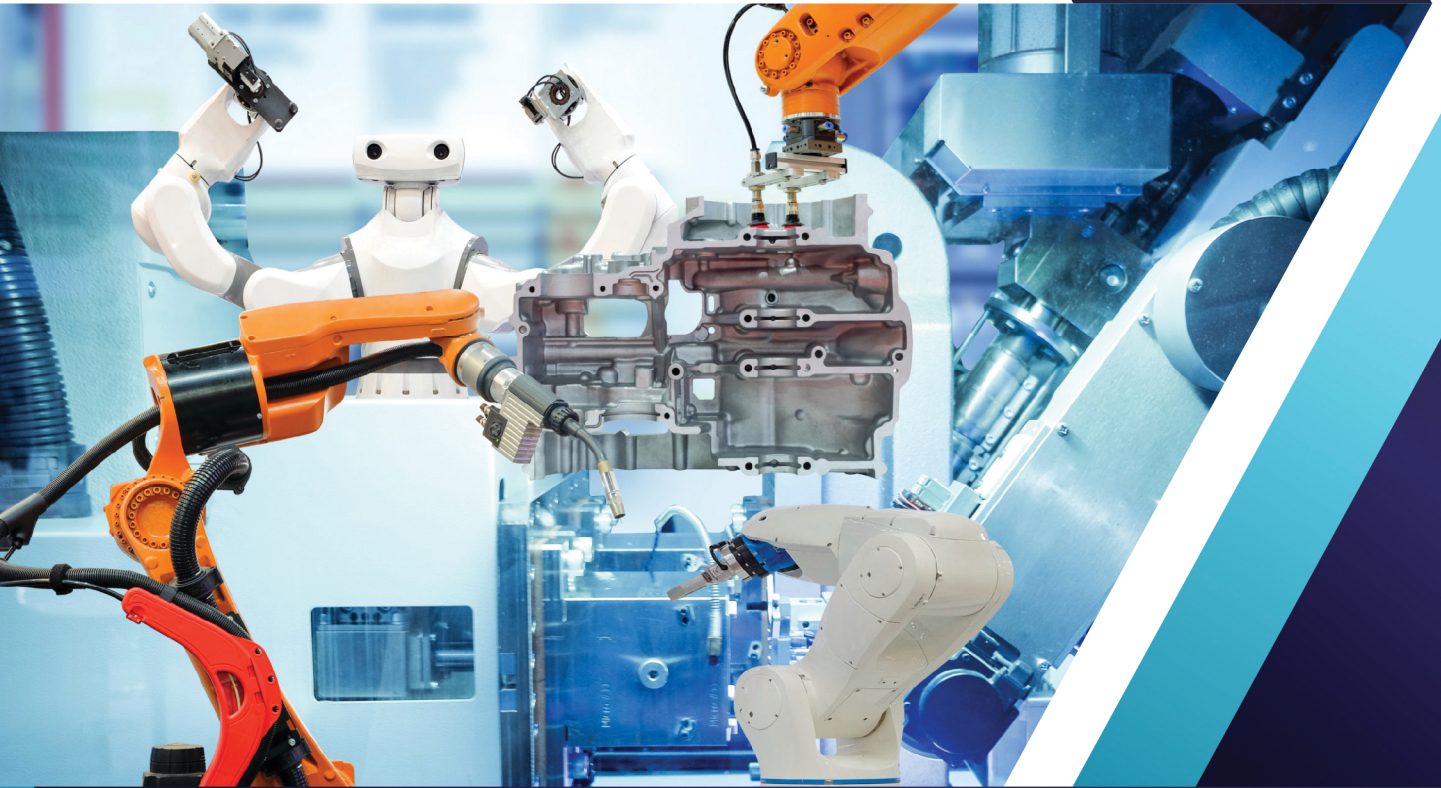




# ROHINI

COLLEGE OF ENGINEERING & TECHNOLOGY

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



MECHANICAL ENGINEERING ASSOCIATION

# MECHANICAL BEATS

OF  
ROHINI

## 2019-2020

VOL 1 | ISSUE V



# Mechanical beats of Rohini

2019-2020

Vol. 1 Issue V

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.



**RESEARCH SCHOLARS MEET-  
A TECHNICAL INTERACTION**

Centre for Research at RCET offer research programme on Material Science. It conducted technical interactive session with research scholars of NIWE. The inauguration happened with the august presence of Principal, Research Head, Heads of various department, Research Scholars and students. R. Rajesh, Principal of RCET gave a presentation on Wind Energy. Also, he guided and encouraged the students, faculty to publish or involve in research work. Research Scholars participated from 23 different countries with a view to encourage young researchers and students for improving their research interests, providing them a platform to share their research work, receiving feedback from the peers and refining their ideas. The event also provides them with an opportunity to interact with the scholars and understand the latest trends in research in the field of Wind Energy.



