

# **ERODE SENGUNTHAR**

**ENGINEERING COLLEGE** 





# **DEPARTMENT OF** MECHANICAL ENGINEERING

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AY-2020-2021

**VOLUME NO: 1** 

ISSUE NO: 1

# MECHANICAL ENGINEERING

#### 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 Centre 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 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.

### VISION AND MISSION STATEMENT OF THE DEPARTMENT

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.

- 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, consultancy and research.
- To instil core values and strong ethics, nurturing the intellectual, socio-cultural and economic development of our diverse community.



#### **DEPARTMENT INAUGURAL FUNCTION:**



THE DEPARTMENT OF MECHANICAL INAUGURATED THE MECHANICAL ENGINEERING ASSOCIATION AND ARRANGED A GUEST LECTURE ON "JOB OPPORTUNITIES FOR MECHANICAL ENGINEERS" ON 16.9.2020.

MR.P.MANIKANDAN, HEAD AND RESEARCH; DEVELOPMENT MACBRO ENGINEERING SOLUTIONS, ERODE.

CONVENOR

ASSOCIATION COORDINATOR

**PRESIDENT** 

VICE PRESIDENT

SECRETARY

**TREASURER** 

JOINT SECRETARY

JOINT TREASURER

EXECUTIVE MEMBERS

DR.M PANDIAN, HOD/MECH

MR. G.DHAYANITHI, AP MECH

MR.N.R.NAVANEETHAKRISHNAN, FINAL YEAR

MR. MR.R.PARANTHAMAN, THIRD YEAR.

MR. M. MABOOBASHA, FINAL YEAR

MR. K. VIJAY, FINAL YEAR.

MR, M. ABINESH, THIRD YEAR.

LMR.S.PRAGADESHWARAN, SECOND YEAR.

MR.M.ARUN KUMAR, FINAL YEAR.

MR. R. GURUNISHANTH , FINAL YEAR.

MR. P. GOPINATH, THIRD YEAR

MR. A.M.RAJASEKAR, FINAL YEAR

MR. S. RATHINAMOORTHI, FINAL YEAR.

MR. M. VASANTHAKUMAR, FINAL YEAR.

MR. G.PRANAV RAM, THIRD YEAR

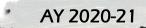
MR. S. PRAVEENKUMAR, THIRD YEAR

MR. J. AUGUSTIN THOMAS, THIRD YEAR

MR. S.MUTHUKUMAR, THIRD YEAR

MR. K.S.PRAVEEN, SECOND YEAR

MR. G.SIRANJEEVI, SECOND YEAR



# **MECHANICAL ENGINEERING**

#### **DEPARTMENT ACTIVITIES:**

#### **GUEST LECTURES:**



10.10121213 THE DEPARTMENT OF MECHANICAL ENGINEERING STUDENTS ASSOCIATION ARRANGED A GUEST LECTURE ON ADVANCED MANUFACTURING TECHNOLOGY" ON 12.10.2020. DR.SRINATH M.K, ASSOCIATE

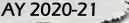
BENGALURU DELIVERED A GUEST LECTURE

THE DEPARTMENT OF MECHANICAL ENGINEERING STUDENTS ASSOCIATION ARRANGED A GUEST LECTURE ON "GEOMETRICAL DIMENSIONING AND TOLERANCING ON 16.12.2020. MR. SASITHARAN, TRAINER, TVS SERVICES & TRAINING PRIVATE LIMITED, CHENNAI DELIVERED A GUEST LECTURE.





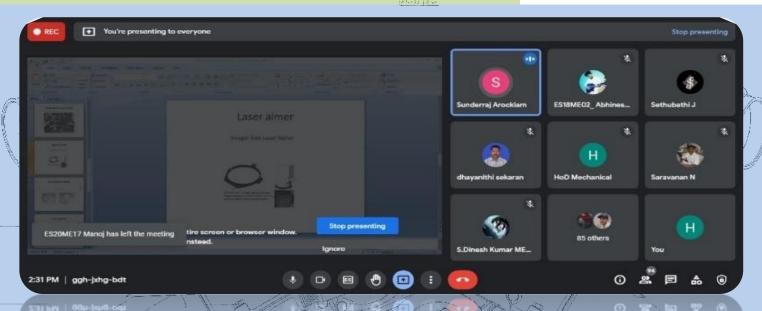
THE DEPARTMENT OF MECHANICAL ENGINEERING STUDENTS ASSOCIATION ARRANGED A GUEST LECTURE ON LEAN MANUFACTURING ON 23.12.2020. MR.MUTHUKRISHNAN, AGM/TRAINING, ROOTS INDUSTRIES PRIVATE LIMITED, COMBATORE DELIVERED A GUEST LECTURE.



