



ROHINI

COLLEGE OF ENGINEERING & TECHNOLOGY

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



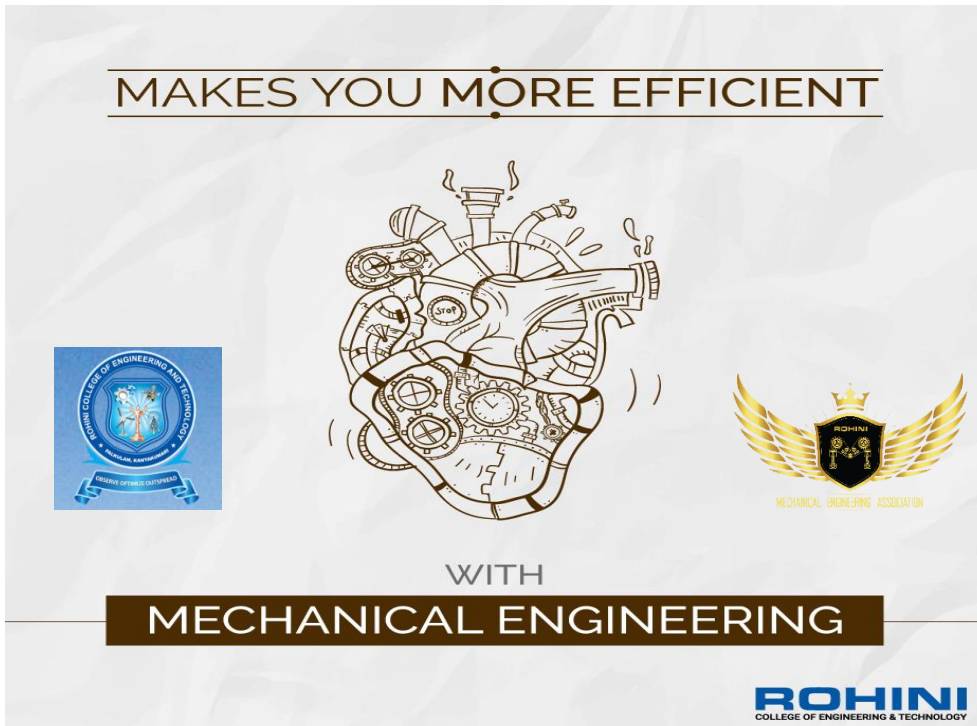
MECHANICAL ENGINEERING ASSOCIATION

MECHANICAL BEATS

OF
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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.

A NEW INNOVATION FOR THE BENEFIT OF FARMERS

Our final year UG students are developed an Innovative Product for Coconut/Palm Tree Climbing Machine and delivered to a former in the year 2018 under the guidance of the department head Dr.S.Indran. The main goal of this project is to minimize human efforts required for coconut tree climbing, and the most important to provide safety to the climber. The wastage of time for climbing has to be reduced. Nowadays in city areas climbers are not available because of that the wastage of coconut increasing day by day. Also these matured coconuts are not innocuous for human if we are not harvest that it can be harmful to the human.

Coconut is one of the cash crops in India. India is one among the top players of coconut producers in the world. The plantation and harvesting of coconut plant is a time taking process. Traditionally this job is taken up by the socially and economically backward people in India. As the literacy rate increases and India is growing economically, there are several high paid jobs which people move to. It also a risky job in which an accident might be fatal in some cases.



Without proper insurance coverage, this could be a blow to the entire family if the climber is the lone person to earn and take care of the family. It is also found that, people engage in this job for several years develop issues related to their skin. Better solutions have to be identified to harvest coconuts since the job is risky in nature. So that, our final year students taken up this as an idea to develop an innovative product.

The conventional way of harvesting is by climbing the coconut tree can be evaded by this product. If the climber climbs on tree and falls from the height of 90 feet then downright he will die. So we conclude that this machine can be used in future and this agricultural product will be a boon for the farmers. Student of Department of Mechanical Engineering in Rohini College of Engineering and Technology, Kanyakumari district has made a New Innovation Project to protect the crop field from animals like monkey with the minimum cost for the benefit of farmer.



