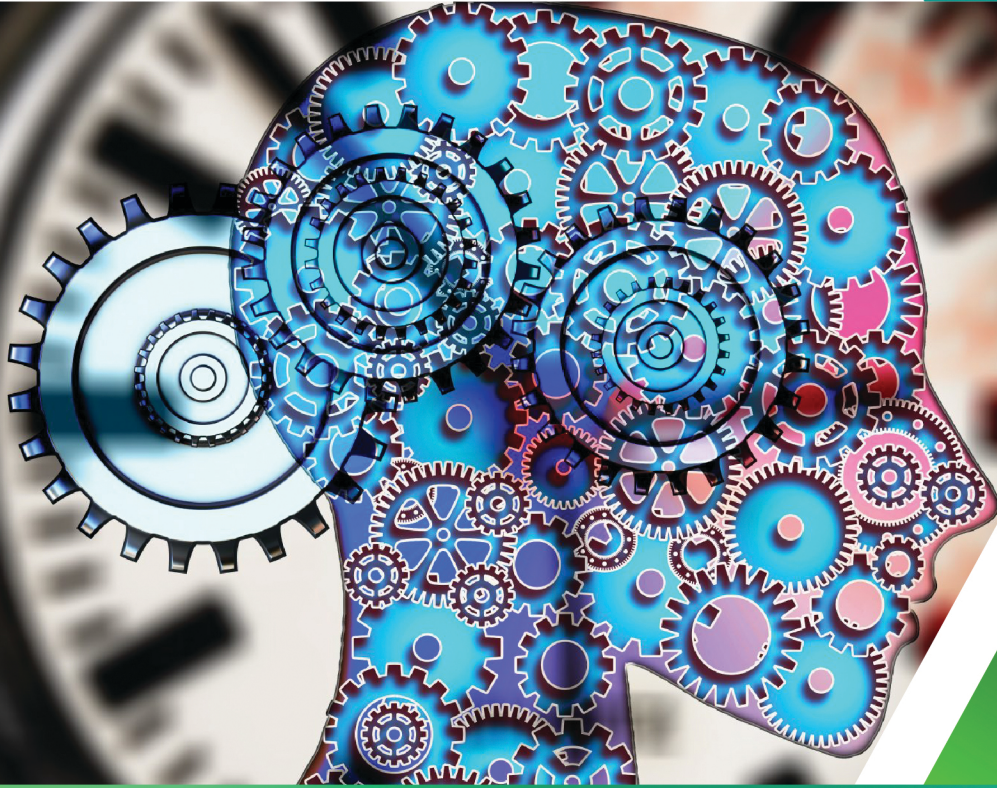




ROHINI

COLLEGE OF ENGINEERING & TECHNOLOGY

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



MECHANICAL ENGINEERING ASSOCIATION

MECHANICAL BEATS OF ROHINI

2018-2019

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Mechanical beats of Rohini

2018-2019

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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.

ECONOMICAL GO-KART ENGINEERING PROJECT

Rohini College of Engineering and Technology offers more than just the typical classroom experience. Students can participate in unique learning opportunities, enhancing their education and providing them with skills to succeed in their future careers. Final year UG students of Mechanical Engineering Department developed an Innovative Product Go-kart. Go-Kart is a type of open-wheeled, small engine, single seated racing car. Go-kart comes in all forms from motor fewer models to high powered racing machines. The go-kart prepares the driver for high speed wheel to wheel racing by helping and develops guide reflex, precision car control and decision making skills. In a go-kart there are mainly six parts were used, they are Chassis, Engine, Steering system, Transmission systems, Tiers accompanied with Brake and Electric Starter.



Our present work is to design and analyse the rear wheel of the scorpion

cart. A seat belt is provided for the protection of the driver. The rear-wheel is suspended to a mono-suspension shock-absorber. The front wheels are normally used wheel for light vehicles and the rear wheel is used for balancing the kart. Here an air cooled motor cycle engine is used and it is placed at the back side of the seat. The design of the vehicle is based on various engineering aspects depending upon Safety and Ergonomics, Market Availability, Cost of the Components, Safe Engineering Practices. The role of suspension in our vehicle is to make the ride less bumpy during long travels. The go-kart of simple three-wheel, among these two wheels on the front of the kart and one as a rear wheel, small engine, single seated car using Creo - 2. This designed scorpion cart has to be analysed using the ANSYS software to find the various stresses acting in different directions.

