



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



Department of Mechanical Engineering

MAGAZINE

for the year 2018 - 19

VOLUME I • ISSUE I



DEPARTMENT OF MECHANICAL ENGINEERING

Principal's Message:

A Department magazine reflects the consolidated efforts of the faculties and the students to contribute articles to the magazine in a creative manner. It is my pleasure in congratulating the Department of Mechanical Engineering for bringing the annual magazine for the academic year 2018-19. The magazine exhibits the efforts of the Mechanical Engineering Department throughout the academic year 2018-19. I am elated to see that the department has conducted many programs in such way to benefit the student community. I wish the department to involve in more activities of this sort and bring laurels to the institution and I am sure that publishing this annual magazine for the recognition for the faculty members who had worked throughout the semester for the happening of all programs.

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 2018-19. It is the talent and outcome of our students which is reflected through this annual magazine. Mechanical engineering always believes in encouraging students to dream big and take up the challenges in life with confidence. This is one of the best platforms for our department and students to present multifaceted dimensions, personalities. We believe that every student has innate potential. The departmental magazine has the prime objective of providing aspiring engineers a wide platform to showcase their technical knowledge and pen down innovative ideas. We will uphold this tradition and assure them all a happy learning environment in Mechanical Engineering Department at Sri Eshwar College of Engineering. This magazine is intended to bring out the hidden literary talents in the students and teachers to inculcate strong technical skills among them. I congratulate and thank all the students and faculty coordinator who have made untiring efforts to bring out this magazine. I wish them all the very best for releasing more such magazines in future

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 30 faculty members out of which 3 faculty members have their Ph.D, 10 faculty member 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 person's. 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:

S.Arunkumar	- III Mech-A
M.HarshaVardhanaMurugavhel	- III Mech-A

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 2018-2019:

Workshop:

Sl no	Date	Topic	Resource Person Name, Designation,	Participants		
				Students	Faculty	Others
1	30/09/18	Hands on Training Assembly Disassembly	Mr.Ramsankar DGM, CADD Technologies, Coimbatore	27	-	-
2	14/07/18	Lean Manufacturing	Dr.Gopal Sivakumar M.E.Ph.D., Intelligence Quality, Chennai	120	-	-

List of faculties attended FDP (within College & External)

S.N O	Name Of The Staff	Title	Venue	Date
1	Mr.S.Ganesh Kumar	FDP on PLC, Servo and Robotics Programming	Sri Eshwar college of Enginnerin	23/04/2018

			g	- 28/04/2018
2	Mr.R.Vivek	Faculty Induction Programme by Teaching Learning Centre	Coimbatore Institute of Technology	12.11.2018 - 08.12.2018
1.	Mr.Y.Suresh babu	Experimental Design, Prediction Modelling and Optimization Tools (EDPMOT'18)	Government College of Technology Coimbatore	12.12.2018 - 18.12.2018
2.	Mr.S.Balasubramani	Experimental Design, Prediction Modelling and Optimization Tools (EDPMOT'18)	Government College of Technology Coimbatore	12.12.2018 - 18.12.2018
3	Mr.S.Dharani Kumar	Experimental Design, Prediction Modelling and Optimization Tools (EDPMOT'18)	Government College of Technology Coimbatore	12.12.2018 - 18.12.2018

Workshops attended by staff members:

S.NO	Name Of the Staff	Title	Venue	Year/Date
1	Mr.Vimal.A	Planning of UBA activities in village clusters adopted by participating institution	IITM	2)018 6/8/2018
1	Mr.B.Santhosh Kumar	One day workshop on NPTEL National Programme on Teaching Enhanced Learning	K.Ramakrishna College of Engineering	2018 27/7/2018
2	Mr.T.Ramakrishnan	PROSPECTS IN MATERIALS	Karpagam Academy of Higher Education	27/9/2018 & 28/9/2018

	Mr.S.Ganesh Kumar	PROSPECTS IN MATERIALS	Karpagam Academy of Higher Education	27/9/2018 & 28/9/2018
	Mr.S.Balasubramani	PROSPECTS IN MATERIALS	Karpagam Academy of Higher Education	27/9/2018 & 28/9/2018
	Mr.S.Venkatesh	PROSPECTS IN MATERIALS	Karpagam Academy of Higher Education	27/9/2018 & 28/9/2018
1.	Dr.R.Suresh Kumar	Academic Leadership Development Programme	Coimbatore Institute of Technology	2018 26/9/2018 - 28/9/2018
2	Mr.G.Gokilakrishnan	Academic Leadership Development Programme	Coimbatore Institute of Technology	2018 26/9/2018 - 28/9/2018

Guest Lecture:

S.No	Date	Topic	Resource Person Name, Designation, Place of Travel	Participants		
				Students	Faculty	Others
1	14/07/2018	Interview Skills and Personality Development	Mr.V.Sundararajan Senior Advisor – Quest Global - Bangalore	48	3	-
2	14/07/2018	Roles and Responsibilities of an Employee in an Organization	Ramasubramanian H (HRS) Vice President Brakes India Chennai	233	25	-