# **MECHANICAL ENGINEERING**

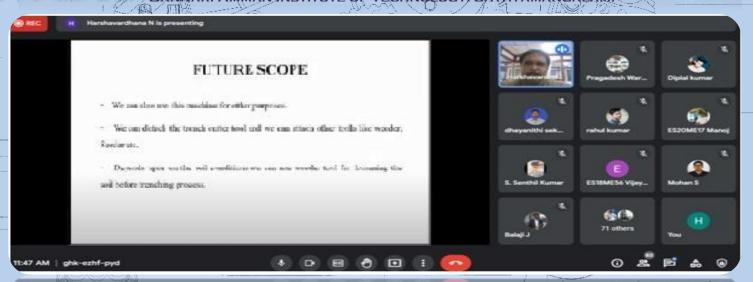
#### **DEPARTMENT ACTIVITIES:**

#### WORKSHOP & STTP ORGANIZED BY THE DEPARTMENT:



THE DEPARTMENT OF MECHANICAL ENGINEERING STUDENTS ASSOCIATION ARRANGED A WORKSHOP ON 3D PRINTING ON 10.11.2020. DR. A. ANANDHA MOORTHY, ASSOCIATE PROFESSOR / MECH.

BANNARI AMMAN INSTITUTE OF TECHNOLOGY SATHYAMANGALAM.



THE DEPARTMENT OF MECHANICAL ENGINEERING ARRANGED A STTP ON 3 D PRINTING TECHNOLOGY."A

9.12.2020 to 14.12.2020, 16.12.2020 to 21.12.2020, & 23.12.2020 to 29.12.2020.

1. DR. V. SIVARAM, PROFESSOR, EGS PILLAI ENGINEERING COLLEGE, NAGARPATTINAM.

2. DR. RAJESH RENGANATHAN PROFESSOR, CIT, COIMBATORE.

3. DR. ANANTHAKUMAR ASSOCIATE PROFESSOR, BANNARI AMMAN INSTITUTE OF TECHNOLOGY, SATHY,
4. DR. P. SATHYA, PROFESSOR AND HEAD, PRODUCTION ENGINEERING DEPARTMENT, NIT, TRICHY



#### **DEPARTMENT ACTIVITIES:**

#### **OTHER EVENTS ORGANIZED BY THE DEPARTMENT:**

N 1- 33 10 m

S.No.	DATE	NAME OF THE EVENT	RESOURCE PERSON
1 9	15.09.2020	Guest Lecture on "GATE preparation-	Dr.M.Pandian
		Shortcuts in Thermal Engineering"	Prof/Mech, ESEC
	T-1-10		Dr.G.Kathiresan,
2/12/1/5	13.10.2020	Guest lecture "GATE preparation-How to get full Marks in Engineering Metallurgy"	Prof/Mechanical,
			ESEC
		162 962 N	Dr.K.Siyakumar, Asso.ProfessorAnnamalai
		Guest Lecture on "Intelligent optimization	University,
3	20,11.2020	Techniques using MATLAB for Manufacturing Processes"	Annamalai Nagar,
			Dept of Production Engineering
			Dr.Y.Robinson,
	17.12,2020	Guest Lecture on "Importance of	Professor
4	W.12,2020	Intellectual Property Rights"	RVS Technical Campus,



# **MECHANICAL ENGINEERING**

## STUDENT ACTIVITIES:

S.No	NAME OF THE STUDENT	YEAR OF STUDY	TITLE OF THE EVENT	AWARDS	NAME OF THE ORGANIZATION	DATE
1	N.R.Navaneethakrishnan A.M.Rajasekar	IV	Technical Q <u>uiz</u> (Mech Trivia)	. I.Place	Sri Sairam Engineering College, Chennai.	28.10.2020
2	M.Elango R.Karthi V.Karthikeyan		Technical Quiz (Mech Trivia)		Sri Sairam Engineering College, Chennai	28.10.2020

