

Resume of Dr. C. SOLAIMUTHU

Dr. C. SOLAIMUTHU

Head,
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EDUCATION

Doctor of Philosophy 2007 - 2012
Anna University Chennai, Tamil Nadu, India

- *Completion: August 2012* – Status of the Comments: **Recommended**
- *Thesis: Performance and Emission studies of a DI diesel engine with Madhuca Indica biodiesel using EGR and SCR techniques*
- *CGPA: NA*

Master of Technology in Thermal Plant Engineering 2002 - 2004
SASTRA Deemed University, Thanjavur, Tamil Nadu, India

- *Completion: May 2004*
- *Thesis: Performance and Combustion study of diesel engine using biodiesel as fuel*
- *CGPA: 7.8095/ 10*

Bachelor of Engineering in Mechanical Engineering 1997 - 2001
Madras University, Tamil Nadu, India

- *Percentage: 69.52 %*

GRADUATE RESEARCH

(Supervised by *Dr. P. Govindarajan, Dr. D. Senthilkumar* and *Dr. V. Ganesan*)

- **Alternative fuel for C.I Engines**

POST GRADUATE RESEARCH PROJECTS

- **Performance of Diesel engine fueled with methyl ester of cotton seed oil and its blends**

UNDERGRADUATE RESEARCH PROJECTS

- **Tyre removal mechanism by using hydraulic and pneumatic systems**

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EXPERIENCE DETAILS

- Around **24 years** of teaching and research experience in reputed Engineering Colleges in Tamil Nadu and Karnataka States.

Sona College of Tech., Salem, TN	- Lecturer	- July 2001 to June 2005
M. Kumarasamy Engg., Karur, TN	- Lecturer	- July 2005 to August 2006
Selvam College of Tech., Namakkal, TN	- SL & HOD	- Sep 2006 to May 2009
Paavai Engg. College, Namakkal, TN	- AP & Prof.	- June 2009 to May 2013
PMC Tech., Hosur, TN	- Prof. & Dir.(R&D)	- June 2013 to April 2015
CMRIT, Bengaluru, KA	- Professor	- July 2015 to June 2016
AMC Engg. College, Bengaluru, KA	- Professor	- July 2016 to March 2021
RVITM, Bengaluru, KA	- Head	- Oct 2021 to till Date

SUPERVISOR DETAILS

I have been acting as recognized supervisor in Anna University, Chennai since 2013

Reference Number : **22.02.03**
 2220467

(<https://cfr.annauniv.edu/research/supervisorlist.php?type=mech>)

I have been acting as recognized supervisor in VTU, Belagavi since 2017

Reference Number : **VTU08172570**

List of BoS/BoE:

- Board of Studies (BoS) (PG Program), VTU, Belagavi, 2025-28.
- Board of Examiner (BoE) (UG Program), VTU, Belagavi, 2025-26.

List of Research Scholar Details:

- Mr. Jagadheesha K B, USN: 1RF24PME01, Main Supervisor, VTU, Belagavi, March 2025 (Status: RAC Formed).
- Mr. Santhosh Pawan, USN: 1CD24PME03, DC Member, VTU, Belagavi, September 2025 (Status: RAC Formed).
- Mr. Arun Navin Joseph, Reg. No. 19142691137, DC Member, Anna University, Chennai, Dec 2024 (Status: Synopsis Submitted).

EXPERIMENTAL SKILLS:

- Performance of a diesel engine with neat diesel, biodiesel and its various blends.
- Droplet studies of various fuels.
- Reduction of NO_x using EGR and SCR techniques.

COMPUTER SKILLS:

- Proficient in using MS Office Suite, AutoCAD and Solid Works.

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LIST OF JOURNALS:

1. Praveen Verma, Hitesh Soni, Madhusudhan J, Dileep Kumar, **C. Solaimuthu**, Optimization and Analysis of Wire Electrical Discharge Machining Parameters for TiNiCo Shape Memory Alloy, Publication in Scientific Reports, **SCI indexed and Q1 Journal**, IF: 3.9, Springer Nature, UK (**Under Review**).
2. Sunil Bhat, Yashpal Khedkar and **C. Solaimuthu***, Finite Element Validation of Theoretical HRR solution for mode I crack tip stress field in EPFM, SSRG International Journal of Mechanical Engineering, Volume 12 Issue 11, 78-85, November 2025, <https://doi.org/10.14445/23488360/IJME-V12I11P108>, (**Q2 Journal**).
3. **C. Solaimuthu***, Effects of Cutting Fluids on Cutting Force, Surface Roughness and Tool Wear Under MQL Turning of AISI 316L Stainless Steel through the Taguchi Method, Publication in Results in Engineering journal, Elsevier Science, (**Q1 Journal**), IF: 6.0, Scopus Indexed Journal (**Under Review**).
4. G. Anjaneya, S. Sunil, M. B. Hanamantraygouda, N. K. Manjunatha, K. Ravikiran, **C. Solaimuthu**, H. Ramesha, S. Harish, B. P. Dileep, C. Durga Prasad & Aymen Adem, CFD-based numerical investigation of convective heat transfer in multi-channel micro-exchangers using MWCNT–water nanofluid, *Scientific Reports*, Feb 2026. <https://doi.org/10.1038/s41598-026-41225-8> (**Q2 Journal**).
5. G.R. Gurunagendra, Anil Kumar K.S., Ravikumar V., Hanamant Yaragudri, R. Suresh Kumar, C. Durga Prasad, **C. Solaimuthu***, Amit Tiwari and Subramanya R. Prabhu, Application of the Taguchi Technique to Examine the Wear Patterns of Zircon Flour Reinforcement in Stir-Cast Zinc Aluminium Composites, Results in Surfaces and Interfaces, August 2025, <https://doi.org/10.1016/j.rsufi.2025.100598> (**Q2 Journal**).
6. C. Durga Prasad, H. R. Manjunath, Mahantesh S. Matur, H. B. Shivaprasad, **C. Solaimuthu**, M. Haridass, Shrishail B. Sollapur, Saravana Bavan and T. A. Sudarshan, Investigation of Microstructural and Hot Corrosion Behaviour of CoMoCrSi/WC-12Co Microwave Cladding on Titanium Substrate", Journal of Bio- and Tribo-Corrosion, <https://doi.org/10.1007/s40735-025-00997-8>, May 2025 (**Q2 Journal**).
7. **C. Solaimuthu**, Aryan Rajath Vishnu, Mohammed Azeez, Naresh Yadav and M. Manjunath, Production and performance of bio-diesel from pongamia oil methyl ester, Volume 15, Issue 1, Feb 2025 (**Accepted for Publications**).
8. Kiran Gowda M R, Manjunath Gowda M R, Vijaykumar R S, C. Durga Prasad, Ashok R Banagar, **C. Solaimuthu**, Abhijit Bhowmik, S M Mozammil Hasnain and Rustem Zairov, Experimental Investigation on CO₂ Emission Characteristics of Modified SI-Engine with Direct Fuel Injection (DFI) Technique, ES Energy & Environment, vol. 25, 25, 1223, August 2024, DOI: <https://dx.doi.org/10.30919/esee1223> (**Q2 Journal**).
9. Lokesh Paradeshi, **C Solaimuthu**, N V Ragavendra Reddy, Rajangale Manik and K Shashank, A Qualitative Comparative study of Multi-Cylinder Conventional Compression Ignition Engine using Neat Schleichera Oleosa (Kusum) Bio-diesel and Neat Diesel as fuel, AIP Conference Proceedings, 3025, 020001, 2024, <https://doi.org/10.1063/5.0201825> (**Q2 Journal**).
10. **C. Solaimuthu**, Lokesh P, Akshaya Kumar D S and Karthick Raj, Static Fuel Injection Timings' effect on emissions of madhuca indica bio-diesel mixtures as fuel to operate direct injection diesel engine, Materials Today Proceedings, Elsevier, Vol. 92, PP. 291-295, 2023, <https://doi.org/10.1016/j.matpr.2023.04.600> (**Q2 Journal**).
11. Sunil Bhat, **C. Solaimuthu**, On Stress-Strain Fields near Mode I Ductile Crack Tip in Elastic-Plastic Fracture, Defect and Diffusion Forum, Vol. 428, pp 9-15, 2023 Trans Tech Publications Ltd, Switzerland. C. Solaimuthu, Lokesh P, Abhay Surya M, Arkesh P, "A comparative