3	14/07/2018	Lean Manufacturing	Dr.Gopal Sivakumar M.E.,Ph.D., GM - Intelligence Quality Chennai	60	3	-
4	2/8/2018	Advanced Manufacturing Process	Mr.K.Selvaraj General Manager Hitech CNC Machines Coimbatore	103	2	-
5	10/8/2018	Technical Session on Industrial Revolution	Mr.B.Anbuthambi Vice President ICT Academy Chennai	462	25	-
6	10/8/2018	Future of safety systems in Automobiles	Mr.N.Narasimhamoorthi Senior General Manager Brakes India Pvt. Ltd Chennai	462	25	-
7	10/8/2018	INDUSTRY 4.0 - Relevance of Mechanical Engineers	Mr.S.Senkathir Selvan Business Owner TCS Digifleet TCS - Chennai	462	25	-
8	10/8/2018	Technical Session on Industry 4.0	Mr.Ravi Ramarao Chief Architect Industry 4.0 Robert Bosch Bangalore	462	25	-
9	10/8/2018	Session on "CAN LIFE"	Mr.S.Rathinavel Rajan Head - HR Ball Coporation Chennai	462	25	-
10	10/8/2018	INDUSTRY 4.0 -	Mr.P.C.Krishnan	462	25	-

	8	Application to EPCC Business	GM – Technical Services Petrofac Chennai			
11	10/8/2018	Relevance of INDUSTRY 4.0 for Oil and Gas Industry	Dr.R.Arulmani Principal welding Engineer Cameron Coimbatore	462	25	-
12	10/8/2018	Factory of the Future	Ms.Shilpa Vyapari Founder & CEO Indicus Software Japan	462	25	-
13	29/09/2018	Computer Aided Design as Per Industry standards	Sabariraj.P General Manager CAD Solutions Coimbatore	120	2	-
14	5/10/2018	Gokart and E-kart Art to Part	Mr.Ramshankar,Mr.Arun,Mr. Karthik Design Engineers CADD Technologies Coimbatore	27	8	-
15	25/10/2018	ISHRAE STUDENT CHAPTER INSTALLATION	S.Raju Retired General Manager, Batliboi Limited, Coimbatore	30	6	-

Staff achievements:

Papers published in journals:

S.NO	Name of the Staff	Journal Name	Title of the Paper	Publication Year/Date
1	Dr.S.Venkatesh	Particulate Science and Technology, An International Journal	Modification of the cyclone separator geometry for improving the performance using Taguchi and CFD approach	May 2018
2	Mr.G.Gokilakrishnan	International Journal of Pure and Applied Mathematics	Simulation Based Swarm Intelligence to Generate Manufacturing-distribution Plan for a Bearing Industry under Uncertain Demand and Inventory Scenario	2018
3	Mr.S.Balasubramani	China Foundry	Investigation on mechanical properties of aluminium 7075 - boron carbide - coconut shell fly ash reinforced hybrid metal matrix composites	Nov 2018
4	Mr.S.Ganeshkumar Dr.R.Sureshkumar Dr.S.Venkatesh Dr.T.Ramakrishnan	International Journal of Mechanical Engineering & Technology	Investigation of wear behaviour of Silicon Carbide tool inserts and Titanium Nitride Coated tool inserts in machining of EN8 Steels	Jan 2019
5	Mr.Dharanikumar.S Ms.Divya.S	International Journal for Research in Applied Science & Engineering Technology	Investigation of Corrosion Properties of Aluminum 5083 Alloy and Graphite Composite	Apr 2018
6	Mr.V.Naveenprabhu	International Journal for Scientific Research & Development	A Review of Evaporative Cooling of Finned and Non-Finned Heat Exchanger on Condenser	Apr 2018
7	Mr.F.Justindhiraviam	International Journal for Scientific Research & Development	A Review on Performance Analysis of Solar Air Dryer using Different Coatings	Apr 2018

8	Mr.F.Justindhiraviam	International Journal for Scientific Research & Development	A Review on Reducing Emissions in CI Engines by using Porous Medium	Apr 2018
	Mr.Dharanikumar.S	International Journal of Emerging Technologies in Engineering Research	Numerical Investigation on Structural Analysis of Connecting Rod Bush	Apr 2018
	Mr.B.Santhoshkumar	International Journal for Scientific Research & Development	Effect of Load on Joint Efficiency and Hardness in Friction Stir Welding of AA6061 & AA6063 Aluminium Alloys	Apr 2018

Students Achievements:

Event participation (curricular & extracurricular):

S. No	Students Name	Event Name	Prize/Award Won/Participation	Venue	Event Date
1	ELANGO VAN K , FREDRIC PREM .W, Kavi Bharathi	Engine Dismantling & Assembling - ASTHRAA 2019	Second Prize	Karpagam Academy of Higher Education	19/ 02/ 2019

2	<p>Saranav.H Arun Kumar.R Prasath.S Vignesh.R , Vignes.R.R Ashlin.M Siva Sabari.M , Nihilesh Karthick , Shyam Shankar .K , Praveenkumar .T , Srinivasu .A , Gokul.K Yagesh G , Udhayakumar S Vijay Rengaraj.P Raakesh M , Naveennan S Gokula Krishnan P , Akhsh Kanna P , Abubakkar Sidhik S .M , Lakshmana Prabhu . N Gokulkrishnan S , Abishek S</p>	<p>Bharat Formula Karting Championship GO-CART EVENT</p>	<p>Overall India Ranking 36 th Place</p>	<p>CADD TECHN OLOGIES</p>	<p>2/8 /20 18</p>
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3	<p>S.Balaji P.Deepak T.Dhanushkrishna S.Dhanyapriyadhar shan A.Dinesh K.Elangovan W.Fedric Prem K.Kavibharathi M.Mohammedjavee d K.Mohan Aravind D.Dharanidharan S.Pradeep K.Hariharan S.Sajeev B.V.Nithish Kumar R.Ashwath R.Ajithvelayutham K.V.Gowtham S.Balaharinagendra n T.Ruthresh S.Dharsan</p>	National Super Karting Championship	Overall India Ranking 10th Place	Sr Motors ports, Hyderabad	25/09/2018
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4	1.S.Balaji 2.P.Deepak 3.T.Dhanushkrishna 4.S.Dhanyapriyadharshan 5.A.Dinesh 6.K.Elangovan 7.W.Fedric Prem 8.K.Kavibharathi 9.M.Mohammedjaveed 10.K.Mohan Aravind 11.D.Dharanidharan 12.S.Pradeep 13.K.Hariharan 14.S.Sajeev 15.B.V.Nithish Kumar 16.T.Ruthresh 17.S.Balaharinagendran 18.K.V.Gowtham 19.R.Ajithvelayutham 20.M.Chinraj 21.R.Ashwath	Bharat Formula Karting Championship GO-CART EVENT	Overall India Ranking 10th Place	CADD TECHNOLOGIES	2/8/2018
5	1.Siva Sabari M 2.Prasath S 3.Pradeep Rohin K	Indian Karting Championship Season 3	4th position in Acceleration Test, Virtuals Over all ranking	Nexus Motorsport	17/02/201

