

FACULTY PROFILE

Dr.V.Gnanamoorthi

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Date of Birth : 15-05-1978

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Villupuram -605602

Educational Qualification:

- Ph.D., (I.C Engine) (2014), Madras Institute of Technology, Anna University, Chennai.
- M.E (Automobile Engineering) (2006), Madras Institute of Technology, Anna University, Chennai.
- B.E (Mechanical Engineering) (2000), Sri Muthukumaran Institute of Technology, Chennai, University of Madras, Chennai.
- D.M.E (Mechanical Engineering) (Hons.) (1997), MeenakshiAmmal Polytechnic college, Uttiramerur.

Teaching Experience : (19 years 03 months)

- Assistant Professor / Mechanical: University College of Engineering Villupuram (Anna University, Chennai). (**11th August 2008 -Till date**)
- Visiting Faculty/ Automobile Engineering ,Madras Institute of Technology, Anna University, Chennai.(**28th January 2008 to 8th August 2008**)
- Senior Lecturer / Mechanical: Meenakshi College of Engineering, Chennai. (**1st July 2002-27th January 2008**)

Area of Interests:

- I.C Engine
- Combustion
- Alternative fuels
- Thermal barrier coating

Title of thesis at Doctoral level: Experimental investigation on the performance and emission characteristics of a DI diesel engine using different proportions of ethanol in ethanol diesel blend.

Title of thesis at Master's level: Effect of oxygenated compounds on performance characteristics and emission levels of direct injection diesel engine.

Membership in Professional bodies

- The Indian Society for Technical Education
- Combustion Institute (India)
- SAE India

Academic Contributions

- International Conference organized :08
- Faculty development Courses organized : 05
- Ph.D., Scholar completed : 02
- Ph.D., Scholar under guidance : 04
- M.E. Projects guided : 25
- B.E. Projects guided : 22 Batches

Publications

- International Journals: 35
- National Journals: 3

Published in International Journals:

- Samuel Mebin, Gnanamoorthi Venkadesan (2021) "COMPARISON OF THE EFFECTS OF 1, 4-DIOXANE OVER BIODIESEL BLENDS ON PERFORMANCE AND EMISSION PARAMETERS OF A DI DIESEL ENGINE FUELED WITH BLENDS OF COTTON SEED METHYL ESTER" SAE Technical Paper 2021-26-0107
- Mebin Samuel Panithasan, Gnanamoorthi Venkadesan (2021) "Evaluating the outcomes of a single-cylinder CRDI engine operated by lemon peel oil under the influence of DTBP, rice husk nano additive and water injection" International Journal of Engine Research, DOI: [10.1177/14680874211047743](https://doi.org/10.1177/14680874211047743).
- Murugan Mariappan, Mebin Samuel Panithasan, Gnanamoorthi Venkadesan (2021) "Pyrolysis plastic oil production and optimisation followed by maximum possible replacement of diesel with bio-oil/methanol blends in a CRDI engine" Journal of Cleaner Production DOI: 10.1016/j.jclepro.2021.127687. .
- V Gnanamoorthi, P Purushothaman, A Gurusamy, G Devaradjane (2021) "Prediction efficiency of artificial neural network for CRDI engine output parameters" Transportation Engineering DOI: 10.1016/j.treng.2020.100041.
- Dhileepan Sekar, Gnanamoorthi Venkadesan, Karthickeyan Viswanathan (2021) "Experimental evaluation of orange oil biodiesel in compression ignition engine with

various bowl geometries” Energy Sources, Part A: Recovery, Utilization, and Environmental Effects. DOI: 10.1080/15567036.2021.1871684

