



Sri Eshwar
College of Engineering
An Autonomous Institution
Affiliated to Anna University, Chennai



Department of Mechanical Engineering

MAGAZINE

for the year 2019 - 20

VOLUME I • ISSUE I



DEPARTMENT OF MECHANICAL ENGINEERING

Principal's Message:

I am proud to release the annual magazine of Mechanical Engineering department. The magazine signifies the writer's penmanship and also allows them to share their ideas. I acknowledge the efforts of students and staff of Mechanical department who have taken the initiative to promote the writing and publishing skills of the students. This helps the students to share and express their ideas in an articulate manner. Students and staff achievements have also been presented which will be a motivational factor for the other students to achieve the standard of excellence. Glad to say that we have achieved our aim of turning this into reality. I would like to congratulate all the students, teachers, alumni and everyone involved in bringing out the Department of Mechanical Engineering Annual Magazine for the academic year 2019 - 20

Dr. S. Sudha Mohanram

HOD's Message:

It gives me immense pleasure in joining the editorial team Mechanical Engineering in bringing out the annual report for the year 2019-20. Mechanical engineering always believes in encouraging students to dream big and take up the challenges in life with confidence. We believe that every student has innate potential. We, as mentors are always on the lookout for ways in which we can bring this potential to limelight. The department of Mechanical Engineering has right blend of faculty members with rich academic and industrial experience backed with state-of-art industry powered laboratories to groom the students into globally competent engineers and enable them to attain their career aspirations. The uniqueness of Mechanical Engineering is to inspire the students to innovate and convert the innovation into successful products. We are extremely happy to state that our students have won several high-level competitions in the preceding year with such innovations and brought laurels to the college as well as to the department. We will uphold this tradition and assure them all a happy learning environment in Mechanical Engineering Department at Sri Eshwar College of Engineering.

Dr.R.Suresh kumar

About the Department:

Department of Mechanical Engineering was started in the year 2009. Mechanical Engineering involves the application of principles of physics for analysis, design, manufacturing, and maintenance of mechanical systems. They use these principles in the design and analysis of automobile, aircraft, heating and cooling systems, building and bridges, industrial equipment and machinery, and many more. The department of mechanical engineering has distinguished, well experienced and highly dedicated faculty with Ph.D. and master's Degree from renowned institutions in India. The Department of mechanical Engineering is well connected with industry. At present the department has 28 faculty members out of which 5 faculty members have their Ph.D., 6 faculty members are perusing their Ph.D. and remaining faculties are in process of choosing their respective area of interest for Ph.D. The department has also been very progressive in bridging the gap between the curriculum and the industrial requirement by conducting Academic Advisory councils. In addition to the above the department of Mechanical Engineering has been conducting Guest lecture and visiting faculty lecture inviting the Industrial Resource persons. All students in the department are given Training Creo Modelling and Manufacturing which is provided to the student as Value Added Course. Throughout the academic year the department has performed number of activities for the development of students and also to the development of the Mechanical Engineering Students.

Members of the Editorial Board:

Dr.R.Suresh Kumar	- Professor and Head
Mr.A.R.Palanivelrajan	- Asst .Professor

Student Members:

R.venkatesh	- III Mech-B
A.Vignesh	- III Mech-B

VISION:

To groom students into **problem solvers** and **globally competent** Mechanical Engineering professionals.

MISSION:

We will achieve our vision by:

- Developing core **Mechanical Engineering competency, soft skills, ethical values** and **social responsibility** among students
- Facilitating faculty to **provide best-in-class teaching**
- Nurturing **research mindset** and support students on **entrepreneurial ventures**
- Helping students acquire **knowledge beyond curriculum** through **Centre of Excellence** and **self-learning**
- Effectively **collaborating with industry** to ensure **industry readiness** of students

Details of FDP's/Workshops/Guest Lecture/Seminars/Conferences/projects/other events organized by the Department in the year 2019-2020:

FDP:

Date	Topic	Resource Person Name, Designation, Place of Travel	Participants		
			Students	Faculty	Others
09/12/2019 to 13/12/2019	FDP on Laboratory	Mr. S.Venkatesh, AP/Mechanical/Sece Mr. Y. Suresh Babu, AP/Mechanical/Sece Mr. A.Vimal, AP/Mechanical/Sece Mr. K. Sathish, AP/Mechanical/Sece	-	15	-
02/12/2019 to 07/12/2019	FDP on Solidworks	Mr. K. Sathish, AP/Mechanical/Sece	-	6	-
19/06/2019 to 20/06/2019	Laboratory Sessions and Project Execution	Dr.S.Venkatesh, AP/Mechanical/Sece Mr.K.Sathish, AP/Mechanical/Sece Mr.F.JustinDhiravium , AP/Mechanical/Sece Mr.B.Sant hoshkumar,		21	

		AP/Mechanical/Sece , Mr.V.Naveenprabhu, AP/Mechanical/SeceDr.S.Gane shkumar, AP/Mechanical/Sece Mrs.S.Divya, AP/Mechanical/Sece			
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Workshop:

Date	Topic	Resource Person Name, Designation, Place of Travel	Participants		
			Students	Faculty	Others
24/09/2019 to 26/09/2019	GD&T	Mr. S. Senniappan	100	-	-
22/07/2019 to 24/07/2019	Design Now	Auto Desk	119	20	-
20/07/2019	Assembly and Dismantling on Submersible Pumps	Mr. A. Vimal & Mr. S. Vignesh	119	20	
20/01/2020 to 29/01/2020	Six Sigma Green Belt Certification	Mr. Jamal Musthafa	25	-	-

Guest Lecture:

Date	Topic	Resource Person Name, Designation, Place of Travel	Participants		
			Students	Faculty	Others
27/07/2019	Lean Manufacturing And Digitalization	Mr. Basavaraj Dhulappanavar	405	-	-
27/07/2019	Special Address - How To Win In Life	Mr. Sujith Kumar	405	-	-
27/07/2019	HR Session	Mr. N. Lakshminarasimhan	405	-	-
22/01/2020	Basics Of Accounting And Finance	Mr. K. Annamalai	50	-	-
27/07/2019	Digital	Mr. B. Anbuthambi	405	-	-

	Transformation				
31/01/2020	Computer Aided Design And Manufacturing	Mr. Sarankumar K	100	-	-
16/09/2019	Optimization Of HVAC Plant	Mr. S. Raju	28	-	-
27/07/2019	Skilling Up For The Changing Market	Mr. K. Veerabathraswamy	405	-	-
27/07/2019	HR Session	Mr. T. Arumugam T	405	-	-
13/12/2019	Importance Of Certification In Design Field	Mr. M. Kavipradhap	100	-	-
27/07/2019	HR Session	Dr. Lavanya kannairam	405	-	-
27/07/2019	Safety In Automobiles	Mr. Mohanraj Natarajan	405	-	-

Seminar

Sl. No.	Academic Year	Date of Event	Department	Title of the Event	Details of Funding Agency and Grant Received (if applicable)	Details of the Resource Person(s)	No. of Beneficiaries
1.	2019-2020	27/07/2019	Mechanical	Special Address - HOW TO WIN IN	SECE	Mr.Sujith Kumar HR Lead INFOSYS	485

				LIFE			
2.	2019-2020	27/07/2019	Mechanical	HR Session	SECE	Dr.Lavanya Kannairam Assistant Manager HR CATERPILLAR	465
3.	2019-2020	12/5/2020	Mechanical	Energy Auditing & Career Opportunities	SECE	Mr.S.Ashok, BEE Accredited Energy Auditor	1160
4.	2019-2020	13/5/2020	Mechanical	Data Science for Engineers	SECE	Mr.Ashok Anand Ramakrishnan, Quality Manager & Data Science Professional, IBM	1584
5.	2019-2020	14/5/2020	Mechanical	AI & Machine Learning	SECE	Mr.B.Sivarama Krishnan, Chief Architect-Retina, Bahwan CyberTek	1613
6.	2019-2020	19/5/2020	Mechanical	Insight into Industry 4.0	SECE	Mr.Ravi Ramarao, Chief Architect-Industry 4.0, Robert Bosch, Coimbatore	1764
7.	2019-2020	21/5/2020	Mechanical	Expanding Scope of Robotics	SECE	Mr.Vijay Buddharaju, Senior Automation Engineer, Mitsubishi Electric	1449
8.	2019-2020	22/5/2020	Mechanical	Design The Thinking	SECE	Mr.V.Ramakrishnan, Design Thinker, School of Design Thinking	1434
9.	2019-2020	23/5/2020	Mechanical	Technology - The Future of Recruitment	SECE	Mr.P.Charles Godwin, HR Leader, ZOHO Corporation	1454
10.	2019-2020	03/6/2020	Mechanical	Agile Methodology	SECE	Mr.V.Sathiyarayanan, Founder & CEO, Ajira Technologies	1414
11.	2019-2020	09/6/2020	Mechanical	Ergonomic Design Principles	SECE	Mr.A.Sivasundaram, Advance Consultant, aLTRan	1613
12.	2019-2020	12/6/2020	Mechanical	IIOT - IT - OT	SECE	Mr.Vijay Karna, Chief Architect &	1049

				Integrati on		Senior Director, Cappgemini	
13	2019- 2020	13/6/20 20	Mechanic al	Experient ial Learning	SECE	Mr.Rifath Sharook, Chief Technology Officer, Spacekidz	1412

International Conference

S. No	Date of the event	Name of the Event	Name of the resource persons	Participants		
				Students	Faculty	Others
-	-	-	-	-	-	-

List of faculties attended FDP & Workshop: (within College & External)

S.No	Name	Program Participated	FDP / Worksho p	Organised by	Durati on	Date	
						From	To
1.	Dr.R.Suresh Kumar	Teaching Learning Workshop on Laboratory Session & Project Execution	Workshop	SECE	2 days	19/06/19	20/06/19
		FDP on Laboratory	FDP	SECE	5 days	09/12/19	13/12/19
2.	Dr.T.Ramakrishnan	Teaching Learning Workshop on Laboratory Session & Project Execution	Workshop	SECE	2 days	19/06/19	20/06/19
		FDP on Laboratory	FDP	SECE	5 days	09/12/19	13/12/19
		AICTE ATAL Faculty Development Program on "Internet of Things"	FDP	NITTTR, Chandigarh	6 Days	15/04/20	19/04/20
3.	Dr.S.Ganeshkumar	Teaching Learning Workshop on Laboratory Session & Project Execution	Workshop	SECE	2 days	19/06/19	20/06/19
		FDP on Solidworks	FDP	SECE	6 Days	02/12/19	07/12/19
		FDP on Laboratory	FDP	SECE	5 days	09/12/19	13/12/19
4.	Mr.S.Balasubramani	Teaching Learning Workshop on	Workshop	SECE	2 days	19/06/19	20/06/19