	4.Vignes R R 5.Yagesh G 6.Vignesh R 7.Sandeep K P 8.Vaibhav U Bhutada 9.Saranav H 10.Surendar M 11.Suraj M 12.Yasar Arafath S 13.Selvakumar R 14.Venkatesh Prasath M 15.Saravanan N 16.Udaya Kumar S 17.Raakesh M 18.Dinesh A 19.Saji S 20.Prem Kumar V 21.Sathish D 22.Muralidharan R 23.Naveenan S 24.Vijay Rengaraj P 25.Sudalai Thangamani J R 26.Naveen S 27.Santhosh T 28.Ravikumar P 29.Mohan P B		- 34, Final Event over all ranking - 30 out of 138 team across India		9
6	Nambi Rajan J K	Paper Contest	Third Place	The Coimbatore Productivity Council	18/02/2019
7	Sibi Mauriyan k, G.Ramkumar	Paper Presentation	First Place	HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY	23/02/2019
8	Karthick B	Mech Hunt - YUKATHA 2k19	First Place	PSG Institute of Technology and Applied Research	13/02/2019

9	DEPAK CHAKKARAVARTHY. R , BALAJI K , MOHAN JEET M , JAYANT .V	EUREKA - KRIYA 2k19	First Prize & Cash Award of Rs.5000/-	PSG Colleg e of Techn ology	23/ 02/ 201 9
10	Pradeep G	Project Presentation - MEQUEST'19	FIRST Place	Sri Ramak rishna Colleg e of Engine ering	27/ 02/ 201 9
11	S Manojkumar	CADD Quest - Technomeet'19	First Place	Pollach i Institu te of Engine ering and Techn ology	22/ 02/ 201 9
12	Shanketh S	One Day Workshop onFusion 360	Participation	Hindus than Colleg e of Engine ering and Techn ology	20/ 09/ 201 8
13	Shanketh S	Auto Sudoku - VAHANA V3.0	Participation	Hindus than Colleg e of Engine ering and Techn ology	8/9 /20 18
14	Shanketh S	CAD Modelling - VAHANA V3.0	Participation	Hindus than Colleg e of Engine ering and Techn ology	8/9 /20 18
15	Shanketh S	Paper Presentation - VAHANA V3.0	Participation	Hindus than Colleg e of Engine ering and Techn	8/9 /20 18

				ology	
16	Shanketh S	DST & Texas Instruments India Innovation Challenge Design Contest 2018	Participation	IIM, Bangalore	21/11/2018
17	S.Naveen Prasath	One Day Seminar on Advanced Composites for Naval Applications - Challenges and Opportunities	Participation	Dr. Mahalingam College of Engineering and Technology	14/02/2019
18	Saranraj S, Rubesh P	Paper Presentation - MECHNOTRON 2019	Participation	Coimbatore Institute of Technology	10/01/2019 - 11/01/2019
19	ELANGO VAN K , FREDRIC PREM .W, Kavi Bharathi	Auto Quiz - ASTHRAA 2019	Participation	Karpagam Academy of Higher Education	19/02/2019

Internship/Implant Training:

No.	Name of Students	Year & Class	Name of the Industry	Internship Duration
				(From – To)
1	Gokulakrishnan.P	II Mech A	Veeyes steelcast Private ltd	10/12/2018 - 15/12/2018
	Akash kanna			
2	S.Karthikeyan	II Mech A	Ambal Autos,Erode	3/12/2018 - 13/12/2018
3	P.Gokulakrishnan.P	II Mech A	Ramya Plastics	29/11/2018 - 8/12/2018
4	V.P.Moganasundar	II Mech A	Meghsteels	30/12/2018 - 14/12/2018

5	P.Mathanguru	II Mech A	TNSTC,Pollachi	6/12/2018 - 13/12/2018
	S.Dharsan			
	M.Kathirvel			
	A.MAnojkumar			
6	S.Dharsan	II Mech A	Unicast Alloys Pvt Ltd, Coimbatore	3/12/2018 - 7/12/2018
7	Ajay. M	II Mech A	Covai Metal Works, Pollachi	12/12/2018 - 16/12/2018
8	Dineshkumar.M	II Mech A	Roots Industries	3/12/2018 - 7/12/2018
	Denzi Rivaldo.R			
9	Barath.s	II Mech A	Shree Amman Motors, Pollachi	1/12/2018 - 7/12/2018
	Abubakkar Sidhik			
10	Abishek.S	II Mech A	Quality Engineering, Sidco	11/12/2018 - 15/12/2018
11	R.Nithish	II Mech B	TVS, Madurai	26/11/2018- 4/12/2018
12	C.Ruthravel	II Mech B	Tirupur Hyundai, Udumelpet	3/12/2018 - 6/12/2018
	Yashwanth			
13	Sathishkumar.N	II Mech B	Vinayaga Gears, SIDCO,Coimbatore	3/12/2018 - 4/12/2018
	Muruganathan.S			
	K.Sriram			
	K.Ramkumar			
14	Pavish.M	II Mech B	Bascet Engineering & Services	20/11/2018- 29/11/2018
15	Sathishkumar.N	II Mech B	Sarathy TVS, Pollachi	7/12/2018 - 8/12/2018
	Muruganathan.S			
	K.Ramkumar			
	Ranjith			
	Nambirajan			
16	Nithishkumar.B.V	II Mech B	Sterling Engineering Automation	5/12/2018 - 6/12/2018
	Nishanthkumar.T			
	Ramkumar.K			