The entire project was coordinated by Amal James and Abish team of Final Year Mechanical. So, RCET takes pride to encourage a mindset of continuous learning, creative thinking and increased innovation and that will in turn increase the chances of retaining quality, commitment and gives an opportunity to try out new ideas, and new ways of thinking and problem-solving.

TWO-DAY WORKSHOP ON "MR.ENGINE"

Department of Mechanical Engineering (the oldest and broadest

engineering discipline), Rohini College of Engineering and Technology in association with Honda (South Region) Inaugurated a two-day workshop on "Mr.Engine" which is co-sponsored by ISME(Indian Society of Mechanical Engineers)

The session started with the august presence of Honourable Chairman Shri K.NeelaMarthandan, Respected Vice Chairman Dr.Mohan Neela Judith, Venrable Maanging Director Dr.Neela Vishnu N,Chief Financial Officer Dr.Blessy Geo, Respected Principal Dr.R.Rajesh, Heads of the Department ,The chief guest Er.D.VelMurugan, Sr.Service Manager, Southern Honda.



The gathering was whole heartedly welcomed by the Student Representative of III MechAshwin. Respected Principal gave an inspirational talk to the students stating that" it is very important to get hands-on experience and training to get a good job in a reputed firm. This provides the insights and tips and tricks of using these new emerging technologies". Dr.Indran, Head of the Department, Mechanical Engineering, introduced the Chief Guest and welcomed the gathering. The session was handed over to the resource

person. Engine components were explored and both Theory and Practical Session was conducted.

Er.D.VelMurugan talked about the chassis design, working of Suspension unit, Steering system, Braking unit, Transmission, Fuel Supply System, IC Engine “Engineering students should develop a multi-disciplinary approach to achieve proficiency”, said Er.D.VelMurugan, Sr.ServiceManager,Southern Honda.



A total of 200 students attended the workshop. This workshop has been designed to be practical with lectures, examples and exercises to provide skills, encourage participation and exchange information. Finally certificates were distributed and Head of Department shared his heartfelt thanks to the Students and Management for experiencing a sense of achievement and satisfaction. Therefore, workshop will provide not only essential knowledge but also a great opportunity to share experiences both technical and regulatory issues.



ENTREPRENEURSHIP

DEVELOPMENT INNOVATION CELL

Rohini College of Engineering and Technology takes pride in inaugurated the Entrepreneurship Development Innovation Cell (EDIC) on 8th January 2019. The EDIC aims to motivate and train the students for moulding them as an entrepreneur or an innovator. The Board of Directors, Chief Guest Dr.S.SilasSargunam, Deputy Director (Affiliation) & HUB Coordinator, AURCT-IEDP HUB Anna University Regional Centre, Tirunelveli,



The guest of honour Mr.M.SivaBharathi, Field Coordinator, AURCT-IEDP HUB, Anna University Regional Centre, Tirunelveli ,Heds of all Streams presided over this auspicious event. The event started with lamp lighting to brighten the path of our final year students. Presidential address was delivered by respected Principal Dr.R.Rajesh. A man with a vision who believes in the power of education. The Chief Guest of the Day and Guest of Honor was introduced by Assistant Professor J.K.Manoj, Mechanical Department and EDIC Coordinator. Chief Guest delightfully delivered his words of wisdom to the budding Engineers. In his speech, he redefines

the role of the youth to make them more independent through EDIC.

Followed by, Respected Principal honoured the Chief Guest Dr.S.SilasSargunam and Mr. M. Siva Baarathi for fostering the spirit of entrepreneurship among the students and rendering the wonderful service to the student community. Respected Principal Dr.R.Rajesh was thanked for rendering an indomitable support to create a fruitful vision for our students.



Entrepreneurship

Development Cell strives to inspire and integrate a culture of innovation through a conducive entrepreneurial ecosystem to help budding entrepreneurs realize their dream to start up their own enterprises”. The session was handed over to the Chief Guest who explained the aim of EDIC and defines the entrepreneurial skills like idea generation, opportunity evaluation, business modelling, cash flow, forecasting, negotiation & sales skills through mentoring session.

FACULTY DEVELOPMENT PROGRAMME ON “ME6502-HEAT AND MASS TRANSFER

The seven days faculty development programme on “ME6502-HEAT AND MASS TRANSFER” was held at Rohini

college of Engineering and Technology, Anjugramam, Kanyakumari District, from 1st June to 7th June 2018 organized by Department of Mechanical Engineering. This FDTP is approved by Center for Faculty Development, Anna University Chennai. This FDTP was coordinated by Prof.J.K.MANOJ and Prof.J.JAGAN RAMDHAS, AP, Department of Mechanical Engineering, Rohini College of Engineering and Technology. Besides the coordinators, the resource people having sound knowledge in Heat and Mass Transfer.