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- study between Hot Exhaust Gas Recirculation and Compression Ignition Engine fuelled with Mahua oil mixtures (Accepted for Publication Journal of Mines, Metals and Fuels), 2023. **(Q3 Journal)**.
12. **C. Solaimuthu**, Lokesh P, Manik Rajangale, Raghavendra Reddy N V, Shashank S “A Qualitative Comparative study of Multi-Cylinder Conventional Compression Ignition Engine using Neat Schleichera Oleosa (Kusum) Bio-diesel and Neat Diesel as fuel” (Accepted for Publication in Journal of Physics: Conference Series, IOP Science Publications). **(Q4 Journal)**.
 13. **C. Solaimuthu**, Lokesh P, Shashank Karigowda and Saikumar Rachotti, A Qualitative Study of Compression Ignition Engine fuelled with mixtures of Madhuca Indica Biodiesel with Hot and Cold EGR Techniques. (Accepted for Publication in Heat transfer Journal Taylor and Francis Publication, SCI), 2023. **(Q2 Journal)**.
 14. G. Anjaneya, S. Sunil, Shrishail Kakkeri, Mahantesh M. Math, M. N. Vaibhav, C. Solaimuthu, C. Durga Prasad, Hitesh Vasudev, Numerical simulation of microchannel heat exchanger using CFD, International Journal on Interactive Design and Manufacturing (IJIDeM), Springer, <https://doi.org/10.1007/s12008-023-01376-8>, Published on 06.06.2023. **(Q2 Journal)**.
 15. V. Moorthy, C. Solaimuthu, P. Lokesh and S. Jayaraj, A Comparative Study of Four-Cylinder CI Engine fuelled with Jatropha Curcas, Schleichera Oleosa and Madhuca Indica bio-diesel and base diesel, Energy Sources PartA: Recovery Utilization and Environmental Effects, Taylor and Francis (Under Review), 2023 **(Q1 Journal)**.
 16. Sreenivas. S , N. Balakrishnan , T. K. Kannan and C. Solaimuthu, A Qualitative Study of Multi-Cylinder Conventional CI Engine using Madhuca Indica oil as fuel, International Journal of Mechanical and Industrial Engineering, IRNet, Volume 4, Issue 3 (2022), Article 2, DOI: 10.47893/IJMIE.2022.1202. (Scopus Indexed). Recovery Utilization and Environmental Effects, Taylor and Francis (Under Review), 2023 **(Q1 Journal)**.
 17. **Solaimuthu C**, Sreenivas, S., Balakrishnan, N and Kannan, T. K., *A qualitative study of multi-cylinder conventional CI engine using madhuca indica oil as fuel*, **International Journal of Mechanical and Industrial Engineering**, 2021, Under- Review **(Publisher: Interscience) (SCOPUS)**. **(Q2 Journal)**.
 18. V. Ravikumar, D. Senthilkumar, C.G. Saravanan, V. Edwin Geo, M. Vikneswaran, J.S. **C. Solaimuthu** and Femilda Josephin, *Study on the effect of 2-butoxyethanol as an additive on the combustion flame, performance and emission characteristics of a spark ignition engine*, **Fuel**, Vol. 285, 119187, 2021, doi.org/10.1016/j.fuel.2020.119187. **(Publisher: Elsevier), (SCOPUS and SCI)**. **(Q1 Journal)**.
 19. **Solaimuthu C.**, Ganesan, V., and Sreenivasa T. N., *Biodiesel - a sustainable option for Irrigation*, **Journal of Institution of Engineers (India): Series C**, Vol. 101, pp. 53-59. 2020, <https://doi.org/10.1007/s40032-019-00514-0>. **(Publisher: Springer), (SCOPUS and SCI)**. **(Q1 Journal)**.
 20. Ravikumar, V, Senthilkumar, D., and **Solaimuthu, C.**, Evaporation rate and engine performance analysis of coated diesel engine using Raphanus sativus biodiesel and its diesel blends, **International Journal of Ambient Energy**, Vol. 38 (2), PP. 202-208, 2017, doi.org/10.1080/01430750.2015.1086673. **(Publisher: Taylor and Francis), (SCI)**. **(Q1 Journal)**.
 21. **Solaimuthu, C.**, and Govindarajan, P, *Performance evaluation of a urea-water selective catalytic reduction (SCR) for a diesel engine with mahua biodiesel*, **Energy Sources, Part A, Recovery, Utilization and Environmental effects**, Vol. 37, (13), pp. 1424-1431, June 2015, doi.org/10.1080/15567036.2011.621012. **(Publisher: Taylor and Francis), (SCOPUS and SCI)**. **(Q1 Journal)**.

