



B.S. Abdur Rahman

**Crescent**

Institute of Science & Technology

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# Mechanical Department News

Issue -3, 2022



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# MESSAGE FROM SCHOOL DEAN



The Technology Readiness Level (TRL) of a Higher Education institution is an important factor to bridge the gap between the Industry and Institution. Focusing the engineering teaching-learning process on the basis of TRL will enhance the most desirable benefits of higher education such as admission and placement. The department of mechanical engineering is well connected with various industries and offers programs for the employees of industries apart from consultancy and collaborative research with them.

I am sure that this version of the newsletter will certainly help the department showcase its knowledge, talents, and achievements among the stakeholders. I take this opportunity to wish the students and staff all the very best and grand success in this initiative.





# MESSAGE FROM DEPARTMENT HEAD



I am pleased to bring out the "Newsletter" of the Department of Mechanical Engineering.

The department has conducted various workshops, symposiums, and Webinars. Many of our faculty members publish their research in National and International Journals & Conferences. Some of our faculty members have received grants from various funding agencies and got the opportunity to work as resource persons for several webinars.

Mechanical Engineering students regularly attend conferences, webinars, and value-added courses. Students have written articles about their extra-curricular activities in the student's corner of the newsletter. This newsletter will help us to showcase the various achievements of the department.

I congratulate the editorial team for their sincere effort to bring out the newsletter in time.



# ABOUT THE DEPARTMENT

- The department of Mechanical Engineering started in 1984, right from the inception of the institute, is one of the oldest departments of this Institution. 34 batches of U.G. students have passed out, with many university ranks and gold medals.
- The department offers Bachelors in Mechanical Engineering, Masters in CAD/CAM, MS/Ph. D. by Research and minor degree programs. The programmes of the Department were accredited by the National Board of Accreditation (NBA).
- The department has 36 faculty members with 20 doctorates, well-equipped laboratories and major software's to ensure quality teaching-learning process.
- Modern multimedia teaching technologies are used to supplement lectures and enhance the quality of teaching. Modern practices like Project/Activity-based learning, is followed to enhance self-learning capabilities of students.
- A high degree of professionalism is inducted to the students through the student's chapters of professional associations such as SAE, ISHRAE, ASME, and SME. These bodies organize seminars and competitions for students on topics of current importance and global relevance to industry.
- The department organizes programmes to provide the students with industrial and practical experience through training and project work in industries to meet the industrial requirements and face real life situations effectively and boldly. In addition, guest lectures and panel discussions are arranged by inviting eminent persons from reputed organizations.



# DEPARTMENT NEWS



# NEW LABS:

## Dassault Systems Center of Excellence





## Ph.D. Awarded:

Scholar: Mr. J. Mahashar Ali

Supervisor: Dr. H. Siddhi Jailani

Month & Year: January 2021

Title of Thesis : Surface Roughness evaluation of machined surface using image processing



Scholar: Mr. C.K Arvinda Pandian

Supervisor: Dr. H. Siddhi Jailani

Month & Year: January 2021

Title of Thesis : Development and Investigation of Properties of Jute Linen Epoxy Composite Laminates



Scholar: Mr. K. Sathickbasha

Supervisor: Dr. A.S. Selvakumar

Month & Year: July 2021

Title of Thesis : Effect of Metal Fibers and Metal Sulfides Towards Tribological Performance in NA Brake Pads



Scholar: Mr. M. Abdur Rahman

Supervisor: Dr. R. Karunanithi

Month & Year: August 2021

Title of Thesis : Effect of Aging and Ceramic Reinforcement on the Hardness and Wear Behavior of A1 7150 Alloy Composite by Powder Metallurgy



Scholar: Mr. Md Javeed Ahmed

Supervisor: Dr. M. A. Saibalaji

Month & Year: August 2021

Title of Thesis : Characterization of Natural Fibers and their Influence on Physical Mechanical and Tribological Properties in Non Asbestos Organic Phenolic Friction Composites



Scholar: Ms. Annagowsalya

Supervisor: Dr. P.D. Jeyakumar

Month & Year: September 2021

Title of Thesis : Experimental investigation and validation of interfacial heat transfer coefficient during solidification of casting process using inverse method



Scholar: Mr. Prashanth

Supervisor: Dr. R. Karunanithi

Month & Year: November 2021

Title of Thesis : Development of hybrid nano - AL<sub>2</sub>O<sub>3</sub>/Y<sub>2</sub>O<sub>3</sub> dispersed AA 7017 by mechanical alloying followed by hot pressing process





# Programs organized:

## Inauguration of Mechanical Societies for Academic year 2021-22

The inauguration of professional societies SME, SAE, ASME, ISHRAE for the academic year 2021-22 was conducted on 29th September 2021. Mr. E. Nandakumar, Engineering Head, Caterpillar Inc. inaugurated the society activities and deliver Keynote address. Dr. A. Azad, Registrar, delivered the presidential address. Dr. M.S. Haji Sheik Mohammed, Dean Academic affairs and Dr. S. Rasool Mohideen, Dean School of Mechanical Sciences offered felicitation. Dr. H. Siddhi Jailani, Head of the department of Mechanical Engineering, Faculty coordinators & office bearers of the technical societies, Department faculty, staffs and students attended the function.



## 3 days workshop on “Industry 4.0 – Industrial Design, Visualisation & Conceptualisation”:

The Industry 4.0 – Industrial Design Visualisation & Conceptualisation” workshop was organized by Department of Mechanical Engineering along with MSME (Govt of India) and Equad Engg services Pvt Ltd. The workshop was inaugurated by Dr.S.Rasool Mohideen, Dean SMS . The introduction was delivered by Mrs. Vaishnavi Vignesh Raja,. Director – Equad Engineering Services, VP – Operations & Strategy – SECO Controls Pvt. Ltd. Around 37 students from Mechanical department participated in the workshop.

Convenor: Dr.S.Rasool Mohideen, Dean, School of Mechanical Sciences, BSACIST.

Coordinator: Dr.S.Ravikumar, Asst Professor, Department of Mechanical Engineering,



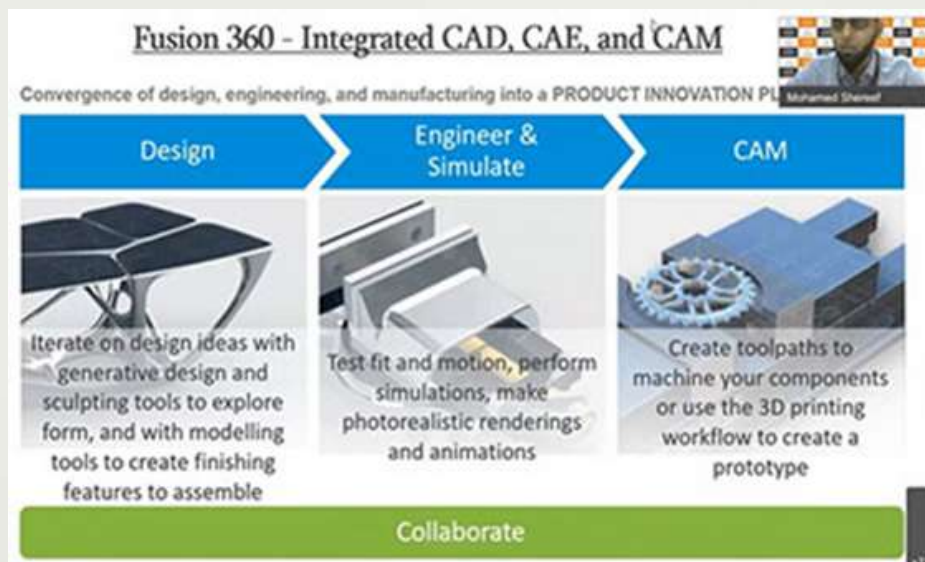
## Workshop on “Design now workshop using Autodesk Fusion 360” on 27th October 2021

The online workshop on “Design now workshop using Autodesk Fusion 360” was organized by ICT ACADEMY and Department of Mechanical Engineering, BSAR Crescent Institute of Science and Technology. The presentation was delivered by Mr. Mohammed Shereef, Deputy Manager – Design Team, Training & Research and Mr. Murugavel.V, Relationship Manager, ICT academy, Chennai.