**ASSOCIATION  
INAUGURATION**

A special guest SHRI.V.THANGAPUTHIAVAN,

SCIENTIST'SG', DIVISIONAL HEAD AI L110, ISRO PROPULSION COMPLEX, MAHENDRAGIRI was invited for the inauguration of "ASSOCIATION OF MECHANICAL ENGINEERS" was held on 17th July 2019 at Rohini College of Engineering Technology, Kanyakumari.

The respected principal, addressed the students on the importance of outlining a road map in order to reach the goal successfully. The head of the department

Dr.D.PrinceSahayaSudherson introduced the chief guest and the office bearers'. The special guest motivated the students to work hard and build career. In the chief guest address, the students were motivated to inculcate leadership qualities in them and stated that association is the arena to exhibit leadership and managerial skills. The office bearers are Mohammed Farooq of IV Mech as Student Vice President, Aswin of IV Mech as Student Secretary and their roles and responsibilities were conveyed. The guest was honoured for his valuable guidance and the event ended with vote of thanks and national anthem.



**FDP ON EFFECTIVE WRITING  
SKILLS FOR THE**

**PREPARATION OF  
TECHNICAL ARTICLES AND  
PATENT**

Believing in the Continuous Development of faculty, RCET organised one day FDP on effective writing skills for the preparation of Technical Article and Patent through TARCET (Technical Association of RCET). Gathering was welcomed and Chief Guest was introduced by Dr.Radhika, Dept. of Chemistry.



Faculty development program (FDP) is the stand-alone educational pedagogy in fostering knowledge and professional skills of faculty. Dr.S.R.Devadasan, Prof./PSG addressed the gathering and deliberated session 1 was on "Effective writing Skills for Technical Articles with Hands on Practice" and Session 2 was on Patent Writing. Dr.R.Rajesh, Principal, RCET extending the heartfelt gratitude to Dr.S.R.Devadasan, Prof./PSG



and Prof.M.V.MuthuKumar, Researcher/PSG for being an

exemplary and visionary mentor. Such FDP's produce promising outcomes in the learning and teaching practices and empower the participant to design the entire research process with hands- on practical inputs for each and every stage of research.



**MACH 2020  
"NATIONAL LEVEL  
TECHNICAL SYMPOSIUM  
ORGANIZED BY DEPT. OF  
MECHANICAL ENGINEERING"**

The Mechanical Engineering Symposium provides an unparalleled opportunity to an individual to increase the depth of his scientific knowledge. The seminars offer an ideal platform to initiate inter-disciplinary work cutting across boundaries. The department maintains a very vibrant academic atmosphere through various academic initiatives.



The Department of Mechanical Engineering conducted a

National Level Technical Symposium MACH 2020 which was presided over by Honorable Chairman, Vice Chairman, Managing Director, Chief Financial Officer, Respected Principal, Heads of the Department, Event Coordinators. Shri.P.Pandarm, Senior Scientific Officer, Nuclear Power Plant, Koodankulam had kindly consented to be the guest of MACH 2020. Chief Guest address was given by Shri.P.Pandarm, Senior Scientific Officer, Nuclear Power Plant, Koodankulam 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. He also encouraged students to elicit innovative ideas and develop their skills by participating in various events to emerge successful in their focused areas.



Events like WATER BALLOON, ART FROM WASTE, AQUA JET, PAPER PRESENTATION, TECH QUIZ, PROJECT EXPO, ENGINE ASSEMBLY, JENGA, MR. MACH, CAD MASTERS were conducted. Students participated in large number with enthusiasm. Different committees comprising of students,

supporting faculty members formed to conduct the symposium.



Faculty members of the department monitored the events and selected the winners. Prizes and Certificates were issued for winners and runners of each event. The certificates for winners were given in the end of the day by the Principal and Head of the Department. Event ended with National Anthem.





## **SEMINAR ON GEOMETRIC MODELLING**

The Department of Mechanical Engineering of Rohini College of Engineering and Technology organized a one-day seminar on Geometric Modelling for III Year Mechanical Engineering students on 30.01.2020 in the Imperial Hall. The function was inaugurated by Principal Dr.R.Rajesh. Dr. Prince SahayaSudharson, Head of the Department Mechanical Engineering.

Mr.Rajakumar and Mr.V.P.PrawynJeba, AP/Mechanical made the arrangements for the seminar. Ms.Subiksha (III-Mech-C) delivered the welcome address. Mr.Selvaraj, MD- Trio CADD who was the Chief Guest of the event was introduced to the students by Dr. Prince SahayaSudharson. The Chief Guest gave a detailed explanation about Geometric modelling and CAD Standards. It gave a great impact to the students about the use of software in the mechanical field. He concluded the speech about discussing the need and roles of a mechanical engineers in the field of design and manufacturing. Session was quiet interactive and students were able to gain and clarify the queries. About 149 students attended the seminar along with the faculty members. The event ended with a vote of thanks by Ms.SathyaSree (III-Mech-C).

