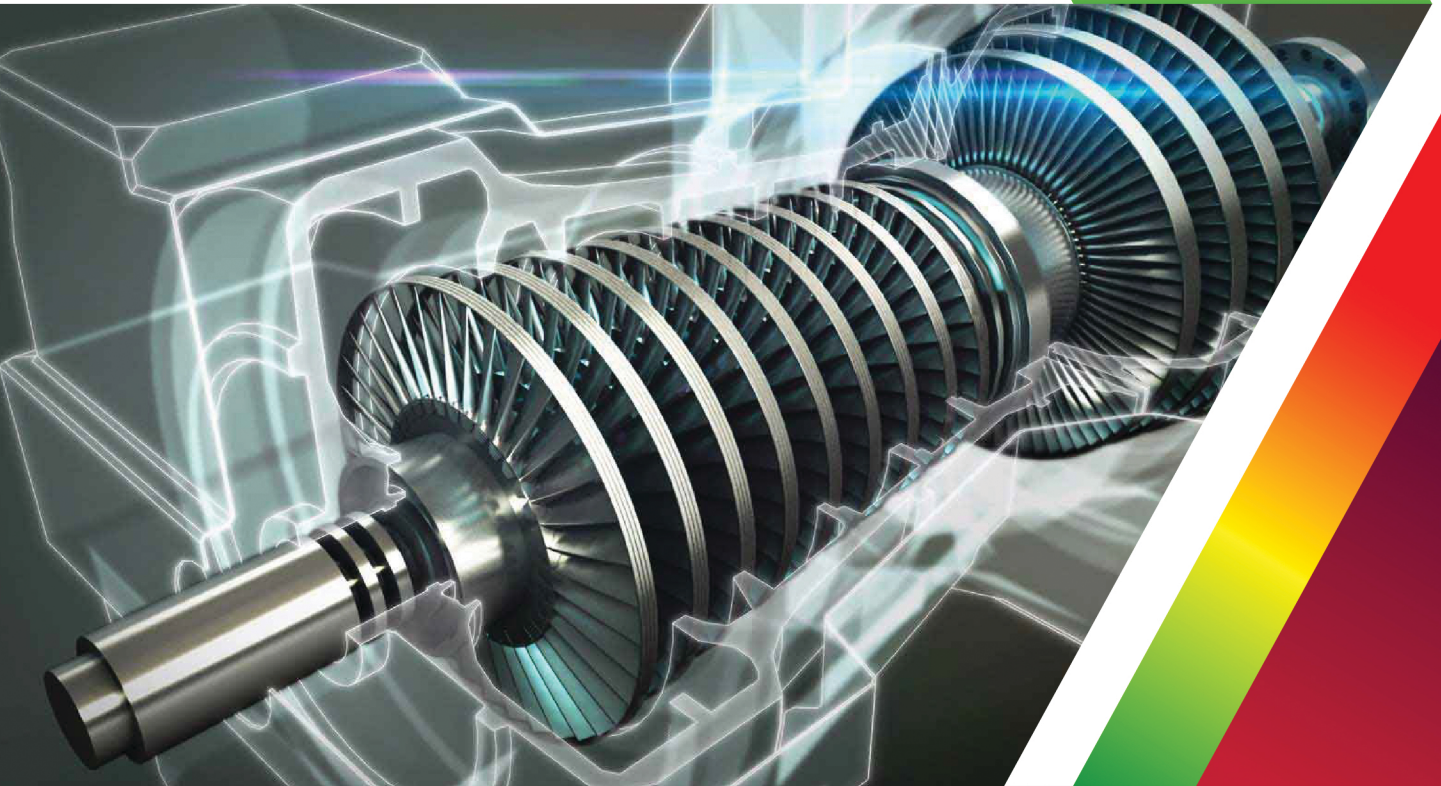




# ROHINI

COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE and Affiliated to Anna University, (An ISO Certified Institution)



MECHANICAL ENGINEERING ASSOCIATION

# MECHANICAL BEATS OF ROHINI

## 2017-2018

**VOL 2 | ISSUE II**



# Mechanical beats of Rohini

2017-2018

Vol. 2 Issue II

ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY

THE DEPARTMENT NEWSLETTER

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## Institute Vision

- To be an academic Institute of continuous Excellence towards education and research in rural regime and provide service to nation in terms of nurturing potentially higher social, ethical and engineering companion graduands.