- Mebin Samuel Panithasan, Manimaran Malairajan, Mathivanan Balusamy, Gnanamoorthi Venkadesan (2021) “Evaluating the Engine Emission Outcomes from a CRDI Engine Operated with Low Viscous Bio-oil Blends Under the Influence of Diethyl Ether” Recent Advances in Mechanical Engineering.
- Purushothaman Paneerselvam, Gnanamoorthi Venkadesan, Mebin Samuel Panithasan, Gurusamy Alaganathan, Sławomir Wierzbicki, Maciej Mikulski (2021) “Evaluating the Influence of Cetane Improver Additives on the Outcomes of a Diesel Engine Characteristics Fueled with Peppermint Oil Diesel Blend” Energies, DOI: 10.3390/en14102786.
- A. Gurusamy, V. Gnanamoorthi, P. Purushothaman P. Mebin Samuel and A. A. Muhammad Irfan (2019) “Evaluation of Microalgae Biodiesel Blend Along with DTBP as an Ignition Enhancer on Diesel Engine Attributes” Published on Proceedings of ICDMC 2019.
- Mebin Samuel Panithasan, Devaradjane Gopalakichenin, Gnanamoorthi Venkadesan & Manimaran Malairajan (2020) “Evaluating the working characters of a diesel engine fueled with biodiesel blends added with rice husk Nano particles” Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, DOI: 10.1080/15567036.2020.1767726
- Gnanamoorthi V & Vimalananth V T (2020) “Effect of Hydrogen Fuel at Higher Flow Rate Under Dual Fuel Mode in CRDI Diesel Engine” published by International Journal of Hydrogen Energy,2020.
- Gnanamoorthi Venkadesan & M Murugan (2019) "Effect of DEE and MEA as additives on a CRDI diesel engine fueled with waste plastic oil blend ” published by Energy Sources Part – A: Recovery, Utilization and Environmental Effects, 2018, doi.org/10.1080/15567036.2019.1657206
- P, Mebin Samuel, Gobalakichenin, D., and V, Gnanamoorthi, "Assessing the Combined Outcome of Rice Husk Nano Additive and Water Injection Method on the Performance, Emission and Combustion Characters of the Low Viscous Pine Oil in a Diesel Engine," SAE Technical Paper 2019-01-2604, 2019, <https://doi.org/10.4271/2019-01-2604>.
- Mebin Samuel P, Devaradjane G, Gnanamoorthi Venkadesan, Santiago Josan (2019). Emission reduction of a diesel engine fueled with blends of biofuel under the influence of 1,4-dioxane and rice husk nano particle. SAE. 2019-28-2387
- Samuel, Mebin & Devaradjane, G. & Venkadesan, Gnanamoorthi. (2019). Performance enhancement and emission reduction by using pine oil blends in a diesel engine influenced by 1, 4-dioxane. International Journal of Environmental Science and Technology. 10.1007/s13762-019-02455-8.
- Purushothaman, P & Venkadesan, Gnanamoorthi & Alaganathan, Gurusamy. (2019). Performance combustion and emission characteristics of novel biofuel peppermint oil in diesel engine. International Journal of Environmental Science and Technology. 10.1007/s13762-019-02270-1.
- Gnanamoorthi Venkadesan & Navin Marudhan Mohandoss (2018) “Combustion, Performance and Emission Analysis of Dual Fuel Engine using TSRB Biogas” published by Energy Sources Part – A: Recovery, Utilization and Environmental Effects, 2018, doi.org/10.1080/15567036.2018.1550538

- Gnanamoorthi Venkadesan & Jayaram Muthusamy (2018) “Experimental Investigation of Al₂O₃/8YSZ and CeO₂/8YSZ Plasma Spray Thermal Barrier Coating on Diesel Engine” published by Cermaic International, 2018, doi.org/10.1016/j.cermint.2018.10.218
- Mebin Samuel panithasan, devaadjane gobalakichenin, Gnanamoorthi Venkadesan & Sudhagar Veeraraghavan (2018) “Impact of rice husk nanoparticle on the performance and emission aspects of a diesel engine running on blends of pine oil-diesel” published by Environmental Science and Pollution Research, 2018, doi.org/10.1007/11356-018-3601-y
- Ganamoorthi V, Vimalananth V T & Murugan M (2018) “Experimental Investigation of Performance and Emission Characteristics of Pomegranate Peel Pyrolysis Oil as Fuel in Diesel Engine” published by International Science and Technology Journal, ISSN NO: 1632-2882, Volume 7, Issue 6, 2018.
- Ganamoorthi V, Vimalananth V T & Murugan M (2018) “Effect Of EGR On CI Engine Fuelled with Diesel and Hydrogen” published by International Research Journal of Engineering and Technology (IRJET), Volume: 05 Issue: 07 | July 2018.
- Gnanamoorthi Vengadesan*, Barani Chandar Kathavarayan (2016) “An Experimental Investigation of Pongamia based Biodiesel in DI Diesel engine using Air Preheater” published by Journal of Chemical and Pharmaceutical Sciences: October - December 2016, Volume 9 Issue 4, ISSN: 0974-2115
- Jayaram Muthusamy, Gnanamoorthi Venkadesan & Udhayakumar Krishnavel (2016) ‘Experimental Investigation of Thermal Barrier (8YSZ-TiO₂-Al₂O₃) Coated Piston Used in Direct Injection Compression Ignition Engine’ published by THERMAL SCIENCE: Year 2016, Vol. 20, Suppl. 4, pp. S1189-S1196
- Venkatraman Mani, Gnanamoorthi Venkadesan, And Devaradjane Gopalakichenin (2016) ‘Performance and Emission Study on DICI And HCCI Engine Using Raw Pongamia Oil and Diesel’ published by THERMAL SCIENCE: Year 2016, Vol. 20, Suppl. 4, pp. S1169-S1179
- Gnanamoorthi Venkadesan, Navin Marudhan Mohandoss & Devaradjane Gopalakichenin (2016) ‘Effect of combustion chamber geometry on performance and emission of DI diesel engine with ethanol-diesel blend’ published by THERMAL SCIENCE: year 2016, Vol. 20, Suppl. 4, pp. S937-S946.
- Dhileepan S, Gnanamoorthi V & Navin Marudhan M (2016) ‘Performance and Emission Characteristics of Thermal Barrier Coating on Piston Crown in Diesel Engine’ International Journal of Latest Engineering Research and Application, Vol. 01, Issue – 09, Dec – 2016, pp – 11-16.
- Gnanamoorthi.V & Devaradjane.G (2015) ‘Effect of combustion chamber geometry on performance and emission of DI diesel engine with ethanol-diesel blend’, Journal of Mechanical Science and Technology, Published by Springer ISSN: 1738-494X Date of acceptance: 30 March 2015.
- Gnanamoorthi.V & Devaradjane.G (2015), ‘Effect of Compression Ratio on the Performance, Combustion and Emission of DI Diesel Engine Fuelled with Ethanol – Diesel Blend’, Journal of the Energy Institute, Published by ELSEVIER Publications vol. 88 (2015) no. 1, pp. 19-26, Year: 2014, ISSN: 1743-9671.

