



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai /
Accredited by NAAC)

www.ssmiet.ac.in

NEWSLETTER (July to December 2019)

Department of Mechanical Engineering



About the Department

The Department of Mechanical Engineering was established in the year 2011 with an intake of 60 undergraduate students. Since then, the department has come a long way and is now regarded as one of the premiere departments of the institution with an intake of 120 undergraduate students and 18 post graduate students per year.

It is equipped with outstanding infrastructure and boasts of a unit of 17 learned and dedicated faculty members and sincere staff who work with zeal and enthusiasm to provide a vibrant and optimum learning environment to the students and help them acquire the skills which are required to excel in today's competitive environment.

The Department has three recognized research guides under Anna University, Chennai. At present six internal research candidates and five external research candidates are pursuing their PhD program under the Department of Mechanical Engineering. The department believes in serious academic pursuit and encourages radical and original thinking which paves the way for creativity and innovative ideas. The qualities inculcated into the students make them not only good engineers but good human beings also. The excellent placement record which has been consistently above 70 % for the past several years, alone of our students is ample testimony to the emphasis that has been placed on the industrial needs of our country.

EXECUTIVE COMMITTEE

CONVENORS : Dr.D.SENTHIL KUMARAN
Principal

Dr.G.SANKARANARAYANAN
Professor & Head.

EDITORIAL BOARD : Dr. R.SUBHAA, ASP | Dr. M.SABAREESWARAN, ASP | Mr. S.TAMILARASAN, AP

STUDENT MEMBERS : AJAY RATHINAM K, IV Mech | KARTHIKEYAN S, IV Mech | ADITHYAN B, III Mech
NAGA SARAVAN B, III Mech | AMIR FAIZAL M, II Mech | NITHIYA KUMAR NG, II Mech

Department of Mechanical Engineering
SSM Institute of Engineering & Technology, Sindalagundu Post, Dindigul- 624002. Tamilnadu | hodmechssmiet@gmail.com

VISION : Imparting a high-quality engineering education and research leading to well-qualified engineers with innovative entrepreneurial mindset along with social concerns and constant contribution to industry and economy.

MISSION : To train and mentor students to acquire expertise in engineering and compete effectively in the competitive environment.

AWARDS AND RECOGNITION



Green Metric Award
"367th World's Most Sustainable University"
by
UI Green Metric World University Rankings

- ◆ Anna University Recognized Research Center from 2017 onwards. Recognition renewed up to 2022
- ◆ Research Proposal Awarded (2019 – 2020)
 - Project of Dr. M. Muthukannan has been awarded Rs. 7500 through Tamilnadu State Council for Science and Technology under Student Project Scheme
- ◆ NPTEL Exam
 - Dr. R. Subhaa awarded Elite with Silver Medal for 4 weeks course from Aug to Sep 2019 'Product Design using Value Engineering'
 - Dr. V. Kandavel awarded Elite for 4 weeks course from Aug to Sep 2019 'Product design using Value Engineering'

ACADEMIC TOPPERS LIST (Nov/Dec 2019 Exam)

I Year I Semester

I PLACE
GPA : 8.2



ANUMADHUBALA R
Reg. No. : 922119114002

II PLACE
GPA : 7.8



LEO PRINCE L
Reg. No. : 922119114018

III PLACE
GPA : 7.52



JOEL PETER S
Reg. No. : 922119114012

II Year III Semester

I PLACE
GPA : 8.16



NAGENTHIRAN
Reg. No. : 922118114038

II PLACE
GPA : 7.72



BOSCO DENI R C
Reg. No. : 922118114008

III PLACE
GPA : 7.64



SUBASH R
Reg. No. : 922118114073

III Year V Semester

I PLACE
GPA : 8.091



VINOTH KUMAR R
Reg. No. : 922117114123

II PLACE
GPA : 8.045



NAGASARAVAN B
Reg. No. : 922117114067

III PLACE
GPA : 7.684



SANTHOSH KUMAR S
Reg. No. : 922117114098

IV Year VII Semester

I PLACE
GPA : 8.3



AJAY RATHINAM K
Reg. No. : 922116114002

II PLACE
GPA : 7.91



LOGESHWARAN C
Reg. No. : 922116114038

III PLACE
GPA : 7.82



KARTHIKEYAN
Reg. No. : 922116114033

FUNCTIONS / EVENTS



Students Provided with the Hands on training on "Placements through CREO" by Mr.Kumar, M/s. SKP Engineering, Chennai.