Around 70 students from Mechanical, department, and faculty members participated in the workshop.

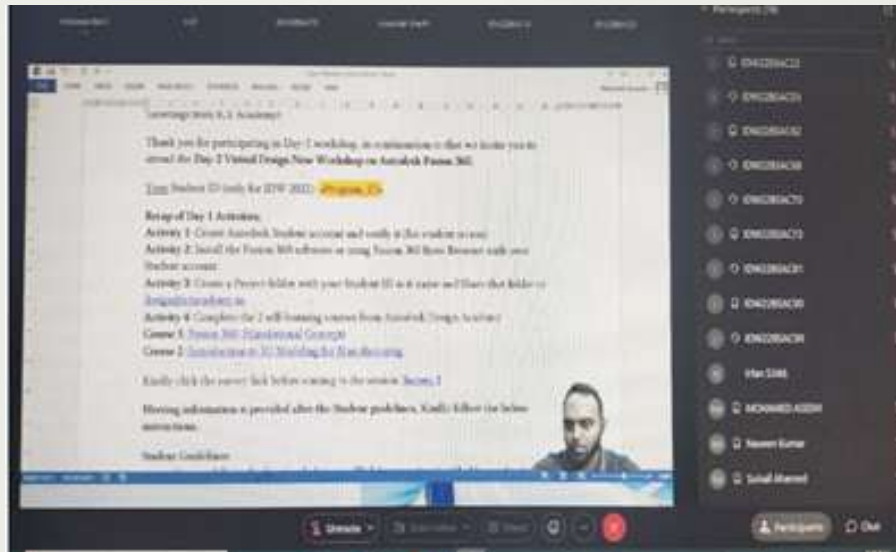
Convenor: Dr. H. Siddhi Jailani, Associate Professor and Head, Department of Mechanical Engineering, BSACIST.

Coordinator: Mr. John Mathew, Placement coordinator, IIPC, Dr. K. Mohamed Bak, Asst Professor, Department of Mechanical Engineering, School of Mechanical Sciences, BSACIST.



## Second Online Workshop on “Design now workshop using Autodesk Fusion 360” on 4th December 2021

The second online workshop on “Design now workshop using Autodesk Fusion 360” was organized by ICT ACADEMY and the Department of Mechanical Engineering, BSAR Crescent Institute of Science and Technology. The presentation was delivered by Mr. Mohammed Shereef, Deputy Manager – Design Team, Training & Research, ICT Academy, Chennai. Around 22 students from the Mechanical Engineering department and faculty members participated in the workshop.



## Webinar on “Introduction to Industrial Design (Industry 4.0) – Visualisation and Conceptualisation” on 8th September 2021.

The online webinar on “An introductory webinar on Industry 4.0 – Industrial Design Visualisation & Conceptualisation” was organized by Department of Mechanical Engineering. The presentation was delivered by Mrs. Vaishnavi Vignesh Raja., Director – Equad Engineering Services, VP – Operations & Strategy – SECO Controls Pvt. Ltd. Around 200 students from Mechanical, department, and faculty members participated in the webinar.

Convenor: Dr.S.Rasool Mohideen, Dean, School of Mechanical Sciences, BSACIST  
Coordinator: Dr.S.Ravikumar, Asst Professor, Department of Mechanical Engineering,





## **Webinar on “Modelling and Analysis of Blocked Coronary Artery How far are we from Mechanical Engineering?”**

Date: 23.07.2021

No. of Participants: 53

Nature of participants: Final Year students and Faculty members of the Department of Mechanical Engineering.

Coordinator: Dr.Serajul Haque, Asst Professor, Department of Mechanical Engineering, School of Mechanical Sciences, BSA Crescent Institute of Science & Technology

Speaker: Dr. Mohammad Talha, Associate Professor, Department of Mechanical Engineering, IIT – Mandi, Himachal Pradesh.

## **Webinar on “Lean Six Sigma for Industries”**

Date 15.07.2021

No. of Participants: 39

Nature of participants: Students & Faculty members

Coordinators: Dr.S.Ravikumar, Asst Professor, Department of Mechanical Engineering, BSACIST

## **Webinar on “Role of Mechanical Engineers in ISRO”**

Date 02.06.2021

No. of Participants: 60

Nature of participants: Pre-final and Final Year students from School of Mechanical Sciences.

Coordinators: Dr. M. Thirumurugan, Asso. Prof., Dr. B. Surya Rajan. Asst. Prof., Department of Mechanical Engineering, BSACIST

## **Webinar on “Leadership and CEO Training”**

Date 05.05.2021

No. of Participants: 95

Nature of participants: Students & Faculty members

Coordinators: Dr.S.Ravikumar, Asst Professor, Department of Mechanical Engineering, BSACIST





# FACULTY NEWS





# Funded Projects:

## Ongoing:

Principal Investigator: Dr. R. Karunanithi

Funding Agency: DST-SERB, Delhi

Amount:

Project: Synthesis and Characterization of ZrO<sub>2</sub> Dispersed Ti, Ti-6Al-4V, Ti-6Al-5V, Ti-6Al-7Nb composite.



## Received:

Principal Investigator: Dr.B.Surya Rajan

Funding Agency: TARE-2021

Amount: 18,30,000/-

Project: Rgo coated steel fiber with enhanced thermal conductivity and wear resistance for copper free brake pads.



## Applied:

Principal Investigator: Dr. S. Rasool Mohideen

Co. Principal Investigator: Dr. M. Thirumurugan

Funding Agency: Indo Asean Project

Project: Metal Additions of Polylactic Acid (PLA) Composite Filament for 3D Bio Medical Devices.

Principal Investigator: Dr.B. Surya Rajan

Co. Principal Investigator: Dr. K. Sathickbasha

Funding Agency: DST-RSF Join call Proposal

Project: Development of Sustainable Bio-Compatible Hydroxyapatite/Alumina coating on Additive manufactured and Laser irradiated CoCrMo Alloy.

Principal Investigator: Dr.H. Siddhi Jailani

Co. Principal Investigator: Dr. Mahashar Ali

Funding Agency: AICTE

Project: Non-contact surface roughness measurement of machined surfaces using the wavelet metrics of laser speckle images.

Principal Investigator: Dr. V. Muralidharan

Co. Principal Investigator: Dr. M. Thirumurugan

Funding Agency: AICTE

Project: A machine learning approach for Investigation of pipe flow parameters using vibration signals by non-contact method



## **Consultancy Projects:**

- A project titled Flow analysis and Improvements of 2" Extrusion Die using Ansys Poly Flow was completed for Polyhose India Pvt Ltd by Mr. N. Ravikumar.

## **Faculty Awards:**

- Dr. J. Mahashar Ali received B.S. Abdur Rahman Faculty Award on 6th September 2021 under "Excellent Teacher" category in recognition for outstanding performance during the year 2019-2020 .
- Dr. A. Muthu Manokar received B.S. Abdur Rahman Faculty Award on 6th September 2021 under "Best Young Faculty (Male)" category in recognition for outstanding performance during the year 2019-2020 .
- Dr. A.Muthu Manokar have ranked as one of the "Top 2% researchers in the world" during 2020 based on citations and h-index published by Elsevier BV, Stanford University.  
<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3>
- Dr. A.Muthu Manokar Received "Best Young Scientist Award (Below 40 years)" in recognition for outstanding performance by the "Global Education and Corporate Leadership (GECL-2021) Awards, 4th International Annual Awards summit" at Tula's Institute, Dhoolkot, Near Selaqui, Dhulkot Rd, Dehradun, Uttarakhand, India. on 18th December 2021, <https://geclawards.com/>

## **Guest Lectures:**

- Dr. V. Muralidharan delivered a lecture in the online AICTE ATAL FDP on Machine Learning Applications in Mechanical Engineering organised by Acropolis Institute of Technology and Research.
- Dr. M. Thirumurugan delivered a lecture in the online FDP on Fabrication, Characterization and Strengthening Mechanism of composites organised by AMET University