- V.Gnanamoorthi & G.Devaradjane, (2015) “Multi-Zone Modeling Effect on Combustion on DICI Engine using Ethanol Diesel Blend”, Applied Mathematical Sciences, Vol.9,2015 No.68, 3381-3392. Published by Hikari Ltd.
- A.Gurusamy & V.Gnanamoorthi,(2015) “Effects of Ethanol Carburetion on the Performance and Emission Characteristics in DI-diesel Engine”, Journal of Chemical and Pharmaceutical Sciences,. Special Issue 5:2015, Page 61-64. ISSN:0974-2115.
- N.Radhakrishnan & V.Gnanamoorthi, (2015) “Pyrolysis of Groundnut Shell Biomass to Produce Bio-Oil”, Journal of Chemical and Pharmaceutical Sciences,. Special Issue 9: April 2015, Page 34-36. ISSN:0974-2115.
- Gnanamoorthi.V & Devaradjane.G(2015), ‘The effect of Thermal Barrier Coating material in CI engine using higher fraction ethanol diesel’ Journal of Chemical and Pharmaceutical Research, 7(2) pp:416-422 ISSN: 0975-7384
- Gnanamoorthi.V, Ragothaman.G&Devaradjane.G (2014), ‘Selective Fast Pyrolysis of Biomass to produce Bio-Oil’ International Journal of Applied Environmental Sciences Published by Research India publications, vol. 9, no. 5, pp. 2311-2317, ISSN: 0973-6077.
- Gnanamoorthi.V, Udhayakumar.K&Devaradjane.G(2014), ‘Experimental Investigation of Diesel–Ethanol Blend in DI Diesel Engine Using Preheating of Intake Air’, Advanced materials Research Published by: Trans Tech publications, vol. 984-985, July, ISSN:1022-6680.
- Gnanamoorthi.V&Devaradjane.G (2014), ‘Effect of Semi Thermal Barrier Coatings on Piston Crown in Internal Combustion Engine Using Ethanol Diesel Blend’, International Journal of Applied Environmental Sciences Published by Research India publications, vol. 9, no. 3, pp. 323-332, ISSN: 0973-6077.
- Gnanamoorthi.V&Devaradjane.G(2013), ‘Effect of Ethanol- Diesel Blend on Performance, Combustion and Exhaust Emission of a Diesel Engine’ ,International Journal of Current engineering and Technology -Published by : Inpressco, vol. 3, no. 1, March, ISSN: 2277-4106.

Published in International Conference proceedings as papers:

- Gnanamoorthi Vengadesan*, BaraniChandarKathavarayan 2016 “An Experimental Investigation of Pongamia based Biodiesel in DI Diesel engine using Air Preheater”
- Vimalananth V T & Gnanamoorthi V 2016 “Optimizing the flow Simulation on Intake System in Direct Injection CI Engine”^{2nd} International Conference on Design, Analysis, Manufacturing & Simulation at 7-8 April 2016.
- P.Balaji,V.Gnanamoorthi &Navin Marudhan M 2016, “Performance and Emission Characteristics of CI Engine using Biogas Diesel Dual Fuel Mode” ^{2nd} International Conference on Design, Analysis, Manufacturing & Simulation at 7-8 April 2016
- V.Gnanamoorthi, K.Udhayakumar&G.Devaradnaje 2015, “Effect of Diesel Ethanol Operating on Dual – Fuel Mode in Diesel Engine”, International Conference on Advances in Mechanical Engineering, Organized by University College of Engineering Villupuram at 15 & 16th of October 2015.
- G.Ragothaman& V.Gnanamoorthi, 2015, “Performance and Emission Characteristics Pyrolysis Oil Blend with Diesel in IC Engine”, International Conference on Advances in Mechanical Engineering, Organized by University College of Engineering Villupuram at 15 & 16th of October 2015.

