

MECHANICAL *Beats* OF ROHINI

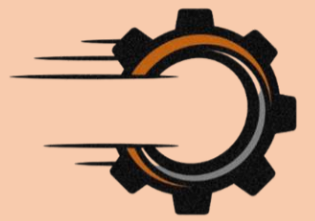


THE DEPARTMENT NEWSLETTER



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ABOUT THE DEPARTMENT

The Department of Mechanical Engineering started in the year 2012 with an initial intake of 60 students to the B.E Program and increased to an intake of 120 students from 2013 and 180 students from 2014. The Department offers ME - Thermal Engineering Programme from 2015 with an intake of 24 students. The Department is a recognized Research Centre by Anna University Chennai from the year 2019. The department accomplish outcome Based Education which help the students to learn, develop and serve to the society. The Department has experienced and dedicated faculty with a wide range of specialization namely Thermal Engineering, Engineering Design, Manufacturing Engineering, Energy Engineering, CAD/CAM, Industrial Engineering, Mechatronics and Automobile Engineering.

The faculty members have published more than 100 papers in National/International journals/Conference and had written books, filed patterns during the last 3 years and received many awards. The students were motivated by providing lot of opportunities like technical presentation in Symposium, conferences for skill development. The department provide value added knowledge to under graduates and post graduate students. Apart from curriculum students were motivated to participate in sports. The department has well established laboratory facilities to conduct research work on different specialized areas like Material Science, Renewable Energy, Thermal Science. The students of the department have received external research funding from Tamil Nadu State council for science and technology in recent years. The students of the departments have joined in reputed industries through placements and some of them are turned to be an entrepreneur. The department has a good network of alumni.

VISION

To inculcate competence in the field of mechanical engineering for the students by providing quality education and learning opportunities to become ethically strong engineers for the development of society.

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 the students' leadership quality through employability skills with ethical values.



ONE DAY INDUSTRIAL VISIT TO COCHIN PORT AUTHORITY

We, the Department of Mechanical Engineering arranged a one-day industrial visit to Cochin Port Authority for Mechanical Engineering students at Rohini College of Engineering & Technology on 08th November 2024.

About Cochin port authority, it is believed that the Cochin Port was formed in AD 1341 as a result of the heavy floods in the river Periyar. The then harbor Muziris got silted up during the floods and a new opening formed at Cochin. Thereafter, Cochin was developed as a trading hub and visited by several international travelers. Colonial conquerors having trading interest administered the Kochi area for centuries. The transformation of Cochin from a mere roadstead into a modern harbor is credited to Sir Robert Bristow, the harbor engineer who implemented the decision of the then rulers by creating a proper shipping channel by cutting the sand bar at the mouth of the harbor, during his two decades stint at Cochin (1920-1941). The first ship entered the Cochin harbor on 26th May 1928. Thereafter, road-rail networks were introduced to Cochin, connecting important inland trading points, making the harbor the important trading hub on the Kerala coast.



This industrial visit aims to provide the students with real world practices knowledge about the machineries in the ship and how those operate while sailing and off the shore. A Group of 44 students and 2 faculty members embarked an industrial visit to the cochin port authority at Cochin, to learn the working principles, challenges, and the real scenario of the machines in the vessel. A one-day visit to the cochin port authority gave ideas regarding the factors that can affect the running of the vessel on and off the shore, various measures that are taken to maintain the vessel while sailing etc. The students were taken as a tour from the captain's deck to the engine room explaining all the available equipment's in the ship and the safety measures available during hard times while sailing the vessel. The outcomes of the industrial visit provided students an experiential learning with a deep understanding of the concepts they learned in the classrooms.



The industrial visit came to the conclusion after having a brief discussion with the Chairman of the Cochin Port Authority. The meeting began with an enthusiastic talk by the vice chairman of the cochin port authority. A small refreshment was arranged in the conference room in the cochin port authority. The chairman of the cochin port authority Shri. Kasiviswanathan then addressed the students. He gave a clear idea about the importance of education in life and various career opportunities for mechanical engineers in the marine sector. He also explained about his life journey from a simple first graduate family to the chairman of the cochin port authority. This inspired our students and the visit comes to the end.