## **Guest Lecture on "NON DESTRUCTIVE TESTING QA/QC"**

The department of Mechanical Engineering of Rohini College of Engineering and Technology organized a Guest Lecture on "NON DESTRUCTIVE TESTING QA/QC" on January 30th, 2020 for the IV-year mechanical students. The function inaugurated by Principal Dr.R.Rajesh and Dr. Prince SahayaSudharson, Head of Mechanical Engineering Department, Mr.NavinJass, Mr.Abilesh and Mr.Stanly AP / Mech are the faculty advisors who arranged this session. Mr. Aswin, student of final year A section delivered the welcome address to the gathering.

Mr.BasilGeorge, M.Tech , QC Engineer having six years' experience in offshore/onshore Oil & Gas field was the Guest Speaker of this event and he was introduced to the gathering by Dr.D.PrinceSahayaSudharson, HOD/MECH. The Speaker made the students to have a deep understanding on the basic concepts of Testing and also explained the importance and types of Non-Destructive Testing (NDT). He explained that NDT does not permanently alter the article being inspected; it is a highly valuable technique that can save both money and time in product evaluation, troubleshooting, and research. Then, He explained that NDT covers a wide range of industrial activity, with new

NDT methods and applications, being continuously developed. He also gave information about the ongoing researches on Non-Destructive Testing and made the students aware about the future scope in this domain. He concluded his lecture by a discussion of research project related to NDT. Around 102 students got benefited by this event and they found it to be extremely informative. After the first session, quiz was conducted regarding the NDT techniques explained along with QA/QC by the experts. The experts have promised to sponsor one certification Course for the top five students of the department.

## **GUEST LECTURE ON "HOW TO PREPARE YOURSELF FOR CAREER IN ENGINEERING INDUSTRIES"**

GUEST LECTURE on "How to prepare yourself for career in Engineering Industries" was conducted for the students of Mechanical Engineering. Special focus was on third and final year students.

Dr.S.Arun, Scientist from National Automobile Laboratories, Bangalore guided the entire team. He started with an ice breaking session to create an interactive and friendly environment.

Mechanical Engineering students choose this discipline due to its versatility as it has various career options available after graduation. His tips for engineering aspirants "To be a successful mechanical engineer, some of the most important skills you

can develop are Problem-solving, Creativity, Communication, Teamwork, Math skills.”

Such kind of sessions creates a confidence level in student’s mind which would help them to take a good career decision with right skill what industry demands.

On behalf of the student’s community, the representative thanked the department for arranging such programme. Dr.Prince, Head of the department thanked the resource person for his support.

**NATIONAL LEVEL TECHNICAL SEMINAR ON ADVANCED RESEARCH IN MATERIALS SCIENCE**

Department of Mechanical Engineering organised the National Level Technical Seminar on Advanced Research in Materials Science ARMS-19 on 10th August 2019. Consecutively, this seminar was conducted to equip the students with the basics of modelling and simulation study using computational tools and its application in material science research and industry. The program started at 10am with the Tamilthavazhathu. The light and brightness are always equated with positivity and motivation. Therefore, in the outset of the program the traditional lamp was lit by the Chief Guest, Principal, HODs and students. As usual presidential address was given by Dr.R.Rajesh,Principal of RCET and the gathering was welcomed and chief guest was introduced by Dr.Prince, Head of MecahnicalEngineering.This one day

National Level Technical Seminar on Advances in Material Science was taken into limelight by the chief guest Dr.S.S.SARAVANAKUMAR, Associate Professor- Mechanical Engineering and guest of honour Prof.SENTHAMARAIKANNAN, Assistant Professor, Department of Mechanical Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.



Dr.S,S.Saravana Kumar discussed about the skill set expected by top companies,Insights of Mechanical Engineering Industry, Compensation you can expect and finally the higher education opportunities after completion of the degree.



Prof.Senthamaraikannan in his talk highlighted about the need of Research in the field of Mechanical Engineering and the gap that exists for unemployment problem.



Technical session happened with huge participation. During the valedictory session, the prize winners were rewarded for their performance. Students and faculties got aware of recent trends and research gaps in composite materials. Also got knowledge in Natural fibre composites. Programme got concluded with feedback session and vote of thanks.