## Institute Mission

- To foster and promote technically competent graduands by imparting the state of art engineering education in rural regime.
- To enunciate research assisted scientific Learning by dissemination of knowledge towards science, agriculture, industry and national security.

## Department Vision

- To inculcate competence in the field of Mechanical Engineering in students by providing quality education and learning opportunities to enable them to become ethically strong engineers for the development of society.

## Department Mission

- To provide fundamentals and technical skills in Mechanical Engineering through effective teaching-learning methodologies.
- To provide an ambience for research through collaborations with industry and academia.
- To inculcate students with leadership quality and employability skills with ethical values.



## ONE DAY NATIONAL LEVEL SYMPOSIUM [MACH'18]

The Department of Mechanical Engineering organizes intra and inter department technical symposium every year. This year it conducted a National Level Technical Symposium MACH 2018 on March 1st, 2018 which was presided over by Honorable Chairman, Vice Chairman, Managing Director, Chief Financial Officer, Principal, Heads of the Department, Event Coordinators. Dr.J.SELWIN RAJADURAI, Professor, Faculty of Mechanical Engineering Government College of Engineering, Tirunelveli kindly consented to host the MACH 2018.



Chief Guest address was given by Er.Seshagopalan, Deputy General Manager (HR &

Admin) and Dr.P.Arul Franco, Faculty of Mechanical Engineering, University College of Engineering, Nagercoil about recent trends in Automobile field and motivated the audience to gain more knowledge. Through their way of presentation, they made an impact in engineering education among students. Also, Er. Seshagopalan, Deputy General Manager (HR & Admin), TVS -Madurai encouraged students to elicit innovative ideas and develop their skills by participating in various events to emerge successfully in their focused areas.



In most of the events, students participated in large number with enthusiasm. Different

committees comprising of students, supporting faculty members formed to conduct the symposium. Prizes and Certificates were issued for winners and runners of each event. More than 200 students participated in this technical festival. The certificates for winners were given in the end of the day by the Principal and Head of the Department.



## ENTREPRENEURSHIP AWARENESS CAMP

To create awareness among faculty and Engineering students about various facets of entrepreneurship as an alternative career option as also to highlight the merits of pursuing such an option, Entrepreneurship Awareness Camp, known as EAC is conducted by the Rotaract Club of Rohini with the aim objective of planting the seed

of entrepreneurship in young minds. To start EAC with the motto “Be Your Own BOSS”, consider this as the fastest step for budding entrepreneurs. The camp is held on March 17, 2018 at Opulent Hall, RCET. The event was commenced by Er. S. Rathinam, Center for Environment and Development. The respected Principal described in detail about the program. Mr. Shawlvin student of third year addressed the gathering.

The chief guest shared his experiences and encouraged the students to do hard work and to learn from their mistakes to become a good entrepreneur. Covering basic topics such as role play, group discussion, mock interview, business plan presentations etc. His ice breaking sessions make the participants aware about Entrepreneurship policies, scope, resources, government funding and make them efficient in business communication, soft skill development, make them confident and bring out the entrepreneurs within them.

He quoted his trials, tribulations and initial failure in the field. "Every difficulty is a new opportunity, this approach of mine that has made me shine as a businessman", he said while talking about his plethora of entrepreneurship ventures. He then addressed the various queries put forth by the students and cleared all their doubts. The event has evidenced huge and active participation from the students. The program was wrapped up with the National Anthem.

### **TWO-DAYS NATIONAL LEVEL TECHNICAL WORKSHOP ON KTM ENGINE EXPLORE**

#### **“Mr. ENGINE” in association with KTM**

The Department of Mechanical engineering organizes workshops every year to spread the knowledge to the local community by the guest lectures and hands-on experience. A workshop can introduce a new concept, spurring participants to investigate it further on their own, or can demonstrate and encourage the practice of actual methods. Especially for people who work together, a workshop

can help to create a sense of community or common purpose among its participants.