17	S.Naveenan	II Mech B	Indo shell Pvt Ltd, Coimbatore	6/12/2018 - 8/12/2018
	A.Vignesh			
18	R.Venkatesh	II Mech B	Shri Sashta traders, Coimbatore	4/12/2018 - 7/12/2018
	R.Ragupathy			
19	V.Jayant	III Mech A	Tafe	3/9/2018 - 7/9/2018
	R.Karthick			
	Mohan Jeet			
	R.Deepak Chakravarthy			
20	Harshavardhan	III Mech A	Robert Bosch	11/6/18-10/7/18
21	Karthick.B	III Mech A	ATS ELGi	12/6/18-10/7/18
22	Balaji.K	III Mech A	Igasashi Motors P ltd	18/6/18-21/6/18
23	Harishkumar	III Mech A	Veeyes Alloys	3/5/18-1/6/18
24	Gowtham.K.V	III Mech A	Messer Cutting system	11/6/18-15/6/18
	Deepak.P			
	Fredic Prem.W			
25	Bala hari Nagendran.S	III Mech A	Messer Cutting system	21/5/18-26/5/18
	Chandramoorthy			
	Dineshkumar.K			
	Balaji.S			
26	Nishanth.A	III Mech B	Messer Cutting system	21/5/18-26/5/18
	Sivakumar.K			
27	AJAY RICHARD.J	IV Mech A	Bimetal Bearings Ltd, Coimbatore	July 2018 - March 2019
	ARTHUR ADAIKALARAJ.J			
	KAVYA .L			
28	ASHLIN.M	IV Mech A	Surfine Tools, Coimbatore	24/01/2019 - March 2019
29	ASHOK KUMAR N	IV Mech A	NASENS Mining and Automation Pvt Ltd, Coimbatore	17/12/2018 - March 2019
30	GOKUL.K	IV Mech A	Doiter Castings Pvt Ltd, Coimbatore	05/01/2019 - March 2019
	HARIHARAN K			
31	FRANKILIN .A	IV Mech A	ELGI EQUIPMENTS (P)Ltd, Coimbatore	17/12/2018 - March 2019
	MARUTHANAYAGAM.R			
	MOHAMED IJAZ H			
	KATHIRESH.N			
32	ATHEESWARAMANI.A	IV Mech A	PRICOL Engineering Industries private ltd,	19/12/2018 - 09/1/2

	CHOCKALINGAM.S		Coimbatore	019
	DAANUS.S			
	HARIHARA SUDHAN .M			
	KETHARNATH G			
33	ASHWIN.R	IV Mech A	Ampere Vehicles Pvt. Ltd.,	3/8/2018-12/8/2018
	BHARATHI.K			
	HARIHARAN.K			
	JAWAHAR.K.M			
	KABILESHWARAN.L			
	KAILASANATHAN.J			
	KAVIN BHARATHI.N			
	KEERTHI RAM.S			
34	KISHORE KUMAR.K.S	IV Mech A	Jiametrics Training	20/12/2018 – 29/12/2019
	MITHUN.S			
	KALAISELVAN.P			
	MATHUVISHNU U			
	GOWRI SANKAR.G			
	KARTHICKPRABHU B			
	KARTHIK.S			
	KAVIYARASU.R			
35	GURUPRASATH.B	IV Mech A	MontBleu Industries	18/08/2018 – 05/09/2018
	JAWAHAR.K.M			
	KARTHIK.S			
36	RAGUNATH A	IV Mech B	ELGi Equipments pvt ltd	17/12/2018-March 2019
	SANDEEP.K.P			
	SURAJ.M			
	VIGNESH.R			
37	PRAKASH.N	IV Mech B	Ampere Vehicles Pvt. Ltd.,	3/8/2018-12/8/2018
	PUKALENTHIRAN.M			
	S.VIJAY			
	VISHNU CHAKRAVARTHY.K			
38	VIGNESH.R	IV Mech B	ChainSys, Chennai	23/01/2019-March 2019
	G.YAGESH			
	M.NAVEENKUMAR			
39	M.PUKALENTHIRAN	IV Mech B	Doiter Casting Pvt Ltd, Coimbatore	07/01/2019-March 2019
40	SANTHOSH.K.K	IV Mech B	Surfine Tools, Coimbatore	24/01/2019 – March 2019

41	RISHIKESH PRABHU.S	IV Mech B	Jiametrics Training	20/12/2018 – 29/12/2019
	NARESHKUMAR.M			
	PRASATH.S			
	SANTHEEP KUMAR.S			
	SHYAM SHANKAR.K			
	VENKATESH.D			08/01/2019- 10/01/2019
	RADHAKRISHNAN.P			
	SANTHEEP KUMAR.S			
	PRADEEP.S			
	SUDHAKAR.S			

Industrial Visit:

S. No.	Year	Name of the Company	Date of Visit	No. of Days	No. of Students
1	II Mech A	Roots Industries Pvt Ltd, Coimbatore	21.08.2018	1	55
2	II Mech B	Roots Industries Pvt Ltd, Coimbatore	26.09.2018	1	59
3	II Mech A	PSG Industrial Institute, Coimbatore	28.09.2018	1	20
4	II Mech A	Sakthi Auto Components Pvt Ltd	29.09.2018	1	28
5	II Mech B	Tuticorin Thermal Power Plant	06.10.2018	1	47
6	II Mech B	Hindustan Springs Pvt Ltd, Mysore	29.12.2018	2	45
7	III Mech B	Meritor HVS Pvt Ltd, Mysore	03.01.2019	2	47
8	III Mech A	Government Sandalwood Factory, Mysore	03.01.2019	2	45
9	II Mech A	Kaynes Technology Pvt Ltd, Mysore	12.01.2019	2	50

Events conducted in the department with photos – with a brief description (name of the event, name of the chief guest, venue & date):

Maquina Inauguration:



Maquina Association Inauguration

Chief Guest: Mr.H.Ramasubramanian,
Vice President,
Brakes India Private
Limited,
Chennai

Date: 14.06.2018

Venue: IInd Floor Auditorium, Sri Eshwar
College of Engineering

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

Faculty Onboard Details:

S.No	Faculty Name	Company Name	Role	Date	
				From	To
1	F.Justin Dhiraviam	SACS FOODS	On-board Advisor	27/01/2017	31/12/2019
2	V.Naveenprabhu	Hi_Tech Machining Center	Advisor	02/02/2017	31/01/2019
3	K.Saravanakumar	Hi-Tech CNC Automation	Advisor	26/01/2017	25/01/2019
4	G.Ravishankar	Fine Engineering	On-Board Member	23/01/2017	31/03/2019
5	S.GaneshKumar	Vishnuvarthan paper Mills Pvt Ltd	On-Board Member	06/02/2017	31/01/2019
6	VIMAL A , DIVYA .S, GOKUL S, NIMAL N	ESL Foundry	On-Board Member	2017	2019
7	GOKILAKRISHNAN G, BASKARAN S, PALANIVELRAJAN A R,	SVG Engineering Services	Advisor	15/07/2016	31/12/2018

	ARUNACHALAM P				
8	SVG Engineering Services	Coimbatore Productivity Council	Special Invitee	11/08/2017	31/07/2019

Professional Societies / Chapters:

S.No	Academic Year	Professional Societies	Number of Membership	
			Faculty	Student
1	CAY 2018-19	ISHRAE	0	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
CAY 2018-19					
1.	Dr.G.Karuppusami	Faculty	Dean R & I	ISTE	37296
				IIIE	MIIE 8800
				ISSS	LM453

2.	Dr.B.Sathish Kumar	Faculty	HOD/Mechanica	ISTE	69455
3.	Mr.R.Sureshkumar	Faculty	Asst.Professor	ISTE	LM87732
				IAENG	233348
4.	Mr.G.Gokilakrishnan	Faculty	Asst.Professor	ISTE	LM34747
				IWS	L01008
				IE	M145563-4
				The Coimbatore productivity council	LM58
5.	Mr.S.Ganeshkumar	Faculty	Asst.Professor	ISTE	LM87735
6.	Mr.Y.SureshBabu	Faculty	Asst.Professor	ISTE	LM87737
				IAENG	233349
7.	Mr.S.Balasubramani	Faculty	Asst.Professor	ISTE	LM92921
				IAENG	122173
8.	Mr.K.Sathish	Faculty	Asst.Professor	ISTE	LM92922
9.	Mr.S.Venkatesh	Faculty	Asst.Professor	IAENG	156856
10.	Mr.T.Ramakrishnan	Faculty	Asst.Professor	ISTE	LM923
				SFA	FLM-SFA-0228
				IAENG	102110
				MRSI	LMB2231
				IIM	51064
11.	Mr.S.Dharani Kumar	Faculty	Asst.Professor	IAENG	157922
12.	Mr.Santhoshkumar. B	Faculty	Asst.Professor	ISTE	110919
				IAENG	233353
13.	Mr.S.Gokul	Faculty	Asst.Professor	The Coimbatore productivity council	INV/1653
				IAENG	233386
14.	Mr.F.Justin Dhiraviam	Faculty	Asst.Professor	IAENG	233356
15.	Mr.V.Naveen Prabhu	Faculty	Asst.Professor	IAENG	195254

16.	Mr.K.Saravana Kumar	Faculty	Asst.Professor	IAENG	233500
17.	Mr.R.Vivek	Faculty	Asst.Professor	IAENG	233346
18.	Mr.A.R.Palanivelrajan	Faculty	Asst.Professor	IAENG	233344
19.	A.Srinivasu	Student	IV Mech BB	ISHRAE	S00066116
20.	K.Shyam shankar	Student	IV Mech	ISHRAE	S00066117
21.	J.Sriharivishnu	Student	IV Mech	ISHRAE	S00054113
22.	N.Nithyanandham	Student	IV Mech	ISHRAE	S00054095
23.	Ashish Kumar Maurva	Student	IV Mech	ISHRAE	S00053596
24.	Indu Pal	Student	IV Mech	ISHRAE	S00055443
25.	Rinki Yadav	Student	IV Mech	ISHRAE	S00054873
26.	E.Yashwanth	Student	II Mech	ISHRAE	S00064297
27.	C.U.Ramanan	Student	II Mech	ISHRAE	S00064294
28.	A.Vigneshwaraan	Student	II Mech	ISHRAE	S00064292
29.	R.Nithish	Student	II Mech	ISHRAE	S00064300
30.	N.Nathanael	Student	II Mech	ISHRAE	S00064302
31.	T.Nishanth Kumar	Student	II Mech	ISHRAE	S00064305
32.	B.V Nitish Kumar	Student	II Mech	ISHRAE	S00064303
33.	Robert Arun Stoney	Student	II Mech	ISHRAE	S00064301
34.	S.Sajeev	Student	II Mech	ISHRAE	S00065736
35.	P.Joshua	Student	II Mech	ISHRAE	S00065739
				ISHRAE	S00064299
36.	Bharath	Student	II Mech	ISHRAE	S00064295
				ISHRAE	S00064298
37.	M Dinesh Kumar	Student	II Mech	ISHRAE	S00065741
38.	P.Gokula Krishnan	Student	II Mech	ISHRAE	S00065742