		Laboratory Session & Project Execution					
		FDP on Laboratory	FDP	SECE	5 days	09/12/19	13/12/19
		AICTE ATAL Faculty Development Program on "Internet of Things"	FDP	NITTTR, Chandigarh	6 Days	15/04/20	19/04/20
5.	Mr. Y.Sureshbabu	Faculty Enablement Program	FDP	Messer cutting system	27 Days	03/06/19	29/06/20
		Teaching Learning Workshop on Laboratory Session & Project Execution	Workshop	SECE	2 days	19/06/19	20/06/19
		FDP on Solidworks	FDP	SECE	6 Days	2/12/19	07/12/19
		FDP on Laboratory	FDP	SECE	5 days	09/12/19	13/12/19
6.	Mr.K.Sathish	Teaching Learning Workshop on Laboratory Session & Project Execution	Workshop	SECE	2 days	19/06/19	20/06/19
		FDP on Solidworks	FDP	SECE	6 Days	2/12/19	07/12/19
		FDP on Laboratory	FDP	SECE	5 days	09/12/19	13/12/19
		Online FDP on Robotics Process Automation-	FDP	Jeppiaar Institute of Technology	3 days	04/05/20	06/05/20
		Real Time Modeling Simulation, Verification and Validation of Engineering Problems using CAE	FDP	Ramco Institute of Technology	5 days	11/06/20	15/06/20
		E-Content Development in Education sector	FDP	Dr.NGP Institute of Technology	5 days	20/04/20	24/04/20
7.	Mr.S.Divya	Teaching Learning Workshop on Laboratory Session & Project Execution	Workshop	SECE	2 days	19/06/19	20/06/19
		C - Problem Solving - FDP	FDP	SECE	5 Days	26/11/19	30/11/19
		FDP on Solidworks	FDP	SECE	6 Days	02/12/19	07/12/19
		FDP on Laboratory	FDP	SECE	5 days	09/12/19	13/12/19
		FDP on Rehabilitation Robots - A Practical Approach	FDP	Kalasalingam Academy of Research and Eductaion	1 day	25/05/20	25/05/20
		FDP on Tribology of Polymeric Composites	FDP	Kalasalingam Academy of Research and	1 day	28/05/20	28/05/20

				Eductaion			
8.	Mr.V.Naveenprabhu	Teaching Learning Workshop on Laboratory Session & Project Execution	Workshop	SECE	2 days	19/06/19	20/06/19
		FDP on Laboratory	FDP	SECE	5 days	09/12/19	13/12/19
		E-Content Development in Education sector	FDP	Dr.NGP Institute of Technology	5 days	20/04/20	24/04/20
		Online FDP on Robotics Process Automation-	FDP	Jeppiaar Institute of Technology	3 days	04/05/20	06/05/20
9.	Mr.A.Vimal	Teaching Learning Workshop on Laboratory Session & Project Execution	Workshop	SECE	2 days	19/06/19	20/06/19
		FDP on Laboratory	FDP	SECE	5 days	09/12/19	13/12/19
		Online FDP on Robotics Process Automation-	FDP	Jeppiaar Institute of Technology	3 days	04/05/20	06/05/20
10.	Mr.S.Gokul	Teaching Learning Workshop on Laboratory Session & Project Execution	Workshop	SECE	2 days	19/06/19	20/06/19
		FDP on Solidworks	FDP	SECE	6 Days	2/12/19	07/12/19
		FDP on Laboratory	FDP	SECE	5 days	09/12/19	13/12/19
11.	Mr.P.Arunachalam	Teaching Learning Workshop on Laboratory Session & Project Execution	Workshop	SECE	2 days	19/06/19	20/06/19
		FDP on Laboratory	FDP	SECE	5 Days	09/12/19	13/12/19
12.	Mr.A.R.Palanivelrajan	Teaching Learning Workshop on Laboratory Session & Project Execution	Workshop	SECE	2 days	19/06/19	20/06/19
		C - Problem Solving - FDP	FDP	SECE	5 Days	26/11/19	30/11/19
		FDP on Laboratory	FDP	SECE	5 Days	09/12/19	13/12/19
		AICTE ATAL Faculty Development Program on "Internet of Things"	FDP	NITTTR, Chandigarh	6 Days	15/04/20	19/04/20
13.	Mr.S.Vignesh	Teaching Learning Workshop on Laboratory Session & Project Execution	Workshop	SECE	2 days	19/06/19	20/06/19
		FDP on Laboratory	FDP	SECE	5 Days	09/12/19	13/12/19
		Online FDP on	FDP	Jeppiaar	3 Days	04/05/20	06/05/20

		Robotics Process Automation		Institute of Technology			
14.	Mr.S. Dharanikumar	Teaching Learning Workshop on Laboratory Session & Project Execution	Workshop	SECE	2 days	19/06/19	20/06/19
		FDP on Solidworks	FDP	SECE	6 Days	02/12/19	07/12/19
		FDP on Laboratory	FDP	SECE	5 Days	09/12/19	13/12/19
		AICTE ATAL Faculty Development Program on "Internet of Things"	FDP	NITTTR, Chandigarh	5 Days	15/04/2020	19/04/2020
		Real Time Modeling Simulation, Verification and Validation of Engineering Problems using CAE	FDP	Ramco Institute of Technology	5 Days	11/06/2020	15/06/2020
15.	Mr.R.Thirupathi	Teaching Learning Workshop on Laboratory Session & Project Execution	Workshop	SECE	2 days	19/06/19	20/06/19
		C - Problem Solving - FDP	FDP	SECE	5 Days	26/11/19	30/11/19
		FDP on Laboratory	FDP	SECE	5 Days	09/12/19	13/12/19
16.	Mr.R.Vivek	Teaching Learning Workshop on Laboratory Session & Project Execution	Workshop	SECE	2 days	19/06/19	20/06/19
		C - Problem Solving - FDP	FDP	SECE	5 Days	26/11/19	30/11/19
		FDP on Laboratory	FDP	SECE	5 Days	09/12/19	13/12/19
		Robotics Process automation	FDP	Jeppiar Institute of Technology	3 days	4/5/2020	6/5/2020

Staff achievements:

a) Papers published in journals:

S.NO	Name of the Staff	Journal Name	Title of the Paper	Publication Year/Date
1.	Dr.S.Venkatesh	Korean Journal of Chem Engg	Optimization and experimental investigation in bottom inlet cyclone separator for performance analysis	Apr 2019