ONE DAY INDUSTRIAL VISIT TO COCHIN SHIP YARD

We, the Department of Mechanical Engineering arranged a one-day industrial visit to Cochin Ship Yard for Mechanical Engineering students at Rohini College of Engineering & Technology on 09th November 2024.

About the Cochin Ship Yard, Cochin shipyard is one of the leading shipbuilding & repair yard in India, which has an infrastructure that combines economy, scale, and flexibility, and has ISO 9001 accreditation. CSL also has an exclusive area set for offshore construction and future expansion. As one of the India's top 10 public sector undertakings, CSL has been rated excellent by the Government of India, four times in a row for achieving the targets set for the yard under the MOU system with specialized industry knowledge and superior resources, CSL has constantly unfolded new levels of excellence in shipbuilding and ship repair. As a technology leader in India, CSL has adopted the Japanese Integrated Hull Outfitting and Painting system (IHOP) for its new construction, which gives a clear edge to CSL in the field of fabrication of commissioning of accommodation modules & topside modification.



This industrial visit aims to provide the students with real world practices knowledge about the machineries in the ship yard and how those operate when a vessel arrives for and during maintenance. A Group of 44 students and 2 faculty members embarked an industrial visit to the cochin ship yard at Cochin, to learn the working principles, challenges, and the real scenario of the machines in the ship yard for repairing the vessel. A one-day visit to the cochin ship yard gave ideas regarding the complete operation and working of the equipment's which are available in the ship yard for the maintenance of the vessel, various measures that are taken to maintain the vessel, how the arriving ship is taken into the yard for scheduled maintenance etc. The students were taken as a tour throughout the entire ship yard explaining all the available equipment's in the ship yard for repairing the vessel and the safety measures available during loading the vessel to the maintenance area. The outcomes of the industrial visit provided students an experiential learning with a deep understanding of the concepts they learned in the classrooms.

ONE DAY INDUSTRIAL VISIT TO INDIAN RARE EARTHS (IREL) ALUVA

We, the Department of Mechanical Engineering arranged a one-day industrial visit to Indian Rare Earths, Aluva for Mechanical Engineering students at Rohini College of Engineering & Technology on 10th November 2024.

About Indian Rare Earths Aluva, IREL (India) Limited is an Indian Public Sector Undertaking based in Mumbai, Maharashtra. It specializes in mining and refining rare earth metals. It has installed capacity to process about 10,000 MT of rare earth bearing mineral. As regards production, capacity and capabilities in terms of mining, processing, extraction, refining and production of high pure RE oxides is adequately available in India. This plant, the first unit of IREL, was made operational way back in 1952 for processing of monazite, whose capacity was subsequently increased by about three times. Rare Earths Division (RED), Udyogamandal, Aluva is located on the banks of Periyar River in Kerala at a distance of 12 km from the port city of Kochi and 15 km from Kochi International Airport. In the year 2012, the plant was refurbished to process mixed rare earth chlorides. It produces high pure individual rare earth compounds of lanthanum and cerium in oxide and carbonate form, and that of neodymium-praseodymium, samarium, gadolinium and yttrium in oxide and oxalate form (with more than 99% Purity). RED also produces strategic materials for the Department of Atomic Energy.



IREL Technology Development Council (IRELTDC) is formed with an objective of promoting industrial scale R&D that would be beneficial to the overall programme of DAE in both strategic and non-strategic fields utilizing mineral & value-added products of IREL. Council invites funds and monitors R&D project proposals from CSIR, IITs, State & Central laboratories, for large scale application & exploitation on the areas of technology of mutual interest.

