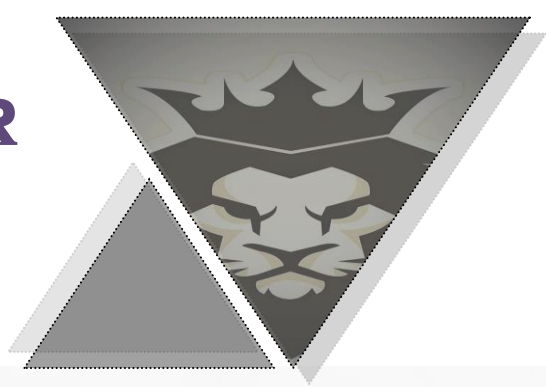




ERODE SENGUNTHAR

ENGINEERING COLLEGE

(AUTONOMOUS)



NEWSLETTER

DEPARTMENT OF MECHANICAL ENGINEERING

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EDITORIAL BOARD

AY-2019-2020

VOLUME NO: 2

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ISSUE NO: 2

DEPARTMENT OF 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 OF MECHANICAL ENGINEERING

DEPARTMENT ACTIVITIES:



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

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



GUEST LECTURE & STUDENT INTERACTION WITH INDUSTRY:



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

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



DEPARTMENT OF MECHANICAL ENGINEERING

FACULTY ACHIEVEMENTS:



- Dr.M.Pandian, Professor and Head & Mr.R.Srinivasamoorthy, Associate Professor, Mechanical Engineering have received fund of Rs.2,95,697 from AICTE under STTP Scheme on "3D Printing Technology-A means for Modern Manufacturing".
- Dr.M.Pandian, Professor and Head, Mechanical Engineering have received fund of Rs.60,000 from EDII-Ahmedabad under DST Nimat Scheme to organize "Entrepreneurship awareness Camp".
- Dr.M.Pandian, Professor of Mechanical Engineering, received an Appreciation Certificate for being served as Reviewer for the International Conference organized by Gurunanak Institute of Technology, Hyderabad.



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

STUDENT ACHIEVEMENTS:



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

DEPARTMENT OF MECHANICAL ENGINEERING

FACULTY PUBLICATION DETAILS:

- Dr.M.P.Prabakaran Published a paper on "Characterization of AA6061-ZrO₂ -C friction stir welded composite joints" in the Journal of Ceramic Processing Research" 2020 Vol.:21 Issue :6
- Dr.M.P.Prabakaran Published a paper on "Effects of Welding Speed on Microstructure and Mechanical Properties of CO₂ Laser Welded Dissimilar Butt Joints between Low Carbon Steel and Austenitic Stainless Steel " Advances in Materials & Processing Technologies (Taylor & Francis) 2020 Vol.:5 Issue :4
- Dr.M.P.Prabakaran Published a paper on Investigation on "Mechanical Properties of ZrO₂, C and AA6061 Metal Matrix Composites " in International Journal of Advances in Materials & Processing Technologies 2020 Vol.:5 Issue :3
- Dr.M.P.Prabakaran Published a paper on " Effect of Activating Flux in Tungsten Inert Gas Welding Process – A Review " IOP Conference Series: Material Science and Engineering :2020.988.
- Dr.M.P.Prabakaran Published a paper on " Investigation of Brake Disc Using Metal Matrix Composites " IOP Conference Series: Material Science and Engineering -2020.988.
- Dr.M.P.Prabakaran Published a paper on " Evaluation of Mechanical and Metallurgical Properties of Submerged Arc Welded Plate Joint." In Materials Today journal: Proceedings, 2020.
- Dr.M.P.Prabakaran Published a paper on " Metallurgical and Mechanical Properties of SiC/ B₄C Reinforced with Aluminum Composites Synthesized By Mechanical Alloying" Materials Today: Proceedings-2020.
- Dr.M.P.Prabakaran Published a paper on " Fatigue Life and Fatigue Crack Growth Rate Analysis of High Strength Low Alloy Steel (42CrMo4)." Materials Today: Proceedings-2020.
- Dr.M.P.Prabakaran Published a paper on " Optimization of Nd: YAG Pulsed Laser Welding Process Parameters on Dissimilar Metal Joints" Wutan Huatan Jisuan Jishu-2020 Vol 16.issue-6.
- Dr.M.P.Prabakaran Published a paper on " Study on the Feasibility in Welding of Low Carbon Steel and Austenitic Stainless Steel Joint Using CO₂ Laser Welding Process and Analysis of its Metallurgical and Mechanical Properties" Wutan Huatan Jisuan Jishu 2020 Vol.:5 Issue :3