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22. **Solaimuthu, C.**, Ganesan, V., Senthilkumar, D., and Ramasamy, K.K., *Experimental investigation of Emission reductions studies of a biodiesel engine using EGR and SCR for agriculture operations in developing countries*, **Applied Energy**, Vol. 138, pp. 91-98, Jan 2015, doi.org/10.1016/j.apenergy.2014.04.023. (Publisher: Elsevier), (SCOPUS and SCI). (Q1 Journal).
23. **Solaimuthu, C.**, Senthilkumar, D., Raghavan, V., and Saravanan, C.G., *Experimental investigation of evaporation rate and emission characteristics of Mahua (Madhuca Indica) biodiesel and its blend with diesel*, **International Journal of Green Energy**, Vol. 12 (6), pp. 635-640, 2015, 10.1080/15435075.2013.871723. (Publisher: Taylor and Francis), (SCOPUS and SCI). (Q1 Journal).
24. **Solaimuthu, C.**, Senthilkumar, D., and Ramasamy, K.K., *An experimental investigation of performance, combustion and emission characteristics of Mahua (Madhuca Indica) oil methyl ester on four-stroke direct injection diesel engine*, **Indian Journal of Engineering and Materials Sciences (IJEMS)**, Vol. 20, pp. 42-50, 2013. (Publisher: NISCAIR), (SCOPUS and SCI). (Q1 Journal).
25. **Chandrakasan Solaimuthu** and Palanisamy Govindarajan. *Effect of injection timing on the performance, combustion and emission characteristics of diesel engine using mahua oil methyl ester in different volumetric proportions as fuel*, **Journal of Science and Industrial Research (JSIR)**, Vol.71, pp. 69-74, Jan 2012, <http://hdl.handle.net/123456789/16155>. (Publisher: NISCAIR), (SCOPUS and SCI). (Q2 Journal).
26. Ravikumar, V., Senthilkumar, D., and **Solaimuthu, C.**, *An experimental investigation of the performance and emissions of an Al-20% SiC coated single cylinder diesel engine with Madhuca Indica biodiesel blends*, **International Journal of Ambient Energy**, Vol. 34 (3), pp. 131-137, 2013, doi: 10.1080/01430750.2012.740427. (Publisher: Taylor and Francis), (SCOPUS and SCI). (Q2 Journal).
27. **Solaimuthu, C.**, Senthilkumar, D., and Ganesan, V., *Effect of static injection timing on the performance and emissions of diesel engine with blends of Mahua biodiesel*, **International Journal of Mechanical and Material Engineering (IJMME)**, Vol. 7 (1), pp. 89-95, Feb 2013. (Publisher: University of Malaya), (SCOPUS and SCI). (Q3 Journal).
28. **Solaimuthu C.**, Vetrivel, P and Subbarayan, MR., A study of diesel engine fueled with Madhuca Indica biodiesel and its blend with diesel fuel, **International Journal of Modern Engineering. & Research**, Vol. 4 (10), pp. 43-46, Oct 2014. (Publisher: IJMER), (Approved by UGC).
29. **Solaimuthu, C.**, Chitra, S., Rajasekaran, P., Jagadeeshkumar, G., Pradeep, P.C., Raqibudeen, N., and Vikram, M., *A Study of Performance and Emissions of Diesel Engine Fuelled with Blends of Cotton Seed Oil Methyl Ester and Petro-Diesel*, **International Journal of Modern Engineering Research**, Vol. 4, (1), pp. 30-34, Jan 2014. (Publisher: IJMER), (Approved by UGC).
30. **Solaimuthu, C.**, Vikram, M., and Jagadeeshkumar, G., *An experimental and analytical Study of Emissions characteristics of a Diesel Engine Fuelled with Cotton Seed Oil Methyl Ester and Petro-Diesel for different static injection timings*, **International Journal of Research in Engineering & Science (IJRES)**, Vol. 2 (5), pp. 37-41, June 2014.
31. **Solaimuthu, C.**, Senthilkumar, S., Ameen, A., Devendiran, M., Dhruva Kumar, S., and Naveen Raj, E., A Study of Performance of Bio-Gas Plant, *Discovery Journal*, Vol. 12 (30), pp. 36-40, March 2014.
32. **Solaimuthu, C.**, Ashfaque Ahmed, S., Vinoth, M., Gowri Shankar, V., Nandha Kumar, N., and Karmegan, C., An Experimental Study of Production and Properties of Animal Fats Biodiesel, *International Organization of Science Research Journal of Mechanical & Civil Engineering (IOSR-JMCE)*, Vol. 11 (1), pp. 84-87, Feb 2014.

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33. Solaimuthu, C., Vetrivel, P., Subbarayan, MR and Channankaiah, *Effect of nozzle opening pressures on diesel engine fuelled with Madhuca Indica biodiesel and its blend with diesel fuel*, Indian Journal of Engineering (IJE), Vol. 7 (17), pp. 14-22, Jan 2014.
34. Solaimuthu, C., Chitra, S., Rajasekaran, P., Abhijit, B., Jayaprakash, G., Arunkumar, V., and Lokesh, R., *NO_x Reduction of Diesel Engine with Madhuca Indica biodiesel using Selective Catalytic Reduction (SCR) in different flow rates*, International Organization of Science Research Journal of Mechanical & Civil Engineering (IOSR-JMCE), Vol. 10 (5), pp. 28-34, Jan 2014.
35. **Solaimuthu, C.**, Karthikeyan, R., and Balakrishnan, N., *A Study of Performance and Emissions of diesel engine fueled with neat Diesel and neat Hydnocarpus Pentandra biodiesel*, **International Organization of Science Research Journal of Mechanical & Civil Engineering (IOSR-JMCE)**, Vol. 10 (2), pp. 53-57, 2013.
36. **Chandrakasan Solaimuthu** and Palanisamy Govindarajan, *Experimental investigation of performance and emission characteristics of CI engine with various blends of Madhuca Indica biodiesel using EGR*, **International Journal of Green Energy, Energy and Environment (IJGEEE)**, Vol. 3 (1), pp. 13-18, 2012.
37. **Solaimuthu, C.**, Murugu Mohan Kumar, K., and Sarangan, J., *Selection of biofuel for internal combustion engine*, **Engineering Today**, Vol. 6 (1), pp. 19-22, Oct 2014.
38. **Solaimuthu, C.**, Murugu Mohan Kumar, K., and Sarangan, J., *Study of performance characteristics of C.I engine using esters of various vegetable oil*, **Engineering Today**, Vol. 6 (1), pp. 23-27, Oct 2014.