The first two sessions was conducted by Prof.Dr.RAJESH, Principal, Rohini College of Engineering and Technology under the title "Introduction and Basics of Heat Transfer and conduction principles". A couple of sessions on various days were handled by External experts under the title as Dr.J.BRUCE RALPHIN ROSE, AP, Anna University Regional Campus – Convection Heat Transfer. Dr.U.ARUNACHALAM, AP, University College of Engineering Nagercoil – Radiation Heat Transfer. Dr.M.EDWIN, AP & Head, University College of Engineering Nagercoil-Boiling and Condensation.



The important part of the Training Programme was working out solution to the previous year question papers collected over past 5 years. The participants also enjoyed learning and benefitted from the relevant application of the topic covered.



In addition to that the participants gained immense practical knowledge towards understanding of the subject (Heat Exchangers etc) by the visiting Kudankulam Nuclear Power Plant (NPCIL-KKNPP) and various Refrigeration plants. The industrial visit were more effective and useful to the participants to understand the topics pertaining to Conduction and Convection principles.



Participants from neighboring colleges and participants from the home institution (Rohini CET) benefitted from this Faculty Development and Training Programme.

The feedback received from the participants revealed that they understood the concepts of Heat and Mass Transfer. And also, they could able to apply thermal principles in Heat and Mass Transfer.

4DAYS SPECIAL NSS CAMP OF MECHANICAL ENGINEERING DEPARTMENT

The Mechanical Engineering Department organizes a special NSS Camp in Agasteeswaram area where our students actively involved with our Faculties and done some great works. On Day 1, Volunteers rallied into the streets of the village to create awareness among the villagers about the ensuing special camp programme in their village. This was followed by an inauguration with the august presence of honourable chairman Shri K. Neela Marthandan, Vice Chairman Dr.Mohan Neela Judith, Managing Director Dr.Neela Vishnu, Principal Dr.Rajesh R. The programme was started with lightening the lamp and



NSS song. Physical training was given by Physical Director Prof.Ganesan followed by that, road maintenance

work was carried out in and around the village. The day was ended with the moral guidance of Prof. Loganathan, Dept. of Mechanical, Rohini College of Engineering and Technology. He delivered a talk on “The Role of Youth in Community Service”.

On Day 2, Physical training was given by Prof. Ganesan, Physical Director followed by that, Environmental Pollution and The Quality of water was tested in Agateeswaram Village. Being an engineers, Students created an awareness about Computer Technology and initiated the digitalization of all the Paper works and cleaned the Agateeswaram School campus.



A Brain storming session was organized. Thoughts and ideas were exchanged on Leadership quality and



Team Spirit and importance of collective responsibility in achieving common goals of community service ,conducted by Prof.Jebash Samuel, Placement Officer,Rohini College of engineering and Technology,Special address was given by Dr.Mathu Suresh V.S , Professor, Science and Huanities, Rohini College of Engineering and Technology and Mr.Arasu, Day2 was successfully coordinated by Prof. Naveen Jass,Dept of Mechanical Engineering.

On Day 3, With the usual Flag Hoist and NSS Song the day was started and Physical Training was given by Prof.J.K.Manoj, Assistant Professor, Dept.of Mechanical Engineering and delivered a fruitful talk on “The Role of Engineering Department in Agriculture”. The churches of the village was cleaned and Volunteers collected about 200 saplings from nearby Nursery and brought them into the village and started planting saplings. All the volunteers formed several groups of 4-5 and were advised to plant two saplings in the gardens, courtyards and safe places of every house in the village. Encouraged the volunteers and villagers by joining the plantation programme.



On Day 4, camp was creation of healthy society through community health services .The physical training

was given by Prof.Joe Britto,Dept. of Mathematics.Special guest from Govt.Primary Health Centre Officer Dr.Saraswathi M and Agateeswaram Health Superintendent Mr.Varghese Raja gave an Awareness talk to build a healthy society. In the afternoon session,Knowing the importance of Yoga,Incharge of Vivekananda Kendra Mr.Vijaya Raghavan C practiced Yoga with the Volunteers. Day4 was successfully coordinated by Prof. Arjun, Dept of Mechanical Engineering.