**TECHNICAL ACHIEVEMENTS**

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

Academic Year 2019-2020							
SN o	Name of the Programme	Organised By	Level	Event	Won		Date of the event held
1.	MECHATRONZ20	St.Xavier's Catholic College of Engineering, Chungankadai	National Level Technical Symposium	CAD Designing	SURESHKUMAR M J (963318114172)	Third	11.03.2020
				Lathe Finish	JEFINROY M (963316114078)	First	
				Technical Quiz	SURESHKUMAR M J (963318114172)	--	
2	YANTRAESTRIBOS20	DM Engineering College, Aralvaimozhi	National Level Technical Symposium	Water Rocketry	JEFINROY M (963316114078)	First	29.02.2020
				Paper Presentation	PREETH M T (963318114114)	Second	
					INDHUS K (963318114067)	Second	
					SURESHKUMAR M J (963318114172)	--	
					JEFFRINGNANASIGA T (963318114070)	--	
Quiz Competition	SURESHKUMAR M J (963318114172)	--					
3.	JULES FEST-'20	Stella Mary's College of Engineering	National Level Technical Symposium	CAD Modelling	SIMANR (963317114329)	Third	19.02.2020
				Spell Bee	SIDHARTH J A (963318114148)	Third	
				Spell Bee	JEFFRINGNANASIGA T (963318114070)	First	
				General & Mechanical Quiz	SIMANR (963317114329)	First	
					SURESHKUMAR M J (963318114172)	First	
				Mantling & Dismantling	SEELANK (963317114144)	First	
				Speakathon	SEELANK (963317114144)	Second	
				Pencil Drawing	SIMANR (963317114329)	Third	
				Paper Presentation	SURESHKUMAR M J (963318114172)	--	
RATHESHA (963318114127)	--						
AMANDA S (963318114030)	--						

					JEFFRINGNANASIGAT (963318114070)	--	
					SIDHARTHJA (963318114148)	--	
					SENTHILKUMARSL (963318114145)	--	
					INDHUSK (963318114067)	--	
					PREETH MT (963318114114)	--	
4	NAVAYUVA 2k19	Loyola Institute of Technology & Science, Thovalai		Project Expo	JEFINROY (963316114078)	Second	12.10.2019
				CAD	JEFINROY (963316114078)	--	
5	ENTHRAAZ 2K19	SCAD College of engineering and technology, Tirunelveli	National Level Technical Symposium	Mr.Machinist	JEFINROYM (963316114078)	Second	04.10.2019
				Short Film	JEFINROYM (963316114078)	First	
6	MELTRIX 2019	PSN Engineering College, Tirunelveli Dt	National Level Technical Symposium	CAD Modelling	SIMANR (963317114329)	First	25.09.2019
				Paper Presentation	SURESHKUMARMJ (963318114172)	--	
					SIMANR (963317114329)	--	
7	ROADSTER	St.Xavier's Catholic College of Engineering, Chungankadai		Poster presentation	JOSE RAGULBENNR (963316114086)	First	13.09.2019
					JEFINROY (963316114078)	--	
				Project Expo	JEFINROY (963316114078)	Second	
					JEFFRINJ (963316114077)	Second	
					JONSHIP (963316114326)	Second	
8	DRUVA'19	Loyola Institute of Technology & Science, Thovalai	National Conference	Paper Presentation	SURESHKUMARMJ (963318114172)	Second	29.08.2019
					SIDHARTHJA (963318114148)	Second	
					PREETH MT (963318114114)	--	
				Poster Presentation	SEELANK (963317114144)	First	
					ABARNASB (963317114002)	First	
					JEFINROYM (963316114078)	--	
					UNYAS (963317114172)	--	
				Technical Quiz	MJESHHS (963317114100)	First	



					SURESHKUMARMJ (963318114172)	Second	
					SIDHARTHJA (963318114148)	--	
				CADModelling	MJKESHS (963317114100)	--	
					SIMANR (963317114329)	--	
				Project Expo	SEELANK (963317114144)	First	
					JEFINROYM (963316114078)	Second	
					JOSE RAGULBEN R (963316114086)	Second	
9.	SANDEZA2K19	Loyola Institute of Technology & Science, Thovalai		Project Expo	JEFINROY.M (963316114078)	Second	27.08.2019
10.	TEKCLUSTER19	Kongunadu college of Engg & Technology, Trichy	National Level Technical Symposium	CADModelling	SIMANR (963317114329)	First	09.08.2019
				Paper Presentation	TENSONA (963317114167)	--	
11.	SITTHAPRAGYA2K19	KCG College of Technology	National Level Technical Symposium	Prototype Presentation	JEFINROY.M (963316114078)	Second	13.07.2019
				Ship Wreck	JEFINROY.M (963316114078)	--	
				Photography Contest	JEFINROY.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!**

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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

### RESEARCH PROGRAMME | Ph.D in MECHANICAL ENGINEERING

ADMISSION  
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