DEPARTMENT OF MECHANICAL ENGINEERING

FACULTY PUBLICATION

- D.Hariharashayee, M.P. Prabakaran, C. Chelladurai, S. Manikandan, N.S. Mohan, M. Pradeepa "Experimental Investigation of Raw and Alkali Treated Areca Leaf Stalk and Sisal Fibres Reinforced Hybrid Polymer Composites" Wutan Huatan Jisuan Jishu 2020 Vol.:16 Issue :6
- S.Navaneethasanthakumar, N.Godwin Raja Ebenezer, M.P.Prabakaran, K.Vinod Kumar "Lab-view Based Optimal Design Of A Helical Compression Spring And Analysis Using Ansys" High Technology Letters- 2020 Vol.:26 Issue :7
- S.Navaneethakrishnan and P.Chokkalingam Published an article titled "Enhancement of Mechanical Properties of PFC by Chemically Modified Areca Fine Fibers Tierärztliche Praxis - Vol 41, 2021.
- C.Chelladurai, N.S.Mohan, S.Manikandan, D.Hariharashayee, Published an article titled "Analysing the casting defects in small scale casting industry", Materials today Dol No:10.1016/j.matpr.2020.05.382.

FACULTY SEMINAR / WEBINAR PARTICIPATION

Name of the Faculty	Name of the Event	Name of the Institution Organized	Date	Duration
Dr.M.Pandian	EDP on "CFD Simulation of Thermal Management of Batteries and Power Converters"	Vel Tech High Tech Engineering College	28.05.2020	1 day
	One day Webinar on "Introduction to Design for Experiments"	Arasu Engineering College, Tanjore.	27.05.2020	1 day
	One day Webinar on "Design the Thinking"	Sri Eshwar College of Engineering, Chennai.	22.05.2020	1 day
	Virtual Webinar on "Expectations on Quality – Future Perspective"	Nandha College of Technology, Perundurai.	16.05.2020	1 day
	One day Webinar on "Energy Auditing & Career Opportunities"	Sri Eshwar College of Engineering, Chennai.	12.05.2020	1day
	One day Webinar on "How the Teachers Should be Ready to Handle Posts Pandemic Challenges"	Chennai Institute of Technology, Chennai	12.05.2020	1day
	One day Webinar on "Opportunities for Start Ups in Current Situation"	Chennai Institute of Technology, Chennai	08.05.2020	1day
	One day Webinar on "Opportunities for Research with DRDO"	Indra Ganesan College of Engineering, Trichy.	06.05.2020	1day