This industrial visit aims to provide the students with real world practices knowledge about the machineries in the Indian rare earths, Aluva which is installed in the year 1952 and how those equipment's operate during the production of rare earths minerals which are available in the periodic table. A Group of 44 students and 2 faculty members embarked an industrial visit to the Indian rare earths at Aluva, to learn the working principles, challenges, and the real scenario of the machines which are used for the extraction of minerals from the soil and also how the machineries from 1952 works efficiently. A one-day visit to the Indian rare earths gave ideas regarding the factors that can create sustainability during the extraction of minerals from the soil, various measures that are taken to maintain the machineries which are running since 1952 etc. The students were taken as a tour to the entire factory explaining all the available equipment's in the industry and the safety measures available during the extraction process in the industry. The outcomes of the industrial visit provided students an experiential learning with a deep understanding of the concepts they learned in the classrooms.

ONE DAY INDUSTRIAL VISIT TO ROOTS INDUSTRIES INDIA PVT. LTD.

We, the Department of Mechanical Engineering arranged a one-day industrial visit to Roots Industries India Private Limited, Coimbatore for Mechanical Engineering students at Rohini College of Engineering & Technology on 09th November 2024.

About Roots Industries India Pvt. Ltd., Roots Industries India Private Limited established in 1970 is the flagship company of the Roots Group and its products find pride of place in some of the world's most respected automobile brands. RIL has a full-fledged manufacturing facility across the world. The company manufactures a wide range of Electric Horns, backup alarm and electronic horns with multi-functional capabilities for passenger vehicles, off-road vehicles and material handling equipment. It has subsequently added to its product offerings with halogen bulbs, disc brake pads, brake shoes, clutch plates, batteries and reverse sensors. RIL established a High Precision Engineering Division (HPED) in 2005 to manufacture Highly Critical Parts, Sub-Assemblies and High-Level Assemblies for the Medical, Aerospace, Flow Control, Automobile & Other Engineering Industries.



RIL established ROOTS METROLOGY and got accredited by NABL in 2005. It also addresses the Group's calibration requirements and opened up branches in Chennai and Bangalore. In addition to calibration other services rendered by metrology division are Third Party inspection and Training & Development. RIL established a commercial furniture manufacturing division ROOTS SYONA in 2013 to manufacture ergonomically designed furniture's. Syona currently has more than 5 models of commercial chairs and will unveil other furniture products in a phased manner. In the dynamic world that is driven by technology, a successful presence depends on the way you mould that technology to fit popular needs, Indigenous talent, a daring attitude, courage to accept and learn new things and the simple spark of an idea. That is the genesis of ROOTS.

This industrial visit aims to provide the students with real world practices knowledge about the various components in the automobile industry and gather detailed knowledge about precision measuring equipments. A Group of 45 students and 2 faculty members embarked an industrial visit to the Roots Industries India Pvt. Ltd., to learn the working principles, challenges, and the real scenario of the components in automobile industry and precision measuring equipments.



A one-day visit to the Roots Industries India gave ideas regarding the

complete operation and working of the equipment's which are available for automobile sector, various precision measuring equipments etc. The students were taken as a tour throughout the entire industry explaining all the equipments in the industry. The outcomes of the industrial visit provided students an experiential learning with a deep understanding of the concepts they learned in the classrooms.

STUDENT PLACEMENT AT ASHOK LEYLAND

Ashok Leyland, flagship of the Hinduja group, is the 2nd largest manufacturer of commercial vehicles in India, the 4th largest manufacturer of buses in the world, and the 19th largest manufacturers of trucks. Headquartered in Chennai, 9 manufacturing plants gives an international footprint – 7 in India, a bus manufacturing facility in Ras Al Khaimah (UAE), one at Leeds, United Kingdom and a joint venture with the Alteams Group for the manufacture of high-pressure die-casting extruded aluminium components for the automotive and telecommunications sectors, Ashok Leyland has a well-diversified portfolio across the automobile industry. Ashok Leyland has recently been ranked as 34th best brand in India.



Pioneers in the Commercial Vehicle (CV) space, many product concepts have become industry benchmarks and norms. Ashok Leyland has ISO/TS 16949 Corporate Certification and is also the first CV manufacturer in India to receive the OBD-II (on board diagnostic) certification for BS IV-compliant commercial vehicle engines, SCR (selective catalytic reduction), iEGR (intelligent exhaust gas recirculation) and CNG technologies. Ashok Leyland is the first truck and bus manufacturer outside of Japan to win the Deming prize for its Pantnagar plant in 2016 and the Hosur Unit II has been awarded the Deming Prize in 2017. Driven by innovative products suitable for a wide range of applications and an excellent understanding of the customers and local market conditions, Ashok Leyland has been at the forefront of the commercial vehicle industry for decades.

