

ERODE SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

NEWS LETTER

Academic year 2019-20

ABOUT THE DEPARTMENT

The Department of Mechanical Engineering was established in the year 1996. It has the state of art laboratory facilities equipped with high caliber equipment and machinery. The department is collaborated with M/s Roots industry Coimbatore, M/s TVS Training and

Services Chennai, National Skill Training Institute Bangalore and

Advanced Training Institute Chennai to offer training to staff and students to improve their practical knowledge and skills. The department is an **Approved Research Center by the Anna University Chennai** to carry out

the collaborative research. UG programme of BE Mechanical Engineering is accredited by the **National Board of Accreditation (NBA), New Delhi** since 2009 and is reaccredited in the year 2020 for a period of three years. Students are exposed to latest developments in the field of Mechanical Engineering by

PROGRAMS OFFERED:

B.E. MECHANICAL ENGINEERING

**B.E. MECHANICAL ENGINEERING
(TAMIL)**

M.E. MANUFACTURING

means of organizing symposia, seminars, workshops to enrich their knowledge.

Apart from

that, the students are **trained in language laboratory** to enhance their communication skills and in **software packages** to design and simulate and analyses the mechanical components.



Program Educational Objectives

VISION AND MISSION STATEMENT



Vision:

To become the premier department of excellence in the field of Mechanical Engineering, committed to provide global quality Mechanical Engineers to cater the needs of industries and the nation, in general.

Mission:

- To impart quality technical education through innovative teaching and learning mechanisms.
- To build the state-of-the-art infrastructure facilitating the faculty and students to learn and disseminate knowledge and innovate in their career.
- To mould the aspiring young minds to emerge as successful practitioners of quality education through entrepreneurship.

- **PEO I:** To prepare the students with strong fundamental knowledge in Mathematics, Science, English and Engineering Sciences so as to enable them to analyze the Mechanical Engineering related problems (Preparation).
- **PEO II:** To develop ability among the students for acquiring technical knowledge in the subjects and gaining the technical skills in classical software packages, applying the same for design, fabricate and install the machines (Core competence and professionalism).
- **PEO III:** To provide opportunities for students to work with all related fields of engineering, to enlarge the ability among the students in understanding the different industrial environments (Breadth).
- **PEO IV:** To promote the students for continuous learning, research and development with strong professional moral and ethical values. (Learning environment).

Program Outcomes (PO)

- **PO1: Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **PO2: Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO3: Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **PO4: Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **PO5: Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **PO6: The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **PO7: Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9: Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO10: Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **PO11: Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **PO12: Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSO)

- **PSO1: Software Knowledge:** An ability to use the classical design software packages to solve practical engineering problems.
- **PSO2: Material testing:** Knowledge on materials characterization
- **PSO3: Personality Development:** Personality emerges early and continuous to change in meaningful ways throughout the life span.

NBA Accreditation Details

With effect from	Years	NBA Approval Reference
09.06.2020	3 Yrs	F. No. 33-41-2010-NBA Dated 28.05.2020
09.06.2017	3 Yrs	F. No. 33-41-2010-NBA Dated 09.06.2017

ACHIEVEMENTS:

Dr.M.Pandian, Professor and Head & **Mr.R.Srinivasamoorthy**, Associate Professor, Mechanical Engineering have received fund of **Rs.2,95,697** from AICTE under STTP Scheme on “**3D Printing Technology-A means for Modern Manufacturing**”.

- **Dr.M.Pandian**, Professor and Head, Mechanical Engineering have received fund of **Rs.60,000** from EDII-Ahmedabad under DST Nimat Scheme to organize “**Entrepreneurship awareness Camp**”.
- **Dr.M.Pandian**, Professor of Mechanical Engineering, received an **Appreciation Certificate for being served as Reviewer** for the International Conference organized by Gurunanak Institute of Technology, Hydrabad.
- **Dr.M.Pandian**, Professor of Mechanical Engineering, served as **Resource Person** for a STTP on “**Engineering Thermodynamics**” organized by Arasu Engineering College, Kumbakonam, December 2020.
- **Dr.M.Pandian**, Professor of Mechanical Engineering, served as **Resource Person** for a STTP on “**Alternative Fuels**” organized by Anna University Regional Campus-Trichy, on 09/12/2020.



- **Dr.M.P.Prabhakaran**, Assistant Professor of Mechanical Published **10 Papers** in Scopus Indexed Journals.