	£21/				9/	- <i>∦</i> - 11 - 12 - 12 - 12 - 12 - 12 - 12 - 1	- ANIIII
S.No	Name of the Student	Year of Study	Title of the Event	Name of the Organization	Date .	Duration	Level of Programme
1	M.Abhinesh 8		Training Program on "Digital Manufacturing & Design"	University of Buffalo (online)	31.10,2020	1 day	National
2	R.S.Aravind S.Chandru————————————————————————————————————	5 1	Virtual Workshop on "Advanced Driver Assistance System (ADAS)"	Skyý Rider Institutions Odísha	21.08.2020	1 day	National
	M.Kannan K.Harish Babu						
3	M.Abhinesh E.Abishek G.S.Gokut Krishnan C.Gopinath		Virtual Workshop on "Advanced Driver Assistance	Skyy Rider Institutions Odisha	21.08.2020	day	National
	A'Ajay T.Paranthaman		System (ADAS)	Quisita			
4	S.Buvaneshwaran K.Deepak Kumar A.Dhivakar K.Ganeshram		Virtual Workshop	Skyy Rider Institutions	21.08.2020	1 day	National
	N.Manoj V.Manikandan B.Mohanraj		Driver Assistance System (ADAS)"	Odisha	2.00.200		National
150	M.Kannan K.Sukumar M.Tamilselvan R.Prasath Rao V.Sabari	II	Virtual Workshop On "Emission Control Technology on Heavy Commercial	Skyy Rider Institutions, Odisha	01.09.2020	1 day	National
	S.Santhosh		Vehicles"			15/2	

# **MECHANICAL ENGINEERING**

	S.No	NAME OF THE STUDENT	YEAR OF STUDY	TITLE OF THE EVENT	NAME OF THE ORGANIZATION	DATE	DURATION	LEVEL OF PROGRAMME	
	6	M.Abhinesh E.Abishek R.Vijaykumar A.Ajay M.Manoj P.Ragul Raja V.Karthikeyan		Virtual Workshop On "Emission Control Technology on Heavy Commercial Vehicles"	Skyy Rider Institutions, Odisha	01.09.2020		National	
	الرزيلا <u>-</u>	B.Mohanraj P.Naveen P.Periyasamy P.Pradip K.Sowmyan		Virtual Workshop On "Emission Control	Skyy Rider				
	7	R.Sudharsan S.Vignesh A.Veeramani Brabhu V.G.Dinesh D.Naveenkumar	IV P	Technology on Heavy Commercial Vehicles"	Institutions, Odisha	01.09.2020	1 day	National	
	8	K.Jeevagowtham B.Sriman K.Sakthivel K.S.Praveen M.Sanjay S.Pragadeshwaran		Virtual Workshop on "Regenerative Braking System In Electric Vehicle"	Skyy Rider Institutions, Odisha	09.09.2020	) day	National	
	9	M.Neshamani C.Prabhakaran M.Ribin M.Abhinesh M.C.Sanjay S.Paranjothi M.Logesh		Virtual Workshop on "Regenerative Braking System In Electric Vehicle"	Skyy Rider Institutions, Odisha	09.09.2020	1 day	National	
	10	P.G.Pranav Ram B.Prabhu K.Rajaguru B.Rajapandi M.Arunkumar M.Maboob Basha R.Suryaprakash	IV .	Virtual Workshop on "Regenerative Braking System In Electric Vehicle"	Skyy Rider Institutions, Odisha	09.09.2020	1 day	National	
1									S. C.