Below mentioned are the list of students who got placed in Ashok Leyland during the placement drive conducted in our campus on 23rd September 2024.

Sl. No.	Register Number	Name
1	963321114039	COLLINS J
2	963321114077	LOGESH M
3	963321114080	MAGESH N
4	963321114083	MARIYAPPAN L
5	963321114086	MATHAN M
6	963321114087	MATHESH S
7	963321114110	PRAKASH P
8	963321114129	ROBIN MICHEAL RAJ P
9	963321114130	ROBIN RAJA R
10	963321114164	SUBIN RAJ M

STUDENT PLACEMENT AT DELPHI TVS

Delphi-TVS is a joint venture between Delphi Corporation, USA and T.V. Sundaram Iyengar & Sons, India manufacturing Diesel Fuel Injection Equipment for Cars, Sports Utility and Multi Utility Vehicles, Light Commercial Vehicles, Tractors, Single & Two Cylinder engines. Delphi is the largest automotive supplier in the world and TVS is the largest automotive systems supplier in India. The company has a track record of sustained growth since it was set up. Delphi-TVS has obtained ISO/TS

16949 and ISO 14000 certifications. The company has been honoured by the ACMA Gold Award for Manufacturing Excellence, ACMA Technology Award, Manufacturing Excellence Gold Award from Frost & Sullivan and Delphi Asia Pacific Environmental Excellence Award. Delphi-TVS has also won the JIPM TPM Excellence Award (First Category).



Delphi-TVS has invested extensively on facilities, which include engine test cells, emissions test equipment, endurance test rigs, pump calibrating rigs and CAD systems to develop products and applications to meet the ever increasing demands of customer requirement.

Below mentioned are the list of students who got placed in Delphi TVS during the placement drive conducted in our campus on 19th September 2024.

Sl. No.	Register Number	Name
1	963321114010	AJITH S
2	963321114026	ASHIKA P
3	963321114027	ASHIK SAM Y S
4	963321114028	ASHIMA FAIZA S A
5	963321114034	AXELINE JEBANESH M R
6	963321114035	BAVINTHAR S
7	963321114036	BENISH D
8	963321114044	DINESH I
9	963321114046	DONA MAGESHWARI S
10	963321114049	FENITO JEBISH B
11	963321114074	JOTHI BAVEESH S
12	963321114093	MONISHA R
13	963321114118	RAGUL M
14	963321114141	SATHISH DURAI P
15	963321114145	SHAJITH HUSSAIN M
16	963321114149	SIVA S
17	963321114169	SURENDHAR P
18	963321114171	SUTHIN V
19	963321114180	VIJOS GNANA RAJ P

STUDENT PLACEMENT AT LEEWON PRECISION

To dedicate improving the quality of human being's transportation by manufacturing & supplying high tech automotive components. LEEWON PRECISION is automotive components manufacturer specialized in cam shafts. We are doing our best to supply high quality components to our customers.



LEEWON is trying to achieve advanced technology by investing on R&D and realize 'the clean management' based on Teamwork, Innovation and Responsibility.

Below mentioned are the list of students who got placed in Leewon during the placement drive conducted in our campus on 20th September 2024.