S.P.Sivalingam final year student from Mechanical Engineering Department has invented an Air Compressing Device with the help of Dr.S.Indran,

Head of the Department and with the guidance of his professors to protect the crop field from wild animals like wild boar and monkey for the benefit of farmers.



When the student was saying about the device. The new device will be used to evacuate single animal. The bullets used in this device has of some tree hard seeds reinforced clay in it. By using these kind of bullets the animals will not be injured and new trees will be grown by the seeds in the bullets. He also has made a new device to evacuate group of animals with the use of LPG gas instead of compressed air and more number of seed bullets. Dr.S.Indran, Head Mechanical Department has informed that the cost for manufacturing this device is Rs.260/- and it will be for sales at Rs.300/- for Farmers. Arrangements will be made to sell the device in public. The Award for new Innovations in Engineering colleges at Kanyakumari District has been given to the student S.P Sivalingam by the District Collector Mr.Sajann Sing Chaun, Rohini college Chairman Shri Neela Marthandan, Vice chairman Dr. Neela Judith, Managing Director Dr Neela Vishnu and the Principal Dr

.R.Rajesh has congratulated and honoured the Student and the Professors of Mechanical Engineering Department.

ONE DAY SEMINAR ON “WE IGNITE YOU THROUGH MOTIVATIONAL TALK

Department of Mechanical Engineering organized a program on Counseling and Motivation for the freshers on August 21, 2017 with the initiation of the management. The program started at 10am with the Tamil thali Vazhthu. 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. The Chief Guest certainly needed introduction so Dr. S Indran, HOD, Mechanical Engineering introduced the guest speaker Prof. J.JENIX RINO, Prof – AU - Chennai .

Our Vice Principal delivered the presidential address. He inspired the students with his golden words. Then the program was taken over by the guest speaker Prof. J.JENIX RINO. He motivated the students by introducing innovative methods to inculcate the students. His session was both interactive and inspiring. He insisted the students to set goals in everyday life. He motivated them to have leadership qualities and to have a strong foundation in what they choose to do in life also shared the 4 pillars of a successful, happy and healthy life.

“True success comes when you achieve success in health, wealth, relation and spirituality” said Prof. J.JENIX RINO. Interactive session was carried out after the formal meet for the students on “Fight with fear”. He made the students to understand the barrier that cause them from achieving success through ice breaker and team building activities. During the session he stated that fear is a phenomenon which coils inside your mind. Fear of failure doesn’t make you proceed towards your goal. It makes you feel depressed like ‘If I fail what will happen?’. If you want to turn your dream into reality then you have to learn the art of fighting fear. Fear can frustrate you before moving a step forward. It has the capacity to shatter you. Ward off the fear and rekindle the courage inside you. If you develop the hidden power of courage then you can demolish a mountain also. You can make impossible to possible.

At the end of the session, “He instructed them to look for only positive things in and around themselves. He advised them to love themselves and the subjects they have chosen to study”. After listening the success story of the chief guest the students felt ecstatic. At the end of the program, the students promised to follow his valuable instructions and guidance. The program was wrapped up with the National Anthem.

SPECTRA '17

On Day 5, Department of Mechanical

Engineering organized various technological competitions. In this occasion, Senior Design Engineer Mr.S.R.Muthu Krishnan, Mercedes-Benz research and Development India, Bangalore gave a talk on “Research and Development in automobile Field” motivated the students to explore the vast horizon of Technology. R&D is a strategic and long-term process; automotive R&D relies on significant investment and, increasingly, partnership with stakeholders. It takes time to carry out R&D and undertake thorough tests to deliver production-ready technologies. Bringing them to market is yet another step, which is why vehicle manufacturers need decade-long lead-times to implement new technologies and requirements.



Transport and mobility are a prerequisite for economic prosperity and social activity, but also pose significant challenges for sustainability. In the decades to come, automotive research focus on areas such as transport rationalization, improving road safety and focusing on the environmental impact of increased mobility needs. R&D improves the current technologies offered by an organisation or to develop innovations that strengthen the organisation’s position in the marketplace.