In the row, a two-day workshop was organized by the Department of Mechanical engineering on 5 th and 6 th January 2018 in the presence of our eminent chief guest Dr. Bruce Ralphine Rose, Prof – AU - Tirunelveli. The gathering was welcomed by Student Visalakshi, third year Mech. Two sessions were planned to be conducted on the same day to facilitate the students to gain knowledge in their specific areas of interest. KTM Engine Tuning Workshop is a motorsports focused training, to understand the engine performance maps, behaviour, performance technicalities, tuning on PE standalone systems, manifold design, common errors and how to walk around them. KTM is a leader in the motorcycle



industry, with riders on KTM motorcycles winning numerous championships around the world. Aim of the workshop is to provide state-of-the-industry motorcycles, training aids, tools and more to prepare students for successful careers in the motorcycle industry.



During the training session, Day 1 training covered the Engine selection - Duke 390 vs CBR600 (Power and torque curves, Track layout and requirements), Understanding Duke 390 stock performance curves (Duke on the dyno) Intake manifold design (Restrictor design, Intake manifold runner length and volumes). Day 2 session concentrated on Stand-alone ECU options (Power Electronics).

Mechanical Engineers who are looking to develop engineering

projects on drones can take up this course to understand the innovative technology from basics. By doing this mechanical workshop you will practically learn the concepts behind the engine control unit, sensors, and actuators and you will also learn to assemble & dismantle IC engines so as to know the internal working mechanisms. Thus, the workshop concluded with the Vote of Thanks by Student Ms.Sinuja, III Year Mechanical Engineering.



## SEMINAR ON ADVANCED RESEARCH IN MATERIALS SCIENCE ARMS'18

On 5<sup>th</sup> February 2018, Department of Mechanical Engineering organised a seminar on "Advanced research in Materials Science".



Mechanical engineering is a very broad field of engineering that involves the application of physical principles for analysis, design, manufacturing, and maintenance of mechanical systems. The Board of Directors, Resource Person Dr. V.Sambath, Department of Materials and Metallurgy, IIT – Madras were present on the dais. The gathering was welcomed by Student Bala Murugan of III Mechanical, Presidential address was given by respected Principal

Dr.R.Rajesh, and chief guest was introduced by Dr.Indran, Head of Mechanical Engineering. The door of knowledge was opened by the Dr. V.Sambath. The interdisciplinary field of materials science, also commonly known as materials science and engineering, involves the discovery and design of new materials, with an emphasis on solids. The intellectual origins of materials science stem from the Enlightenment, when researchers began to use analytical thinking from chemistry, physics, and engineering to understand ancient, phenomenological observations in metallurgy and mineralogy.



To discuss the advancements in the field of Materials Science, these seminars has taken the

initiation to gather information through experts both from academic and industry. The Materials Science seminar serves as good platforms for the student's community to meet experts with each other and to exchange thoughts.



The Workshops and Symposiums started as an investigative meeting with an underlying mission to prepare students to differ controls with the aptitudes and capabilities required to diverse disciplines with the skills and competencies needed to face the challenges of a quick evolving world. Keeping pace with quickly developing thoughts and advances through quality session has been the fountainhead of the development of this seminar. The seminar focused on ability to apply knowledge of mathematics, science, and

engineering, an ability to identify, formulate, and solve engineering problems, an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.



The Mechanical Engineering seminar series provides an unparalleled opportunity to an individual to increase the depth of his scientific knowledge. The seminars are held every week, and also offer an ideal platform to initiate interdisciplinary work cutting across boundaries. The department maintains a very vibrant academic atmosphere through various academic initiatives. There is a regular stream of visitors to the department, both for long term and short term, resulting in collaborative research, interactions and seminars.



**TECHNICAL ACHIEVEMENTS**

Our Mechanical Engineering students have actively participated in many Technical Events organized by various Organizations and won many events.