- A.Gurusamy, V.Gnanamoorthi & P.Purushothaman, 2015 “An Influence of Ignition Enhancer Additive on Performance and Emission characteristics of Ethanol Carburetion in Di-Diesel Engine”, International Conference on Advances in Mechanical Engineering, Organized by University College of Engineering Villupuram at 15 & 16th of October 2015.
- S.SureshSagadevan, V.Gnanamoorthi & S.Rajesh 2015, “Analysis of Synthesis and Characterization of Copper Oxide Nanofluids”, International Conference on Advances in Mechanical Engineering, Organized by University College of Engineering Villupuram at 15 & 16th of October 2015.
- M.Venkatraman, G.Devaradjane & V.Gnanamoorthi 2015, “Performance and Emission Study on DICI and HCCI Engine using Raw Pongamia Oil and Diesel, International Conference on Advances in Mechanical Engineering, Organized by University College of Engineering Villupuram at 15 & 16th of October 2015.
- K.Sridharan, R.Sivaramakrishnan & V.Gnanamoorthi 2015, “Experimental Investigation on the Deformation Characteristics of NR/BR Blend Rubber Blocks under Large Compression Strain”, International Conference on Advances in Mechanical Engineering, Organized by University College of Engineering Villupuram at 15 & 16th of October 2015.
- S.Rajesh, G.B.Bhaskar, R.FranklinIssac & V.Gnanamoorthi 2015, “Assessment of Performance on Composite Leaf Springs Subjected to Low Velocity Impact Loading”, International Conference on Advances in Mechanical Engineering, Organized by University College of Engineering Villupuram at 15 & 16th of October 2015.
- V.Vivek, P.Sakthivel, K.Kavin, K.Udhayakumar & V.Gnanamoorthi 2015, “Effect of Semi Thermal Barrier Coating (CeO₂/TiO₂) on Diesel Engine using Ethanol Diesel Blend Assisted with Glow Plug”, International Conference on Advances in Mechanical Engineering, Organized by University College of Engineering Villupuram at 15 & 16th of October 2015.
- Gnanamoorthi. V & Devaradjane. G (2014), ‘Multi-zone modeling effects on combustion on DICI engine using ethanol diesel blend’, International conference on mathematics and its applications. Organized by University College of Engineering Villupuram, Villupuram at 15-17 December 2014
- Gnanamoorthi. V, Udhayakumar. K & Devaradjane. G 2014, ‘Experimental Investigation of Diesel- Ethanol Operating on Diesel Engine In Dual –Fuel Mode ’, International Conference of Green Technology for Environmental Pollution Prevention and Control organized by NIT, Trichy at 27-29 September 2014.
- Gnanamoorthi. V & Devaradjane. G 2014, ‘Aluminum oxide-Molybdenum - Titanium Oxide as Thermal Barrier Coating Material in CI Engine using Ethanol Diesel Blend’, International Colloquium on Materials, Manufacturing and Metrology’ Organized by: Indian Institute of Technology Madras, India, August 8-9.
- Gnanamoorthi. V, Udhayakumar. K & Devaradjane. G 2014, ‘Experimental Investigation of Diesel- Ethanol Blend in DI diesel engine using preheating of intake air’, International Conference on Recent Advances in Mechanical Engineering and Interdisciplinary Developments. Organized by Ponjesly College of Engineering, at 7-8 March 2014.
- Gnanamoorthi. V, Dhileepan. S & Devaradjane. G 2013, ‘Effect of Thermal Barrier Coating on Piston Crown in Diesel Engine’, International conference on Nano materials science,

Technology and Applications (ICNM'13) Organized by B.S.Abdur Rahman university, India, December 5-7.

- Gnanamoorthi.V&Devaradjane.G 2007, 'Effects of Oxygenated compounds on Performance characteristics and Emission levels of Direct Injection Diesel Engine', International Conference on I.C Engines and Combustion. Organized by JNTU, Hyderabad at 6-9 December 2007.

Published in National Conference proceedings as papers:

- Gnanamoorthi.V & Gurusamy.A (2015), 'Effects of ethanol carburetion on the performance and emission characteristics in DI diesel engine', National conference on recent trends and developments in sustainable green technologies. Organized by MIT Anna University, Chennai at 24-25March 2015.
- Gurusamy.A & Gnanamoorthi.V (2014), 'Effects of premixed ethanol on the combustion, performance and emission characteristics in diesel engines-A Review. Organized by Vinayaka Mission University, Chennai at 25-26September 2014.

Paper Present in Conference

Sl. No	Title of Paper	Name of Conference	Date of Presentation	ISSN / ISBN Numbers	Level
1	Evaluation of the Influence of 1,4-Dioxane and Exhaust Gas Recirculation on the Performance and Emission Values of a Diesel Engine Fuelled With Low Viscous Biofuel Blend	ASME 2021 15th International Conference on Energy Sustainability collocated with the ASME 2021 Heat Transfer Summer Conference	June 2021		International (abroad)
2	Assessing the Combined Outcome of Rice Husk Nano Additive and Water Injection Method on the Performance, Emission and	SAE Student/Young Professional Technical Paper Competition	October 2019	0148-7191	International (abroad)