SEMINARS / WORKSHOPS / FDP ATTENDED BY FACULTY

S.No	Date	Event Details	Coordinator(s)	Expert Details
1	21.08.19	Awareness programme on Japanese Language and Technical Skills	Dr.G.Sankaranarayanan Dr.V.Kandavel	Mr.Ramkumar, M/s. Mindtree,Chennai.
2	28.08.19	Guest lecture on Refrigeration and Renewable Energy Sources	Prof.G.Vinothkumar Prof.S.Srinivasan	Dr.P.C.Murugan, Dr.P.Saji Raveendran, AP/ Mechanical, KonguEngg. College, Perundurai.
3	31.08.19	Workshop on TIG / MIG welding	Dr.K.A.Sundararaman	Mr.B.Ganesan, M.R.Silverline Solutions, Dindigul
4	31.08.19	Placements through CREO	Dr.M.Sabareeswaran	Mr.Kumar, M/s. SKP Engineering, Chennai.
5	13.09.19	Project Expo	Dr.R.Subhaa Dr.V.Kandavel Mr.G.Vinothkumar	Mr.V. Raghavan, Manager, Global Tech & Deployment center Ford Motors Pvt. Ltd., Chennai.
6	27.09.19	Association Inaugural and Engineers Day Celebration	Dr.G.Sankaranarayanan Mr C. Silambarasan	Mr.V. Raghavan, Manager, Global Tech & Deployment center Ford Motors Pvt. Ltd., Chennai.

PATENT PUBLICATIONS

S.No	Title of the invention	Name of the Inventor/s	Patent Details	Date of publication
1	Method of devising process parameters in Wire cut Electrical Discharge Machining	Dr. G. Sankaranarayanan	Journal no. 49/2019 dated 6-12-2019	06-12-2019
2	Anti-Piracy Screen	B.Aravindh Dr. G. Sankaranarayanan C. Silambarasan	Journal no. 42/2019 dated 18-10-2019	18-10-2019

JOURNAL PUBLICATIONS

S.No	Title of the Paper	Name of the author(s)	Name of the Journal	Year of Publication
1	Analysis of Springback and Bend Power of Galvanized Iron Sheet in V-Die Bending Phase	Saravanakumar S Srinivasan S Muthukannan M Sankar Kannan P	Studia Rosenthaliana (Journal for the Study of Research)	2019
2	Simultaneous Scheduling of Assembly and Production Shops Using GA based Heuristic'	Saravanakumar S Muthukannan M Srinivasan S Sankar Kannan P	International Journal of Psychosocial Rehabilitation	2019
3	Design and Performance Analysis of Shell and Tube Heat Exchanger by Varying the Fluid Medium Using CFD	Srinivasan S Prakash S Rajasekaran S Rajkumar A Prakash B	Journal of Emerging Technologies and Innovative Research (JETIR)	2019
4	Online Oil Condition Monitoring of Four-Stroke Engine	Srinivasan S Manikandan G	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2019
5	Optimization of Tool Life for Closed Type Forging Tool	Srinivasan S Manikandan G Seenivasaperumal V	Journal of Emerging Technologies and Innovative Research (JETIR)	2019





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ACADEMIC TOPPERS LIST (Apr/May 2020 Exam)

