

RESUME

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Professional Experience

| Name & Address of the Institution / Organization | Designation | Duration | Year |
|--|---------------------|--------------------------|---------------------|
| Mohamed Sathak Engineering College, Kilakarai. | Associate Professor | 20-08-2006 to Till Date | 14 Years & 2 Months |
| Shanmuganathan Engineering College, Pudukkottai. | Asst. Professor | 11-07-2004 to 19-08-2006 | 2 Years & 3 Month |
| Total Experience | | | 16.3 years |

Educational Summary

| Course | College/School | University | Month & Year of Passing | % | Class |
|---------------------|---|----------------------------|-------------------------|---------|-------|
| Ph.D. | Anna university, University college of Engg-Dindigul. | Anna University, Chennai. | Sep-2018 | Awarded | |
| M.E. (Thermal Engg) | Mohamed Sathak Engineering College, Kilakarai. | Anna University, Chennai. | June-2004 | 72% | FC |
| B.E. (Mechanical) | Sethu Institute of Technology, Madurai. | Madurai Kamaraj University | Nov-2002 | 62% | FC |
| D.M.E. | Mohamed Sathak Polytechnic College, Kilakarai. | DOTe | April-1995 | 70% | FC |

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|----------|--|-------------|------------|-----|----|
| S.S.L.C. | Ayira Vaisya Higher Secondary School,Paramakudi. | State Board | April-1990 | 73% | FC |
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Research work

Project Area : **Alternative Fuel for IC Engine**

Project Title : **A Critical Evaluation of oil Extraction, Biodiesel Production, Engine Performance and Emission Analysis of Non-Edible Vegetable oil**

Project Location : **Anna University, University College of Engineering, Dindigul – 624 622**

University : **Anna University, Chennai.**

Resource Person / FDP /Seminar/Workshop

1. As a **Resource Person** delivered a lecture on the topic of **“Hybrid Electric Vehicles (HEV)-A Revolution in the Automobile Industry”** on 17th March 2020 at Srividya College of Engineering and Technology, Virudhunagar.
2. As a **resource person** delivered a lecture on the topic **“Optimization Techniques for oil extraction and biodiesel production”** on 08.11.2019 at Department of Mechanical Engineering, Syed Ammal Engineering College, Ramanathapuram in AICTE Sponsored One Week Short Term Training Programme on **“Newer Materials – Challenges and Optimization Techniques for Engineering Applications”** from 04.11.2019 to 09.11.2019.
3. As a **resource person** presented a topic **“Internal Combustion Engines”** on 13th December 2019 in the Faculty development Programme (FDP) on **ME 8493/THERMAL ENGINEERING - I** during 11th December to 18th December 2019 sponsored by Center for faculty development AICTE, Chennai at Srividya College of Engineering and Technology, Virudhunagar.
4. **Chief guest** for the Guest Lecture on **“Recent trends in Alternative fuels for Internal Combustion Engine”** at Kalasalingam University, Krishnankoil on 27th of March, 2019.
5. **Chief guest** for the National level Technical Workshop on **“Oil Extraction and Biodiesel Production from Straight Vegetable Oils (SVO)”** at Shanmuganathan Engineering College, Pudukkottai on 5th of October, 2018.

Workshop / Seminar / Expo / Conference

1. Organized and Conducted (as a **Convener**), a National level Technical Symposium [**Dus-ex-Machina'19**], organized by Department of Mechanical Engineering, Mohamed Sathak Engineering College, Kilakarai.(30 Aug-2019)
2. Organized and Conducted (as a **Convener**), a **Guest lecture** on Recent Trends in Automobile Engines , organized by Department of Mechanical Engineering, Mohamed Sathak Engineering College, Kilakarai.(25 Feb-2017)
3. Organized a one day workshop on “Automobile Maintenance, Tyre care and Vehicle Insurance” conducted by Department of Mechanical Engineering, Mohamed Sathak Engineering College, Kilakarai.(7 Feb-2017)
4. Presented a Paper in the **National Conference** on “Advances in Mechanical and Materials Engineering”[AIMME-'16], held at Sri Ramakrishna Engineering College. (07-Apr-2016)
5. Organized and Conducted (as a **Technical committee member**) in the 1st **International Conference** on “Green Technologies for Energy Management” [ICGTEM-'15], organized by Department of Chemical Engineering at Mohamed Sathak Engineering College, Kilakarai.
6. Presented a Paper in the **International Conference** on “Green Technologies for Energy Management” [ICGTEM-'15], organized by Department of Chemical Engineering at Mohamed Sathak Engineering College, Kilakarai. (27,28-Mar-2015)
7. Presented a Paper in the **International Conference** on “ Emerging Trends in Engineering, Technology and Management” [ICETM-'15], organized by RVS college of Engineering and Technology, Dindigul.(16,17,18-Apr-2015)
8. Undergone AICTE Sponsored Two weeks **Faculty Development Program** on ‘Renewable Energy Sources” conducted by Syed Ammal Engineering College, Ramanathapuram. (04 to 17-Oct-2013)
9. Organized and Conducted (as a **Convener**), a National level Technical Symposium [**Dues-ex-Machina'13**], organized by Department of Mechanical Engineering, Mohamed Sathak Engineering College, Kilakarai.(25&26-Sep-2013)
10. Organized a Guest lecture on (as a **Convener**) “**Nuclear Programs of India**” conducted by Department of Mechanical Engineering, Mohamed Sathak Engineering College, Kilakarai.(10-Mar-2012)
11. Paper Presented in the **National Conference** on “Focus on Lucid Advancement of Mechanical Engineering” [FLAME-'12], held at Bharath Niketan Engineering College, Aundipatty, Theni. (05-Mar-2012)