# **MECHANICAL ENGINEERING**

	S.No	NAME OF THE STUDENT	YEAR OF STUDY	TITLE OF THE EVENT	Name of the Organization	DATE	DURATION	LEVEL OF PROGRAMME	
		T.Jaikrishna E.Abishek D.Aakash			[814-33   8144				
	12	M.Abhinesh K.Sarayanan S.Muthukumar	111	Virtual Workshop on "CNC Programming (Milling Operation)"	Skyy Rider Institutions, Odisha	10 09.2020	1 day	National	
		B.Madhusudhana J.Shankar							
,	13	G.Gokul Nivash P.Gopinath D.Kavirajan	<b>IV</b>	Virtual Workshop on "CNC Programming	Skyy Rider	10.09.2020	1 day	National	
		C.Lakshmanan S.Rattinamoorthi	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	(Milling Operation)"  Intro To Digital					
	14	M.Sribalaji		Manufacturing With Autodesk Fusion 360	Autodesk	10.10.2020	1 day	National	
	15	K.Sukumar R.Ramkumar V.Vimalragayan		Virtual Workshop on "Design For Additive	Skyy Rider Institutions, Odisha	12:10.2020	1 day	National	
	· ·	B.Srimaan K.S.Praveen L.Sathish		Manufacturing With Nx"					
	16	S.Vinoth M.Abhinesh		Virtual Workshop on "Design For Additive	Skyy Rider	12,10,2020	1 day	National	
		S.Subash K.Baranidharan		Manufacturing With Nx	IIISIIIUIIIIS QUISIIA				F
		C.B.Sangameshwaran B.Rajapandi M.Arunkumar		Virtual Workshop on					 [8]
	17	S.Santhoshkumar I.Samuel Raj P.Anbu		Design For Additive Manufacturing With Nx*	Skyy Rider Institutions, Odisha	12.10.2020	1 day	National	Saig
		V.Elizabeth Rani N.Kaviya							
F	18	K.S.Praveen S.Ragunath M.Neshamani	II	Virtual Workshop on "Diesel Particulate Filter In BS-VI	Skyy Rider Institutions, Odisha	13.10.2020	1 day	National	*
7		S.Sheikfarith	$\mathcal{H}$	Technology"					

# **MECHANICAL ENGINEERING**

	S.No	NAME OF THE STUDENT	YEAR OF STUDY	TITLE OF THE EVENT	NAME OF THE ORGANIZATION	DATE	DURATION	LEVEL OF PROGRAMME	
	19	M.Abhinesh S.Vinoth K.Baranidharan P.M.Rohith		Virtual Workshop on "Diesel Particulate	Skyy Rider	13.10.2020	1 day	National	
(i		K.Melvin S.Parthiban R.Sudharsan		Filter In BS-VC Technology"	Institutions, Odisha		18		
II W	20	R.Veerathilagan S.Velmurugan M.Arunkumar N.R.Navaneetha	N/	Virtual Workshop on "Diesel Particulate	Skyy Rider	12 10 2020	1 day	Nederal	!
		Krishnan AThasaras C.Lakshmanan S.Abdul Rahman	IV SET	Filter in BS-VI Technology	Institutions, Odisha	13.10.2020	1 day	National	
		V.Sabari K.S.Praveen M.Kannan	R. S.	Virtual Workshop on	Skyy Rider				
	21	A.Praveen Vignesh B.Srimaan M.S.Sounderrajan G.Vijay		"EV Battery Recycting Technology"	Institutions, Odisha	14.10.2020	1 day	National	
	22	S.Muthukumar E.Abishek S.Parthiban M.Abhinesh		Virtual Workshop on "EV  T Battery Recycling  Technology"	Skyy Rider Institutions, Odisha	14.10.2020	1 day	National	
	23	LVignesh S.Vasantharajan A.Suresh M.Arunkumar	IV C	Virtual Workshop on "EV Battery Recycling Technology"	Skyy Rider Institutions, Odisha	14.10.2020	1 day	National	
	24	M.Ajith Prabhu M.Anburaj S.Balaji D.Kathiravan R.Prasath Rao		Virtual Workshop on "CNC Programming Using Master CAM"	Skyy Rider Institutions, Odisha	16.10.2020	1 day	National	River Control
F	25	R.Siva Bharathi M.Abhinesh R.Sudharsan S.Nandhakumar K.Manojkumar		Virtual Workshop on "CNC Programming	Skyy Rider Institutions, Odisha	16.10.2020	1 day	National	
Z		M.Elango R.Venkatramana J.Augustin Thomas		Using Master CAM'	i i ja adi				