	Combustion Characters of the Low Viscous Pine Oil in a Diesel Engine				
3	Emission Reduction of a Diesel Engine Fueled with Blends of Biofuel under the Influence of 1,4-Dioxane and Rice Husk Nano Particle	SAE NuGen Summit 2019 Manesar India	November 2019	0148-7191	International (within country)
4	Experimental Investigation of Diesel – Ethanol Blend in DI Diesel Engine Using Preheating of Intake Air	International conference on recent advances in Mechanical Engineering and Interdisciplinary Developments and Tamil Nadu	August 2014	10226680	International (within country)
5	Evaluation of Microalgae Biodiesel Blend Along with DTBP as an Ignition Enhancer on Diesel Engine Attributes	International Conference on Design Materials Cryogenics and Constructions and Vel Tech Chennai	March 2019	21954356	International (within country)

Research Publications (Books)

Chapters contributed to edited knowledge-based volumes published by Indian / National level publisher, with ISBN /ISSN number:

Sl. No	Book Name	Title / Volume	Pages	ISBN Numbers	Editors Name
1	International Conference on Advances in Mechanical Engineering	Thermal Science /Volume-I	1-522	978-93-85477-29-4	Dr.V.Gnanamoorthi,
2	International	Manufacturing	523-	978-93-	Dr.V.Gnanamoorthi,

	Conference on Advances in Mechanical Engineering	Engineering /Volume-II	956	85477-37-9	
3	International Conference on Advances in Mechanical Engineering	Design, Robotics & Engineering Application /Volume-I	957-1365	978-93-85477-38-6	Dr.V.Gnanamoorthi,

Attended Refresher Courses, Methodology Workshops, Training, Teaching Learning -Evaluation Technology Programmes, Soft Skills Development Programmes, Faculty Development Programmes:

Sl. No.	Name of Programme	Organizers	Place	Date & Year	NO. Days
1.	FDP on “Electric Transportation Infrastructure for E-Mobility In India” at national Institute of Technology Warangal.	AICTE Training and Learning (ATAL) Academy at national Institute of Technology Warangal	University College of Engineering Villupuram, Villupuram	02 nd August 2021, to 06 th August 2021	5 days
2.	Training Programme titled “Industrial Training on Plastic Testing and Quality Control (Online)”	CIPET: CSTS, Madurai	University College of Engineering Villupuram, Villupuram	6 th September 2021 to 22 nd September 2021	2 weeks
3.	Online FDP on “Green Technology & Sustainability Engineering”	AICTE Training and Learning (ATAL) Academy at St. Joseph’s College of Engineering	University College of Engineering Villupuram, Villupuram	7 th September 2020 to 11 th September 2020	5 days
4.	Online workshop on “Inculcating Universal Human Values in Technical Education”	All India Council for Technical Education	University College of Engineering Villupuram, Villupuram	11 th May 2020 to 15 th May 2020	5 days

5.	One week online FDP on Current Affairs and Research Scope in Renewable Energy	Department of Electrical and Electronics Engineering, Chennai Institute of Technology	University College of Engineering Villupuram, Villupuram	29 th June 2020 to 3 rd July 2020	5 days
6.	Three Weeks Industrial Training on “Mechanical Engineering Application in Telecom Industry”	Rajiv Gandhi Memorial Telecom Training Centre	BSNL, Villupuram	1 st June 2020 to 19 th June 2020	19 days
7.	One day workshop on Application of Photonic Integrated Circuits & EMIC	Department of Electronics and Communication Engineering	University College of Engineering Villupuram, Villupuram	28 th January 2020	1 day
8.	Workshop on IT Essentials & Opportunities	Department of Computer Science and Engineering	University College of Engineering Villupuram, Villupuram	22 nd August 2019	1 day
9.	Two days workshop on IoT AND ITS APPLICATIONS	Department of Electronics and Communication Engineering	University College of Engineering Villupuram, Villupuram	13 th and 14 th August 2019	2 days
10.	Faculty development Programme	Programme Monitoring Office- Innovation & Entrepreneurship Development Programme	University College of Engineering Villupuram, Villupuram	18 th July 2019 to 20 th July 2019	3 days
11.	One day work on “Intellectual Property Rights”	Association with center for intellectual	University College of Engineering Villupuram,	2 nd February 2019	1 day