I Year II Semester

I PLACE
GPA : 9.64



ANUMADHUBALA R
Reg. No. : 922119114002

II PLACE
GPA : 8.96



LEO PRINCE L
Reg. No. : 922119114018

III PLACE
GPA : 8.88



JAGADHEESH N
Reg. No. : 922119114011

II Year IV Semester

I PLACE
GPA : 9.833



NAGENTHIRAN N
Reg. No. : 922118114038

II PLACE
GPA : 9.583



BOSCO DENI R C
Reg. No. : 922118114008

III PLACE
GPA : 9.167



MALATHI T
Reg. No. : 922118114027

III Year VI Semester

I PLACE
GPA : 9.875



NAGA SARAVAN B
Reg. No. : 922117114067

II PLACE
GPA : 9.875



MANIKANDAN P
Reg. No. : 922117114054

III PLACE
GPA : 9.5



PANDIYA RAJ B
Reg. No. : 922117114078

IV Year VIII Semester

I PLACE
GPA : 9.4



AJAY RATHINAM K
Reg. No. : 922116114002

II PLACE
GPA : 9



SANKARANARAYANAN A
Reg. No. : 922116114068

III PLACE
GPA : 9



KARTHICKEYAN A P
Reg. No. : 922116114032

JOURNAL PUBLICATIONS

- Saravanakumar, Ganesh Moorthy, Muthukannan, Deepan chakaravarthy, Ramkumar, sundhar "Experimental Investigation and Characterization of bio oil from pyrolysis of Electronic Wastes" Studia Rosenthaliana (Journal for the Study of Research) – WoS, April 2020.
- P. Ganesan, S. Paul Singarayar, S. Joseph Dominic Vijayakumar, S.Sridhar, D.Madan "Machining and abrasive wear performance of tantalum carbide based stellite metal matrix composite" AIP conference proceedings, January 2020.
- A.Anbarasu, K. Vetrivelkumar, R. Silambarasan, S. Joseph Dominic Vijayakumar, S.Paul Singarayar "Effect of catalyst coated piston and antioxidant additive on decrease in Pollutants in diesel engine using neat biodiesels (B100)" Wutan Huatan Jisuan Jishu. Volume XVI, Issue VI, pp. 284-294, January 2020.

SEMINARS / WORKSHOPS / FDP ATTENDED BY FACULTY

- Mr.S.Srinivasan attended National Level Seminar "Current Trends in Nuclear Material Research and Technology" on 09-10 Jan 2020 organized by Kongu Engineering college, Coimbatore.
- Dr. R. Subhaa attended the workshop "Outcome Based Education and NBA Accreditation" on 18 - 19 February 2020 organized by Mepco College of Engineering, Sivakasi.
- Dr. M. Muthukannan attended the workshop "Virtual Teaching" on 20-21 April 2020 organized by Coimbatore Institute of technology, Coimbatore.
- Mr. I. Vimal Kannan attended the workshop "Virtual Teaching" on 20-21 April 2020 organized by Coimbatore Institute of technology, Coimbatore.
- Mr.S.Srinivasan attended the workshop "Virtual Teaching" on 20-21 April 2020 organized by Coimbatore Institute of technology, Coimbatore.
- Mr.S.Srinivasan attended the One-week FDP "Arduino" on 29-04-2020 to 03-05-2020 organized by Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering and Technology, Andhra Pradesh.
- Mr.S.Srinivasan attended the workshop "Machine Learning" on 01st May 2020 organized by S.A. Engineering College, Chennai.
- Mr.S.Srinivasan attended the workshop "Data Science & Its Applications in Automotive Industry" on 04th May 2020 organized by Sri RAAK College of Engineering and Technology.
- Mr. C. Vinothkumar attended the Two-week FDP "Advancements in Mechanical, Production and Civil Engineering" on 13-26 May 2020 organized by Sai Ram Engineering College, Chennai.
- Mr.S.Srinivasan attended the Webinar "Entitled Research Publication: Skills, Ethics and Misconducts" on 15th May 2020 organized by Kumaraguru college of Technology, Coimbatore .
- Mr.S.Srinivasan attended the workshop "Hydraulic systems" on 16th May 2020 organized by Karpaga Vinayaka Engineering College, Coimbatore .
- Mr.S.Srinivasan attended the workshop on "Methods and Tools for Qualitative Research Writing" on 16th May 2020 organized by Karpagam College of Engineering, Coimbatore .
- Mr.S.Srinivasan attended the workshop "Expanding Scope of Robotics" on 21st May 2020 organized by Sri Eshwar College of Engineering, Coimbatore .
- Dr. M. Muthukannan attended the workshop "Two Day Hands - on Training on Technology Assisted Teaching Tools" on 23-29 May 2020 organized by Coimbatore Institute of technology.
- Mr.S.Srinivasan attended the Webinar "CFD Simulation of Thermal Management of Batteries and power converters" on 28th May 2020 organized by Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering college, Chennai .

