ability to implement new ideas in various fields such as thermal, industrial and product design & development while ensuring best manufacturing practices.
- * PSO 2: Ability to lead professional career in industries or an entrepreneur by applying engineering and management principles and practices.

EPITOME OF SUCCESS

Sl.No	Name of the Student	Name of the Company	
1.	Akash. M	CTS	
2	Ashwin Beryl. K		
3.	Baskarraj. K		
4.	Beeram Nishanth Sagar Reddy		
5.	Deenadayalan. N		
6.	Nishanth Melvin. J		
7	Nishanth. J		
8.	Pravin. M		
9.	Ramkumar. R		
10.	Santhoshkumar. M		
11.	Sarveesh. H		
12	Thenappan. A		
13.	Thiruvvasagan. D		
14.	Tamilavelil. K	INFOSYS	
15.	Ramkumar. K		
16.	Santhoshkumar. M		
17.	Sivasuroj. S		
18	Nishanth Melvin. J		
19.	Shanmugapiriyani. K	WIPRO	
20.	Ashwin. G		
21.	Balaji. M		
22.	Gowindarajan. S		
23.	Guruchandran. A		
24.	SathishKumar. C		Tech Mahindra
25.	Kuralarasan. C		HTC
26.	Rajan. N		
27.	Mathan Kumar S		NINJACART
28.	Nishanth L		
29.	Prakash S		
30.	Sunder Sankar		
31.	Regan Fernando	CYIENT	
32.	Ajith Suresh		
33.	Vignesh Baskaran	YES BANK	
34.	Karthickraja	SANMAR	
35.	Venkat Puneeth		
36.	Sharuq Azrudin Shahul	ZOHO	
37.	Suruthi Marikumaran	KBR	



SCINTILLATING INTELLECT

Dr. D. Nathan recently graduated in his Ph.D thesis of "AN INVESTIGATION OF SURFACE ROUGHNESS PREDICTION OF END MILLED AA6061 ALLOY USING MACHINE VISION WITH SOFT COMPUTING TECHNIQUES" under the guidance of Dr. G. Thanigaiyarasu, Dean (Mechanical Sciences), Rajalakshmi Engineering College, Kancheepuram, jointly by Dr. K. Vani, Associate Professor, Department of Information Science and Technology, College of Engineering, Guindy, Chennai. Adding another feather to his cap, he has also published three Scopus indexed journals. He is an active member of various international conferences and his enthusiasm has led to the publication of various papers. He holds an expertise knowledge in the areas of machine vision, image processing and soft computing techniques.

INDUSTRIAL VISIT

Industrial Visits are arranged from time to time by our college for all the students to interrelate on a consistent basis with Industries and top software companies. The intention of these visits is to boost the student's understanding of information expertise. Such visits will help the students to get a comprehensible thought of the happenings and also to extend their career in the high tech industrial requirements. An index of some companies which our students have visited as part of Institution Industry Interface:

(2016 - 2017 / ODD SEM)

CLASS	INDUSTRY	DATE
IV-A	Jeppiaar Milk, Thirvanamalai	18.07.16
IV-B	Jeppiaar Milk, Thirvanamalai	18.07.16
IV-C	Jeppiaar Milk, Thirvanamalai	18.07.16
III-A	Neyveli Lignite Corporation, Neyveli	10.08.16
III-B	Neyveli Lignite Corporation, Neyveli	18.08.16
III-C	Neyveli Lignite Corporation, Neyveli	19.08.16
III-D	Ashok Leyland, Hosur	12.08.16
II-A	North Chennai Thermal Power Station	06.09.16
II-B	North Chennai Thermal Power Station	07.09.16
II-C	North Chennai Thermal Power Station	08.09.16
II-D	North Chennai Thermal Power Station	09.09.16



TEAM Z-TORQ



The tractor design competition was organized by the Society of Automobile Engineers (SAE) for the first time in India. The competition prepares the students to be effective engineers, enables the students to gain practical knowledge. The challenge was to create a fully operational tractor that would be subjected to various tests. As the popular saying goes "When the going gets tough, the tough gets going", our Z-TORQ team has taken strenuous efforts into making this dream into a reality. The Z-TORQ team has put in untiring, full-fledged efforts for three months to design a multi-purpose sophisticated tractor named "IGNITO - The Tractor" which can be used in various fields such as agriculture, backyard purposes, farm gardens, mining and small scale industries. The management of St. Joseph's Institute of Technology has contributed the total sum of Rs.1,76,000 for the fabrication of this project. The team expresses its humble gratitude to the Management of St. Joseph's Institute of Technology and also to the Staff members Department of Mechanical Engineering for their support and motivation.