DEPARTMENT ACTIVITIES:

- **Mr.T.Anand**, CEO, SWIFTERZ Creative Services(LLP),Coimbatore have given guest lecture on "Need of MEP engineers in construction Industry" on 17.07.2019.



- **Mr.S.Muthu Saravanan**, Associate Head Training, Roots Industries India Limited,Coimbatore have given two days Industrial Attachment Programme on "Manufacturing Technology- Stamping, Injection Moulding and Die Casting" on 26.08.2019.

- **Mr.Roopan Sanjeev Raju**, Manager-Business Development, MACBRO Engineering Solutions,Erode, has delivered a one day seminar on "Needs of Mechanical Engineers in Design domain, importance of learning Japanese language and corporate culture" on 29.08.2019 & 06.09.2019.



- **Mr.N.Karthick**,ManagerProduction,Jaisakthi Castings Pvt Ltd,Chennimalai, has delivered a one day guest lecture on "Recent Trends in welding technology" on 08.01.2020

ACTIVITIES BY FACULTY MEMBERS IN THE ACADEMIC YEAR 2019-20**PUBLICATIONS:**

<i>Sl.No</i>	<i>Name of the Faculty</i>	<i>Title of the Paper</i>	<i>Journal Details</i>
1	Dr.M.P.Prabhakaran	Characterization of AA6061-ZrO ₂ -C friction stir welded composite joints	Journal of Ceramic Processing Research" 2020Vol.:21Issue :6
		Effects of Welding Speed on Microstructure and Mechanical Properties of CO ₂ Laser Welded Dissimilar Butt Joints between Low Carbon Steel and Austenitic Stainless Steel	Advances in Materials & Processing Technologies (Taylor & Francis) 2020 Vol.:5 Issue :4
		Mechanical Properties of ZrO ₂ , C and AA6061 Metal Matrix Composites	International Journal of Advances in Materials & Processing Technologies 2020 Vol.:5 Issue :3
		Effect of Activating Flux in Tungsten Inert Gas Welding Process – A Review	IOP Conference Series: Material Science and Engineering ;2020.988.
		Investigation of Brake Disc Using Metal Matrix Composites	IOP Conference Series: Material Science and Engineering - 2020,988.
		Evaluation of Mechanical and Metallurgical Properties of Submerged Arc Welded Plate Joint	Materials Today journal: Proceedings, 2020.
		Metallurgical and Mechanical Properties of SiC/ B ₄ C Reinforced with Aluminum Composites	Materials Today: Proceedings- 2020

		Synthesized By Mechanical Alloying	
		Fatigue Life and Fatigue Crack Growth Rate Analysis of High Strength Low Alloy Steel (42CrMo4).	Materials Today: Proceedings-2020.
		Optimization of Nd: YAG Pulsed Laser Welding Process Parameters on Dissimilar Metal Joints	WutanHuatanJisuan Jishu-2020 Vol 16. Issue-6.
		Study on the Feasibility in Welding of Low Carbon Steel and Austenitic Stainless Steel Joint Using CO ₂ Laser Welding Process and Analysis of its Metallurgical and Mechanical Properties	WutanHuatanJisuanJishu 2020 Vol.:5 Issue :3.
2	D.Hariharashayee, M.P. Prabakaran, C. Chelladurai, S. Manikandan, N.S. Mohan	Experimental Investigation of Raw and Alkali Treated Areca Leaf Stalk and Sisal Fibres Reinforced Hybrid Polymer Composites.	WutanHuatanJisuanJishu2020 Vol.:16 Issue :6
3	S.Navaneethakrishnan, P.Chokkalingam	Enhancement of Mechanical Properties of PFC by Chemically Modified Areca Fine Fibers	Tierärztliche Praxis - Vol 41, 2021.
4	C.Chelladurai, N.S.Mohan, S.Manikandan, D.Hariharashayee	Analyzing the casting defects in small scale casting industry	Materials today DoI No: 10.1016/j.matpr.2020.05.382.

WORKSHOPS ATTENDED:

- N.S.Mohan, S.Karthikeyan, A.Balakumaran & D.Hariharashayee AP/Mechanical attended Online Workshop on "Introduction to Additive Manufacturing". conducted by Skill Lync on 17/04/2020.