List of Events Organized through Professional Societies /Chapters:

S.No	Name of the Event	Title	Date of Event	Level (Institute/State/ National/ International)	Details of Resource Person
CAY 2018-19					
1.	Guest Lecture	Lecture on Applications of Evaporative Cooling in Textile industry	25/10/2018	Institution	Mr. S. Raju, President Elect, ISHRAE Coimbatore Chapter

Technical Clubs and Associations:

S.No	Academic Year	Name of the Club and Associations	Number of Membership	Number of Program Organised
1	CAY 2018-19	MAQUINA	376	15
		Product design club	60	2
		Product development club	237	1

Office bearers of MAQUINA Association:

S.No	Name of the Student	Designation	Year of Study
CAY 2018-19			
1	Siva subramaniam M	President	IV
2	Mugesh R	Vice president	IV
3	Balaji K	Secretary	IV
4	Shree Hari G	Vice secretary	IV

Office bearers of ISHRAE Sub Chapter:

S.No	Academic Year	Name of the Student	Designation	Year of Study
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1	CAY 2018-2019	A.Srinivasu	President	IV B
2		Ashish kumar maurya	Vice President	IV A
3		K.Shyam shankar	Secretary	IV B
4		T.Ruthreesh	Treasurer	II B
5		C.U.Ramanan	CWG 1	II B
6		E.Yashwanth	CWG 2	II B
7		P.Joshua	CWG 3	II A
8		A.Vigneshwaraan	CWG 4	II B

List of ISHRAE membership:

S.No	Name of the Member	Student/ Faculty	Year of study/ Designation of	Name of the Professional	Membership Number
1.	A.Srinivasu	Student	IV Mech	ISHRAE	S00066116
2.	K.Shyam shankar	Student	IV Mech	ISHRAE	S00066117
3.	J.Sriharivishnu	Student	IV Mech	ISHRAE	S00054113
4.	N.Nithyanandham	Student	IV Mech	ISHRAE	S00054095
5.	Ashish Kumar Maurya	Student	IV Mech	ISHRAE	S00053596
6.	Indu Pal	Student	IV Mech	ISHRAE	S00055443
7.	Rinki Yadav	Student	IV Mech	ISHRAE	S00054873
8.	E.Yashwanth	Student	II Mech	ISHRAE	S00064297
9.	C.U.Ramanan	Student	II Mech	ISHRAE	S00064294
10.	A.Vigneshwaraan	Student	II Mech	ISHRAE	S00064292
11.	R.Nithish	Student	II Mech	ISHRAE	S00064300
12.	N.Nathanael	Student	II Mech	ISHRAE	S00064302
13.	T.Nishanth Kumar	Student	II Mech	ISHRAE	S00064305
14.	B.V Nitish Kumar	Student	II Mech	ISHRAE	S00064303
15.	Robert Arun Stoney	Student	II Mech	ISHRAE	S00064301
16.	S.Sajeev	Student	II Mech	ISHRAE	S00065736
17.	Ruthreesh	Student	II Mech	ISHRAE	S00065739
18.	P.Joshua	Student	II Mech	ISHRAE	S00064299
19.	S.Karthikeyan	Student	II Mech	ISHRAE	S00064295
20.	Bharath	Student	II Mech	ISHRAE	S00064298
21.	M Dinesh Kumar	Student	II Mech	ISHRAE	S00065741

22.	P.Gokula Krishnan	Studen	II Mech	ISHRAE	S00065742
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Event : ISHRAE Re-Installation,
 Guest : 1.Dr.S.Sundararaj, Students Activities Chair, ISHRAE Coimbatore
 Chapter : 2. Mr. S. Raju, President Elect, ISHRAE Coimbatore Chapter
 Venue : GF 07
 Date : 25/10/2018



Event : Lecture on Applications of Evaporative Cooling in
Textile industry
Guest : Mr. S. Raju, President Elect, ISHRAE Coimbatore Chapter
Venue : GF 07
Date : 25/10/2018

Office bearers of Product Development Club:

S.No	Name of the Student	Designation	Year of Study
CAY 2018-19			
1	Pradeep.G	President	III
2	Mohanjeet.M	Vice president	III
3	Gokulnath	Secretary	II
4	Srimuralidharan	Vice secretary	II

Office bearers of Product Design is Club:

S.No	Name of the Student	Designation	Year of Study
CAY 2018-19			
1	Shanketh.S	President	III
2	Lakshmanu Prabhu.N	Vice president	II
3	Mohan Aravind.K	Secretary	III
4	Robert Arun Stony.M	Vice secretary	II

Office bearers of The ISHRAE:

S.No	Academic Year	Name of the Student	Designation	Year of Study
1	CAY 2018-2019	A.Srinivasu	President	IV B
2		Ashish kumar maurya	Vice President	IV A
3		K.Shyam shankar	Secretary	IV B
4		T.Ruthreesh	Treasurer	II B
5		C.U.Ramanan	CWG 1	II B