2.	Mr.S.Dharani Kumar	Mechanics and Mechanical Engineering	Investigation of mechanical behavior of friction stir welded joints of AA6063 with AA5083 aluminum alloys	Apr 2019
3.	Mr.Dharani kumar S	International Journal of Recent Technology and Engineering	Review on Hydrodynamic Analysis of Journal Bearing using Computational Fluid Dynamics	Apr 2019
4.	Mr.Vivek R	International Journal for Research & development in technology	SOLAR OPERATED PORTABLE WATER PURIFIER	Apr 2019
5.	Mr.A. Vimal,	International Journal of Research in Engineering, Science and Management	A Review on Shape Optimization and Analysis of Connecting Rod using Different Materials	Apr 2019
6.	F. Justin Dhiraviam,	International Journal of Research in Engineering, Science and Management	An Overview of Enhancement of Mechanical Properties in Weld Joints on Magnesium Alloy: A Review	Apr 2019
7.	S. Divya	International Journal of Research in Engineering, Science and Management	Automatic T-Shirt Folding Machine	Apr 2019
8.	K. Sathish	International Journal of Research in Engineering, Science and Management	Design and Fabrication of Adaptive Steering Controlled Headlight	Apr 2019

9.	Justin Dhiraviam. F	International Journal of Engineering Science and Computing	Design and Fabrication of Lifting Bed for Maintenance of Heavy Vehicle	Apr 2019
10.	A.Vimal,	International Journal of Research in Engineering, Science and Management	Design and Fabrication of Multi Drive Pulley Transmission using CVT	Apr 2019
11.	A. R. Palanivel Rajan,	International Journal of Research in Engineering, Science and Management	Design and Fabrication of Multifunctional Furniture	Apr 2019
12.	Vivek R,	International Research Journal of Engineering and Technology	Design and Fabrication of Roll Bending Machine	Apr 2019
13	P. Arunachalam	International Journal of Research in Engineering, Science and Management	Effects of Process Parameters and Mechanical Properties of Stir Cast Aluminium 6063 Alloy: A Review	Apr 2019
14	S. Divya,	International Journal of Research in Engineering, Science and Management	Engine Valve Lapping	Apr 2019
15	Dharani Kumar S	International Research Journal of Engineering and Technology	Friction Stir welding of Magnesium Alloy: A Review of Experimental Findings (Process Parameters, Quality Weld Generating Variables)	Apr 2019

16	Vivek. R,	International Journal of Engineering Science and Computing	Optimizing TIG Welding Parameters for AZ31B MagnesiumAlloys: A Review	May 2019
17	S.Dharani Kumar	International Journal of Engineering Applied Sciences and Technology	REVIEW ON SHOT PEENING OF NON FERROUS ALLOY	May 2019
18	A. Vimal, R	International Journal of Research in Engineering, Science and Management	Semi-Automatic Paper Bag Making Machine	May 2019
19	R.Vivek	International Journal for Scientific Research & Development	Semi-Automatic Pneumatic Sheet Metal Cutting and Bending Machine	May 2019
20	Y. Sureshbabu	International Journal for Scientific Research & Development	Thermal Analysis of Copper Coated Piston	May 2019
21	P. Arunachalam	International Journal of Research in Engineering, Science and Management	Torque Mapping and Product ionization of a Compressor	May 2019

b) Papers presented in conference

S.No	Name of The Staff	National / International Conference	Title of The Paper	Venue	Date
1.	Sureshbabu Y	International Conference On Recent Advances In Engineering And Technologies"	Study of Catalytic Coated Piston of an Internal	Sri Krishna College Of Engineering And Technology,	08/02/2019 & 09/02/2019

		(Icraet' 19)	Combustion (IC) Engine	Coimbatore-641 008, Tamilnadu	
2	Sureshbabu Y	4th International Conference on Recent Advancements in Chemical, Environmental and Energy Engineering (RACEEE 2019)	Experimental Investigation of Catalytic Coated Material on Piston and Combustion Chamber of IC Engine	Organizing Team - RACEEE 2019 Department of Chemical Engineering SSN College of Engineering	14/02/2019 & 15/02/2019

Students Achievements:

Event participation (curricular & extracurricular):

S.No	Name of the Student	Name of the Event	Status (Prize won)	Venue	Date
1.	Balaji.S	Tekspark'19 - Technical Quiz	First Place	Karpagam Institute Of Technology	07/09/2019
2	Sri Ram K	Autovaultz X9 - Autoquiz, Aptitude, Cad Modelling	Participation	Saegct Collegiate Club, Gct Cbe	14/09/2019
3	Ranjith D	Autovaultz X9 - Autoquiz, Aptitude, Cad Modelling	Participation	Saegct Collegiate Club, Gct Cbe	14/09/2019
4	Udhayakumar S , Rakesh V , Thaarani Devi .C.K , Shanketh .S , Santhana Prabhu.K , Muralidharan R	Project Presentation - Codissia	Participation	Coddissia	29/08/2019
5	Navjodh P G	Vahana V4 - Logo Frisk, Mr.Mechanic	Participation	Hindustyhan College Of Engineering And Technology	17/08/2019
6	Balaji.S	Autovaultz X9 - Autoquiz, Aptitude, Cad	Participation	Saegct Collegiate Club, Gct	14/09/2019