LIST OF CONFERENCES:

1. **C Solaimuthu**, Sujay J, Srikar Smaran R, Deepashree D, Gauthami G, Design and fabrication of electro-magnetic braking system for two-wheeler, International Conference on Mechanical & Production Engineering (ICMPE), Proceedings of WRFER International Conference, Bangalore, India, pp. 45-50, 9th March, 2025.
2. Nikhil K V, Justin Raj, Lokesh P, Raghavendrareddy N V, **Solaimuthu C**, Rudresh Kumar K J, "Experimental Studies of a Parabolic trough Collector Using Solar Evacuated Tube with Nanofluids for Heating Applications", Fifth International Conference entitled "Emerging Research in Civil, Aeronautical and Mechanical Engineering (ERCAM-2024)" to be held on 12 & 13 December, 2024 at NITIE Meenakshi Institute of Technology, Bangalore. (Accepted for Conference Presentation).
3. **Solaimuthu, C.**, Lokesh P, Bala Krishnan, Kumar M, Sharath G, Akshit Kochhar and Gaurav Bhandary M, Uses of Renewable Fuel, 2nd National Conference on Digital Technology and Engineering (NCDTE'24) 2024, 02.05.2024 to 03.05.2024 at RV Institute of Technology and Management, Bengaluru.
4. Dheeraj K R, Gourav Rao, M Abijith, Venu Gopal and **Solaimuthu C**, Production of Bio-Diesel from Non-Edible (Cotton-Seed) Oil, 2nd National Conference on Digital Technology and Engineering (NCDTE'24) 2024, 02.05.2024 to 03.05.2024 at RV Institute of Technology and Management, Bengaluru.
5. **C. Solaimuthu**, P. Lokesh, Shashank Karigowda and Chirag L, Performance evaluation of multi-cylinder diesel engine fueled with blends of methyl ester of used vegetable oil, 29th International Conference on Processing and Fabrication of Advanced Materials (29th PFAM 2023), OP_4_213, 06-08th September 2023, IIT Tirupati, Andra Pradesh.
6. **Solaimuthu Chandrakasan**, Lokesh P, Akshay Kumar S and Karthik Raj D S, "Static fuel injection timing's effect on emissions of madhuca indica bio-diesel mixtures as fuel to operate direct injection diesel engine" international conference on Smart and Sustainable

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- developments in materials, Manufacturing and energy engineering (sme-2022) organized by department of Mechanical Engineering, NMAM Institute of Technology, from 22-23 December 2022. Karkala, Karnataka, India.
7. **Solaimuthu C**, Lokesh P, Shshank Karigouda and Saikumar Rachotti, A qualitative study of compression ignition engine fuelled with mixtures of madhuca indica bio-diesel with hot and cold EGR Techniques, Proceedings of the 1st International conference in fluid thermal and energy systems June 9-11, 2022, NIT Calicut, Kerala, India, ICFTES 2022–TS–060.
 8. **Solaimuthu C**, Lokesh Paradeshi, Abhay Surya M and Arkesh P, A comparative study between hot exhaust gas recirculation and conventional compression ignition engine fuelled with mahua oil mixtures, submission id: 311, 24-25 June 2022, International Conference on Recent Developments in Mechanical Engineering – ICRDE 2022, SIT, Tumkur, Karnataka, India.
 9. **Solaimuthu C**, Lokesh P, Manik Rajangale, Raghavendra Reddy N V and Shashank K, A qualitative comparative study of multi-cylinder conventional compression ignition engine using neat schleicher oleosa (kusum) bio-diesel and neat diesel as fuel, 4th national conference on recent advancement in physical sciences (ncraps-2022) 19-20th December 2022, national institute of technology uttarakhand (NITU).
 10. **Solaimuthu C**, Lokesh P, Gourav Rao, M Abhijith, and Dheeraj K R, "An experimental investigation of multi-cylinder diesel engine fuelled with various proportions of madhuca indica (mahua) methyl ester and base fuel" International Conference on Recent Advances in Fluid Mechanics and Nano-electronics organized by Manipal institute of Technology Bengaluru in Association with National Institute of Technology, Uttarakhand August 12-14, 2023.
 11. **Solaimuthu C**, Lokesh P, Abhay Surya Mahesh, Akshay Kumar S and Karthik Raj D S, Performance evaluation of multi-cylinder diesel engine fuelled with blends of methyl ester of used vegetable oil, Abstract ID: 213, 29th Processing and Fabrication of Advanced Materials, IT Tirupathi (abstract accepted for publications), 6-8th September 2023.
 12. **Solaimuthu C**, and Lokesh P, "An experimental investigation of multi-cylinder diesel engine fuelled with various proportions of madhuca indica (mahua) methyl ester and base fuel, National Institute of Technology Calicut (NITC), 2023 (in-pipe).
 13. **Solaimuthu C**, V. Ganesan and S. V. Prakash, *Optimization of SCR flow rate for controlling the NO_x emissions of C.I Engine fuelled with Madhuca Indica biodiesel*, XXIV Nat Con on IC Engines and Com, NCICEC, 2015, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, pp. 107-111, 30th Oct-1st Nov 2015.
 14. **Chandrakasan Solaimuthu** and Palanisamy Govindarajan, *The experimental investigation of performance and emission characteristics of CI engine with various blends of Madhuca Indica biodiesel using EGR*, XXII Nat Con on IC Engines and Com, NCICEC, 2011, National Institute of Technology (NIT), Calicut, Kerala, India, pp.10-13, December 2011.
 15. **Chandrakasan Solaimuthu**, Palanisamy Govindarajan and Perumal Elumalai, *Performance, Combustion and Emission characteristics of Mahua (Madhuca Indica) Biodiesel in different blends on Direct Injection Diesel Engine*, Int Con on Renewable Engg and Tech (iCORET 2011), PSG College of Technology, Coimbatore, Tamil Nadu, India, pp. 159-161, December 2011.
 16. **Chandrakasan Solaimuthu** and Palanisamy Govindarajan, *Combustion and Emission characteristics of diesel engine using Mahua (Madhuca Indica) biodiesel as fuel*, Pro Int Con on Adaptive Technologies for Sustainable Growth (ICATS 2011), Paavai Engineering College, Namakkal, Tamil Nadu, India, pp. 465-469, June 16–18, 2011.