12. Presented a Paper in the **National Conference** on “Innovation in Mechanical Engineering” [NCIME’ 12], held at Gojan School of Business and Technology, Chennai.(31-Jan-2012)
13. Participated in one day **Workshop** on “Recent Trends and Research in Mechanical Engineering” organized by Department of Mechanical Engineering held at Syed Ammal Engineering College, Ramanathapuram. (08-Oct-2011)
14. Participated in one day **National Seminar** on “Advanced Manufacturing Techniques in Engineering” organized by Department of Mechanical Engineering held at Ultra College of Engg. & Technology, Madurai. (16-Sep-2011)
15. Participated in one day **Seminar** on “Research Methodology” organized by Centre for Research, Anna University of Technology, and Tiruchirappalli. (27-Aug-2011)
16. Organized a “**National Conference on Advanced Mechanical Engineering**” [NAME 10] held at Mohamed Sathak Engineering College, Kilakarai.(04-Apr-2011)
17. Participated in one day, Automobile Engineering Workshop on “Self Development, Recent Trends in Automobile Engineering & Transport Management” held at Shanmuganathan Engineering College, Pudukkottai. (18-Sep-2009)
18. Attended a meeting for the disposal of the Matador Van and Hyundai Car (as an **External Expert**) held at Syndicate Hall of Alagappa University, Karaikudi. (29-July-2009)
19. Organized and Conducted (as a **Convener**), a National level Technical Symposium [**Dus-ex-Machina’08**], organized by Department of Mechanical Engineering, Mohamed Sathak Engineering College, Kilakarai.(25 Feb-2008)

International Journal Publication / Research Paper / Annexure I

- 1 **M.Rajeshwaran** K. Raja P.Velmurugan M.D. Duraimurugan alias Saravanan⁴ Optimization of Soxhlet extraction of *Prosopis Julifera* using response surface methodology, *International Journal of Applied Engineering Research* (IJAER),pp.10(49):552-557,(2015)
- 2 **M. Rajeshwaran**, K. Raja, P.Marimuthu and M.D. Duraimurugan alias Saravanan, Biodiesel Production and Optimization from *Prosopis Julifera* Oil – A Three Step Method, *International Journal of Advanced Engineering Technology*,(IJAET) E-ISSN pp.0976-3945. 214-224, (2016).
- 3 **M. Rajeshwaran**, P.Ganeshan and K. Raja, Optimization and Biodiesel Production from *Prosopis Julifera* Oil with High Free Fatty Acids, *Journal of Applied Fluid Mechanics*, (JAFM) Vol. 11, No. 1, pp. 257-270, ISSN 1735-3572, EISSN 1735-3645.DOI: 10.18869, (2018).

- 4 **M.Rajeshwaran**, V. Mayilvelnathan and R.Parthasarathi "Studies on *Prosopis Julifera* Methyl Ester Production and its Effect on DI Diesel Engine Performance, Emission and Combustion Characteristics " *Indian Journal Of Geo Marine Sciences*. IJMS/MS 4354/19 (2019)
- 5 **M.Rajeshwaran**, S.Shanmugasundram P.Marimuthu, *Prosopis Julifera* oil: Optimization and Biodiesel Production, International Journal of Ambient Energy, IJAE, 179–193 (2019)
- 6 **M.Rajeshwaran** V.Mayilvelnathan P. Marimuthu, A multi-variant approach to optimize process parameters of two-step pretreatment of high FFA *Prosopis Julifera* oil, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, UESO-2019-1685,(2019)
- 7 M. Rajeshwaran R. Parthasarathi J. Ganeshkumar A.Ponshanmugakumar A multi-variant approach to optimize process parameters for oil extraction from non edible feedstock: *Acacia nilotica*, *Materials Today: Proceedings*, Elsevier: 20-06196 (2020)
- 8 M.Rajeshwaran S.Ramasamy R.Parthasarathi A.Ponshanmugakumar, "A critical evaluation of oil extraction and fatty acid composition of *Prosopis Julifera*" *Materials Today: Proceedings Elsevier*: 20-06035 (2020)
- 9 Shunmugasundaram.M,M.Rajeshwaran, R.Kamalakaran V.Venkatraman L.Ponraj Sankar, "Improvement of Biodiesel Extraction from *Prosopis Julifera* natural plant by Response Surface Methodology" *Environmental Science and Pollution Research*, Springer (2020)
- 10 M.Rajeshwaran, M.Shunmugasundram, R.Kamalakaran Ramalingam, L. Ponraj Sankar Lakshmaniah, S Nagarajan, Emission reduction, 1 performance and combustion analysis using Al₂O₃ nano additives: *Prosopis juliflora* methyl ester, *Environmental Science and Pollution Research*, Springer: 20-08961 (2020)

International Journal Publication / Research Paper / Annexure II

1. **M. Rajeshwaran**, 2016, 'A Critical Evaluation of Oil Extraction, Fatty Acid Composition, Biodiesel Production Engine Performance and Emission Analysis by Using Di Diesel Engine', *Advances in Mechanical and Materials Engineering* pp.149-155.
2. S.Arun kumar , **M. Rajeshwaran**, K. Raja, 2015, A Comparative study of the performance and Emission characteristics of a Diesel Engine operated on CSO, PSO, and Diesel', **International Conference** on "Green Technologies for Energy Management" [ICGTEM], EISSN 1735-3645.DOI: 10.18869, (2015).
3. **M. Rajeshwaran** K. Raja , 2015 ' Evaluation of Oil extraction and Fatty Acid Composition of Thevita Peruviana seed', "Green Technologies for Energy Management" [ICGTEM-'15].