SEMINAR/WEBINAR ATTENDED:

SI No	Name of the Faculty	Seminar/Webinar	Date
1	A.Bala Kumaran, N.S.Mohan, C.Chelladurai, D.Hariharashayee & S. Manikandan	Recent Development in Surface Engineering, Advances in Welding Techniques, Latest Trends in Composite Materials, know your Industry, Arts of Writing Research Articles conducted by Excel Engineering College-Nammakal.	27/04/2020- 01/05/2020.
2	S.Karthikeyan	A New Approach for Writing Academic Papers and Increasing Citation Index 2. Positive Attitude during Crisis/Lockdown conducted by Excel Engineering College-Nammakal	13/5/2020 to 14/5/2020.
3	P.Chokkalingam	Entrepreneurship- Challenges and Opportunities conducted by Narasu's Sarathy Institute of Technology, Salem.	5.8.2020.
4	R. Srinivasa Moorthy	How to Conduct Online Class to Students conducted by ATAL Incubation Centre, Pondicherry.	27.6.2020.
5	A.Bala Kumaran	Joining of Tubes using solid State Welding	29/04/2020
6	A.Bala Kumaran, D.Hariharashayee & N. S.Mohan	FE Simulation of Laser Welding Process conducted by KIT-Coimbatore.	16/05/2020
7	A.Bala Kumaran	Metal Complexes to Metal Nanoparticles for Efficient Catalysis conducted by SASTRA- Thanjavur	28/05/2020
8	A.Bala Kumaran, D.Hariharashayee & S. Manikandan	Fundamental of Strength of Materials conducted by Chennai Institute of Technology	29/04/2020
9	A.Bala Kumaran	Solar Energy- Current & Future Trends conducted by St. Joseph	05/07/2020

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		Institute of Technology	
10		Design of Experiments for Practicing Engineers	02/05/2020
11	Dr.S.Navaneethakrishnan, R.SrinivasaMorrthy&A. Bala Kumaran	Automotive Industry Trends to Watchconducted by St. PETER'S College of Engineering and Technology.	5/07/2020
12	Dr.S.Navaneethakrishnan, A.Bala Kumaran, C.Chelladurai, D.Hariharashayee, R.Srinivasamoorthy, &S.Manikandan	conducted by Sri Eshwar College of Technology, Chennai	01/05/2020.
13	N.S.Mohan, G.Dhayanithi, D.Hariharashayee&S. Manikandan	CFD simulation of Thermal Management of Batteries and Power Convertersconducted by Vel Tech High Tech, Tamil Nadu.	28/05/2020
14	G.Dhayanithi	Introduction to Design of Experimentsconducted by Arasu Engineering College	27/05/2020.
15		Research Opportunities in the field of Technologyconducted by Dr.Ashok Gujar Technical Institutes.	28/05/2020
16		Cognitive Blooms level Taxonomy in Exam Paper Assessmentconducted by Erode SenguntharEngineering College	26/06/2020.
17		Energy auditing and Career Opportunitiesconducted by Sri Eshwar College of Engineering, Chennai.	12/05/2020
18	Dr.J.Manivannan, G.Dhayanithi, S.Karthikeyan&S.Manikandan	AI & Machine learningconducted by Sri Eshwar College of Engineering, Chennai.	14/05/2020
19	N.S.Mohan	New Product Development, CNC Simulator, Robotconducted by SNS College of Technology.	27.5.2020
20	Dr.S.Navaneethakrishnan, N.S.Mohan, D.Hariharashayee, S.Manikandan&S.Kart	Future Scope of Electric Vehiclesconducted by Sri Eshwar College of Engineering, Chennai.	03.05.2020

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21	Dr.J.Manivannan, N.S.Mohan, S.Manikandan&S.Kart hikeyan	Energy Auditing & Career Opportunitiesconducted by Sri Eshwar College of Engineering, Chennai.	12.05.2020
22	N.S.Mohan	Fourth Industrial Revolution & The Paradigm Shift in Manufacturing	8.5.2020
23		Role of IOT in Smart Devices & its application	16.05.2020
24	Dr.J.Manivannan&S.K arthikeyan	Cyber Securityconducted by Sri Eshwar College of Technology.	15.5.2020
25	S.Karthikeyan	Management of Thermal Management of Batteries and Power convertersconducted by Vel Tech High Tech	28.05.2020
26		Energy conservation & Star Ratingconducted by KIT- Kalaigarkarunanidhi Institute of Technology.	15.5.2020
27	D.Hariharashayee	Emerging Global Careers in Manufacturing Industryconducted by Alpha College of Engineering.	1.5.2020
28	D.Hariharashayee	Effective Online Teaching and Student Engagementconducted by IEEE- Madras.	20.5.2020
29	D.Hariharashayee	Faculty program on NBAconducted by Bharati Vidyapeeth College of Engineering.	12.5.2020.
30	D.Hariharashayee& C.Chelladurai	3D Printing- Revolution in Manufacturingconducted by PSNA College of Engineering and Technology.	15.5.2020
31		Basics of Machining	15.5.2020
32		Expectations on Quality-Future Perspective conducted by Nandha College of Technology	17.05.2020
33		INDUSTRY 4.0 conducted by Sri Eshwar College of Engineering, Chennai	19.05.2020
34	D.Hariharashayee	Solidworks: An introduction to the 3D	25.04.2020