# List of Journal Publications:

- S Ramalingam, S R Mohideen (2021) "Composite materials for advanced flexible link robotic manipulators: an investigation", International Journal of Ambient Energy, Vol. 42, pp.1670 – 1675
- Mohamed Fahad S, Mahashar Ali J and Siddhi Jailani H (2021) "Characterization of surface roughness of ground specimens using image processing", Advances in Design and Thermal Systems, pp.133-141
- S Ramalingam S R Mohideen, S Manigandan, T P Prem Anand (2021) "Hybrid polymer composite material for robotic manipulator subject to single link flexibility", International Journal of Ambient Energy, Vol.42, pp.514-521
- Z F Syed, T R Tamilarasan, S R Mohideen, M S Dennison (2021) "Impact Strength Characterization of Closed-cell Aluminium foam (AL003860) subjected to Cryogenic treatments", Design Engineering Vol.11, pp.244 – 263
- SZ Fathima, TR Tamilarasan, SR Mohideen, MS Dennison, J Venkatesan (2021) "The Effect of Novel Cryogenic Treatment in the Microstructure Analysis of Al 6101 Closed-Cell Foam", Advances in Design and Thermal Systems, pp.19-37
- Syed Shaul Hameed, V Muralidharan, Bernadetta Kwintiana Ane(2021) "Comparative analysis of fuzzy classifier and ANN with histogram features for defect detection and classification in planetary gearbox", Applied Soft Computing Vol.106, pp.107306
- Syed Shaul Hameed, V Muralidharan, D Pradeepkumar, S Ravikumar(2021) "Fault Classification using Fuzzy Logic in an Epicyclic Gearbox with Statistical Features", SAE Technical Paper, Vol.2021-28- 0220.
- MD Mohiuddin, SR Mohideen (2021) "Toughness Property Evaluation of Additive Welded Low Carbon Steel Weldments", Advances in Design and Thermal Systems. pp.434-439
- Sivakumar C, Muralidharan V, Ravikumar Natarajan, D Murali Manohar, Syed Anwar S(2021) "Numerical Analysis on Mechanical Behavior of Viscoelastic Nano Composite", SAE Technical Paper Vol.2021-28-0220
- Ravikumar Natarajan, Rizwan Asif S, Sivakumar C, D Murali Manohar(2021) "Experimental Modal Analysis Study on Graphene Filled SBR", SAE Technical Paper Vol.2021-28-0220pp.
- Sathickbasha K., Selvakumar A.S., Surya Rajan Balachandran, Hariharasakthisudhan P. (2021) "Multi-metal sulfide pre-blend combination on the tribological performance of the brake friction material", Industrial Lubrication and Tribology Vol.73pp.

# List of Journal Publications:

- Hariharasakthisudhan P, Logesh Kamaraj, Surya Rajan B, Sathickbasha K (2021) "Evaluation of mechanical properties of novel GLARE laminates filled with nanoclay", Polymer Composites Vol.42pp.4015-4028
- KJ Nagarajan, NR Ramanujam, MR Sanjay, Suchart Siengchin, B Surya Rajan, K Sathick Basha, P Madhu, GR Raghav (2021) "A comprehensive review on cellulose nanocrystals and cellulose nanofibers: Pretreatment, preparation, and characterization", Polymer Composites Vol.42pp.15881630
- K. Bak1 Mohamed, L. T. Augustin Lijo, R. Ramya, Priya Sri Lakshmi, R. Harini, N. Ramasamy (2021) "Structural and Thermal Analysis of Composite Wind Turbine Blade for Wind Mill Applications", Advances in Design and Thermal Systems Vol.pp.pp 1-17
- Karthik, R. Karunanithi, A.S. Selvakumar and A. Srinivasan (2021) "The Impact of Squeeze Casting in AMMC- Review", Advances in Design and Thermal System, Lecture Notes in Mechanical Engineering, Springer Vol.pp.253-259
- M. Arul Murugan and A.S. Selvakumar (2021) "Effect of Barium Sulfate on Mechanical, DMA, Wear Analysis of Woven Hybrid with Wire Mesh Composite", Advances in Design and Thermal System, Lecture Notes in Mechanical Engineering, Springer Vol.pp.529-539
- Varun Kumar A, A.S. Selvakumar, K. Balachandar, A. Waseem Ahmed and A. Yashar Arabath (2021) "Correlation between material properties and free vibration characteristics of TIG and laser welded Stainless steel 304 reinforced with Al<sub>2</sub>O<sub>3</sub> Microparticles", Engineering Science and Technology Vol.24pp.1253-1261
- Shaik Abrar Ahmed, M Fakouri Hasanabadi, Varun Kumar A (2021) "Joining of Ceramic to Metal by Friction Welding Process: A Review", Journal of Materials: Design and Applications Vol.235pp.1723-1736
- Ravikumar N, Tamilarasan TR, Rajendran R (2021) "Effect of graphene on friction and wear behavior of friction composite tested against grey cast iron disc alloyed with copper", Carbon Trends Vol.3pp.100031
- Jamesha Ibrahim K, Thirumurugan M, Jeyakumar P D, Arockia Julias A, Mohamed Fahad S (2021) "Drilling performances of kenaf fibre/steel mesh reinforced hybrid epoxy composites", Advances in Design & Thermal Systems, Lecture Notes in Mechanical Engineering. Springer, Vol.pp.291-300



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- Prahbu K, Jeyakumar P D, Dineshkumar C, Vasanthan B, Arockia Julias A, Thirumurugan M(2021) "Development of onboard engine management system - Prediction of oil degradation",Advances in Design & Thermal Systems, Lecture Notes in Mechanical Engineering. Springer Vol.pp.349-35
- Arockia Julias A, Jeyakumar Ponniah Daniel, D Murali Manohar, Thirumurugan Muthiah, and Sathish Kumar R(2021) "Flexural Behavior of Hybrid Layered Composites Suitable for Automotive Structural Applications",SAE Technical Paper Vol.2021-28-0220pp.
- Arockia Julias A, Abdul Kareem, Ganesh Raman A, Jeyakumar Ponniah Daniel, and Prabu Krishnasamy(2021) "Mechanical Studies on Polycaprolactone Based Green Composite",SAE Technical Paper Vol.2021-28-0220pp.
- R. Sathish Kumar, M. Mohanraj, P. Natarajan, A. Arockia Julias & Sathyamurthy Ravishankar(2021) "Experimental Study on the Drilling Parameter Analysis of Banana Fiber Reinforced Vajram Mixed Phenolic Resin Composite Laminates",Journal of Natural Fibers Vol.pp.
- G. Rajesh & R. Raju(2021) "A Fuzzy Inference Approach To Supplier Segmentation For Strategic Development",South African Journal of Industrial Engineering Vol.32pp.44-55
- Gurukarthik Babu, Prince Winston,Gokul,Mohamed Nasrulla, Vignesh, Ram kumar, A. Muthu Manokar , Ravishankar Sathyamurthy(2021) "Investigation of performance enhancement of solar still incorporated with Gallus gallus domesticus cascara as sensible heat storage material",Environmental Science and Pollution Research, ISSN:1614-7499, Springer Vol.28pp.611-624
- Asif Afzal\*, A.D. Mohammed Samee, R.D. Jilte, Md. Tariqul Islam, A. Muthu Manokar, Kaladgi Abdul Razak(2021) "Battery thermal management: An optimization study of parallelized conjugate numerical analysis using Cuckoo search and Artificial bee colony algorithm",International Journal of Heat and Mass Transfer, ISSN: 0017-9310, Elsevier Vol.166pp.Article ID: 120798