		Modelling		Cbe	
7	Ruthreesh T	Vahana V4 - Logo Frisk, Mr.Mechanic	Participation	Hindusthan College Of Engineering And Technology	17/08/2019
8	Srimuralidharan K	Autovault X9 - Cad Modelling	Third Place	Saegct Collegiate Club, Gct Cbe	14/09/2019
9	Sajeev S	Vahana V4 - Logo Frisk, Mr.Mechanic	Participation	Hindusthan College Of Engineering And Technology	17/08/2019
10	Surya Prakash M	Autovaultz X9 - Autoquiz, Aptitude, Cad Modelling	Participation	Saegct Collegiate Club, Gct Cbe	14/09/2019
11	Gowtham K V , Dhanushkrishna .T , Blessvin Bruso .P , Ajeeth .R	National Science & Technology Fair 2019	Participation	CODISSIA	29/08/201
12	Naveenan S	Vahana V4 - Logo Frisk, Mr.Mechanic	Participation	Hindusthan College of Engineering and Technology	17/08/2019
13	Nitish Kumar B	Vahana V4 - Logo Frisk, Mr.Mechanic	Participation	Hindusthan College of Engineering and Technology	17/08/2019
14	Balaji.S	Tekspark'19 - Paper Presentation	First Place	Karpagam Institute of Technology	07/09/2019
15	Akash R	Tekspark'19 - Paper Presentation	Participation	Karpagam Institute of Technology	07/09/2019
16	Gowtham K V , Dhanushkrishna .T , Blessvin Bruso .P , Ajeeth .R	KSB Pumps Limited, Coimbatore	Participation	Students Project Expo at KSB Pumps Annual Day 2019	04/08/2019
17	Sanjay S	Vahana V4 - Mr.Mechanic,	Participation	Hindusthan College of	17/08/2019

		Cad Modelling		Engineering and Technology	
18	Nambi Rajan K.S	Vahana V4 - Logo Frisk, Mr.Mechanic	Participation	Hindusthan College of Engineering and Technology	17/08//2019
19	Srimuralidharan K	Autovaultz X9 - Autoquiz, Aptitude, Cad Modelling	Participation	Sae gct Collegiate Club, Gct Cbe	14/09/2019
20	Ramesh Krishnaa S L , Sreedhar V , Yogeshwaran K	Ksb Pumps Limited, Coimbatore	Participation	Students Project Expo at KSB Pumps Annual Day 2019	04/08/2019
21	Udhayakumar S , Rakesh V , Thaaranidevi .C.K , Shanketh .S , Santhana Prabhu.K , Muralidharan R	Smart India Hackathon 2019	Participation	MHRD, AICTE	8/07/2019
22	Harish K, Damodhara Preasad R	Hands On Workshop on Dismantling and Assembly of Mahindra XUV 300 Engine	Participation	Karpagam College of Engineering	29/02/2020
23		ISNEE - GKDC	First Prize - Fuel Efficiency	Kari Motorway, Coimbatore	10/02/2020
24	Rojer Derieck D	Workshop On Augmented Reality And Virtual Reality	Participation	Sri Krishna College of Engineering and Technolog	27/02/2020
25	Karthik.B , Harish Kumar .M , Madhan .M	Efficycle 2019 Rule Book Workshop	Participation	Kcg College of Technology , Chennai	29/06/2019
26	Balaji.S	All India Seminar On "Artificial Intelligence : An Application Perspective	Participation	Kct, Cbe	05/09/2019

27	Ajay M	One Day Workshop On "Advancements In Welding Technology"	Participation	Sns College of Technology	26/07/2019
28	Dhatchinamoorthi V	One Day Workshop On "Advancements In Welding Technology"	Participation	Sns College of Technology	26/07/2019
29	Abilash S	One Day Workshop On "Advancements In Welding Technology"	Participation	Sns College of Technology	26/07/2019
30	Dhamodhara Prasad R	One Day Workshop On "Advancements In Welding Technology"	Participation	Sns College of Technology	26/07/2019
31	Murugananthan S	Fundamentals Of Automotive Engineering	Participation	Sae gct Collegiate Club, Gct, Cbe	14/09/2019
32	Saran Raj G	Fundamentals Of Automotive Engineering	Participation	Sae gct Collegiate Club, Gct, Cbe	14/09/2019
33	Nishanthkumar T	Fundamentals Of Automotive Engineering	Participation	Sae gct Collegiate Club, Gct, Cbe	14/09/2019
34	Dhamodhara Prasad R, Harish K	Hands On Workshop On Dismantling And Assembly Of Mahindra Xuv 300 Engine	Participation	Karpagam College of Engineering	29/02/2020
35	Robert Arun Stony M	Fundamentals of Automotive Engineering	Participation	Sae gct Collegiate Club, Gct, Cbe	14/09/2019
36	Satheesh Kumar N	Fundamentals of Automotive Engineering	Participation	Sae gct Collegiate Club, Gct, Cbe	14/09/2019

37	Balaji S	One Day Workshop On " Advancements in Welding Technology	Participation	Sns College Of Technology	26/07/2019
38	Aroon Daniel S	One Day Workshop On " Advancements in Welding Technology	Participation	Sns College Of Technology	26/07/2019

Internship/Implant Training:

Year & Class	Participant	Name of the Partnering Institution/ Industry /Research Lab with Contact Details	Duration (From-To)	No of Days
II MECH A	Lallu Raja M	ICF, Perambur	6/6/2019 to 20/6/2019	15
II MECH A	Gnanaprasanth R	Annamalais Motors Pvt Ltd, Coimbatore	28/5/2019 to 12/6/2019	16
II MECH A	Gowtham K			
IIIMECH B	Muruganathan S	Bimetal Bearing, Coimbatore	1/6/2019 to 15/6/2019	15
IIIMECH B	Udaya Prathap S			
IIIMECH B	Vignesh A			
III MECH A	Dinesh Kumar P	Roots Multiclean Ltd	24/5/2019 to 23/6/2019	31
IIIMECH B	Vivin Richard	Shreta Lab Technology, Chennai	21/5/2019 to 12/6/2019	23
III MECH B	Ruthresh T	L&T Defence, Coimbatore	7/1/2020 to 29/1/2020	23
IV MECH B	K.Sivakumar	Bimetal Bearing, Coimbatore	19/8/2019 to 31/03/202 (2days per week)	65
IV MECH B	J.Prithiviraj			
IVMECH B	S.Naveen			
IV MECH B	G.Stephen Jebadurai			
IV MECH B	P.Vigneshwaran			
IV MECH B	M.Raakesh	L&T Defence, Coimbatore	1/8/2019 to 30/9/2019	61
IV MECH A	Harshvardhan.B	KSB Pumps	13/5/2019 to 29/6/2019	48