		editor	
35	Dr.J.Manivannan	Data Science for Engineersconducted by Sri Eshwar College of Engineering	13.5.2020
36		Demystify the cloudconducted by Sri Eshwar College of Engineering.	17.5.2020
37		Block chain Basicsconducted by Sri Eshwar College of Engineering	18.05.2020
38.	C.Chelladurai	Fundamentals of Strength of Materialsconducted by Chennai Institute of Technology	29.4.2020
39		Future Scope of Electrical Vehiclesconducted by Sri Eshwar College of Engineering	3.5.2020
40	P.Chokkalingam	Patents and Drafting Techniques conductedNarasu'sSarathy Institute of Technology, Salem.	20.6.2020.
41		Non-linear Dynamics: An Evolving Science conducted by Kongu Engineering College, Perundurai	02.11.2020
42	Dr.S.Navaneethakrishnan	Role Of Teachers in Quality Enhancement & Accreditationconducted by Santhiram Engineering College, Nandyal, Andrapadesh	12.6.2020

STTP & FDP ATTENDED:

Sl.No	Name of the Faculty	FDP/STTP	Date
1	A.Bala Kumaran, N.S.Mohan, C.Chelladurai& D.Hariharashayee	3D Printing & Design ATAL – Online	01/11/2020- 06/11/2020
2	A.Bala Kumaran, G.Dhayanithi, N.S.Mohan&D.Hariharashayee	Non –Traditional Machiningconducted by NITTTR, Chennai.	2/11/2020- 6/11/2020.
3	A.Bala Kumaran	Application of AI, NIT-CALICUT	13/04/2020- 18/04/2020
4	A.Bala Kumaran	Internet of Things(IoT)NIT- CALICUT	13/04/2020- 15/04/2020
5	N.S.Mohan	NPTEL-Manufacturing of Composite	8 Week Course (Aug-Oct 2019)
6	N.S.Mohan&D.Hariharashayee	Novel Materials & its Industrial Applications, conducted by Karpagam College of Engineering, Coimbatore	13.5.2020 to 18.5.2020.
7	N.S.Mohan	Internal Combustion Engine – Basics, conducted by Alison online course	17.04.2020.
8	D.Hariharashayee	Refrigerants progression- Environmental concerns FDP conducted by QIS College of Engineering &Technology, Andhra Pradesh	1.6.2020 to 5.6.2020.
9	D.Hariharashayee	3D Printing & Design, " conducted by Excel Engineering College- Nammakal	19.10.2020 to 23.10.2020.



ACTIVITIES BY STUDENTS IN THE ACADEMIC YEAR 2019-20



- Ashwinthangavelu T K, got selected in Renault Nissan Automotive India Pvt Ltd, Chennai with a package of 3.5L Per Annum.



- M. Abhinesh, had actively participated in **9 workshops** during the academic year 2019-20

PAPER PRESENTATION:

- B.Dhanabal&S.Vignesh III Year A Presented a paper on "Magnetic levitation" organized by Excel Engineering college on 14.09.19
- K.Ulaganathan&S.Vignesh III Year C Presented a paper on "Recent Trends in Automobile-Hybrid Electric Vehicle" organized by Excel Engineering college on 14.09.19.
- N.R.Navaneetha Krishnan &P.Pradhip III Year B Presented a paper on "Natural Fibre Reinforced Polymer Matrix Composite" organized by TamilNadu College of Engineering on

WORKSHOP/SEMINAR/CONFERENCE PARTICIPATION:

- J.Dhasharathi attended webinar on 21st Annual Conference On Quality Management organized by AU TVS center for Quality Management- Anna University, Chennai on 04/03/2020.
- J.Dhasharathi attended webinar on Recent Trends In Electrical Vehicles organized by AU M.Kumarasamy College Of Engineering on 03/03/2020.
- M.Abhinesh attended workshop on "Advanced Driver Assistance System" conducted by Skyy Rider Institutions, on 21.08.2020.
- M.Abhinesh attended workshop on "Car Designing Process-Sketch to Prototype" conducted by Skyy Rider Institutions, on 17.10.2020.
- M.Abhinesh attended workshop on "CNC Programming (MILLING OPERATION)" conducted

ONLINE COURSES ATTENDED:

- Abhinesh M attended a course on Intro to Digital Manufacturing with Autodesk Fusion 360 organized by AUTODESK on 10th Oct (one month).
- Abhinesh M attended a course on DIGITAL MANUFACTURING & DESIGN organized by UNIVERSITY OF BUFFALO from 31st Oct (one month).

by Skyy Rider Institutions, on 10.10.2020.

- M.Abhinesh attended workshop on "CNC Programming Using MASTER CAM" conducted by Skyy Rider Institutions, on 16.10.2020.
- M.Abhinesh attended workshop on "Design for Additive Manufacturing With NX" conducted by Skyy Rider Institutions, on 12.10.2020.
- M.Abhinesh attended workshop on "Diesel Particulate Filter In BS-VI Technology" conducted by Skyy Rider Institutions, on 13.10.2020.
- M.Abhinesh attended workshop on "Emission Control Technology on Heavy Commercial Vehicle" conducted by Skyy Rider Institutions, on 01.09.2020.
- M.Abhinesh attended workshop on "EV Battery Recycling Technology" conducted by Skyy Rider Institutions, on 14.10.2020.
- M.Abhinesh attended workshop on "Regenerative Braking System in Electrical Vehicle" conducted by Skyy Rider Institutions, on 09.09.2020.
- R.S.Aravind&Arunkumar S R Attended workshop on "Recent Trends in Electric Vehicle" Conducted by M Kumarasamy College of Engineering, Karur on 03.03.2020.

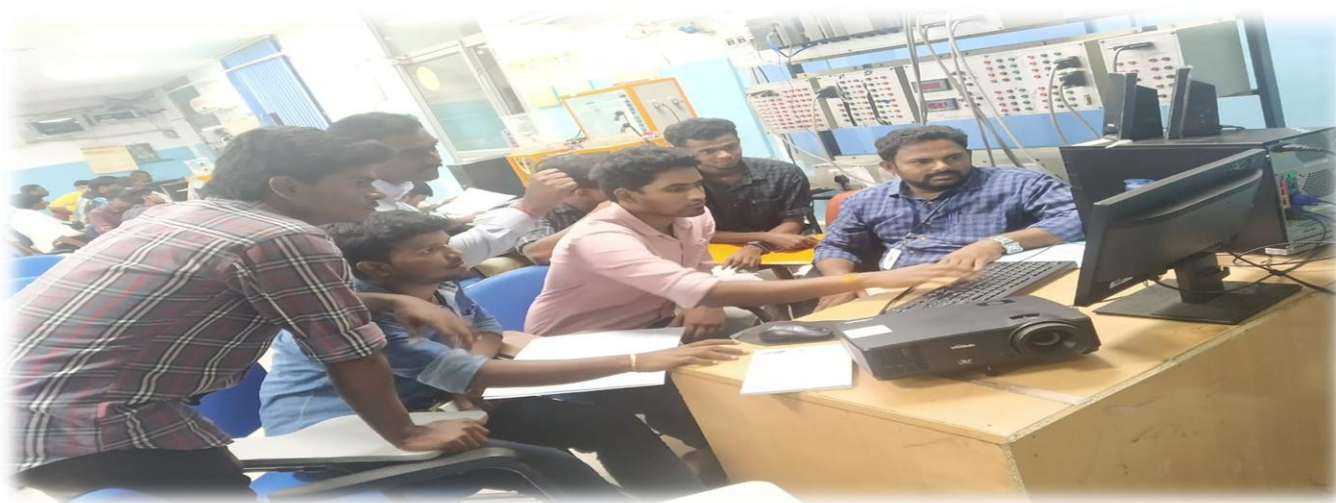
ONLINE TRAINING ATTENDED:

- Prasath Rao R, Santhosh Kumar S & S.Pragadeshwaran attended training program on A MILLENNIAL'S DREAM(AMD) organized by INFOSYS HEADSTART on 24-28May2021(9.15am to 12.45pm).
- Dhanabal B attended Industrial Training at Subavalar Industries Private Limited, Perundurai from 01/09/2020 to 22/10/2020.