**Academic Year 2017-2018**

<b>S.No.</b>	<b>Name of the Programme</b>	<b>Organized By</b>	<b>Level</b>	<b>Event</b>	<b>Won</b>		<b>Date of the event held</b>
<b>1.</b>	<b>GEARS WAR 2.0</b>	<b>K.N.S.K. College of Engineering, Thereakalpur</b>		Poster presentation	JEFIN ROY M (963316114078)	Second	<b>28.03.2018</b>
				Machinist	JEFIN ROY M (963316114078)	First	
<b>2.</b>	<b>MECHERA 2K18</b>	<b>JAMES College of Engineering and technology, Navalkadu.</b>	<b>National Level Technical Symposium</b>	Paper presentation	ASORIN.V (963316114046)	Third	<b>19.03.2018</b>
					ASWIN.B (963316114047)	Third	
					RATHEESH.C (963315114331)	--	
					ANBALAGAN RAKESH (963315114026)	--	
				Poster presentation	UNIYA.S (963317114172)	First	
					SATHYA SREE R (963317114143)	First	
					JEFIN ROY M (963316114078)	--	
				CAD modeling	BALAMURUGAN.T. R (963315114041)	First	
<b>3.</b>		<b>SCAD College of engineering and technology, Tirunelveli</b>		CAD modelling	BHARATH KUMAR.J.K (963316114057)	First	<b>16.03.2018</b>
				paper plane	NITESH.S (963316114329)	Second	
<b>4.</b>	<b>YANTHRIKA 18</b>	<b>Annai vailankanni college of engineering, Potrayadi.</b>	<b>National Level Technical Symposium</b>	Paper presentation	PALWIN.P (963315114100)	Second	<b>12.03.2018</b>
					ABINESH.M (963315114301)	Second	

					ANBALAGAN RAKESH (963315114026)	--	
				CAD modeling	NITHSH.S (963316114329)	First	
				Master assembly	ANTONY MICHEAL GEORGE J (963316114311)	First	
5.	MESAR 2K18	Cape Institute of technology, Levengipuram.	National Level Technical Symposium	Paper presentation	PALWIN.P (963315114100)	First	10.03.2018
					ABINESH.M (963315114301)	First	
				CAD modeling	BALAMURUGAN.T. R (963315114041)	First	
				Mech Lathe	JEFIN ROY M (963316114078)	--	
6.	MECHARNIC 2K18	Nooral Islam Centre For Higher Education, Kumarakoil.		Project Expo	BALAMURUGAN.T. R (963315114041)	First	08.03.2018
					PALWIN.P (963315114100)	First	
					SIVALINGAM S P (963314114335)	Third	
					NITESH.S (963316114329)	Third	
				CAD modeling	BHARATH KUMAR.J.K (963316114057)	Second	
7.	MECHURUS 2K18	DMI college of engineering, Aralvaimozhi.	National Level Technical Symposium	CAD modeling	BHARATH KUMAR.J.K (963316114057)	First	28.02.2018
				Aqua Missile	BALA SURESH S (963316114052)	First	
					AJITH PONRAJ M (963316114024)	First	
					BALAMURUGAN.T. R (963315114041)	Second	
					BHARATH KUMAR.P (963315114046)	Second	
				Paper presentation	PALWIN.P (963315114100)	--	



				RATHEESH.C (963315114331)	--	
				ANBALAGAN RAKESH (963315114026)	--	
			Lathe	JEFIN ROY M (963316114078)	--	

The Management and Principal of our Institution Congratulated the students for their Achievements.





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learn  
**Today!**  
for a better  
**Tomorrow**

COUNSELLING CODE

**4670**

### INSTITUTE VISION

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## COURSES OFFERED

### UG COURSES

- ◉ BE - CIVIL ENGINEERING
- ◉ BE - COMPUTER SCIENCE AND ENGINEERING
- ◉ BE - ELECTRONICS AND COMMUNICATION ENGINEERING
- ◉ BE - ELECTRICAL AND ELECTRONICS ENGINEERING
- ◉ BE - MECHANICAL ENGINEERING

### PG COURSES

- ◉ ME - COMMUNICATION SYSTEMS
- ◉ ME - COMPUTER SCIENCE AND ENGINEERING
- ◉ ME - THERMAL ENGINEERING
- ◉ ME - CONSTRUCTION ENGINEERING AND MANAGEMENT

**ADMISSION  
HELPLINE**

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