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- Chandrika; M. Mohamed Thalib; A Karthick\*; Ravishankar; A, Muthu Manokar, S. Umashankar; B, Stalin(2021) "Performance assessment of free standing and building integrated grid connected photovoltaic system for southern part of India", Building Services Engineering Research and Technology, ISSN:1477-0849, SAGE Publishing Vol.42pp.237-248
- A. Rajendra Prasad, Ravishankar Sathyamurthy, M. Sudhakar, B. Madhu, D. Mageshbabu, A. Muthu Manokar, Ali J Chamkha(2021) "Effect of design parameters on fresh water produced from triangular basin and conventional basin solar still", International Journal of Photoenergy, 1687-529X, Hindawi, Vol.2021pp.Article ID: 6619138
- Abderrahmane Khechekhouche, A. Muthu Manokar\*, Ravishankar Sathyamurthy , Fadl A Essa, Milad Sadeghzadeh\*, Alibek Issakhov (2021) "Energy, Exergy Analysis, and Optimizations of Collector Cover Thickness of a Solar Still in El Oued Climate, Algeria", International Journal of Photoenergy, 1687-529X, Hindawi, Vol.2021pp.Article ID 6668325
- Vigneshkumar Ramalingam, Alagar Karthick, Manoj V. J. Praveen, arul marcel moshi, Ravishankar Sathyamurthy, A. Muthu Manokar(2021) "Enhancing the fresh water produced from inclined cover stepped absorber solar still using wick and energy storage materials", Environmental Science and Pollution Research, ISSN:1614-7499, Springer Vol.28pp.18146–18162
- Mohammed El Hadi Attia\*, Zied Driss, Abd Elnaby Kabeel, Karthick Alagar, A. Muthu Manokar\*, Ravishankar(2021) "Phosphate bags as energy storage materials for enhancement of solar still performance", Environmental Science and Pollution Research, ISSN:1614-7499, Springer Vol.28pp.21540–2155207
- Ravindra jilte\*, Asif Afzal\*, Md. Tariqul Islam, A. Muthu Manokar(2021) "Hybrid cooling of cylindrical battery with liquid channels in phase change material", International Journal of Energy Research, ISSN:1099-114X, John Wiley & Sons Vol.45pp.11065-11083
- Amrit Kumar Thakur, Ravishankar Sathyamurthy, Swellam W. Sharshir, Abd elnaby Kabeel, Elkadeem Zhenjun Ma, A. Muthu Manokar, Müslüm Arıcı, A.K.Pandey, R.Saidur, (2021) "Performance analysis of a modified solar still using reduced graphene oxide coated absorber plate with activated carbon pellet", Sustainable Energy Technologies and Assessments ISSN: 2213-1388, Elsevier Vol.45pp.Article number: 101046
- Mohammed El Hadi Attia, A. Muthu Manokar, Abd Elnaby Kabeel, Zied Driss, Ravishankar Sathyamurthy, Wael Al-Kouz\*(2021) "Comparative study of a conventional solar still with different basin materials using exergy analysis", Desalination and water treatment, ISSN:1944-3986, Desalination Publications Vol.224pp.55-64

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- Asif Afzal\*, Md. Tariqul Islam, Abdul Razak Kaladgi, A. Muthu Manokar, Olusegun David Samuel, MA Mujtaba, ManzooreElahi M Soudagar, H.Fayaz, Hafiz Muhammad Ali(2021 ) "Experimental investigation on the thermal performance of inserted helical tube three-fluid heat exchanger using graphene/water nanofluid",Journal of Thermal Analysis and Calorimetry,ISSN:1588-2926, Springer Vol.28pp.22296–22309
- Muthu Manokar, A Karthick (2021) "Review on progress in concrete solar water collectors",Environmental Science and Pollution Research Vol.28pp.22296–22309
- Chandrika, Mohammed El Hadi Attia, A. Muthu Manokar, Fausto Pedro Garcia Marquez, Zied Driss and Ravishankar Sathyamurthy(2021) "Performance enhancements of conventional solar still using reflective aluminium foil sheet and reflective glass mirrors: energy and exergy analysis",Environmental Science and Pollution Research, ISSN:1614-7499, Springer Vol.28pp.32508–32516
- GurukarthikBabu Balachandran\*, Prince Winston David, Vignesh Radhakrishnan, Mohamed Nasrulla Akbar Ali, Vishnu Karan Baskaran, Dhanasekaran Virumandi, Muthu Manokar Athikesavan, Ravishankar Sathyamurthy(2021) "Investigation on the performance enhancement of single-slope solar still using green fibre insulation derived from Artocarpus heterophyllus rags reinforced with Azadirachta indica gum",Environmental Science and Pollution Research, ISSN:1614-7499, Springer Vol.28pp.32879–32890
- Rajendra Prasad Arani, Ravishankar\*, Ali Chamkha, Abd elnaby Kabeel, Mageshbabu D, Kasi Kamalakannan, Madhu B, A. Muthu Manokar, F.A. Essa, Saravanan Arumugam (2021) "Effect of fins and silicon dioxide nanoparticle black paint on the absorber plate for augmenting yield from tubular solar still",Environmental Science and Pollution Research, ISSN:1614-7499, Springer Vol.28pp.35102–35112
- Hemanth Kumar A, Hariprasath V, A.E Kabeel,Ali Chamkha, A. Muthu Manokar, Ravishankar Sathyamurthy, Kamalakannan Kasi(2021) "Recent advancements, technologies, and developments in inclined solar still—a comprehensive review",Environmental Science and Pollution Research, ISSN:1614-7499, Springer Vol.28pp.35346–35375
- Mohammed El Hadi Attia\*, Abd Elnaby Kabeel, Abdelkader Bellila, A. Muthu Manokar, Ravishankar Sathyamurthy, Zied Driss, S. Muthusamy(2021) "A comparative energy and exergy efficiency study of hemispherical and single-slope solar stills",Environmental Science and Pollution Research, ISSN:1614-7499, Springer Vol.28pp.35649–35659
- Amrit Kumar Thakur; Ravishankar S, Swellam W. Sharshir, Abd Elnaby Kabeel, Muthu Manokar A, Wensheng Zhao(2021) "An experimental investigation of a water desalination unit using different microparticle-coated absorber plate: yield, thermal, economic, and environmental assessments",Environmental Science and Pollution Research, ISSN:1614-7499, Springer Vol.28pp.37371–37386



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- Abdul Razak Kaladgi, Asif Afzal, A. Muthu Manokar, Deepak Thakur, Umit Agbulut, Saad Alshahrani, Ahamed Saleel, Ram Subbiah (2021) "Integrated Taguchi-GRA-RSM optimization and ANN modelling of thermal performance of Zinc oxide nanofluids in an automobile Radiator", Case Studies in Thermal Engineering, ISSN: 2214-157X, Elsevier Vol.26pp. Article number: 101068
- Sivakumar Vaithilingam\*, Sakthivel Thirumalai Gopal, Senthil Kumar Srinivasan, A. Muthu Manokar, Ravishankar, Ganapathy Sundaram Esakkimuthu, Mohsen Sharifpur\*\*, Ravinder Kumar (2021) "An Extensive Review on Thermodynamic Aspect Based Solar Desalination Techniques", Journal of Thermal Analysis and Calorimetry, ISSN: 1588-2926, Springer Vol.145pp. 1103–1119
- Mohamed Thalib, M. Vimala, A. Muthu Manokar\*, Ravishankar Sathyamurthy, Milad Sadeghzadeh, Mohsen Sharifpur\*\* (2021) "Energy Exergy and Economic investigation of passive and active inclined solar still: Experimental Study", Journal of Thermal Analysis and Calorimetry, ISSN: 1588-2926, Springer Vol.145, pp.1091–1102
- Mohammed El Hadi Attia\*, A. Karthick, A. Muthu Manokar, Zied Driss, Abd Elnaby Kabeel, Ravishankar Sathyamurthy, Mohsen Sharifpur\*\* (2021) "Sustainable potable water production from conventional solar still during winter season at Algerian dry areas", Journal of Thermal Analysis and Calorimetry, ISSN: 1588-2926, Springer Vol.145pp. 1215–1225
- Mohammed El Hadi Attia\*, Zied Driss, Abd Elnaby Kabeel, Mohamed Abdelgaied, A. Muthu Manokar, Ravishankar and Ahmed Kadhim Hussein (2021) "Performance Evaluation of Modified Solar Still using Aluminum Foil Sheet as Absorber Cover- a Comparative Study", Journal of Testing and Evaluation, ISSN: 0090-3973, American Society for Testing and Materials Vol.49pp. JTE20200249
- Belkheir Benoudina\*, Mohammed El Hadi Attia\*, Zied Driss, Asif Afzal, A. Muthu Manokar, Ravishankar (2021) "Enhancing the Solar still output Using Micro/Nano-Particles of Aluminum Oxide at Different Concentrations: An experimental study, energy, exergy and economic analysis", Sustainable Materials and Technologies, ISSN: 2214-9937, Elsevier Vol.29pp. e00291
- Arani Rajendra Prasad, Mohammed El Hadi Attia, Wael Al-Kouz, Asif Afzal, A. Muthu Manokar, Ravishankar Sathyamurthy (2021) "Energy and exergy efficiency analysis of solar still incorporated with copper plate and phosphate pellets as energy storage material", Environmental Science and Pollution Research, ISSN: 1614-7499, Springer Vol.28pp. 48637
- Tikendra ermNath Va, Upendra Rajak\*, Abhishek Dasore, Asif Afzal\*, A. Muthu Manokar, Abdul Aabid, Muneer Baig (2021) "Experimental and empirical investigation of a CI engine fuelled with blends of diesel and roselle biodiesel", Scientific Reports, ISSN 2045-2322 Vol.11pp. Article number: 18865