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17. **Solaimuthu C**, and P. Govindarajan, *Performance and combustion characteristics of diesel engine using cotton seed biodiesel as fuel*, Nat Con on I.C Engines and Com, Sri Siddhartha Institute of Technology, Tumkur, KA, India, pp. 34-42, Dec 2004.

LIST OF PATENTS & COPYRIGHTS:

S. No	Name of the Country	Filed	Published	Granted	Total
1	German Utility Patents	Nil	Nil	04	04
2	Australian Design Patents	Nil	Nil	02	02
3	UK Design Patents	Nil+01	Nil	06	06+01
4	South Africa Patents	01	Nil	Nil	01
5	Indian Design Patents	30+08	06	28	64+08
6	Indian Utility Patents	Nil	02	Nil	02
7	Indian Copyright	01+01	Nil	Nil	01+01
8	Canada Copyright	Nil	Nil	05	05
Total Count		32+10	08	45	85+10= 95

List of German Patents:

1. **Dr. Solaimuthu Chandrakasan**, Dr. Chethan Venkatesh, Dr. Marlakunta Mrunalini, Dr. Mokashi Bhargavi Desai, Dr. Nagaraju Shamanth, Dr. Nanjundaiah Kavitha, Dr. Shailendra Roopashree and Dr. Sunil Bhat, An Intelligent Anomaly Detection System for IoT Networks Using Edge Computing and Deep Learning, German Utility Model Patent File Number: 20 2025 102 503.5, Filed on 07.05.2025, **(Granted on 05.06.2025)**.
2. **Dr. Solaimuthu Chandrakasan**, Dr. Annadurai Anandaraj, Dr. Dharuman Salangai Nayagi, Dr. Lella Kranthi Kumar, Mrs. Maddur Gopal Shruthi, Dr. Palanisamy Saravanan, Dr. Manjunatha Prasad Ramasamy and Dr. Pappaiah Jesu Antony Alphonse, A Machine Learning-Driven Real-Time Patient Monitoring and Health Risk Prediction System, German Utility Model Patent File Number: 20 2025 102 711.9, Filed on 16.05.2025 **(Granted on 08.07.2025)**.
3. **Dr. Solaimuthu Chandrakasan**, Mrs. Chempavathy Balaji, Dr. Srividhya Ganesan, Mrs. Maithili Kari Lakshmi, Dr. Umashanker Lingamuthoo, Dr. Byra Reddy, Mrs. Fathima Shahul Hameed and Dr. Sridhar Nagaraj Shastry, AI based adaptive traffic signal control system for urban mobility optimization, German Utility Model Patent File Number: 20 2025 104 977.5, Filed on 25.08.2025 **(Granted on 23.09.2025)**.
4. **Dr. Solaimuthu Chandrakasan**, Dr. Anil Kumar Bhaskar, Dr. Latha Channagiri Anandachary, Dr. Sasikala Nagarajan, Dr. Smitha Jolakula Asoka, Dr. Srividhya Ganesan, Dr. Sri Lavanya Priya Sathyan and Mr. Thejas Chittapuram Madhusudan, Hybrid Renewable Energy Management System using IoT and AI for grid stability, German Utility Model Patent File Number: 20 2025 105 537.6 Filed on 17.09.2025 **(Granted on 18.11.2025)**.

List of Australian Patents:

1. **Dr. Solaimuthu Chandrakasan**, Dr. Roopashree Shailendra, Dr. Rashmi Ramrao Deshpande, Mrs. Nivedita Sudhanva Desai, Dr. Bangalore Rangappa Veena, Dr. Murigendrayya Malleshaiyya Hiremath, Dr. Kinny Garg and Mrs. Srividhya Vellore

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Ramani, Smart Wearable Device for Health Monitor, Australian Patent, Application Number: 202514791, Filed on 19.06.2025 (**Granted on 02.08.2025**).

2. **Dr. Solaimuthu Chandrakasan**, Dr. Nagashettappa Biradar, Dr. Sridhar Nagaraj Shastry, Mr. Rakesh Rajashekar, Dr. Salangai Nayagi Dharuman, Dr. Shamanth Nagaraju, Mrs. Nivedita Sudhanva Desai and Dr. Sunil Bhat, Device for Cyber Threat Detection, Australian Patent, Application Number: 202514854, Filed on 31.05.2025 (**Granted on 07.08.2025**).

List of UK Patents:

1. **Dr. Solaimuthu Chandrakasan**, Dr. Manjunatha Prasad Ramaswamy, Mrs. Namrata Brahamaprakash, Mrs. Pallavi Kandibilla Nagaraja Naidu, Ms. Shilpa Sannamani, Mrs. Chaitra Somappaiah Prasad, Dr. Vinoth Kumar Madhaiyan and Dr. Subramaniaswamy Vairavasundaram, AI Based Smart Pharmacological Testing Device for Evaluation of Drug Efficacy and safety, UK Design Patent Application Number: 6437967, 15.04.2025 (**Granted on 23.04.2025**).
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63. Dr. Surbhi Agrawal, **Dr. C. Solaimuthu**, Dr. A. P. Sathiyagnanam, Dr. K. Kavitha, Dr. R. A. Sankaran, Dr. T N Sreenivasa, Dr. Sreenivas S and Mr. Santosh Pawan K, ML-Based Device for Automatic Brake Control and Safety, Application Number: **499535-001, 21.04.2026, (Filed on 25.04.2026)**.
64. Ms. Inchara K P, Ms. Srushti C S, Mr. Shreevatsa D S, Dr. Rajashekar Matpathi, Mr. Deepak Dixith, Dr. Sharan Shegedar, **Dr. C. Solaimuthu** and Dr. Sunil Bhat, ML Based Device for Detection of Road Anomaly in Autonomous Vehicles, Application Number: **499817-001, 22.04.2026, (Filed on 27.04.2026)**.
65. **Dr. C. Solaimuthu**, Dr. K. Rama Narasimha, Dr. Srinivasa C H, Dr Theerthananda M P, Ms. Impa K A, Dr. Parashuram A Kutakanakeri, Mr. Harisha P and Mr. Ashok G Gadavi, IoT Device for Predictive Water Leakage Detection, Application Number: 500386-001, **(Filed on 30.04.2026)**.
66. **Dr. C. Solaimuthu**, Dr. Sangappa, Dr. Y. Venkatramana Reddy, Dr. M. Dhanalakshmi, Dr. Kavitha N, Mrs. Namrata Brahamaprakash, Dr. Prathibha Kiran and Dr. T. Rangaswamy, ML-Based Device for Driving Policy Learning in Autonomous Vehicles, Application Number: 500615-001, **(Filed on 02.05.2026)**.
67. **Dr. C. Solaimuthu**, Dr. Roopashree S, Dr. Adarsha Sagar H V, Dr. Randhir Kumar, Dr. Chaya P, Mrs. Rekha B S, Mrs. Samatha R Swamy and Dr. Vikash Kumar, Smart Device for Detection of Forest Fire, Application Number: **(Submitted on 01.05.2026)**.
68. **Dr. C. Solaimuthu**, Dr. Pappaiah Jesu Antony Alphonse, Dr. Manoranjan Gandhudi, Dr. G. R. Anil, Dr. Kavitha N, Dr. Nandita Bangera, Ms. Ananya Raghuv eer and Dr. Prathibha