Sl. No.	Register Number	Name
1	963321114033	ASWIN A I
2	963321114042	DHANESH KUMAR T

3	963321114054	GOLDEN MESHAK R
4	963321114062	IYYAPPAN M
5	963321114064	JEBASTIN E
6	963321114069	JEROME R M
7	963321114071	JEYA PRAKASH B
8	963321114079	MADHESH RAM J
9	963321114084	MASANAM M
10	963321114090	MOHAMED IRFAN
11	963321114092	MOHAMED RASEEN KAIF N
12	963321114095	MURUGAN C
13	963321114096	MUTHU DHINESH T
14	963321114104	PAUL DANIEL D
15	963321114117	PRITHIVI RAJ M
16	963321114124	RAMAKRISHNAN S
17	963321114140	SARAVANAN S
18	963321114143	SELVAM B B
19	963321114156	SREE KUTTAN D B
20	963321114168	SUNIL THARAN M
21	963321114170	SUTHARSAN K
22	963321114175	VASANTH M
23	963321114179	VIJESH SEN V
24	963321114182	VINISH ANTO B
25	963321114188	VIVEK S
26	963321114306	HARNISH
27	963321114318	SUNDAR SINGH G
28	963321114321	YUVANJITH R

STUDENT PLACEMENT AT LUCAS TVS

Lucas TVS, established in 1962, is a leading provider of mechatronic solutions for automotive, consumer and industrial goods companies, with over 50 years' experience in design, manufacturing and supply of products to OEMs in India and abroad. With a work force of over 6,000 people and state of the art engineering and manufacturing facilities integrating TQM, TPM, 6 sigma and lean manufacturing principles. Lucas TVS has end to end product development capabilities. We have 7 plants in India and a global network with sales and sourcing offices in USA, China, South Korea, Japan and Germany.



A joint venture between Lucas UK and TVS, Lucas TVS is a leader in Automotive electricals in India, supplying a wide range of electrical components for two wheelers, 3 wheelers, cars, commercial vehicles, tractors and the industrial sector. Lucas-TVS is a Deming Grand Prize certified for TQM Practices Group Turnover / group employee count.

Below mentioned are the list of students who got placed in Lucas TVS during the placement drive conducted in our campus on 19th November 2024.

Sl. No.	Register Number	Name
1	963321114011	AJITHKUMAR P
2	963321114014	AKASH V

3	963321114020	ANISH A
4	963321114022	ANISH DANI D
5	963321114040	DEBHAKAR J
6	963321114047	DOOWIN GEORGE G
7	963321114051	FINNY PHILIP
8	963321114053	GOKUL S T
9	963321114060	ISSAC DARWIN D
10	963321114100	NISHANTH B
11	963321114116	PRINCE SONY J
12	963321114134	SAJIN S
13	963321114137	SANJEEV PANNEER
14	963321114138	SARAN J
15	963321114163	SUBIN KUMAR S
16	963321114167	SUJIN RAAM
17	963321114173	THUSHYANTH S
18	963321114176	VENKADESH M

STUDENT PLACEMENT AT PEGATRON INDIA

PEGATRON Corporation (hereafter referred to as "PEGATRON") was founded on January 1, 2008. With abundant product development experience and vertically integrated manufacturing, we are committed to providing clients with innovative design, systematic production and manufacturing service in order to comprehensively and efficiently satisfy all of our customers' needs. PEGATRON features a solid R&D team, friendly, fast service quality as well as a high degree of employee cohesion. Furthermore, we have combined EMS and ODM industries to become an emerging Design and Manufacturing Service (DMS) company. Consequently, we are able to offer industry-leading, state-of-the-art products and profitable business opportunities for our partners.

Our outstanding computer services include designing computers, computer hardware, portable devices and networks and associated peripheral devices for others related to operational and supporting services; computer information technology and computer programming consultation; designing, updating, duplications, and maintenance of computer software(program) and providing extended information service in the field of computers and communication, i.g. computer systems analysis, computer network systems analysis, mobile telephone communication transmission for special customer demands.



Additionally, we provide many flexible and reliable intangible products, including installation, repair or maintenance of computer related products, portable devices, telephone, household appliance, networks associated peripheral devices, and etc. We also provide hardware and software service for telecommunications connections, transmission of information by electronic communications networks and providing information about telecommunication according to customer requirements.

Below mentioned are the list of students who got placed in Pegatron during the placement drive conducted in our campus on 24th October 2024.