IV MECH B	Nithin Gilfred	Pricol Limited	17/7/2019	33
IV MECH B	Sudalai Thangamani		to	
IV MECH B	Ragavan.M		18/8/2019	
IV MECH B	G.Stephen Jebadurai	IIT Madras	13/5/2019 to 13/7/2019	62
IV MECH A	Divya Dharsini.C	KSB Pump	17/2/2020 to 31/3/2020	65
IV MECH A	Dharanidaran.D	Focus R	19/2/2019 to 31/3/2019	43
IV MECH B	Navinkumar.R			
IV MECH B	Udayakumar.S			
IV MECH B	Saji.S			
IV MECH A	Kavin.Kr			
IV MECH B	Ragavan.M	Pricol Limited	16/12/2019 to 31/3/2019	107
IV MECH B	Shanketh.S			
IV MECH B	Sabaridhinesh.S	Khaaizeen Equipments	24/1/2020 to 31/03/2020	68
IV MECH B	Saran.G			
IV MECH A	Dineshkumaran.K	Altran	8/1/2020 to 31/3/2020	85
IV MECH B	Naveen Prasanth K			
IV MECH B	Nidhin Gilferd J			
IV MECH B	Raj Kumar.M			
IV MECH B	Shree Hari			
II MECH A	Akashkumar V	Balasanka Tvs (Thenkasi)	9/6/2019 to 19/6/2019	11
II MECH A	Allwyn Joseph S.J	Vishal Precision Works, Combatore	27/5/2019 to 2/6/2019	7
II MECH A	Aravindh Kumar S	Integara Automation	1/6/2019 to 10/6/2019	10
II MECH A	Aravinth S	TNSTC, Nagerkoil	10/6/2019 to 15/6/2019	6
II MECH A	Balaji R	TNSTC, Villupuram	10/6/2019 to 17/6/2019	8
II MECH A	Bala Naaga Sree Harri V	Vani Tools, Chennai	03/06/19 to 7/6/2019	5
II MECH A	Manoj Kumar A			
II MECH A	Boopathiraj R	Roots Limited, Kovilpalayam	4/6/2019 to 10/6/2019	7

II MECH A	Chandru S	Sail, Salem	8/6/2019	6
II MECH A	Devanandhan C		to	
II MECH A	Jaevishnu S	Royal Enfield Service Station, Coimbatore	10/6/2019	5
II MECH A	Kevinraj M		to	
II MECH A	Logeshwaran K	Reconditioning Unit- Ii Pollachi	8/6/2019 to 20/6/2019	13
II MECH A	Manikandan M	Mohler Machine Works,Coimbatore	7/6/2019 to 14/6/2019	8
II MECH A	Manirathinam P	Codebind Technology, Coimbatore	20/6/2019 to 24/6/2019	5
II MECH A	Manoj V	Bullmenn Motors, Coimbatore	10/6/2019 to 14/6/2019	5
II MECH A	Mathanprasath A	Agni Tmt Rods, Ingur	27/5/2019 to 31/5/2019	5
II MECH A	Mohammed Shahin Z	Ktm Motors, Coimbatore	31/5/2019	5
II MECH A	Mohana Sundaram J		to 4/6/2019	
II MECH B	Navith Apzal M	Lavan Tech	29/5/2019	7
II MECH B	Vivek V U		to 4/6/2019	
II MECH B	Praveen S	Gcm Industries	13/6/2019 to 19/6/2019	7
II MECH B	Ragu M	Amirthlakshmi Cnc Components	11/6/2019	5
II MECH B	Udith Vishnu U		to 15/6/2019	
II MECH B	Rakesh S K	National Engineering	17/6/2019 to 22/6/2019	6
II MECH B	Roger Derieck D	Royal Enfield Service Station, Coimbatore	10/6/2019	4
II MECH B	Saptha Giri		to 13/6/2020	
II MECH B	Sabari Sridaran G	Codebind Technology, Coimbatore	20/6/2019 to 24/6/2019	5
II MECH B	Sabbarish S	Maruthi Suzuki, Coimbatore	3/6/2019 to 16/6/2201 9	14

II MECH B	Sandhiya S	Saran Engineering Works	4/6/2019	6
II MECH B	Saurav Rishikesh S		to	
II MECH B	Shanthosh S A	Sail, Salem	8/6/2019	7
II MECH B	Yuvaraj C		to	
II MECH B	Sharath Kumar G	Karthick Flow Controls	10/6/2019	7
II MECH B	Sreedhar V		to	
II MECH B	Subash S		16/6/2201	
II MECH B	Yadav Prashanth M		9	
II MECH B	Yogeshwaran K			
II MECH B	Thilip C	Frontline Fabricators	5/6/2019	11
			to	
II MECH B	Vengatraman V	Sss Agencies Workshop	17/6/2019	6
			to	
III MECH B	Nithyanandhan N	Cim Technologies	27/5/2016	6
III MECH B	Robert Arun Stony M		to	
III MECH B	Prakash S	Gencok Pacific Auto Engineering	27/5/2019	9
			to	
III MECH B	Vikash Kumar V S	Paper Tubes, Coimbatore	25/5/2019	6
			to	
III MECH B	Naveenan S	Pentagon Switch Gears	27/5/2019	6
III MECH B	Nishanthkumar T		to	
III MECH B	Rajakumar R	Solara Chemicals P Ltd	19/6/2019	5
			to	
III MECH B	Ragupathy R	Shree Vigneshwara Industries	27/5/2019	6
III MECH B	R.Venkatesh		to	
III MECH B	Raj Kumar B	Sri Kumaraguru Ltd	27/5/2019	10
III MECH B	Srimuralidharan K		to	
III MECH B	Sanjay S	Lmw, Arasur	27/5/2019	6
			to	
III MECH B	Naveen Prasanth K	Messer Cutting Systems	10/6/2019	5
III MECH B	Ramkumar K		to	
III MECH B	Venkatesh R		14/6/2019	
III MECH A	Abubakkar Sidhik S M	Ss Technovation	24/5/2019	11
			to	