DEPARTMENT OF
MECHANICAL ENGINEERING

FACULTY SEMINAR / WEBINAR PARTICIPATION

Name of the Faculty	Name of the Event	Name of the Institution Organized	Date	Duration
Dr.M.Pandian, Professor/Mech	FDP on "CFD Simulation of Thermal Management of Batteries and Power Converters"	Vet Tech High Tech Engineering College	28.05.2020	1 day
	One day Webinar on "Introduction to Design for Experiments"	Arasu Engineering College, Tanjore.	27.05.2020	1 day
	One day Webinar on "Design the Thinking"	Sri Eshwar College of Engineering, Chennai.	22.05.2020	1 day
	Virtual Webinar on "Expectations on Quality - Future Perspective"	Nandha College of Technology, Perundurai.	16.05.2020	1 day
	One day Webinar on "Energy Auditing & Career Opportunities"	Sri Eshwar College of Engineering, Chennai.	12.05.2020	1day
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	One day Webinar on "Opportunities for Start Ups in Current Situation"	Chennai Institute of Technology, Chennai	08.05.2020	1day
	One day Webinar on "Opportunities for Research with DRDO"	Indra Ganesan College of Engineering, Trichy.	06.05.2020	1day
	One day Webinar on "Winning the competitive World"	SNS College of Technology, Coimbatore.	04.05.2020	1 day
N.S.Mohan, AP/Mech	One day Webinar on "Research Opportunities in the Field of Technology"	Dr. Daulatrao Aher College of Engineering, Karda.	28.05.2020	1 day
	FDP on "CFD Simulation of Thermal Management of Batteries and Power Converters"	Vet Tech High Tech Engineering College	28.05.2020	1 day
	Webinar on "New Product Development, CNC Simulator, Robot and IoT"	SNS College of Technology, Coimbatore.	27.05.2020	1 day
	FDP on "Novel Materials and it's Industrial Applications"	Karpagam College of Engineering, Coimbatore.	13.05.2020 to 18.05.2020	6 days
	One day Webinar on "Energy Auditing & Career Opportunities"	Sri Eshwar College of Engineering, Chennai.	12.05.2020	1day
	Webinar on "Fourth Industrial Revolution & The Paradigm Shift In Manufacturing.	KIT-Kalaighnarkarananidhi Institute of Technology, Coimbatore.	08.05.2020	1 day

DEPARTMENT OF MECHANICAL ENGINEERING

STUDENT PARTICIPATION

SEMINAR CONFERENCE PRESENTATION:

- J.Dhasharathi attended webinar on 21st Annual Conference On Quality Management organized by AU TVS center for Quality Management- Anna University, Chennai on 04.03.2020.
- R.S.Aravind & Arunkumar S R Attended workshop on "Recent Trends in Electric Vehicle" Conducted by M Kumarasamy College of Engineering, Karur on 03.03.2020.

PAPER PRESENTATION:

- B.Dhanabal & S.Vignesh III Year A Presented a paper on "Magnetic levitation" organized by Excel Engineering college on 14.09.19
- K.Ulaganathan & S.Vignesh III Year C Presented a paper on "Recent Trends in Automobile-Hybrid Electric Vehicle" organized by Excel Engineering college on 14.09.19.
- N.R.Navaneetha Krishnan & P.Pradhip III Year B Presented a paper on "Natural Fibre Reinforced Polymer Matrix Composite" organized by TamilNadu College of Engineering on 20.09.2019.
- B.Mohanraj & A.M.Rajasekar III Year B Presented a paper on "Underwater Windmill" organized by Nandha College of Technology on 24.09.19.
- P.Pradhip & N.R.Navaneetha Krishnan III Year B Presented a paper on "Natural Fibre Reinforced Polymer Matrix Composite" organized by Nandha College of Technology on 24.09.19.
- K.Ulaganathan S.Vignesh & Venkatachalamoorthi III Year C Presented a paper on "Natural Fibre Reinforced Polymer Matrix Composite" organized by Nandha College of Technology on 24.09.19.

INDUSTRIAL & INPLANT TRAINING:

- K.R.Baranidharan, S.Sarathkumar M.Naveen & M.Sethupathy of final year Mechanical Engineering attended In plant training at JK Tyres, Chennai from 20.05.2019 to 23.05.2019.
- M.Karthikeyan, V.Shanmugavel, B.Surya & K.Vasanth of final year Mechanical Engineering attended In plant training at Neyveli Lignite Corporation of India, Neyveli from 20.05.2019 to 25.05.2019.
- N.R.Navaneethakrishnan, A.M.Rajasekar, S.Rattinamoorthi, B.Prabhu & M.Sangameshwaran from III Year Mechanical Engineering attended In plant training at GVG Paper Mills Private Limited, Udumalpet from 23.05.2019 to 03.06.2019.
- V.Malarmannan, G.Kumaraguru of final year Mechanical Engineering attended In plant training at Titan Jewelry Division, Hosur from 31.05.2019 to 14.06.2019.