Resume of Dr. C. SOLAIMUTHU

Kiran, ML-Based Device for Harmful Reptile Detection and Alert Generation, Application Number: **(Submitted on 01.05.2026)**.

69. **Dr. C. Solaimuthu**, Dr. Annie Sujith, Mrs. Priyanka K R, Mrs. Kaveri, Dr. Jenitta J, Dr. Vijayapriya, Dr. Sunil Bhat and Dr. D. Salangai Nayagi, ML- Based Device for Voice Command Recognition, Application Number: **(Submitted on 01.05.2026)**.
70. **Dr. C. Solaimuthu**, ML-Based Device for Personal Data Privacy Protection, Application Number: **(Submitted on 04.05.2026)**.
71. **Dr. C. Solaimuthu**, ML-Based Device for Secure Digital Information Privacy Management, Application Number: **(Submitted on 04.05.2026)**.
72. **Dr. C. Solaimuthu**, AI-Based Device for Chemical Storage Safety Monitoring, Application Number: **(Submitted on 11.04.2026)**.
73. **Dr. C. Solaimuthu**, AI-Based Device for Signature Verification Using Image Processing, Application Number: **(Submitted on 11.04.2026)**.
74. **Dr. C. Solaimuthu**, AI-Based Device for Legal Document Analysis, Application Number: **(Submitted on 01.05.2026)**.

COPYRIGHTS:

List of Canada Copyright:

1. Dr. Ranu Pandey, Mr. Prachi Parashar, Dr. Sachin Harne, Mr. Pavan Chowdary Ravipati, Dr. Jyoti Neeli, Dr. Rakesh Kumar Khare, Dr. Jaidev Gehija, **Dr. C. Solaimuthu**, Reinventing Industry 5.0: AI and IoT for Human-Centric Healthcare and Automation, Canada Copyright Application Number: 1235935, Canada Copyrights, **Granted on 18.08.2025**.
2. **Dr. C. Solaimuthu**, Prof. Dr. Khalid Ahmed Aldhorae, Dr. Vinod Kumar Yadav, Mr. Arunesh Pratap Singh, Dr. Sricheta Parui, Mr. Parbhat Gupta and Dr. Arjuna Muduli, Revolutionizing Industry 5.0: AI and IoT for Personalized Healthcare and Smart Automation, Canada Copyright Application Number: 1235955, Canada Copyrights, **Granted on 18.08.2025**.
3. **Dr. C. Solaimuthu**, Dr. Nagashettappa Biradar, Dr. R. Manjunatha Prasad, Dr. Meena Deshpande, Dr. Shanthala K, Dr. Kavitha N, Dr. D. Salangai Nayagi and Dr. Roopashree Shailendra, AI-Driven Framework for Natural Language Understanding in Multilingual Chatbots, Canada Copyright Application Number: 1236758, Canada Copyrights, **Granted on 12.09.2025**.
4. **Dr. C. Solaimuthu**, Dr. Bhargavi Mokashi, Mr. Madhukar M, Mr. Nagesh kumar. D N, Mrs. Nivedita S Desai, Dr. Roopashree Shailendra, Dr. Sapna V M and Dr. Sivagamasundari G, IoT enabled framework for real time smart healthcare monitoring, Canada Copyright Application Number: 1237307, Canada Copyrights, **Granted on 23.09.2025**.
5. **Dr. C. Solaimuthu**, Dr. R. Amutha, Dr. Chethan Venkatesh, Dr. M. Prabhakaran, Dr. E. Kavitha, Dr. Latha C A, Dr. Surbhi Agrawal and Dr. Srividhya G, AI-Driven Io Framework for Vehicle-To-Everything (V2x) Communication in Self-Driving Cars, Canada Copyright Application Number: 1237352, Canada Copyrights, **Granted on 24.09.2025**.

List of Indian Copyright:

1. **Dr. C. Solaimuthu**, Dr. Nagashettappa Biradar, Dr. Manjunatha Prasad R, Dr. Gajanan M Naik, Dr. Nandita Bangera and Mrs. Nivedita S Desai, AI-driven multi-layer cyber security

Resume of Dr. C. SOLAIMUTHU

framework for smart cities, Indian Application Number: LD-34860/2025-CO, Indian Copyrights, **Filed on 18.09.2025.**

2. **Dr. C. Solaimuthu**, Agentic AI-Based Healthcare Platform for Personalized Patient Health Tracking And Secure Medical Record Management, Application Number: LD-34860/2025-CO, Indian Copyrights, Submitted on 28.04.2026.

