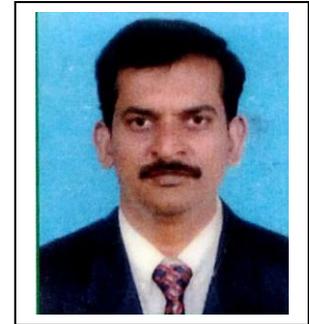


Faculty Profile



Name of the Faculty : Dr.K.Syed Jafar

Designation : Assistant Professor

Department: Mechanical Engineering

Date of Joining : 16-03-2004

Faculty ID AICTE ID: 1-3536235210

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Qualification : M.E,Ph.d

Specialization : Solar Energy, Heat transfer

Professional Experience: 17 years

Publications:

(i) International Journals :

1. **K. Syed Jafar** & B. Sivaraman “Thermal Performance of Solar Parabolic Trough Collector Using Nanofluids and the Absorber with Nail Twisted Tapes Inserts”, *International Energy Journal*, Vol. 14 (4), 2014, PP. 189-198.
2. **K.Syed Jafar** & B.Sivaraman “Optimization of Performance Characteristics in the Absorber with twisted Tapes of Parabolic Trough Collector Using Response Surface Methodology”, *ARPJ Journal of Engineering and Applied Sciences*, Vol. 10 (8), 2015, PP.3457-3464.
3. **K.Syed Jafar** & B.Sivaraman “Performance of a Parabolic Trough Solar Collector with Twisted-Tapes Absorber”, *International Journal of Applied Engineering Research*, Vol. 10 (8), 2015, PP. 6182-6185.
4. **K.Syed Jafar** & B.Sivaraman “Performance Characteristics of Parabolic Trough Solar Collector Water Heating Fitted with Nail Twisted Tapes Absorber”, *Journal of Engineering Science and Technology*, Vol. 12 (3), 2017.
5. T. V. Rajamurugan, A. Velmurugan & **K. Syed jafar** “Sensitivity analysis of Delamination factor in drilling GFR polyster composite using brad and spur Drill”, *Journal of Advanced Microscopy Research Science and Technology*, Vol. 13 (1-9), 2018.
6. **K. Syed Jafar**, M. Arulprakasajothi, N. Beemkumar & K. Elangovan “Effect of conical strip inserts in a parabolic trough solar collector under turbulent flow”, *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 2019 **Taylor & Francis Group**, LLC, 2019, DOI:10.1080/15567036.2019.1650850
7. S. Ashfaque Ahmed, I. Rahamathullah, & **K. Syed Jafar** “Investigation of petrodiesel, waste animal fat biodiesel with waste cooked oil biodiesel different blends in single cylinder four-stroke water-cooled CI engine”, *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 2019 **Taylor & Francis Group**, LLC, 2019, DOI: 10.1080/15567036.2019.1655113

8. R.Venkatesaperumal and **K.Syed jafar** “Study of thermal energy storage medium (Fly Ash) on the performance of a solar still”, Elixir Mech. Engg,2019, 53678-53682

9. **K. Syed Jafar**, R. Venkatesaperumal, V. Venkatesan & K. Murugan “Impact of Diethyl Ether on the Performance of LHR Diesel Engine Operated using Canola Oil Methyl Ester – Diesel blend”, Journal of Shanghai Jiaotong University, Vol. 16 (8), 2020

10. **K.Syed Jafar** , L.Kamaraj ,M. Arulprakasajothi ,and I.Vinoth kanna “Performance enhancement of solar collector using strip inserts and with water based Al₂O₃/DI water nanofluids”, Energy Sources, Part A: Recovery,Utilization, and Environmental Effects, 2021 **Taylor & Francis Group**, doi.org/10.1080/15567036.2021.1872745

11. S.Ashfaque Ahmed , I Rahamathullah , K. Vijayaraj & **K. Syed Jafar** Evaluation of animal fat based biodiesel blends and effects of exhaust gas recirculation on the suitable blend in single cylinder four stroke diesel engine”, Energy Sources, Part A: Recovery,Utilization, and Environmental Effects, 2021 **Taylor & Francis Group**, 10.1080/15567036.2020.1862368

(ii) International Conferences:

1.International Conference on International Exergy,Energy and Environment Symposium”, SRM University

2. International Conference on “Effect of Antioxidant Additives on NOx emission reduction from Annona Biodiesel”,Kamaraj College of Engg&Tech Virudhunagar

3. International Conference on “ Modelling, Optimization and Computing”, Noorul Islam University

(iii) National Conferences:

1. National Conference on “**Fly ash based SiAl on composite**”,Arunai college of Engg,Thiruvannamalai.

2. National Conference on “ **Investigation of thermal performance of heat pipe using DI water**”, Arunai college of Engg,Thiruvannamalai

3. National Conference on “ **Thermal performance of solar PTC Collector with effect of twisted absorber**”, SRM Institute Sci&Tech,Chennai

4. National Conference on “ **Working Characteristics LHR Diesel Engine by waste**

plastic oil”, Government College of Engg, Bargur.

5.National Conference on“**Low Caron Technologies in Automobiles**”,Annamalai University

Seminar, Workshop Attended:

1. AICTE Govt.of India sponsored one week short term training program on “**Advances in Solar Energy Technologies**”, held at I.I.T.Delhi, 09-12-2014 to 15-12-2014

2. TEQIP sponsored four day workshop on“**Applications of Nano Technology in Mechanical Engineering**” ”, held at N.I.T .Tiruchirappalli, 18-12-2013 to 21-12-2013

3. UGC sponsored one week workshop on“**Recent Trends in Automotive Electronics**”, held at Annamalai University.Annamalainagar, 18-12-2013 to 21-12-2013.

4. AICTE MHRD sponsored one week short term training program on “**Advances in Hybrid Energy System**”, held at N.I.T.Calicut, 26-06-2011 to 02-07-2011

5. AICTE Govt.of India sponsored one week short term training program on “**Photovoltaic Thermal Applications** ”, held at I.I.T.Delhi, 09-12-2011 to 15-12-2011

6. AICTE MHRD sponsored two week short term training program on “**Recent Researchers on Fuzzy Logic and Neural Networks** ”, held at Tiruchirappalli, 21-06-2010 to 03-07-2010

7. Seminar on “**Waste-Disposal, Management and Utilisation**”, Annamalai University,Participated

Invited speaker and Session Chair

1. “Experimental Investigation On parabolic Trough Solar Collector” deliver at 3rd International Conference on Technological Advances in Mechanical Engineering” - (ICTAME 2019) on 19th and 20th Sep 2019 at AMET Deemed to be University, Chennai, India

2. “Heat Transfer Enhancement in Parabolic Through Solar Collector” deliver at National Level Webinar Date -23rd /Jan/ 2021*Organized by Research & Development Cell, Indur Institute of Engineering &Technology Siddipet, Telangana- 507722