# List of Journal Publications:

- Gurukarthik Babu \*, Prince Winston, Anandha Balaji, A. Muthu Manokar, Padmanaban, Krishna Kumar, Vinothkumar , Abd Elnaby Kabeel, Ravishankar Sathyamurthy, Fausto Pedro Garcia Marquez (2021) "A relative study on energy and exergy analysis between conventional single slope and novel stepped absorbable plate solar stills",Environmental Science and Pollution Research, ISSN:1614-7499, Springer Vol.28pp.57602–5761805
- Hassane Boushaba, Hajar Hafs, Mohamed Asbik\*, Abdelghani Koukouch , Abderraouf Sabri, A. Muthu Manokar(2021) "Investigating the effect of sensible and latent heat storage materials on the performance of a single basin solar still during winter days",Journal of Energy Storage, ISSN: 2352-152X, Elsevier Vol.44pp.Article number: 103480,
- Prabu K, G Rajamurugan, M Thirumurugan(2021) "Performance of fiber metal laminate composites embedded with Al and Cu wire mesh",Journal of Industrial Textiles Vol.51pp.540-558
- Basanta Kumar Behera, Thirumurugan M(2021) "The Addition of Polytetrafluoroethylene and Graphite on Acrylonitrilebutadiene styrene and its effects on Mechanical and Tribological Characteristics",Advances in Design and Thermal Systems Vol.pp.221-234
- Sri Nithya Mahottamanada, Vanchhit Kumar Dubey, Afreen Abdul Khaleel, Dinesh S, Ashiq wahab, Kadiresh P.N , Thirumurugan M(2021) "Mechanical Characteristics of Ethylene Vinyl Acetate Mixed Beeswax Fuel for Hybrid Rockets",Advances in Design and Thermal Systems Vol.pp.389-400
- Vanchhit Kumar Dubey, Afreen Abdul Khaleel, Sri Nithya Mahottamananda, P.N. Kadiresh, Thirumurugan M(2021) "Mechanical Characteristics of Paraffin Wax, Beeswax and HTPB as Rocket Propellant – A Comparative Study",Advances in Design and Thermal Systems Vol.pp.243-252
- K. Radhakrishnan, V. Muralidharan (2021) " The Effect of Quenching Mediums on Heat Treatment Properties of Multi-pass Welding of 0.3%C-Cr-Mo-V Steel",Advances in Design and Thermal Systems pp.463-474
- K. Radhakrishnan, V. Muralidharan (2021) "A Study on the Welding and Heat Treatment of 0.3%C-Cr-Mo-V Steel",Advances in Design and Thermal Systems pp.463-474
- Basanta Kumar Behera, M. Thirumurugan(2021) "A study on visco-elastic, thermal and mechanical characteristics of injection molded ABS/graphite composite",Materials Today: Proceedings Vol.pp.
- Sivakumar V, Vimala M, A Muthu Manokar, Asif Afsal, Ravishankar S(2021) "Energy and exergy analysis of conventional acrylic solar still with and without copper fins",Environmental Science and Pollution Research.

# List of Journal Publications:

- A Karthik, SA Srinivasan, R Karunanithi, SP Kumaresh Babu, Vikram Kumar S Jain(2021) "Influence of CeO<sub>2</sub> reinforcement on microstructure, mechanical and wearbehaviour of AA2219 squeeze cast composites", Journal of materials research and technology Vol.14pp.797-807
- A Karthik, R Karunanithi, SA Srinivasan, SP Kumaresh Babu, R Narayanan(2021) "Beneficial effect of CeO<sub>2</sub> on the corrosion behaviour of AA2219 squeezecast composites–An experimental investigation",Materials Letters Vol.297pp.129937
- K. Prabu, P. D. Jeyakumar, C. Dineshkumar, B. Vasanthan, A. Arockia Julius, and M. Thirumurugan(2021) "Development of Onboard Engine Management System– Prediction of Oil Degradation",Advances in Design and Thermal Systems Vol.pp.349-360
- Mohammed Thalib Mohamed Rafeek, M. Vimala, A Muthu Manokar, Ravishankar S, A E Kabeel(2021) "Experimental investigation of an active inclined solar panel Absorber solar still - energy and exergy analysis",Environmental Science and Pollution Research Vol.29pp.1404-1418
- A E Kabeel, Paul Durai Leon Dharmadurai, Sathiyaseelan V,Ravishankar S, Bharathwaj R, A MuthuManokar, Ali Chandrika(2021) "Experimental Studies on natural convection open and closed solar drying using external reflector",Environmental Science and Pollution Research Vol.29pp.1391 - 1400
- Baskar, M.A. Sai Balaji, N. Nithyanandan, A. Krishnamoorthy(2021) "Connecting business centres and establishing central nodal centres considering distance, population and real GDP as weights using the Weiszfeld algorithm and concept of minimum cost spanning tree - an analysis",International Journal of Services and Operations Management Vol.39pp.121-149
- J Susai Mary, MA Sai Balaji, A Arockia Selvakumar, D Dinakaran(2021) "ADAPTIVE CONTROL OF TOOL WEAR BY GREY WOLF OPTIMIZATION AND NEURAL CONTROLLER IN DRILLING",International Journal of Robotics and Automation Vol.36pp.
- P.Baskara Sethupathi J.Chandradass, M.A.Saibalaji(2021) "Comparative study of disc brake pads sold in Indian market – Impact on safety and environmental aspects",Environmental Technology & Innovation Vol.21pp.
- A.Eakambaram P.Baskara Sethupathi M.A.Saibalaji A.Baskar(2021) "Experimental analysis and Validation of torsional stiffness of a Tubular space frame chassis",Materials Today: Proceedings
- Arockia Selvakumar J. Susai Mary,D. Dinakaran,M. A. Sai Balaji,S. Satishkumar(2021) "Monitoring and Modeling of Cylindricity Error Using Vibration Signals in Drilling",Handbook of Smart Materials, Technologies, and Devices Vol.pp.