## **MECHANICAL ENGINEERING**

#### STUDENT WORKSHOP/SEMINAR PARTICIPATION:

5	S.No	NAME OF THE STUDENT	YEAR OF STUDY	TITLE OF THE EVENT	NAME OF THE ORGANIZATION	DATE	DURATION	LEVEL OF PROGRAMME
	26	R.Abilesh S.Aswin J.Dhasharathi S.N.Kowshikraj A.M.Rajasekar B.Sakthivet M.Tamilselvan R.Tamilvanan K.Venkatachalamoorth i N.Kaviya V.Elizabeth Rani	IV	Virtual Workshop on CNC Programming Using Master CAM'	Skyy Rider Institutions, Odisha	16.10.2020	1 clay	National
	27	M.Anburaj E.Abishek Jashwa D.Kathiravan S.Devenderan N.Naveenkumar		Virtual Workshop on "Car Designing Process Sketch To Prototype"	Skyy Rider Institutions, Odisha	17.10.2020	1 day	National
	28	S.Akshaykumar M.Sridhar S.Harishkumar S.Vignesh M.Abhinesh		Virtual Workshop on "Car Designing Process. Sketch To Prototype"	Skyy Rider Institutions, Odisha	17.10.2020	1 day	National
	29	C.Anandhakumar L.Vignesh G.Mohanaaravind A.Yajithkumar P.Vijay	(V)	Virtual Workshop on "Car Designing Process Sketch To Prototype"	Skyy Rider Institutions, Odisha	17.10.2020 T	1 day	National

#### RENEWABLE ENERGY CLUB:

#### List of office bearers and staff coordinator for 2020-2021:

S. No	DESIGNATION	NAME	BRANCH
1	FACULTY	Mr. N.S.MOHAN	MECH
2	PRESIDENT	N.R. NAVEANEETHA KRISHNAN	MECH
3	SECRETARY	AM:RAJASEKAR	MECH
4	TREASURER	M.ABHINESH	MECH
5	JOINT TREASURER	C.GOPINATH	MECH

#### **Events organized During 2020-2021**

S. No DATE	NAME OF THE EVENT	NO OF STUDENTS PARTICIPATED
27-9-2021	THIRD GENERATION SOLAR CELL	273
2 06-7-2021	CAREER OPPURTUNITIES IN ENERGY SECTOR	273

#### **PAPER PRESENTATION BY STUDENT:**

-	S.No	NAME OF THE STUDENT	YEAR OF	TITLE OF THE EVENT	NAME OF THE COLLEGE	DATE	DURATION	LEVEL OF PROGRAMME	
į		R.Prasath Rao S.Santhosh Kumar		Paper Presentation	K Ramakrishna Engineering College, Trichy	19.3.2021	1 day	National	
	2	S.Pragadeshwaran M.Neshamani	II	Paper Presentation	K Ramakrishna Engineering College, Trichy	19.3.2021	1 day	National	
	3	G.Siranjeevi M.Ajith Prabu		Paper Presentation	K Ramakrishna Engineering College, Trichy	19.3.2021	1 day	National	
	 - 4 -	B.Dhanabal R.Gurunishanth V.Jaganath	IV	Paper Presentation	K Ramakrishna Engineering College, Trichy	19.3.2021	1 day	National	
	5	N.R.Navaneetha krishnan P.Pradhip	) IV	Paper Presentation	K Ramakrishna Engineering College, Trichy	19.3.2021	1 day	National	- 5-44
	6	C.Arul Selvam A.Bharanidharan		Paper Presentation	K Ramakrishna Engineering College, Trichy	19.3.2021	1 day	National	- (M)
F	7	M.Abhinesh M.Ribin		Paper Presentation	K Ramakrishna Engineering College, Trichy	19.3.2021	1 day	National	