6		E.Yashwanth	CWG 2	II B
7		P.Joshua	CWG 3	II A
8		A.Vigneshwaraan	CWG 4	II B

Summary of Events Organized through MAQUINA Associations:

S.No	Year	Number of Guest Lectures
1	CAY 2018-19	15

List of Events Organized through MAQUINA Associations:

S.No	Name of the Event	Title	Date of Event	Level (Institute/State/National / International)	Details of Resource Person
CAY 2018-19					
1	Guest Lecture	Interview Skills and Personality Development	14/07/2018	Institute	Mr.V.Sundararajan Senior Advisor – Quest Global - Bangalore
2	Guest Lecture	Roles and Responsibilities of an Employee in an Organization	14/07/2018	Institute	Ramasubramanian H (HRS) Vice President

					Brakes India Chennai
3	Guest Lecture	Lean Manufacturing	14/07/2018	Institute	Dr.Gopal Sivakumar M.E.,Ph.D., GM - Intelligence Quality Chennai
4	Guest Lecture	Advanced Manufacturing Process	2/8/2018	Institute	Mr.K.Selvaraj General Manager Hitech CNC Machines
5	Guest Lecture	Technical Session on Industrial Revolution	10/8/2018	Institute	Mr.B.Anbuthambi Vice President ICT Academy Chennai
6	Guest Lecture	Future of safety systems in Automobiles	10/8/2018	Institute	Mr.N.Narasimhamoorthi Senior General Manager Brakes India Pvt. Ltd Chennai
7	Guest Lecture	INDUSTRY 4.0 - Relevance of Mechanical Engineers	10/8/2018	Institute	Mr.S.Senkathir Selvan Business Owner TCS Digifleet TCS - Chennai
8	Guest Lecture	Technical Session on Industry 4.0	10/8/2018	Institute	Mr.Ravi Ramarao Chief Architect Industry 4.0

					Robert Bosch Bangalore
9	Guest Lecture	Session on "CAN LIFE"	10/8/2018	Institute	Mr.S.Rathinavel Rajan Head – HR Ball Coporation Chennai
10	Guest Lecture	INDUSTRY 4.0 - Application to EPCC Business	10/8/2018	Institute	Mr.P.C.Krishnan GM – Technical Services Petrofac Chennai
11	Guest Lecture	Relevance of INDUSTRY 4.0 for Oil and Gas Industry	10/8/2018	Institute	Dr.R.Arulmani Principal welding Engineer Cameron Coimbatore
12	Guest Lecture	Factory of the Future	10/8/2018	Institute	Ms.Shilpa Vyapari Founder & CEO Indicus Software Japan
13	Guest Lecture	Computer Aided Design as Per Industry standards	29/09/2018	Institute	Sabariraj.P General Manager CAD Solutions Coimbatore
14	Guest Lecture	Gokart and E-kart Art to Part	5/10/2018	Institute	Mr.Ramshankar,Mr .Arun,Mr.Karthik Design Engineers CADD Technologies Coimbatore
15	Guest	ISHRAE STUDENT	25/10/20	Institute	S.Raju

	Lecture	CHAPTER INSTALLATION	18		Retired General Manager, Batliboi Limited, Coimbatore
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List of Events Organized through Product development club:

S.No	Name of the Event	Title	Date of Event	Level (Institute/State/National / International)	Details of Resource Person
CAY 2018-19					
1	Project Exhibition	Project Expo'19	02.02.2019	Institute	Dr.S.Venkatesh, Associate Professor Sri Eshwar College of Engineering

List of Events Organized through Product design club:

S.No	Name of the Event	Title	Date of Event	Level (Institute/State/National / International)	Details of Resource Person
CAY 2018-19					
1	Design Contest	Innovation in Mechanical Engineering	7/9/18	Institute	Mrs.S.Dhivya, Assistant Professor Sri Eshwar College of Engineering
2	Design Contest	Automation in Mechanical Engineering	18/2/219	Institute	Mrs.S.Dhivya, Assistant Professor Sri Eshwar College of Engineering

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Participation in inter-institute events by students of the program of study:

Events within the state:

Events	Total Number of Participation
	CAY 2018-19
Workshop/ Seminar	6
Project Competition	2
Paper presentation	3
Sports	1
Other Events	4
Total	16

Events outside the state:

Events	Total number of participation
CAY 2018-19	
Engineering Events	2

List of student's prize winners within the state:

S.No	Year of study	Students name	Title	Date	Venue	Prize Won
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CAY 2018-19						
1	II	Nambi Rajan J K	Paper Contest	18/02/2019	The Coimbatore Productivity Council	Third Place
2	III	Sibi Mauriyan k, G.Ramkumar	Paper Presentation	23/02/2019	HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY	First Place
3	III	Karthick B	Mech Hunt - YUKATHA 2k19	13/02/2019	PSG Institute of Technology and Applied Research	FIRST Place
4	IIII	DEPAK CHAKKARAVARTH Y.R , BALAJI K , MOHAN JEET M , JAYANT .V	EUREKA - KRIYA 2k19	23/02/2019	PSG College of Technology	FIRST Prize & Cash Award of Rs.5000 /-
5	III	Pradeep G	Project Presentation - MEQUEST'19	27/02/2019	Sri Ramakrishna College of Engineering	FIRST Place
6	III	S Manojkumar	CADD Quest - Technomeet' 19	22/02/2019	Pollachi Institute of Engineering and Technology	FIRST Place

Project Expo:

Innovative Project Expo of the Sri Eshwar College of Engineering which was held on 17.03.2018. The Students of Mechanical Engineering Department Exhibited their awe-inspiring ideas through their Projects. Dr.G.Karuppusami, Dean Research and Innovations was the Chief Guest of the function and Dr.B.Sathish Kumar, Former Head of the Department, Mechanical Engineering was the convener of the function. The Juries of the Project Expo were the prestigious Alumni of Sri Eshwar College of Engineering. The Expo comprised of projects from II, III and IV years students who displayed their innovative project ideas at the expo. The Juries were very much inspired by the innovative ideas of their fellow college students.