## List of Journal Publications:

- Mohammed El Hadi Attia\*, Zied Driss, Abd Elnaby Kabeel, Asif Afzal, A. Muthu Manokar, Ravishankar Sathyamurthy(2021) "Phosphate bed as energy storage materials for augmentation of conventional solar still productivity", Environmental Progress & Sustainable Energy, ISSN:1944-7450, American Institute of Chemical Engineers, John Wiley & Sons Vol.40pp.
- Raj Kumar, Gaurav, Sushil Kumar, Asif Afzal, A. Muthu Manokar, Mohsen Sharifpur, Alibek Issakhov(2021) "Experimental investigation of impact of the energy storage medium on the thermal performance of double pass solar air heater", Sustainable Energy Technologies and Assessments, ISSN: 2213-1388, Elsevier Vol.48pp. Article number: 101673
- Essa F. A\*.; Zakaria Omara; Abdelkader Abdullah; Sengottiyar Shanmugan; Hitesh Panchal; A E Kabeel; Ravishankar S; Muthu Manokar; Ammar Elsheikh; Mohamed Abdelgaied; Bahaa Saleh(2021) "Augmenting the productivity of stepped distiller by corrugated and curved liners, CuO/paraffin wax, wick, and vapor suctioning", Environmental Science and Pollution Research, ISSN:1614-7499, Springer Vol.28pp.56955–56965
- C Sasikumar, A Muthu Manokar, M Vimala, D. Princeton, A E Kabeel, Ravishankar S, Ali J Chandrika(2021) "Experimental studies on passive inclined solar panel absorber solar still", Journal of Thermal Analysis and Calorimetry,
- M. Prashanth, R. Karunanithi, S. Rasool Mohideen, S. Sivasankaran,(2021) "An exploration on microstructural observation and mechanical behavior of nanocrystalline Al 7017 alloy via mechanical alloying and uniaxial hot pressing", Materials Characterization Vol.171pp.110803
- M. Prashanth, R. Karunanithi, S. Rasool Mohideen, S. Sivasankaran(2021) "A comprehensive exploration on the development of nano Y<sub>2</sub>O<sub>3</sub> dispersed in AA 7017 by mechanical alloying and hot-pressing technique", Ceramics International Vol.47pp.22924–22938
- Showkat Ali, R. Karunanithi, M. Prashanth, S. Sivasankaran(2021) "A novel study on mechanically alloyed nanocrystalline Ti-6Al-4V alloy fabricated by spark plasma sintering", Powder Metallurgy Vol.64pp.149-164
- G Mahendran, MAS Balaji, JS Mary, D Dinakara(2021) "Prediction and Modeling of Tool Wear with Cutting Force and Fine Gaussian Support Vector Machine in Drilling", Advances in Design and Thermal Systems Vol.pp.421-429



## List of International Conferences:

- Syed Quadir Moinuddin, Syed Shaul Hameed, Ashok Kumar Dewangan, K Ramesh Kumar, A Shanta Kumari, A study on weld defects classification in gas metal arc welding process using machine learning techniques, Materials Today: Proceedings <https://www.sciencedirect.com/science/article/pii/S2214785320398448>
- A.Muthu Manokar, Fausto Pedro Garcia Marquez, M. Mohamed Thalib, Ravishankar Sathyamurthy, Annual yield, environmental and economic analysis of tubular solar stills with phase change material and nano-enhanced phase change material, 15th International Conference on Management Science and Engineering Management (2021 ICMSEM) in Toledo, Spain from 1-4 August, 2021.
- Djamel Khamaia\*, Ridha Boudhiaf, Abderrahmane Khechekhouche, A. Muthu Manokar, Zied Driss, Effect of sand from Illizi city of south Algeria on solar distillation 6th International Conference on Mechanics and Energy in Sousse, TUNISIA from 27-29th December 2021.
- V.S. Chandrika, G. Saravanan, A. Mohamed Ibrahim, Hema C, A. Muthu Manokar, Improved Logistic Map Approaches based Adaptive Differential Evolutionary Algorithm for IoT Controlled E-Vehicle Motor 6th International Conference on Mechanics and Energy in Sousse, TUNISIA from 27-29th December 2021.
- S. Ramalingam, S. Rasool Mohideen, A. Muthu Manokar, Dynamic Analysis of Different Composite Materials for Robotic Flexible Manipulator, 6th International Conference on Mechanics and Energy in Sousse, TUNISIA from 27-29th December 2021.
- M.A. Sai Balaji, Eakambaram Arumugam S. Habib Rahmathulla, H. Sultan Navid, P. Baskara Sethupathi, The Effect of Chopped Steel Fibre Orientation on Frictional Properties in a Phenolic Resin-based Asbestos-free Semi metallic Friction Material, Euro Brake 2021, Spain

## List of National Conferences:

- Thiruppathi V, Arockia Julius A, Development Of Rattle Noise Reduced Steering Gear Assembly For Column Type Electric Power Steering System Advanced Research In Mechanical Sciences, SRM Institute Of Science And Technology, India

## List of Conference Presentations:

- Mr. Rajesh G, Mr. S. Syed Zubair, Mr. Jamesha Ibrahim, Dr. K. Mohamed Bak presented their papers at the Virtual International Conference ETDMMT 2020, organized by Departments of Mechanical, Aerospace and Automobile Engineering on 24.09.2020 and 25.09.2020.
- Mr. MD. Javeed Ahmed participated in the "International Conference on AI, Robotics and Automation", conducted by the ICT academy global technology forum from 14.10.2020 to 18.10.2020.

## Conferences/Seminars/FDP attended:

- Mr. Pradeep Kumar.D attended the STTP on Artificial Intelligence and Deep Learning Techniques for 6-Days (01-02-21 to 06-02-21 ) held by AICTE.
- Mr. Pradeep Kumar.D attended the programme on International Conference on Advances in Mechanical Engineering Design for 2- Days (03-05-21 to 04-05-21) held by SRMIST.
- Mr. Syed Shaul Hameed attended the programme on Foundations of Deep Learning for 5- Days (22-03-2021 to 26-03-2021 ) held by CSIR - CEERI, Pilani .
- Dr K Sathickbasha attended Online FDP on Automotive Engineering systems from 04-10-2021 to 08-10-2021 organised by ARAI-SAE INDIA
- Dr K Sathickbasha attended a Indo-Australian Online Seminar on Composite Materials for Ballistic Protection on 22-10-2021 organised by University of New South Wales
- Dr K Sathickbasha attended a Webinar titled “Photovoltaics in 360 (Design to Implementation)” during 02-08-2021 to 04-08-2021 organised by BSACIST
- Dr.S. Ravikumar attended an FDP on NAOE AND HRDC, from 06 12.21 TO 11.12 .21 conducted by AMET UNIVERSITY
- Dr.S.Ravikumar attended a Webinar on Industry 4.0 on 08-09-2021 conducted by BSACIT AND , EQUAD
- Dr.S.Ravikumar attended a Webinar on LEAN SIXSIGMA conducted on 15-07-2021 by BSACIT AND VISION EXCELLENCE
- Dr. A.S.Selvakumar participated in the Workshop, Advances in Welding Technologies for strategic Applications on 14-08-2021 conducted by The Indian Institute of Welding - Hyderabad Branch
- Dr.K.Mohamed Bak attended a Webinar on The Evolution of Engineering Education on 10-12-2021 organised by Knowledge Sharing Team , EFY Group, chennai
- Dr. M.Abdur Rahman attended a Webinar on “Project Management – Industry Problem Solving Methodology” on 13-09-2021 organised by Dept. of Mechanical, BSACIST
- Syed Shaul Hameed attended a Online FDP on Inculcating Universal Human Values in Technical Education for five days during 13-09-2021 to 17-09-2021 organised by AICTE

## Conferences/Seminars/FDP attended:

- Dr.M.A.Sai Balaji attended a Online FDP on Automotive Friction Materials for 5 days during 13-12-2021 to 17-12-2021 conducted by SRM Institute of Science and Technology
- Dr. Serajul Haque attended a Webinar on “Modelling and Analysis of Blocked Coronary Artery How far are we from Mechanical Engineering?” on 17 June 2021 organised by IIT , Mandi
- G.Rajesh attended a Online FDP on Unconventional machining process during 26-7-21 to 2-8-21 organised by Sri Sai Ram engineering college
- G.Rajesh attended a Online FDP on Additive manufacturing process and its applications for six days during 23-8-2021 to 28-8-2021 conducted by Sri Manakula Vinayagar engineering college
- Dr. S. Jeavudeen attended a Online FDP on Cyber Physical System Applications using LabVIEW on 04.06.2021 organised by Department of EECE, NITTTR, Chennai