Mr.S.R.Muthu Krishnan, Senior Design Engineer, Mercedes-Benz research and Development India, Bangalore.

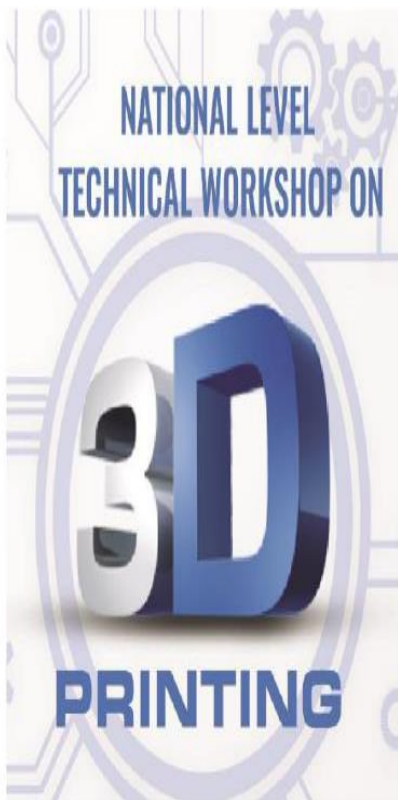


3D Printing Technology. It aims at revolutionizing the classrooms by making students aware of this futuristic technology.



processes in which material is joined or solidified under computer control to create a three-dimensional object with material being added together (such as liquid molecules or powder grains being fused together). 3D printing is used in both rapid prototyping and additive manufacturing (AM).

NATIONAL LEVEL TECHNICAL WORKSHOP ON “3D PRINTING”



The Board of Directors, Chief Guest Dr. S. Rajakumar, Head, Department of Mechanical Engineering, Anna University, Tirunelveli graced the occasion. Student Visalatchi of III Mechanical Engineering delivered the welcome address and introduced the Chief Guest. The Principal delivered the speech on “The importance of 3D printing to the Engineers”. He congratulated the Department of Mechanical Engineering for organizing this workshop and welcomed the participants. The opening remark was made by Dr. S. Indran, Head of Mechanical Engineering, Convener of the workshop. Chief Guest Dr. S. Rajakumar, Head - Dept. of Mechanical Engineering, started the session with the introduction on 3D Printing highlighted the key features of 3D Printing.

Session 2 started with the Hands-on session on using Sketch up basic Geometrical shapes & a customized mini project; Demos of Tinker CAD, Open SCAD, Designing Code, various types of 3D Printers. He started the session with Live demo of Printing, STL principles, Print Bed Calibration, Object placement. The 3D Printing workshop is first of its kind in the arena of creativity; computerized manufacturing techniques designed especially for students to advance learners. Several students from other colleges participated and got benefited from this workshop. Certificates were distributed to all the participants.

Rohini College of Engineering and Technology, the Department of Mechanical Engineering organized “A National Level Workshop on 3D Printing” on 11.08.2017 for Mechanical Engineering students. Department of Mechanical Engineering takes pride in providing experiential learning processes at the grass root level through



He explained the basic principle involved in 3D Printing, evolution of 3D Printing. 3D Printing refers to



This workshop on 3D printing helps the participants to understand the design, functioning and operation of a basic 3D Printer. The Resource person and the Principal congratulated the organizing

committee and the participants for making the workshop a grand success one.



CULTURAL ACHIEVEMENTS

The students of mechanical engineering have participated in a cultural fest **CALIDA FESTA'17 organized by St. Xavier Catholic College of Engineering**, Chunkankadai and won many prizes.

Our students Sathish Kumar M, Tharshan, Sahaya Rabin, Vignesh R and Rajunesh B won **1st prize** in Group Dance (Folk).

Our students Karpaga Vinayagam, Haran, Viju Mon, Kavin Jithenthart T and Prakash won **1st Prize** in Group Dance (Western).

Our student Abhishek won **2nd prize** in Super Actor.