LIST OF BOOKS:

1. Dr. Sunil Bhat and **Dr. C. Solaimuthu**, Solution of Some Practice Numerical on Machine Design for Undergraduate Engineering Students, Book Rivers, April 2026, ISBN: 978-93-7837-095-3.
2. **Dr. C. Solaimuthu**, Prof. Padmavati E Gundgurti, Prof. Poornima E Gundgurti and Dr. Vijayakumar Chalwa, Fundamentals of Robotics and Artificial Intelligence by REST Publisher India (P) Limited, Tamil Nadu, Oct 2024, ISBN: 978-81-981283-2-4.
3. **Dr. C. Solaimuthu**, Dr. Pavan Kumar B K and Dr. Pradeep Kumar G S, Basics of Automobile Engineering, Lambert Academic Publishing, Oct 2024, ISBN: 978-620-8-22458-5.
4. **Dr. C. Solaimuthu**, Dr. S. Sivasankar, Dr. P. Mahalakshmi and Dr. R. Saravanan, Operations Management, HSRA Publishers (P) Ltd., Bengaluru, Nov 2024, ISBN: 978-93-5506-920-7.
5. **Dr. C. Solaimuthu**, Dr. A. P. Sathiyagnanam, Dr. M. Prabhakaran and Dr. Raghavendra Reddy N V, Fundamentals of Internal Combustion Engines, HSRA Publishers (P) Ltd., Bengaluru, Nov 2024, ISBN: 978-93-5506-949-8.
6. **Dr. C. Solaimuthu**, Dr. Lokesh P, Dr. Hareesh Kumar and Dr. S. Rajesh Kana, Autonomous Vehicles, HSRA Publishers, Bengaluru, Jan 2025, ISBN: 978-93-5506-718-0.
7. **Dr. C. Solaimuthu**, Dr. R. Thirumaleswara Naik, Dr. T. N. Sreenivasa, Dr. A. P. Sathiyagnanam and Basic Thermodynamics, HSRA Publishers (P) Ltd., Bengaluru, Feb 2025, ISBN: 978-93-6850-601-0.
8. **Dr. C. Solaimuthu**, Dr. Lokesh P, Dr. M. R. Subbrayan and Dr. Dadapeer B, Renewable Energy Power Plants, HSRA Publishers (P) Ltd., Bengaluru, April 2025, ISBN: 978-93-6850-414-6.
9. **Dr. C. Solaimuthu**, Dr. Prashant P. Patavardhan, Dr. Mallanagouda Patil & Dr. Roopa R. Kulkarni, Indian Knowledge System for Engineers, HSRA Publishers (P) Ltd., Bengaluru May 2025, ISBN: 978-93-6850-748-2.
10. **Dr. C. Solaimuthu**, Dr. D. Salangai Nayagi, Dr. Roopasharee S & Prof., Shruthi M G, The Basics of Robotics, HSRA Publishers (P) Ltd., Bengaluru, June 2025 ISBN: ISBN: 978-93-6850-205-0.
11. **Dr. C. Solaimuthu**, Dr. Nagashettappa Biradar, Dr. Manjunatha Prasad R & Dr. Kavitha N, Introduction to Mechatronics, Technical Press, Bhopal, September 2025, ISBN: 978-81-987126-0-8.
12. **Dr. C. Solaimuthu**, Dr. Lokesh P, Prof. Rakesh R, Dr. Shanmukha Nagaraj, Introduction to Non-Traditional Machining, HSRA Publishers (P) Ltd., December 2025, ISBN: 978-93-6850-514-3.

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LIST OF BOOKS CHAPTER:

1. V. Moorthi, **C. Solaimuthu***, S. Gopinath, Abdullah Alqammaz, C. Durga Prasad, R. Sibinraj, M. K. Chandru & Jayant Giri, Operation of a Multi-cylinder Diesel Engine Fuelled with Schleichera Oleosa Bio-diesel and Conventional Fuel, vol 594. Pp. 2131-2040, Springer, Nov 2025, https://doi.org/10.1007/978-3-031-89771-9_154.
2. Varun KR, Rashmi KR, S. Mohan Kumar, Aprameya CR, Mohd Hamid Hussain, Mahadeva Prasad and **C. Solaimuthu**, Effect of Sustainable Materials to Combat Friction and Wear Behaviour in EVs and HEVs Components using Advanced Surface Processing Techniques, CRC press, Taylor and Francis, Scopus indexing, June 2025 (**Accepted for Publications and In-Press**).
3. Aprameya C R, **C. Solaimuthu**, Ravi Kumar D V, "Role of Directed Energy Deposition Methods to Improve Mechanical and Metallurgical Properties of HEAs", Accepted for publication in book Chapter, Springer Nature, Nov 2025 (**Accepted for Publications and In-Press**).

LIST OF REPUTED JOURNALS REVIEWER

I have been acting as Reviewer for Peer Review Journals such as

- Alexandra Engineering Journal, Elsevier
- Applied Energy, Elsevier
- Biomass and Bioenergy, Elsevier
- Evise, Elsevier
- Frontiers, Springer
- Fuel, Elsevier
- Renewable and Sustainable Energy Reviews, Elsevier
- Energy Technology & Technology, Taylor and Francis
- International Journal of Ambient Energy, Taylor and Francis
- International Journal of Green Energy, Taylor and Francis
- International Journal of Sustainable Energy, Taylor and Francis
- International Journal of Sustainable Engineering, Taylor and Francis
- International Journal of Exergy, Inderscience Publication
- International Journal of Biotechnology Research
- International Journal of Engineering Research, India
- International Energy Journal, Asian Institute of Technology
- Journal of Renewable and Sustainable Energy, American Institute of Physics (AIP)
- Journal of Engineering Science and Technology, Taylor's University
- Journal of Advances in Mechanical Engineering and Science (JAMES), DJ Publications
<http://www.djjames.in/index.php/stage/reviewerlist/>

Nearly 54 Peer Reviewer Journal articles have been reviewed by me and the report submitted to the Journal authority.