# *Student's News!*





# DEPARTMENT CONVOCAATION



Section  
**A**



Section  
**B**



Section  
**C**



Section  
**D**



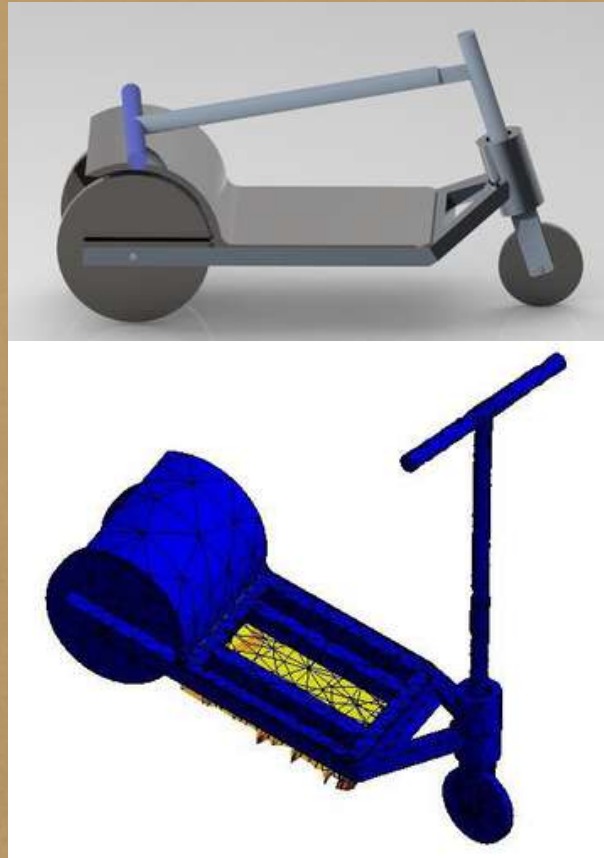
# Selective Student's Project:

## CONCEPT DESIGN AND ANALYSIS OF PORTABLE ELECTRIC TRIKE

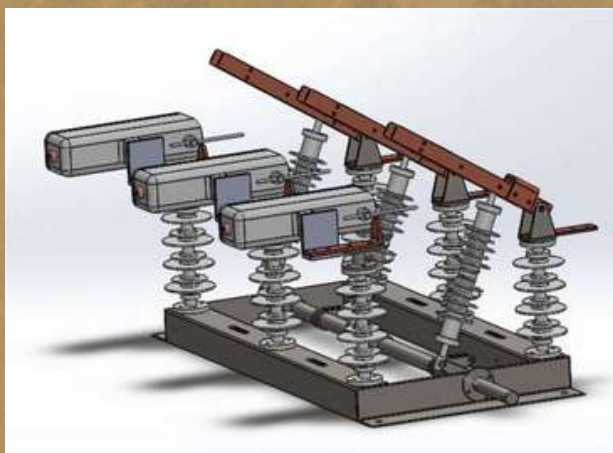
The objective of this project was to design a portable, eco-friendly and user friendly electric vehicle for shorter distance. Our trike is a 3-wheel personal vehicle in which the commuter stands and travels. We focus on our trike to be lightweight and portable with the help of a foldable handle. We are using electric power. We see our portable trike as a product that can be used to transport a user across mid-range distances in urban environments with ease of handling and carrying it around.

**Project Done by,**  
**Sheikh Sanad Nazer**  
**Shibin A**  
**Shihabdeen A**  
**Sunil Raaj M S**

1



## DESIGN AND FABRICATION OF VACUUM LOAD BREAK SWITCH



Vacuum Load Break Switch is a disconnect switch that has been designed to provide making or breaking of specified currents. The Vacuum Interrupter Assembly is the important part in the load break switch where the spring toggle mechanism and the vacuum chamber is presented. The design of the entire assembly was done in Solid Works

**Project Done by,**  
**Aakash Srinivasan. G**  
**Aravind Selvaraj**  
**Vignesh. R**

# Student's Achievements:

- Aravind Selvaraj & Girish Won 1st place in Business Plan from Madras Management Association (MMA) Chennai On 18th Nov 2021.
- Aravind Selvaraj was on top 50 in I-Innovate hackathon by Publishsutra On 19th June 2021
- Mohamed Thalib . M did Research paper Publications, Chandrika, V. S., Thalib, M. M., Karthick, A., Sathyamurthy, R., Manokar, A. M., Subramaniam, U., & Stalin, B. (2021). On the Performance assessment of free standing and building integrated grid connected photovoltaic system for southern part of India. Building Services Engineering Research and Technology, 42(2), 237-248. On March 2021
- Mohamed Thalib M did a Research paper Publications, Thalib, M. M., Vimala, M., Manokar, A. M., Sathyamurthy, R., Sadeghzadeh, M., & Sharifpur, M. (2021). Energy, exergy and economic investigation of passive and active inclined solar still: experimental study. Journal of Thermal Analysis and Calorimetry, 1-12. Month & Year: February 2021
- Rajaram.S.A was Placed 6th In Tamil Nadu State Ranking-2021 By Tamil Nadu Badminton association (TNBA) On 10th-15th August 2021

# Campus Placement:

Full Name	Company	Annual CTC
HARIPRASATH. V	Talentpepz	4.50
ABRAR AHMED. S.K	Ernst & Young	4.25
HARIHARAN. S	Ernst & Young	4.25
JAWAHAR PRANAV. U.K	Ernst & Young	4.25
SYED ASHHAD AFNAN	Ernst & Young	4.25
AKASH. K	Career Labs	4.00
SAYYED IMAMBASHA	Career Labs	4.00
ASHISH KUMAR YADAV	CTS	4.00
MOHAMMEDIBRAHIM. F	CTS	4.00
FARHAN NADEEM. M	Emerson	3.50
KAREEMULLA. S	HCL Technologies / Sutherland / Career Labs	3.50
ALI AHAMED. H	Cinif Technology	3.00
HAAFIZ MOHAMMED RIFAATH. S	NCR Corporate	3.00
NALAMARU VENKATA REDDY	Pentagon Space	3.00
MOHAMMED ZUBAIR FATHAI. S	Qspiders	3.00
KRISHNA KUMAR. R	Qspiders / Sutherland	3.00
MOHAMED FAYZ. H	Qspiders / Sutherland	3.00
MOHAMMED SHUAIB. B	Qspiders / Sutherland	3.00
SHAIK ABDUL REHMAN	Pentagon Space	3.00
HARISH RAGAV. T.R	Sutherland / Pentagon Space	2.50
MUGESH. P	Sutherland	2.50
POLEPALLI SAI SRINIVAS	Sutherland	2.50
VELUGURI PRAVEEN KUMAR	Sutherland	2.50
YAGANI SUMANTH	Sutherland	2.50
NICHENAMETLA HEMANTH KUMAR	Sutherland / Career Labs / Pentagon Space	2.50
AAKASH SRINIVASAN. G	S&S Power Switch gear Ltd	2.25
ARAVIND SELVARAJ	S&S Power Switch gear Ltd / Pentagon Space	2.25
VIGNESH. R	S&S Power Switch gear Ltd	2.25
AEJAZ AHAMMED. K.S	Alkraft Thermo Technologies Pvt. Ltd	2.00
ANTHATI VEERABABU	Alkraft Thermo Technologies Pvt. Ltd	2.00
ABDUL RAHMAN. S	Alkraft Thermo Technologies Pvt. Ltd	2.00
VISVA SUBRAMANIAN. R	Rekindle Automations	2.00
MOOLAI AFNAN ZAID	Rekindle Automations / Sutherland	2.00
Ejaz Ahamed	Sony Inda Ltd	2.00



# Campus Drives Conducted:

Company Name	Company Type	Annual CTC
WilyNXT	IT	7.00
Infosys ( InfiyTq)	IT	8.00
Kaar Technologies	IT	6.50
Kalgudi	Core	5
Byjus	Education	5.00
Federal Bank	Bank	4.95
Talentpepz	Finance	4.50
Ernst & Young (EY)	Product	4.25
Cognizant Technology	IT	4.00
Tata Consultancy Services (NQT)	IT	3.80
CAIA - Systech Solutions	ITES	3.5
Emerson (Fisher Chennai)	Core	3.50
HCL Technology	IT	3.50
CINIF Technologies Limited	IT	3.50
Wipro HR Services	IT	3.30
ASSA ABLOY	Core	3.25
Samsung Electronics	Core	3.10
Tenovia Solutions	IT	3.00
Qspiders	ITES	3.00
Career Labs	ITES	3.00
Pentagon Space	IT	3.00
Swifterz Creative Services (LLP)	Core	3.00
Ashok Leyland, Hosur Unit - II	Core	3.00
Coderprism Technologies Pvt. Ltd	IT	2.70
TVM Infotech Pvt Ltd.	IT	2.50
Future General Total Insurance	Insurance	2.5
Maestro Steel Dealing Inc	Core	2.50
Sutherland	ITES	2.50
iOPEX Technologies	IT	2.4
S&S Power Switchgear Limited	Core	2.25
Ashok Leyland	Core	2.20
AKSANS Technologies	Core	2.00
Rekindle Automations Private Limited	Core	2.00
Bizknowmics	ITES	2.00
Sony India Ltd	Sales	2.00
SNAM ALLOYS PRIVATE LIMITED	Core	2.00
Alkraft Thermotechnologies pvt Ltd	Core	2.00