# **MECHANICAL ENGINEERING**

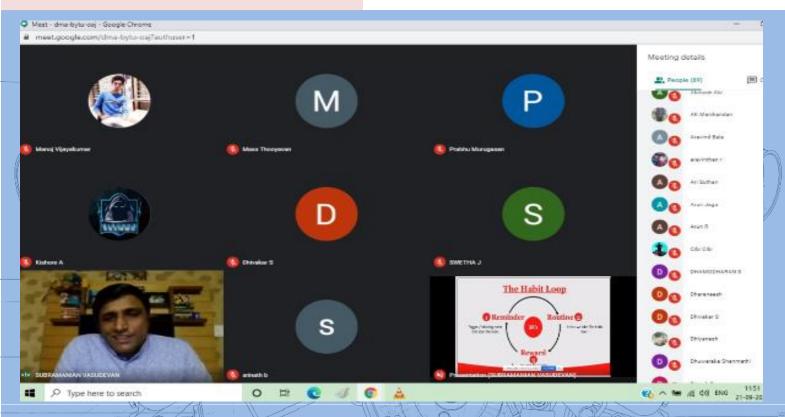
## **FACULTY PARTICIPATION:**

NAME OF THE FACULTY	Name of the Event	Name of the Institution Organized	DATE	DURATION
Dr.M.Pandian	One day Webinar on "Plagiarism"	SVCE, Bangaluru.	16.08.2020	1 day
Dr.G.Kathiresan	FDP on "Modeling and Computational Techniques for Multiphase Systems"	KSR College of Engineering, Thiruchengode	09.12.2020 to 14.12.2020	5 days
Di.Ordal in essay	Webinar on "Everyone can do Quality Research-Insight on Quality Research	Knowledge Institute of Technology, Salem	06.08.2020	1 day
Dr.R.Sasikumar	STTP on "Fixture Design- Online Mode"	Kriatec Services	29.09.2020 to 03.10.2020	5 days
Dr.G.Giridhar	Six days National Webinards Series on "A Vision Towards Materials and Manufacturing".	KPR Institute of Engineering and Technology,	20.07.2020 to 25.07.2020	5 days
	One day Webinar on "Technology-The Future of Recruitment"	Sri Eshwar College of Engineering, Chennai.	23.05.2020	1day
Dr.S.Navanethakrishnan	One day Webinar on "Future of Communication Engineering"	Sri Eshwar College of Engineering, Chennai	20.05.2020	1day
	One day Webinar on "Al & Machine Learning"	Sri Eshwar College of Engineering, Chennai.	14.05.2020	1day
Mr.R.Srinivasamoorthy	Webinar Series on "A Vision Towards Materials and Manufacturing"	KPR Institute of Engineering and Technology, Coimbatore	20.07.2020 to 25.07.2020	6 days
Dr.M.P.Prabhakaran	Webinar on "Solar Energy > Current Senario & Future Trends"	St. Joseph's Institute of Technology	17 06:2020	1 day
	Webinar on "Joining Tubes" Using Solid State Welding"	CIT, Coimbatore	03.06.2020	1 day
Mr.L.Moulidharan	Webinar on "Everyone can do Quality Research-Insight on Quality Research	Knowledge Institute of Technology, Salem	06.08.2020	1 day
	Training Program "Non Traditional Machining"	NITTIR Chennai	02.11.2020 to 06.11.2020	5 days
A.Balakumaran	FDP on "3D Printing & Design"	ATAL Academy	19.10.2020 to 23.10.2020	5 days
A CONTROL OF THE PROPERTY OF T	Training Program "Non Traditional Machining"	NITTIR, Chennai.	02.11.2020 to 06.11.2020	5 days
	FDP on "3D Printing & Design"	ATAL Academy	19.10.2020 to 23.10.2020	5 days

#### **FACULTY CORNER:**

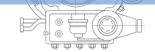


#### **ALUMNI FEEDBACK & INTERACTION:**



Mr. V. Subramanian, General Manager, Hindware Group, Hyderabad, a 1998 – 2002 batch Mechanical Engineering alumnus, has delivered a motivational talk to First year D-section students through Google Meet on 21.09.2020.

- Through Mr. S. Sugandh, a 2005 batch Mechanical Engineering alumnus of ESEC and President of ESEC Alumni Association, who is currently working as Senior Sales Manager, ESI Software India Pvt. Ltd., Chennai, positive talks have been initiated with Mr. Tamizh Iniyan, Founder, Frigate Engineering Services, Trichy, for signing an MoU with our college.
- 2005 batch Alumnus, Dr. A. Anandha Moorthy, Associate Professor, Department of Mechanical Engg., Bannari Amman Institute of Technology and 2009 batch Alumnus, Dr. M. Manikandan, Associate Professor, School of Mechanical Engg., VIT University, have acted as Resource persons on 16.12.2020 and 16.12.2020 for the AICTE-sponsored One-week Online STTP on '3D Printing Technology A Means for Modern Manufacturing' and delivered their presentations to the participants on the topics



#### **EDITORIAL BOARD**