DEPARTMENT OF MECHANICAL ENGINEERING

STUDENT INDUSTRIAL VISIT & INTERNSHIP:



Industrial Visit & Attachment Programme on “Manufacturing Technology- Stamping, Injection Moulding and Die Casting” on 26.08.2019.



24 Students from final year Mechanical Engineering attended Industrial Training on PLC systems @ Advanced Training Institute, Chennai from 19.07.2019 to 23.09.2019.

DEPARTMENT OF MECHANICAL ENGINEERING

ALUMNI INTERACTION WITH STUDENTS:




Mr. S. Umesh, Mechanical Alumnus, Evaluation Engineer, OLA Cars Private Ltd, Bangalore, has interacted with the final year Mechanical Engineering students during Leader's talk on "Job Opportunities in Design Industries" on 08.10.2019.

Mr. R. Manoj, Mechanical Alumnus, Team Head, Amazon Development Centre, Chennai, has interacted with the Third year Mechanical Engineering students during Leader's talk on "How to become an entrepreneur" on 18.09.2019.




ALUMNI FEEDBACK:



ERODE SENGUNTHAR ENGINEERING COLLEGE AUTONOMOUS


PERUNDURAI, ERODE - 638 057



ALUMNUS OF THE WEEK

Department of Mechanical Engineering

March 1st Week, 2020



Dr. M. MANIKANDAN

Profile


- 2009 Batch Mechanical Engineering Alumnus
- Working as an Associate Professor in Vellore Institute of Technology (VIT), Vellore
- Rs. 35 Lakh worth Funded Projects
- 58 International Journal Publications
- Guided 5 Ph.D. candidates

Feedback

Dear ESEC-ians,

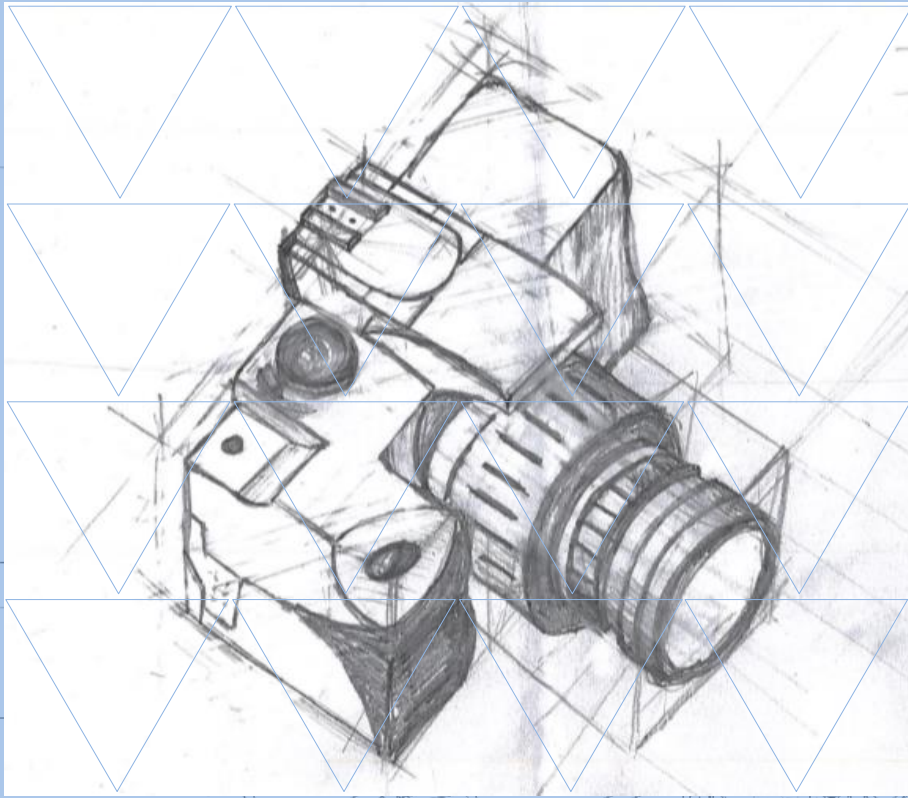
I am happy to note that now ESEC is an Autonomous institution under Anna University, Chennai. I am very much happy to see the tremendous growth of our college. Our college provides me a good platform for my carrier. Today I am applying the technology to the need of the nation and development of our country. During my college days, I have been involved in lot of administrative responsibilities like Treasurer of the Mechanical Engineering Association as well as President of LEO Club. It improved my Decision-Making skill today in many activities.