INDUSTRIAL& INPLANT TRAINING:

- K.R.Baranidharan, S.SarathkumarM.Naveen&M.Sethupathyof final year Mechanical Engineering attended In plant training at JK Tyres, Chennai from 20.05.2019 to 23.05.2019.
- M.Karthikeyan, V.Shanmugavel, B.Surya&K.Vasanthof final year Mechanical Engineering attended In plant training at Neyveli Lignite Corporation of India, Neyveli from 20.05.2019 to 25.05.2019.
- N.R.Navaneethakrishnan, A.M.Rajasekar, S.Rattinamoorthi, B.Prabhu&M.Sangameshwaran from III Year Mechanical Engineering attended In plant training at GVG Paper Mills Private Limited, Udumalpet from 23.05.2019 to 03.06.2019.
- V.Malarmannan, G.Kumaraguru of final year Mechanical Engineering attended In plant training at Titan Jewelry Division, Hosur from 31.05.2019 to 14.06.2019.
- A.Nandhakumar, T.Saisatthiya& V Malarmannan of final year Mechanical Engineering attended In plant training at Sakthi Sugars Limited from 10.06.2019 to 15.06.2019.
- V.Shanmugavel of final year Mechanical Engineering attended In-plant training at Ashok Leylandfrom 25.06.2019 to 29.06.2019.

- M.Karthikeyan of final year Mechanical Engineering attended In-plant training at TNSTC, Vilupuram from 01.07.2019 to 08.07.2019.
- 24 Students from final year Mechanical Engineering attended Industrial Training on PLC systems @ Advanced Training Institute, Chennai from 19.07.2019 to 23.09.2019.
- S.SaranSakkaravarthi attended Internship at Sathyabama Institute of Science and Technology, Chennai between 16.11.2020 to 21.11.2020.



PLACEMENT DETAILS:

S. No.	Company Name	Salary Details	No. of Students	Name of the Students
1.	Renault Nissan Automotive India Pvt Ltd.	3.5 LPA	01	Ashwinthangavelu T K
2.	HCL Technologies Ltd.,	3.1 LPA	03	Nanthakumar.A Mayilkannan V Sriganesh R
3.	Greeva Software Solutions Pvt Ltd.,	2.30 LPA	01	Kumaraguru G
4.	Ashok Leyland Limited	2.2 LPA	02	Bharanikumaar P Vignesh R
5.	Royal Enfield	1.8 LPA	04	Bhuvaneshwaran R Karthikeyan M Surya B Srinivasan V

6.	TVS Sundaram Fasteners Limited	1.5 LPA	05	Arun Kumar K Bhuvaneshwaran R Thillaiyarasan K S Arasuvel.K Santhosh M
7.	Sharda Motors Pvt Ltd., Chennai	1.62 LPA	11	Hariharan P A Jeyaprakash M Surya B Karthick P Prakash V Vignesh R Karthikeyan M Sabari R Vasanth K Mayilkannan V Kumaraguru G
8.	Shriram Transport	2.44 - 2.77 LPA	01	Narendhiran C
9.	Sakthi Auto Component Ltd.	1.45 LPA	16	Rajkumar S Suresh M Naveen M Mohanraj D Brijin A Dhinesh P Gokulakrishnan S Gowtham A Karna N Sarath Kumar S Shanmugavel V Yogeshwara P Logeswaran.G Maheswaran M Sai Satthiya T Vijay.S
10.	ILM, Bangalore	1.98 LPA	03	Sabari R Bharanikumaar P Sriganesh R
11.	L G Balakrishnan & Brothers, Coimbatore	1.75 LPA	17	Vignesh U G Muralidharan K Bharanidharan K R Ajithkumar J Arunkumar T Ayyan Bose J Bharanidharan K R Gunasekaran M Hari Hara Sudhan B

				Meganathan M Pragatheeshwaran A Ragul N Rajesh K Sethupathy M Tharanidharan N S Venkadesh M Vimal S
12.	Ethunus	2.26 LPA	02	Ashwinthangavelu T K Malarmannan.V