Mechanical Engineering Department's Contribution in Project Expo'18

Total Number of Project exhibited:

Total Number of Winners from II,III & IV Year:

List of Prize Winners:

PRIZE	NAME	TITLE
I	PRADEEP S	A 26 AGRI MULTIPURPOSE VEHICLE
	DEPAK CHAKARAVARTHY	
	K. BALAJI	
	M. MOHANJEET	
	V. JAYANT	
II	B. KARTHIK	CLEAN INDIA
	R. KARTHIK	
	M. KARTHIKEYAN	
	D. KAUSIC	
I	A.KAMESH KUMAR	SHAPING MACHINE USING SCOTCH YOKE MECHANISM
	N.NIKHILPRASATH	
	K. SANTHANA PRABHU	
	P. ROKESH	
	S. SARANRAJ	
II	V. SHUNDEEP	AUTOMATIC BIKE STAND BY ARDUINO
	T. PRETHEVIRAJ	
	R. RAMRAJ	
	P. VIGNESWARAN	
I	K. VIVEKANANDAN	DESIGN AND FABRICATION OF FURNACE
	D.DHANUSH GOWTHAM	
	S. KEERTHI RAM	
	R. MUGESH	
II	K. JAYAPRAKASH	DESIGN AND FABRICATION OF 3D PRINTER USING E-WASTE
	N. ASHOK KUMAR	
	A.FRANCIS SURYA	
	C S. DHARSAN	
III	M. ANISH KUMAR	DESIGN AND FABRICATION OF AUTOMATIC TEMPERATURE CONTROL
	A.FRANKLIN	
	M. HARIHARASUTHAN	
	J. KAILASANATHAN	
I	S. KARTHIKRAJA	PORTABLE WATER COLLECTOR
	K.P SANDEEP	
	R.R. VIGNES	
	R. VIGNESH	
II	R. VISHNU RAJAN	COIR POT MAKING MACHINE
	A.RAGUNATH	
	R.V.PRASANNA VENKATESH	
	S. RISHIKESH PRABHU	
	J.VISHNU	

III	S. YASAR ARAFATH	CYCLONE SEPARATOR
	K. VIJAY	
	M. MAHENDHRA PRABHU	
	D. VENKATESH	
I	S. JAICHAND	AUTOMATED ROTOR PAINTER
	S. KANNABIRAN	
	A.GANESH KUMAR	
	M. BALASUBRANIAN	
II	D. CHANDRAMOULI	VACUUM OCCUPIED SOLAR FLAT PLATE COLLECTOR
	J.A.DANIEL SUSAI	
	R.DINESH BABU	
	MOHAMMED YAZAR HUSAIN	
III	M. PRAVEEN KUMAR	AIR CONDITIONING USING VORTEX TUBE
	G. PRIYADHARSAN	
	G. RAGHUL	
	S. SRIDHARSAN	

ESHWARITES ARTICLES:

TRENDS IN INNOVATION:

Digitalization – a mechanical engineering megatrend in 2019:

After multiple scientific breakthroughs, AI (in the form of virtual assistants) is becoming an ever-bigger part of day-to-day work. Overall, mechanical engineering as we know it is merging more and more with digital technologies. The Industrial Internet of Things by making efficient use of digital methods. After all, when devices communicate with each other, they don't just help speed up production and transport processes, they can also support new business models in which processes adapt automatically based on the data generated.

Humans still centre stage in the mechanical engineering sector in 2019

The goal of creating smart factories fully automated, self-optimizing and intelligently controlled production facilities is thus coming increasingly within reach. Using AI, smart machines can make production operations faster, more efficient and more flexible. In 2019 and beyond, AI will take on an ever-greater role in production environments and act as an interface for communication between humans and machinery. The “Digitalization in mechanical engineering” study conducted by the Hans Bockler Foundation came to the same conclusion, pointing out that lean production methods are ideal for digitalizing internal processes.

-Bala Hari Nagendran (III Mech - A)

DESIGNING AT HOME By 2028,

Advances in computer aided design, materials, robotics, nanotechnology and biotechnology will democratize the process of designing and creating new devices. Engineers will be able to design solutions to local problems. Individual engineers will have more latitude to design and build their devices using indigenous materials and labor creating a renaissance for engineering entrepreneurs. The engineering workforce will change as more engineers work at home as part of larger decentralized engineering companies or as independent entrepreneurs.

Article 370 of the Indian constitution

The government of India revoked this special status in August 2019 through a Presidential Order and the passage of a resolution in Parliament. This article, along with Article 35A, defined that the Jammu and Kashmir state's residents live under a separate set of laws, including those related to citizenship, ownership of property, and fundamental rights, as compared to resident of other Indian states. As a result of this provision, Indian citizens from other states could not purchase land or property in Jammu & Kashmir. On 5 August 2019, President Ram Nath Kovind issued a constitutional order superseding the 1954 order, and making all the provisions of the Indian constitution applicable to Jammu and Kashmir

Kermal Akash (III Mech - A)

CLOSURE:

All the events conducted by the department during the even semester of the academic year **2018-19** 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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