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External Connect:

First Thesis has been evaluated by me during the month of May/June 2022

- Title of the Thesis : Effect of antioxidant additives on NO_x emissions from different methyl ester fueled DI diesel engine
- Name of the University : Annamalai University, Chidambaram, Tamil Nadu

Second Thesis has been evaluated by me during the month of Jan/Feb 2023

- Title of the Thesis : Investigation on performance, combustion and emission characteristics of bio-fueled diesel engine
- Name of the University : VELS University, Chennai, Tamil Nadu

U.G Program Question Paper has been prepared by me and submitted to NITTE, Bengaluru on 16.05.2023

- Title of the Subject : Automobile Engineering, Hybrid Electric Vehicles
- Subject Code : 18MEE821
- Name of the College : NITTE Meenakshi Institute of Technology (Autonomous), Bengaluru

ORCID : 0000-0001-5252-1797

SCOPUS Author ID : 54882362300

Web of Science Researcher ID : AAS-7521-2021

Scopus Preview Metrics overview as on 04.05.2026

Documents by author : 21
Citations : 243 documents Citations by 218 Documents
h-index : 8

Web of Science Metrics overview as on 04.05.2026

Reference Number : AAS-7521-2021
Web of Science Publications : 9
Total Times Cited : 141
h-Index : 7
Verified reviews : 8
Citing Articles : 130

Research Gate (RG) as on 04.05.2026

Research Interest Score : 201.8
Citation : 282
H-Index : 8

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Google Scholar Citation as on 04.05.2026

	All	Since 2020
Citations	368	187
h-index	10	8
i10-index	10	6

Consultancy Activities

- **Rs. 5, 00, 000/-** worth consultancy work is doing on Mechanical Design Work, Swan Sorter (P) Ltd., Bannerghatta Road, Bengaluru since March 2026.

FUNDING PROPOSALS

- **Rs. 5, 500/-** has been sanctioned by Karnataka state council for science and technology (KSCST), Bangalore, 2024.
- **Rs. 6,000.00** has been received from Karnataka State Council for Science and Technology (KSCST), IISc, Bangalore for U.G Students' project "Operation of Diesel Engine fuelled with bio-diesel and its various blends after incorporating with Exhaust Gas Re-circulation (EGR) Technique, 2021.
- **Rs. 8,000.00** has been received from Karnataka State Council for Science and Technology (KSCST), IISc, Bangalore for P.G Student project "Design and Fabrication of Selective Catalytic Reduction (SCR)", 2016.
- CSIR Seminar grants of **Rs. 30,000.00** (Two-day) National Level Seminar to be conducted between 1st and 2nd Feb 2013 at Paavai Engineering College under my project proposal.
- DRDO, ISTE STTP funding proposals applied. Waiting for response.

ROLES AND RESPONSIBILITY:

ACADEMIC:

- Bio-diesel production plant has been established and produced the bio-diesel for the successful operation of single and multi-cylinder diesel engine in Energy Conversion Laboratory in the department of Mechanical Engineering, AMCEC.
- A multi-cylinder diesel engine has been established and kept in Engines Laboratory to operate the diesel engine fueled with diesel, bio-diesel and its various blends.
- I was acting as an external examiner for Ph.D Viva-Voce Examination for one research scholar in Annamalai University, Chidambaram, Tamil Nadu. The details are indicated below:
A Thesis entitled "Effect of antioxidant additives on NO_x emissions from different methyl ester fueled DI diesel engine" has been evaluated by me during the month of May/June 2016.
- I have been acting as Department Research co-ordinator since 2016-2017.

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- I have been acting as key instrumental person to conduct AMCEC research Ph.D Viva-Voce Examinations since 2016-2017 academic year.
- I have organized one-day webinar (online seminar) talk on “Current and Future Developments in Automotive Engines” during COVID’19 lockdown period (16th July 2020 @ 11.00 am). The following Guest of Speakers invited for seminar talk as listed below: (i) Dr. V. Ganesan, Professor (Emeritus), IIT Madras and (ii) Dr. R. Nedunchezhlian, Professor, Dept. of Automobile Engineering, Institute of Road and Transport Technology (IRTT), Erode, Tamil Nadu. More than 400 participants have participated and benefited.

NON-ACADEMIC:

- I have been acting as e-attestation Nodal Officer and approval officer for State Scholarship Portal (SSP) since 2019-2020 academic year.
- Department Co-ordinator for National Board of Accreditation (NBA)
- Department Co-ordinator for National Assessment Accreditation Council (NAAC) Criterion 3 Co-ordinator in department level.
- Department co-ordinator for Local Inquiry Committee (LIC) since 2016-2017 academic year.
- Co-ordinator for Second National Level Student Paper Presentation and Project Exhibition in Mechanical Engineering which was held on 16.05.2019.
- I have been acting as Proctor for I year CSE “C” Section Students. I conduct online/offline meeting to get their problems/feed-back. The problems will be solved then and there.

DETAILS OF REVIEWERS

I have been acting as Reviewers in **14 different Journals** including, **Elsevier, Taylor and Francis, Indersciences** etc.

AWARDS

1. *Best Presentation Award won by me in National Conference on I.C Engines held at Sri Siddhartha Institute of Technology, Tumkur, KA, Dec 2004.*
2. *Best Technical Paper Award won by me in National Conference on I.C Engines held at National Institute of Technology, Calicut, December 2011.*
3. *100% results production in 15 different subjects (both U.G and P.G).*

<u><i>U.G Level</i></u>	<u><i>P.G Level</i></u>
<i>Engineering Graphics</i>	<i>Advanced I.C Engines</i>
<i>Engineering Mechanics</i>	<i>Alternative fuel for I.C Engines</i>
<i>Engineering Thermodynamics</i>	<i>Engineering Metrology and Measurements</i>
<i>Thermal Engineering</i>	<i>Instrumentation in Thermal Engineering</i>
<i>Gas Dynamics and Jet Propulsion</i>	<i>Design of Heat Exchangers</i>
<i>Heat and Mass Transfer</i>	<i>Fuels and Combustion and Advanced Heat Transfer</i>
<i>Power Plant Engineering</i>	
<i>Turbo Machines</i>	
<i>Innovation and Design Thinking (IDT)</i>	
<i>Energy and Environment</i>	

Resume of Dr. C. SOLAIMUTHU

RESPONSIBILITY/GUEST LECTURE EXPERIENCE

- *Key note address for faculty forum on Biodiesel for Diesel engines at Annamalai University, Chidambaram, Tamil Nadu*
- *Pedagogy Training Course presented for both Faculty and Students in State Level*
- *Guest Lecture on Engineering Graphics in State Level Engineering Colleges of Tamil Nadu*
- *Co-ordinator for Research Centre*
- *Co-ordinator for National Board of Accreditation (NBA)*
- *National Service Scheme (NSS) Programme Officer from 2006 to Jan 2011.*

PERSONAL DETAILS

Gender : Male
Native Place : Salem
Marital Status : Married
Spouse's Status : Qualified and Home Maker
Blood group : O Positive
Language Known : Tamil, English and Hindi (up to Rastrabasha)
Nationality : Indian
Religion : Hindu

REFERENCES

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(Dr. C. SOLAIMUTHU)