Wishing you all the best..!



DEPARTMENT OF
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STUDENT CORNER:

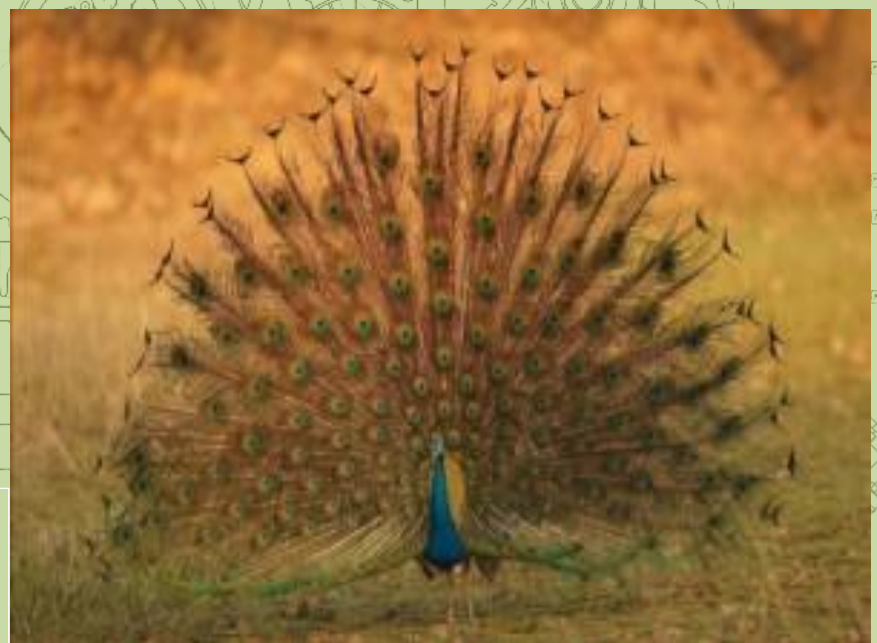


ART WORK BY
SELVAN.T.K.ASHWINTHANGAVELU



STUDENT ART AND PHOTOGRAPHY

WILDLIFE PHOTOGRAPHY
BY
SELVAN.G.KUMARAGURU



DEPARTMENT OF
MECHANICAL ENGINEERING

FACULTY CORNER



PHOTOGRAPHY

BY

Mr.S.Karthikeyan, AP/Mech

PHOTOGRAPHY

BY

N.S.Mohan, AP/Mech



STUDENT PLACEMENTS



*Selvan.T.K.ashwinthangavelu
with CTC 3.5 Lakhs*



*Selvan. Nanthakumar.A
Sriganesh R &
Mayilkannan V
with CTC 3.1 Lakhs*



*Selvan. Kumaraguru G
with CTC 2.30 Lakhs*



*Selvan. Bharanikumaar P
Vignesh R
with CTC 2.20 Lakhs*



*Selvan. Bhuvaneshwaran R, Karthikeyan
M, Surya B & Srinivasan V
with CTC 2.20 Lakhs*

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