		property rights	Villupuram		
12.	Autodesk Faculty Development Program	Autodesk	University College of Engineering Villupuram, Villupuram	20 th December to 22 th December 2018	3 days
13.	NIAS-DST programme on “Science, Technology and Innovation Policy”		National Institute of Advanced Studies, Bengaluru	19 th November to 30 th November 2018	12 days
14.	Short Term Course on Advanced course on Engine Combustion, Diagnostics, Emission Control and Emerging Fuels	Department of Mechanical Engineering	Indian Institute of Technology Kanpur, Kanpur	3 rd August to 7 th August 2018	5 days
15.	Two Weeks Faculty Development Programme on Serial and Parallel Robots: Analysis, Design and Application	Department of Mechanical Engineering	Gayatri Vidya Parishad College of Engineering, Visakhapatnam	22 nd January to 2 nd February 2018	14 days
16.	Two Weeks Faculty Development Programme on Nanotechnology for Energy and Agricultural Sectors	Department of Mechanical Engineering	IFET College of Engineering, Villupuram	13 th November to 26 th November 2017	14 days
17.	Short Term Course on TEM and HRTEM in Materials Characterization	Department of Materials Science & Engineering	Indian Institute of Technology Kanpur	18 th September to 22 nd September 2017	5 days
18.	Faculty Development Training Programme	Department of Mechanical Engineering	Anna University, Chennai	24 st May to 30 th May 2017	7 days
19.	Short Term Course on Advance IC Engine Technologies	Department of Mechanical Engineering	Indian Institute of Technology Madras	21 st November to 26 th November 2016	6 days

20.	T.E.Q.I.P II Workshop on Biofuels and Combustion Research	Mechanical Engineering Department	National Institute of Technology Tiruchirappalli	26 th September to 1 st October 2016	6 days
21.	Short Term Course on Automatic Control System Engineering with MATLAB/SIMULINK	Department of Avionics	Indian Institute of Space Science and Technology Thiruvananthapuram	17-20 th May 2016	4 days
22.	TEQIP – II Sponsored Short Term Training Program on Application of Modeling and Simulation Techniques in Mechanical Engineering	Department of Mechanical Engineering	Pondicherry Engineering College, Puducherry	25 th April to 29 th April 2016	5 days
23.	International Workshop on Preparation of Technical Articles & Research Proposals	University College of Engineering Villupuram	University College of Engineering Villupuram	4 th January 2016	1 day
24.	One day workshop on Domestic and Industrial safety	Department of Mechanical Engineering, University College of Engineering Villupuram	University College of Engineering Villupuram	25 th September 2015	1 day
25.	National Workshop on Materials for Automotive Industries	Sri Manakula Vinayagar Engineering College	Sri Manakula Vinayagar Engineering College	12 th September 2015	1 day
26.	Awareness programme on Intellectual Property Rights	Centre for Intellectual Property Rights, Anna University, Chennai	University College of Engineering Villupuram	4 th September 2015	1 day
27.	National Workshop on XML and Web services	Department of Computer Science & Engineering,	University College of Engineering Villupuram,	19 th August 2015	1 day

		University College of Engineering Villupuram	Villupuram		
28.	Short Term course under Quality improvement programme, Advances in Computational Heat Transfer	Department of Mechanical Engineering, Indian Institute of Technology Delhi	Indian Institute of Technology Delhi	21st May 2015 to 23rd May 2015	3 days
29.	Short Term course under Quality improvement programme, Bio gas production, purification and power generation	Centre for rural development and technology, Indian Institute of Technology Delhi	IIT Delhi	18th May 2015 to 20th May 2015	3 days
30.	Two days National Seminar on Recent Trends and Development in Automobile Engineering	Department of Automobile Engineering	MIT Campus, Anna University	13th February 2015 to 14th February 2015	2 days
31.	ProE-CAD and Ansys Training	Anna University, Chennai	Anna University, Chennai	13/03/2014 to 15/03/2014 & 20/03/2014 to 22/03/2014	6 days
32.	FDP – MA2211 Transforms and Partial Differential Equations	Department of Mathematics University College of Engineering Villupuram, Villupuram	University College of Engineering Villupuram, Villupuram	20-26 June 2013	One week
33.	Faculty Development Programme AT2302- Automotive Electrical & Electronics	Department of Automobile Engineering, MIT	MIT Campus, Anna University	10th to 16th June 2013	7 days

		Campus, Anna University			
34.	Research Methodology, Techniques of writing Research Articles for SCT Journals and Ph.D thesis preparation	Department of Automobile Engineering MIT, Anna University, Chennai	MIT, Anna University, Chennai	March 7 2013	One day
35.	FDP – ME2041 Advanced IC Engines	I.C Engine Division, CEG, Anna University, Chennai	I.C Engine Division, CEG, Anna University, Chennai	10-17 December 2012	One week
36.	Computational Fluid Dynamics	Department of Mechanical, National Institute of Technology, Trichy	National Institute of Technology , Trichy	12-22 June 2012	Two weeks
37.	Recent Advances in Internal Combustion Engines	I.C. Engine Division, CEG, Anna University, Chennai	CEG, Anna University, Chennai	24-25 November 2011	Two days
38.	How to prepare Research Project Proposal	University College of Engineering Villupuram,	University College of Engineering Villupuram,	06/08/2011	One day
39.	FDP – ME2204 Fluid Mechanics of Machinery	Department of Automobile Engineering, MIT, Anna University, Chennai	MIT, Anna University, Chennai	1-8 June 2011	One week
40.	Recent Trends and Developments in Engine Management Systems and Alternative Fuels	Department of Automobile Engineering MIT, Anna University, Chennai	MIT, Anna University, Chennai	22-23 March 2010	Two days