Our student Kavin Jithenthart T won **1st prize** in Clay Modelling.

Our student Viju Mon won **3rd Prize** in Foot Loose.

Our student Abhishek won **2nd Prize** in Ad – MAD.

Our students Sree Hari, Abhishek A, Yedhu and Salim Sha won **2nd prize** in Group Song.

Our student Kavin Jithenthart T won **2nd Prize** in Pencil Sketching.

The Managing Director and the

Principal of our College congratulated the students for their achievement.

Our student Viju Mon won **2nd prize** in Non-Classical Dance in a cultural event organized by **VIRAMAMUNIVAR SPEAKERS' FORUM**. The Managing Director and the Principal of our College congratulated the student for his achievement.



Our Mechanical students have participated in a cultural event **KUMARI KALAI KAZHAGAM'17** and won many prizes.

Our student Kavin Jithenthart.T won **2nd prize** in drawing. For Group dance, our department students Rajunesh, Satheesh, Rabin, Dharshan, Vignesh, Haran E, Kavin Jithenthart.T, Karpagavinayagam has won **1st Prize**. For Solo Cinematic Song Abishek, Kavin Jithenthart T won **3rd Prize**. For Group Song Abishek won **3rd Prize**. For Karnatic Song Yedhu won **3rd Prize**. The Managing Director and the Principal of our College congratulated the students for their achievement.

Our Mechanical students Thangavelu, Velayudham won **2nd Prize** in Photography. Kavin, Jithendar, Anandha, Vishnu, Ashish, Haran, Karpaga Vinayagam, Vijumon won **3rd Prize** in Variety Show in the event

MCA Festa 2K17 organised by CSI Institue of Tehnology, Thoivalai. The Managing Director and the Principal of our College congratulated the students for their achievement.

Our Mechanical students Kavin, Jithenthart T, A. Amos Paul, Anandha Vishnu, Viju Mon, Haran, Rajunesh, Karpagavinayagam won **2nd Prize** in Group Dance, Kavin Jithenthart T won **3rd Prize** in Clay Modelling in the event NEMIC FEST' 17 organised by Nesamani Memorial Christian College. The Managing Director and the Principal of our College congratulated the students for their achievement.



Our Mechanical students Kavin, Jithenthart, Karpaga Vinayagam, Haran, Rajunesh, Prakash has won **2nd prize** in Group Dance in the event **ROTOAYUTSAV 2017**. The Managing Director and the Principal of our College congratulated the students for their achievement.



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							
S.No.	Name of the Programme	Organized By	Level	Event	Won		Date of the event held
1.	VV YENTHIRAZ' 2k17	VV College of Engineering, Tisayanvilai.	National Level Technical Symposium	Paper presentation	PALWIN.P (963315114100)	First	13.09.2017
					SHANKAR M (963315114132)	First	
				Nut & Bolt	ASHISH H JINU SAM (963315114036)	First	
2.	REC TECH – FEST'17	RAJAS Engineering college, Vadakankulam.	National Level Technical Symposium	Paper presentation	PALWIN.P (963315114100)	First	30.08.2017
					RATHEESH.C (963315114331)	First	
3.	MELTRIX 2017	PSN Engineering college, Tirunelveli Dt	National Level Technical Symposium	CAD modeling	PRAVIN THANARAJ A (963315114108)	First	28.08.2017
				Paper presentation	PALWIN.P (963315114100)	--	
					RATHEESH.C (963315114331)	--	
4.		CSI Institute of Technology, Thovalai.		Paper presentation	PALWIN.P (963315114100)	First	
					ANBALAGAN RAKESH (963315114026)	First	
				CAD modeling	BALAMURUGAN.T.R (963315114041)	Second	
					PRAVIN.S (963315114107)	Third	
5.	International Day for Disaster Risk Reduction - 2017	Disaster Management & Disaster Mitigation society, kanyakumari Dist	District Level	Paper presentation	ANBALAGAN RAKESH (963315114026)	Third	11.10.2017

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

ADMISSION
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