Sl. No.	Register Number	Name
1	963321114021	ANISH BHARATH M
2	963321114026	ASHIKA P

3	963321114028	ASHIMA FAIZA S A
4	963321114032	ASHWIN R
5	963321114046	DONA MAGESHWARI S
6	963321114056	HARIRAM S A
7	963321114064	JEBASTIN E
8	963321114075	KABIN M
9	963321114083	MARIYAPPAN L
10	963321114085	MATHAN M
11	963321114088	MERBIN AJAY M
12	963321114090	MOHAMED IRFAN
13	963321114093	MONISHA R
14	963321114106	PONMALAR R
15	963321114110	PRAKASH P
16	963321114118	RAGUL M
17	963321114126	RANJITH R
18	963321114129	ROBIN MICHEAL RAJ P
19	963321114145	SHAJITH HUSSAIN M
20	963321114147	SHINE JOSHUA STEEWERT S
21	963321114149	SIVA S
22	963321114156	SREE KUTTAN D B
23	963321114161	SUBETH SANKARA NARAYANA
24	963321114171	SUTHIN V
25	963321114178	VIBIN M
26	963321114309	MATHAVAN S
27	963321114310	PRATHEESH N
28	963321114702	NAVEEN S

STUDENT PLACEMENT AT RANE MADRAS LTD.

Rane (Madras) Ltd is a part of the Rane group of companies involved in the manufacture and distribution of steering and suspension systems. The main components manufactured by the company include Manual Steering Gear Products (SGP) and Suspension & Steering Linkage Products (SSLP). The other products include tie rod assemblies, drag link assemblies, center link assemblies and gear shift ball joints. Automobile companies that use its products include Ashok Leyland, Volvo, M&M, Tafe, Tata among many others. Tata motors remains its major customer and is the primary parts manufacturer for Tata's Nano. The company has also set up a dedicated plant for Tata Nano in Sanand, Gujarat. The company was forced to change its manufacturing facility from West Bengal to Gujarat after Tata moved out.



Expanding Horizons

Below mentioned are the list of students who got placed in Rane Madras Ltd. during the placement drive conducted in our campus on 04th October 2024.

Sl. No.	Register Number	Name
1	963321114005	ABISHEK V L
2	963321114012	AKASH R
3	963321114013	AKASH R
4	963321114021	ANISH BHARATH M
5	963321114030	ASHOK KUMAR K U
6	963321114032	ASHWIN R
7	963321114055	HAREESH R

8	963321114057	HARISH G V
9	963321114058	HARISH K
10	963321114072	JEYARAM N
11	963321114076	LALIN L
12	963321114081	MAGESH S
13	963321114085	MATHAN M
14	963321114099	NAVEEN B
15	963321114105	PEMILAN V
16	963321114106	PONMALAR R
17	963321114131	ROHITH S
18	963321114133	SABARISH I
19	963321114308	KISHORE IMMANVEL A
20	963321114315	SIVA R
21	963321114702	NAVEEN S
22	963321114502	DEVABALAN

STUDENT PLACEMENT AT TAFE

Below mentioned are the list of students who got placed in Tafe during the placement drive conducted in our campus on 30th September 2024.

Sl. No.	Register Number	Name
1	963321114024	ARUN KUMAR N B
2	963321114075	KABIN M
3	963321114309	MATHAVAN S

STUDENT PLACEMENT AT SUNDRAM FASTENERS

Below mentioned are the list of students who got placed in Sundram Fasteners during the placement drive conducted in our campus on 30th September 2024.

Sl. No.	Register Number	Name
1	963321114001	AATHIL AFRITHS S
2	963321114002	ABHIJITH V
3	963321114009	AJIN D T
4	963321114061	IYWIN RAJA I
5	963321114082	MANIKANDAN T
6	963321114098	NAMBI RAJAN M
7	963321114120	RAHUL A
8	963321114126	RANJITH R
9	963321114136	SAM JEFFRY P
10	963321114142	SATHIYA MOORTHI S
11	963321114143	SELVAM B B
12	963321114144	SHAFIN M
13	963321114179	VIJESH SEN V
14	963321114304	ANISH J
15	963321114305	ARAVINDSAMY S

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