- Mr.S.Srinivasan attended the workshop “Revised Accreditation Framework of NAAC: An awareness webinar for faculty members of Higher Education Institutions” on 30th May 2020 organized by PSNA College of Engineering and Technology, Dindigul.
- Dr.R.Subhaa attended the Webinar “3D Printing Technology and its functional Application” on 11-12 June 2020 organized by Autodesk Authorized Academic Partner CADD Technologies, Coimbatore.
- Mr.S.Srinivasan attended the One-week FDP “Heat Transfer and Computational Fluid Dynamics Towards Industrial Applications” on 12-18 June 2020 organized by Sri Sairam Institute of Technology, Chennai .
- Dr.M.Muthukanan attended the webinar “The Bodhi Tree and SAFE Tools for Effective Online Teaching : A Hands-On Workshop” on 21st June 2020 organized by IIT Bombay.
- Dr.R.Subhaa attended the workshop “Emerging Technology Trends in 4th Industrial Revolution” on 22-26 June 2020 organized by Chennai Institute of Technology, Chennai.
- Mr.M.Prabhakaran attended the One-week FDP “Advancements in Manufacturing and Optimization Techniques” on 22-26 June 2020 organized by Jayamukhi Institute of Technological Sciences, Telangana .

PATENT PUBLISHED

1. Dr. G. Sankaranarayanan “Motorised screw jack” Application Number: 202041011152 A, Filed on :16/03/2020 and Published: 24/04/2020
2. Mr.I.Vimalkannan, “CRASHWORTHINESS OF THIN-WALLED ENERGY ABSORBER IN TRANSPORT SYSTEMS” Application No.202041011153 A, Filed on :16/03/2020 and Published: 24/04/2020
3. Dr.S.Joseph Dominic Vijayakumar “IDUC – Door device: Intelligent device for unlocking car door” Application Number: .201941054689 A, Filed on 31/12/2019 and Published: 10/01/2020.

SHORT-TERM WORKSHOP / SEMINAR / WEBINAR / FDP ORGANIZED

1. “Awareness Program on Nx Unigraphics” was held in our department on 22.01.2020, By Mr. Ilayaraja, CADD Academy Coimbatore.
2. Workshop on “Factories of the future” by Mr.V. Raghavan, Mr. J. Siva Ramakrishnan, Mr. Aravindh Kumar Chaturvedy, Ford Motors Pvt. Ltd., Chennai. Mr. SyamaSundara Rao Tallapudi, CY4 Digital Twin India, Chennai organized by the Dep. of Mechanical Engg., SSMIET, Dindigul on 3rd January 2020.

INDUSTRY-ACADEMIA COLLABORATION

1. A MoU is signed between SSMIET and Tirupathi E Power Motors., Dindigul District on 09th January 2020. Purpose: Project collaboration, Internship, Industrial visit and Training.
2. A MoU is signed between SSMIET and Central Institute of Plastics Engineering and Technology., Thiruvathavur, Madurai District on 11th February 2020. Purpose: Project collaboration, Internship, Industrial visit and Training.