III MECH A	Abuthaheer K		31/5/2019	
III MECH A	Adarsh N K		& 19/6/2019	
III MECH A	Ajay M		to	
III MECH A	Akash S		21/6/2019	
III MECH A	Aniesh K			
III MECH A	Annamalai Deepak R			
III MECH A	Arun Mari A			
III MECH A	Ashwath S			
III MECH A	Gurushankar S			
III MECH A	Mogana Sundar V P	Ashok Leyland	10/6/2019 to 14/6/2019	5
III MECH A	Harish S	Craftsman Automation	10/6/2019 to 14/6/2019	5
III MECH A	Arun Mari A	Eppinger Tooling Asia Ltd	19/6/2019	4
III MECH A	Hariharan K		to 22/6/2019	
III MECH A	Harish B	Oneyes Technologies	3/6/2019 to 6/6/2019	4
III MECH A	Mathan Guru P	VREngineering	24/5/2019 to 3/6/2019	11

Industrial Visit:

S. No.	Year	Name of the Company	Date of Visit	No. of Days	No. of Students
1	II & III year (combined)	CSIR – SERC, Chennai	16.09.2019	1 day	19
2	II & III year (combined)	IIT Madras	23.09.2019	1 day	23
3	II & III year (combined)	CSIR – CLRI, Chennai	26.09.2019	1 day	9
4	III Mech A	Sigma Industries Ltd, Cochin	01.02.2020	2 Days	41
5	III Mech B	Sea Blue Shipyard Ltd, Cochin	01.02.2020	2 Days	50
6	II Mech B	Ace Components Ltd, Mysore	14.02.2020	2 Days	35
7	II Mech A	Sea Blue Shipyard Ltd, Cochin	14.02.2020	2 Days	44
8	II Mech A	Roots Industries Ltd, Coimbatore	21.02.2020	1 day	50

9	II Mech B	Roots Industries Ltd, Coimbatore	25.02.2 020	1 day	49
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Infrastructure Details of the Academic Year-2019-20

SI No	Name of the Laboratory	Sq. Feet/Meter Sq.	Amount Spent in 2014-15	Amount Spent in 2015-16	Amount Spent in 2016-17	Amount Invested in Lab Establishment	Core/Computing /Manufacturing /*IPL
1	Engineering Practices Laboratory	100'9" X 33' 3324.75 SQ.FT 308.87 Square Meter	1,01,003	1,04,000	60474	Rs 5,15,345/-	Core
2	CAD-SolidWorks Powered CAD Lab	44' X 41' 1804 SQ.FT	2,135	Nil	40,00,000	Rs 5663555/-	Core/IPL
	Computer Aided Drafting and Modeling Laboratory	167.59 Square Meter					
	CAM-Sysnautix Technologies Powered Industrial Product Design lab	21'2"X 20'4" 430.4 SQ.FT					
	C.A.D. / C.A.M. Laboratory	40 Square Meter	Nil	Nil	Nil		
	Simulation and Analysis						

	Laboratory						
3	Manufacturing Technology Laboratory – I	87' X 41' 3565 SQ.FT 331.19 Square Meter	89162	Nil	1418	Rs 33,58,022/-	Core
	Manufacturing Technology Laboratory – II		4				
	Aquasub Powered Manufacturing Technology lab		Nil	Nil	Nil	Rs 1,30,000/-	IPL
4	Fluid Mechanics and Machinery Laboratory	54'4"X41' 2000 SQ.FT 185.80 Square Meter	Nil	Nil	Nil	Rs 7,18,387/-	Core
5	Thermal Engineering Laboratory – I	87'X41' 3341 SQ.FT 310.38 Square Meter	Nil	Rs.233 069	Nil	Rs 25,93,702/-	Core
	Thermal Engineering Laboratory – II						
	Roots Powered IC Engines		Nil	Nil	Nil	Rs	IPL

	Lab					1,60,000/-	
6	Strength of Materials	53'10" X 41' 2207 SQ.FT	Nil	Nil	Rs.3,312	Rs 14,42,283/-	Core
	Dynamics Laboratory	205 Square Meter			.40	Rs 5,59,889/-	
7	Metrology & Measurements Laboratory	31'9"X41' 1301.75 SQ.FT	Nil	Nil	Nil	Rs 11,93,042/-	Core
	Mechatronics Laboratory	31'9"X41' 1301.75 SQ.FT	Rs.3,6 08	Nil	Nil	Rs 11,88,666/-	
8	ELGi Powered Air Compressor Lab	32'9"X33' 1080.75 SQ.FT	Nil	Nil	Nil	Rs 1,88,886/-	IPL

Infrastructure Details of the Academic Year-2019-20

Equipment Type	Name of Particulars	Year of Purchase	Cost of Equipment
Research	3D Printing Machine	2018	Rs.1,14,000
Research	Laser Cutting Machine	2018	Rs,4,14,000
Total Cost			Rs.5,28,000

Faculty onboard Details/ Professional societies/chapters and organizing Engineering events

Faculty Onboard Details:

S.No	Name	Company Name	Role
1.	Mr.Gokilakrishnan	Coimbatore Productivity Council	Special Invitee
2.	Mr.R.Suresh Kumar	Mastro Lee Engineering & Management Consultants	Advisor
3.	Mr.K.Sathish	Mastro Lee Engineering & Management Consultants	Advisor
4.	Mr.V.Naveen Prabhu	G.R.Industries	Advisor
5.	Mr.S.Dharani kumar	E.S.L Foundry	On Board Member
6.	Mr.T.Ramakrishnan	S.S.Technovation	Advisor

Professional Societies /Chapters:

S.No	Academic Year	Professional Societies	Number of Membership	
			Faculty	Student
1	CAY 2019-20			
		ISTE	10	0

		IIIE	1	0
		ISSS	1	0
		IWS	1	0
		IE	1	0
		The Coimbatore productivity council	2	0
		IAENG	13	0
		SFA	1	0
		MRSI	1	0
		IIM	1	0

List of membership of Professional Societies / Chapters:

S.No	Name of the Member	Student/Faculty	Year of Study/Designation of faculty	Name of the Professional Society	Membership Number
2019-20					
1	Dr.G.Karuppusami	Faculty	Dean R & I	ISTE	37296
				IIIE	MIIE 8800
				ISSS	LM453
2	Dr.R.Sureshkumar	Faculty	Asso.Professor	ISTE	LM87732
				IAENG	233348
				IRED	SNM10100059595
				IAAM	799131914486
				IFERP	PM24973850
				TERA	TERA-M19101453
IFERP	Institute Ambassador				

3	Dr.T.Ramakrishnan	Faculty	Asso.Professor	ISTE	LM63923
				SFA	FLM-SFA-0228
				IAENG	102110
				MRSI	LMB2231
				IIM	51064
				IAAM	IAAM-851014193996
4	Dr.G.Gokilakrishnan	Faculty	Asso.Professor	ISTE	LM34747
				CPC	LM58
				IWS	L01008
				IE	M145563-4
5	Dr.S.Ganeshkumar	Faculty	Asso.Professor	ISTE	LM87735
6	Dr.S.Balasubramani	Faculty	Asso.Professor	ISTE	LM92921
				IAENG	122173
7	Dr.S.Venkatesh	Faculty	Asso.Professor	IAENG	156856
8	Mr.Y.SureshBabu	Faculty	Asst.Professor	ISTE	LM87737
				IAENG	233349
9	Mr.K.Sathish	Faculty	Asst.Professor	ISTE	LM92922
10	Mr.V.Naveen Prabhu	Faculty	Asst.Professor	IAENG	195254
11	Mr.A.R.Palanivelrajan	Faculty	Asst.Professor	IAENG	233344
12	Mr.F.Justin Dhiraviam	Faculty	Asst.Professor	IAENG	233356
13	Mr.S.Gokul	Faculty	Asst.Professor	IAENG	233386
				CPC	INV/1653
14	Mr.S.Dharani kumar	Faculty	Asst.Professor	IAENG	157922
15	Mr.S.Vignesh	Faculty	Asst.Professor	IAENG	233582
16	Mr.R.Vivek	Faculty	Asst.Professor	IAENG	233346
17	Mr.Santhosh	Faculty	Asst.Professor	ISTE	110919

Eshwarite's Articles:

The Internet of things:

The Art of Connecting Man and Machine

The internet of things describes the network of physical objects that are embedded with sensors, software and other technologies for the purpose of connecting and exchanging data with other devices and systems over the Internet.

Virtual Reality:

Virtual Reality is a computer-generated stimulation of a three-dimensional image or environment that can be interacted with a real or physical way by a person using special electronic equipment such as a helmet with a screen inside or gloves fitted with sensors. Currently standard Virtual Reality systems use either Virtual Reality headsets or multi projected environments to generate realistic images, sounds, and other sensations that stimulate a User's physical presence in a virtual environment.

DENZIL RIVALDO A
(III Mechanical A)

SCOPE AND MISSION OF MECHANICAL ENGINEERING:

Frontiers in Mechanical Engineering is a young multidisciplinary journal aiming to capture and bridge the gap among the various areas of research in the Mechanical Engineering field. This multidisciplinary open access journal is at the forefront of disseminating and communicating scientific knowledge and impactful discoveries to researchers, engineers and public worldwide.



The scope includes original, theoretical and applied methods of research related to mechanical sciences and their engineering applications with all articles being evaluated on objective editorial criteria in a unique interactive forum and rigorous peer review. Through the application of a unique critical and interactive review process, the journal seeks to provide a platform for the dissemination of new and relevant information on a new number of fields within mechanical engineering. The submissions in proven and replicable discoveries, reviews and commentaries across the fields and in particular research of an inter or multidisciplinary nature.

HARSHIT S

(III Mechanical A)

Students Photography Corner:



NITHISH R

(III Mechanical B)



SUGAN KUMAR M

(III Mechanical B)

Artwork:



PRANESH S

(IV Mechanical B)

Last but not least:

DID YOU KNOW?

1. 220 million tons of old computers and other technological hardware are trashed in the United States each year.
2. A diamond will not dissolve in acid. The only thing that can destroy it is intense heat.
3. According to Moore's Law microchips double in power every 18 to 24 months.
4. Albert Einstein won the Nobel prize for physics in 1921.
5. One third of the world population has never made a telephone call.
6. The Ericsson Company first produced cellular phones in 1979.
7. The first laser was made in California in 1960.
8. U.S president Bill Clinton's in January 1997 was the first to be webcast.
9. The first two video games copyrighted in the U.S were Asteroids and Lunar Lander in 1980.
10. There have been 113 space shuttle flights since the program began in 1981.

CLOSURE:

All the events conducted by the department during the academic year **2019-20** were very successful and valuable to the student's community. This would not be possible without the driving force of our principal's, support from management and guidance from the head of the department and student volunteers are being thanked for their sincere efforts in making all the efforts into a success.

SRI ESHWAR COLLEGE OF ENGINEERING

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