# Students Internships :

Company Name	Company Sector
AAM India	Design
Aqwah Fly Ash Bricks and Paver Blocks	Manufacturing
Castwell Autoparts Pvt. Ltd	Automobiles
DRDO	Manufacturing
Fami Air Conditioners Pvt. Ltd	Design
Fathima Blue Metals (P) Ltd	Basic Metal and Steel
Godrej Consumer Products Pvt. Ltd	Engineering
Godrej Disha	Engineering
IIITDM, Kancheepuram	Education
Immunotech Equipments Pvt. Ltd	Manufacturing
India Pistons Ltd	Automobiles
Indian Oil Corporation Ltd, Korukkupet	Chemicals
Indo National Limited (Nippo)	Engineering
Innovative Precision Engineering	Engineering
JJ Building and Lifting Services	Consulting
Kaashiv Infotech	IT
Learn Electronics India	Power
Magna India Private Limited	Automobiles
NNTPP	Energy
PET India Industries	Automobiles
Polytough Tubes Limited	Rubber and Plastic Products
Retech Solution Pvt. Ltd.	Manufacturing
Roots Industries India Limited	Design
SMPC Industries Pvt. Ltd	Rubber and Plastic Products
Tharun Motors	Automobiles
TVS, Nagercoil	Automobiles
Vibromech Engineers and Services	Engineering
Zulaikha Motors Pvt Ltd	Automobiles



# Student's Corner

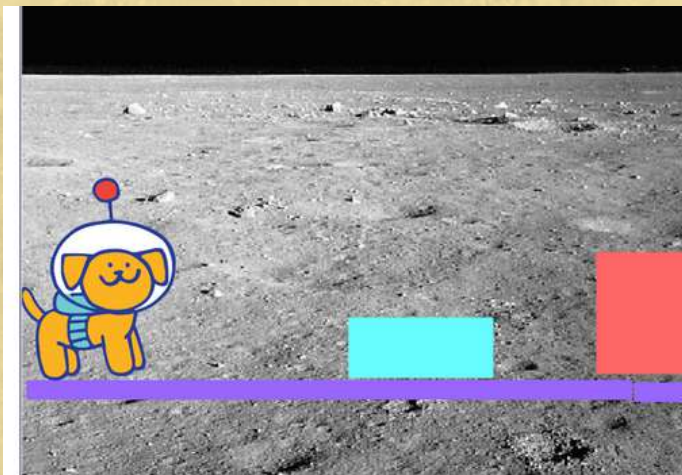




# **Sriram Surya**

## **4th year Mechanical-'B'**

I am Sri ram surya from Mechanical. On February 2022, I did a guided online project on Coursera on Introduction to Basic Game Development. I love playing games and the project takes about 3 hours to complete so I tried it out. The project was done by virtually connecting to a computer on Coursera Servers and guided by pre-recorded videos by the instructor. The software used was called Scratch and it had very simple interface with codes connected by blocks.



The Objective of the project was to create a game with a goal to make an object jump onto an obstacle with low gravity. I did as the instructor guided me and completed the project in 2-3 hours. It gave me a sense of how algorithms work in the games we play everyday.

Game Link :-

<https://scratch.mit.edu/projects/651252821>



# Althaf Rahman Anees R.S

## 4th year Mechanical - 'A'

My animations are actually set of 3D models of buildings, cars or any three dimensional model which can be used in as a game asset. Game developers purchase and import in the models that the modellers create in order to facilitate the project forward. Right now I'm into interior designing and offering start up clients a preview of their workspace based on the floor plans they provide.



I always had a thing for art but didn't know any appropriate domain to get into it. Then I discovered a new software for animations and 3d modelling, slowly started with basic low polygon models then slowly took the quality of work up the ladder. I came across few works made by artists on social media which made me curious on how it is made. I Learned all the major modelling and texturing works from YouTube tutorials. I usually gather up ideas from social media and then drop in few of my own ideas and creativity. Most of my posts are based on practical learning. Most of my works are recreational based on

<https://instagram.com/alt44.f?igshid=YmMyMTA2M2Y=>

# **Anish M**

## **4th year Mechanical-'B'**

The project was "Design and fabrication of bevel screw type jack" . In simple. Words, It is a compact portable screw jack which provides a vertical lift using a bevel gear. It may be used manually or can be automatically operated .



My inspiration was an idea , to ease our day to day use, I had learnt how to manage a team towards the goals, getting to know the strengths and weaknesses of my team members and assigning tasks accordingly,  
We got to know more about technical concepts based on design process, how to design feasibly, efficiently and many more.



# Gokul Kumar C

## 4th year Mechanical-'A'

Getting it started.

“If someone offers you an amazing opportunity but you are not sure you can do it, say

yes and learn how to do it later”

Richard Branson

Who I am?

The above quote well describes me. I must admit I am not accustomed to article writing. Up

until I was asked to write this article, I thought the spelling of “ARTICLE” is “ARTICEL”.

So if anything goes wrong with this article, please don't quote this on your Instagram.

I am Gokul Kumar, just like any other guys in their 20s having a nice time procrastinating, eating junk, and many more that I can't list in this article for a professional cause.

What Drove me into Mechanical Engineering?

From my childhood days, I was interested in things that could move. From cars, and trains to JCBs anything that has an underlying mechanism has impressed me. There were days when I used to watch road paving heaving machine convoy all day. In my school days science used to be my favorite subject. I love finding answers to the question of How and Why. I was quite brilliant in my 9th and 11th physics which has to deal with the concept of classic mechanics that paved my road to the degree of Mechanical Engineering.





## Why did I start blogging?

It was not a planned thing that happened. Just thought of starting one and started it just 10 mins after I thought of doing it. The idea of a blog came from my irresistible liking for Formula 1, I was also concerned about my English and had a need to develop it, blog sounded cool and could improve me in ways I need to. It also came in handy and was valuable adding a professional hobby to my Resume. Blogging also made me search and acquire knowledge. Just for sake of content now I need to read about new topics or develop a deeper knowledge of the existing topic I knew. Which made me a regular explorer of knowledge. The blog started as an F1 tech explaining blog named F1explained which was later rebranded as GokulExplainThings where I talk about all general tech stuff.



What inspired me to do blogging?

I had a keen interest in the written form of communication from my childhood. Rather than spoken words, I like writing one. I would prefer texting over calls too. The written format of communication gave me time and enough confidence to express myself. So I was very comfortable expressing my knowledge via writing rather than giving a lecture or through face-to-face communication. Why liking written communication inspired me to write a blog



Blogger: User Profile: GokulExplainThings



# Ashfaq Ahamed

## 4th year Mechanical-'A'

Origami is all about creating structures /sculptures ,just by folding paper.

As a kid i really wanted to build something new and different ,but couldn't do so, due to various reasons.At that time I came across Origami.

The amount of possibilities were virtually endless ,from a single sheet of paper you can fold anything .

That's the part of origami that appealed to me



The models i fold are mostly geometric . While i do want to build origami models that could be used in engineering applications,but most of my work is recreational.In other words I fold origami models because it gives me creative satisfaction.

It takes roughly a week or two to build a geometric structure with multiple units . More the number of units, the longer it takes.

Whereas it only takes a day to fold origami tessellations.

[https://instagram.com/x\\_papyrus\\_x?igshid=YmMyMTA2M2Y=](https://instagram.com/x_papyrus_x?igshid=YmMyMTA2M2Y=)

# **NEWS BULLETIN**

## **TEAM**

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**Dr. V. Muralidharan**



**Dr. Mohamed Bak  
Kamaludeen**

# EDITORIAL TEAM

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IV Year Mechanical



Naresh  
IV Year Mechanical



Ashfaq Ahamed  
IV Year Mechanical



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IV Year Mechanical