CULTURAL ACHIEVEMENT

Students of Mechanical Engineering Participated and won prizes in a cultural event organized by Nesamani Memorial Christian College.

In Clay modelling our mechanical student Kavin Jithenthara won 1st Prize.

In Dance Western our following Mechanical students Kavin Jithenthara, Karpaga Vinayakam, Haran, Rajunesh, Prakash, Arun kumar, Jackson Xavier won 1st Prize.

In MIME our Mechanical student Abishek won 1st prize,

In Dance Folk our Mechanical Students Rajunesh, Sathish, Rabin, Vignesh, Tharsan won 2nd prize.

SWACCH BHARATH AT ROHINI COLLEGE OF ENGINEERING AND

TECHNOLOGY

Our Mechanical Engineering Students actively Participated in the Swacch Bharath scheme organised by ROHINI College of Engineering and Technology and cleaned our campus. The Managing Director Dr. Neela Vishnu and the Principal Dr. Rajesh congratulated the students for their service.

SWACCH BHARATH AT AGASTEESWARM GOVERNMENT PRIMARY HEALTH CENTRE

Our students of Mechanical Engineering actively participated in the Swacch Bharath scheme organised by ROHINI College of Engineering and Technology and cleaned the Agasteeswaram Primary Health Centre. The function was inaugurated by Dr. M. Saraswathy, Block Medical Officer, Primary Health centre, Agasteeswaram.

**ROAD SAFETY AWARENESS**

The road safety awareness programme

was inaugurated by Mr. Rahul Kumar, Head, HR and Mr. Vikram Chauhan, HR, Hella India Lighting Ltd., Punjab. The Students of Mechanical Department actively participated in the rally from Kanyakumari Gandhi Mandapam to Kovalam and created awareness to the public about the safety measures on and off the road. The Principal Dr. R. Rajesh congratulated the students for their activity.

BLOOD DONATION CAMP

The students of Mechanical Engineering actively came forward to



donate their Blood for helping the needy in the Blood donation camp organised by ROHINI College of Engineering and Technology. The function was inaugurated by Dr. Caroline Geetha, District Blood Bank Medical Officer, Kanyakumari Govt. Medical College. The Chief Guest, the Managing Director and the Principal congratulated the students who came forward to donate their blood for their service.

TECHNICAL ACHIEVEMENTS

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

Academic Year 2018-2019

<i>S.No.</i>	<i>Name of the Programme</i>	<i>Organized By</i>	<i>Level</i>	<i>Event</i>	<i>Won</i>	<i>Date of the event held</i>	
1.	STRINGERZ 2K18	RAJAS Engineering college, Vadakankulam	National Level Technical Symposium	Mr.Machinist	JEFIN ROY M (963316114078)	--	04.10.2018
				Humty Dumty	JEFIN ROY M (963316114078)	--	
2.	MECHCONS 2K18	PET Engineering College, Valiyoor.	National Level Technical Symposium	Poster presentation	JEFIN ROY.M (963316114078)	Second	27.09.2018
3.	MECH KSHETRA '18	Loyola Institute of Technology and Science, Thoralai.	National Level Technical Symposium	Water Rocketry	TENISON.A (963317114167)	First	07.08.2018
				Technical Quiz	TENISON.A (963317114167)	First	
					PALWIN.P (963315114100)	First	
					CAD Modeling	SIMAN.R (963317114329)	
				VISHNU.S.K (963317114181)		Second	
				JEFIN ROY M (963316114078)		--	
				Project Expo	PALWIN.P (963315114100)	Second	
					RATHEESH.C (963315114331)	Second	
					NITESH.S (963316114329)	Second	
				Poster presentation	JEFIN ROY.M (963316114078)	Second	
4.	MECHANIZE'18	Bethalahem college of Engineering and Technology, Karungal.	National Level Technical Symposium	CAD Modelling	BHARATH KUMAR.J.K (963316114057)	First	2018
					SIMAN.R (963317114329)	--	
				Lathe master	PRADEESH.R	First	
					JEFIN ROY M (963316114078)	Second	
				Spell Bee	TENISON.A (963317114167)	First	
				Paper presentation	SIMAN.R (963317114329)	--	
					Technical Quiz	JEFIN ROY M (963316114078)	

				<i>Master Assembler</i>	ANTONY MICHEAL GEORGE J (963316114311) SIMAN.R (963317114329)	<i>Third</i>	
						--	

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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4670

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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
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