41.	Convention on Safety in Mobility for NCC / YRC Programme Officers and Student Volunteers	NSS Cell Anna University, Chennai	Anna University, Chennai	29 August 2009	One day
42.	One Day Orientation Programme for NSS Programme Officers	NSS Cell Anna University, Chennai	Anna University, Chennai	28/07/2009	One day
43.	General orientation course of National Service Scheme	Madras school of Social work and National Service Scheme	Madras school of Social work, Chennai	24-07-2006 to 2-08-2006	Ten days
44.	Workshop on Recent trends in Automobiles and IC engines	Department of Mechanical Engineering, St.Josephs college of Engineering, Chennai	St.Josephs college of Engineering, Chennai	28-29 July 2003	Two days

International Conferences / Symposia / workshops /Faculty Development Programmes Conducted:

Sl. No	Name of the Conferences / Seminars / Symposium / Workshop Conducted	Duration	No. of Participants	Venue	Sponsoring Agency
1.	Faculty Development Training Programme on ME 8693 – Heat & Mass Transfer	4 th to 9 th December 2019	30	University College of Engineering Villupuram, Villupuram	Centre for Faculty Development, Anna University, Chennai
2.	Annual day 2019	22 nd march 2019	300	University College of Engineering Villupuram, Villupuram	University College of Engineering Villupuram, Villupuram

3.	Two day national workshop Agnimithra 2019	15 th and 16 th march 2019	200	University College of Engineering Villupuram, Villupuram	University College of Engineering Villupuram, Villupuram
4.	Graduation Day	24 th February 2019	200	University College of Engineering Villupuram, Villupuram	University College of Engineering Villupuram, Villupuram
5.	Faculty Development Training Programme on ME 8493 Thermal Engineering - I	1 st December to 12 th December 2018	26	University College of Engineering Villupuram, Villupuram	Centre for Faculty Development, Anna University, Chennai
6.	Two weeks training programme on “CNC Turning and Milling”	11 th June to 26 th June 2018	16	University College of Engineering Villupuram, Villupuram	University College of Engineering Villupuram, Villupuram
7.	ME6502- Heat and Mass Transfer	18 th June to 24 th June 2018	28	University College of Engineering Villupuram, Villupuram	Anna university Chennai -25.
8.	AGNIMITHRA 2018	1 st March to 2 nd March 2018	700	University College of Engineering Villupuram, Villupuram	University College of Engineering Villupuram, Villupuram
9.	Annual Day 2017	31 th March 2017	500	University College of Engineering Villupuram, Villupuram	University College of Engineering Villupuram, Villupuram
10	AGNIMITHRA 2017	9 th & 10 th March 2017	500	University College of Engineering Villupuram, Villupuram	University College of Engineering Villupuram, Villupuram
11	Faculty Development Training Programme on ME 6404 Thermal Engineering	13 th to 19 th December 2016	38	University College of Engineering Villupuram, Villupuram	Centre for Faculty Development, Anna University,

					Chennai
12	One day Workshop Advance in Automobile Engineering and Manufacturing Technology	30 th August 2016	100	University College of Engineering Villupuram, Villupuram	University College of Engineering Villupuram, Villupuram
13	One Day Workshop on Automotive and Printing Technology	27 th February 2016	100	University College of Engineering Villupuram, Villupuram	University College of Engineering Villupuram, Villupuram
14	FDP – ME6404 – Thermal Engineering	14 -20 December 2015	25	University College of Engineering Villupuram, Villupuram	University College of Engineering Villupuram, Villupuram
15	International Conference on Advances in Mechanical Engineering	15-16 October 2015	500	University College of Engineering Villupuram, Villupuram	University College of Engineering Villupuram, Villupuram
16	Agnimithra 2015	5 th – 6 th March 2015	700	University College of Engineering Villupuram, Villupuram	University College of Engineering Villupuram, Villupuram
17	One Day National Workshop on Recent Trends in I.C Engine	10 October 2014	300	University College of Engineering Villupuram, Villupuram	University College of Engineering Villupuram, Villupuram
18	FDP - ME 6301 Engineering Thermodynamics	16-22 June 2014	30	University College of Engineering Villupuram, Villupuram	Anna University, Chennai
19	Agnimithra 2014	27-28 February 2014	800	University College of Engineering Villupuram, Villupuram	University College of Engineering Villupuram, Villupuram

20	FDP - GE6253 - Engineering Mechanics	09-15 December 2013	30	University College of Engineering Villupuram, Villupuram	Anna University, Chennai
21	Agnimithra 2012	1-2 March 2012	750	University College of Engineering Villupuram, Villupuram	University College of Engineering Villupuram, Villupuram

III (E) (ii) Papers In Conferences / Seminars / Workshops etc:

Participation and presentation of research papers in international and National conference:

Sl.No	Name of the International & National Conference	Title of the Paper	Date and year	Organized by
1	International Conference on Engineering Material and Renewable Energy	Experimental Investigation of CI Engine Fuelled with diesel and hydrogen with EGR	4 th and 5 th January 2018	Department of Chemistry, University College of Engineering Villupuram
2	International Conference on Engineering Material and Renewable Energy	Experimental Investigation of Performance and Emission Characteristics of Cashew Nut Shell Pyrolysis Oil as fuel in Diesel Engine	4 th and 5 th January 2018	Department of Chemistry, University College of Engineering Villupuram
3	Second National Conference on Material Science and its Future Prospects 2017	Production, upgradation and Testing of Biogas in DICI Engine	2017	Department of Chemistry, University College of Engineering Villupuram
4	Faculty Development Training Programme on ME 6404 Thermal Engineering	Seminar on Internal Combustion Engines	27 th December 2016	KCG College of Technology, Chennai
5	Second International Conference on Recent Advancement in Mechanical Engineering & Technology	An Experimental Investigation of Pongamia Based Biodiesel in DI Diesel Engine using Air Preheater	28 th & 29 th April 2016	Aarupadai Veedu Institute of Technology Chennai
6	Second International	Combustion and	28 th &	Aarupadai Veedu

	Conference on Recent Advancement in Mechanical Engineering & Technology	Emission Performance on Single Cylinder 4 Stroke DI Diesel Engine Fueled with Biodiesel using External Mixture Formation	29 th April 2016	Institute of Technology Chennai
7	International Conference on Advances in Mechanical Engineering	Effect of Diesel Ethanol Operating on Dual – Fuel Mode in Diesel Engine	15 th & 16 th October 2015.	University College of Engineering Villupuram
8	International Conference on Advances in Mechanical Engineering	Performance and Emission Characteristics Pyrolysis Oil Blend with Diesel in IC Engine	15 th & 16 th October 2015.	University College of Engineering Villupuram
9	International Conference on Recent Advancement in Mechanical Engineering and Technology	Pyrolysis of groundnut Shell bios mass to produce bio-oil	23 rd & 24 th April- 2015	Vinayaka Missions University Chennai
10	National conference on recent trends and developments in sustainable green technologies. Organized by MIT Anna University, Chennai	Effects of ethanol carburetion on the performance and emission characteristics in DI diesel engine	24 th and 25 th March- 2015	MIT campus, Anna University, Chennai
11	International conference on mathematics and its applications	Multi-zone modeling effects on combustion on DICI engine using ethanol diesel blend	15 th -17 th December- 2014	University College of Engineering Villupuram
12	National Conference on Recent Innovations and Advanced Trends in Mechanical Engineering – RIATME-2014	Effects of premixed ethanol on the combustion, performance and emission characteristics in diesel engines-A Review	25 th and 26 th September 2014	Vinayaka Mission University, Chennai
13	International Colloquium on Materials, Manufacturing and Metrology	Aluminum oxide-Molybdenum – Titanium Oxide as Thermal Barrier Coating Material in CI Engine using	8 th & 9 th August - 2014	Indian Institute of Technology Madras, India,

		Ethanol Diesel Blend		
14	International Conference on Recent Advances in Mechanical Engineering and Interdisciplinary Developments	Experimental Investigation of Diesel-Ethanol Blend in DI diesel engine using preheating of intake air	7 th & 8 th March 2014	Ponjesly College of Engineering
15	International conference on Nano materials science, Technology and Applications (ICNM'13)	Effect of Thermal Barrier Coating on Piston Crown in Diesel Engine	5 th to 7 th December 2013.	B.S.Abdur Rahman university, India,
16	International Conference on I.C Engines and Combustion	Effects of Oxygenated compounds on Performance characteristics and Emission levels of Direct Injection Diesel Engine', International Conference on I.C Engines and Combustion	6 th to 9 th December-2007.	Jawaharlal Nehru Technological University (JNTU) Hyderabad

Invited lectures or presentations for Conference / Symposia:

Sl. No.	Name of the programme	Title of the lecture	Date and Year	Institute / Organization where the lecture is delivered
1.	Six-day FDP	Applied Thermodynamics	7 th May 2021	Sri Venkateshwara College of Engineering (Online Mode)
2.	Mechanical Engineering Students Association	Automotive Electric and Autonomous Vehicles	27 th August 2021	St Anne's College of Engineering and Technology (Online Mode)

3.	Advance Manufacturing Technology	Battery Materials	15 th September 2021	SRM Institute of Science and Technology
4.	Two weeks National Level Virtual Faculty Development Programme on Advanced Materials and Manufacturing Technology	Battery coating technology for Automotive Industries	29 th September 2021	Easwari Engineering College Chennai
5.	One Week Short Term Training Programme	Kinematics of Machinery	22 rd February 2021	Mailam Engineering College
6.	ATAL Academy	Alcohol Based Fuels for IC Engines	09 th December 2020	University College of Engineering Tiruchirappalli
7.	Short Team Training Programme Phase II	Hydrogen Fuel Cell Vehicles	11 th May 2021	J K K Nattaraja College of Engineering and Technology
8.	Short Team Training Programme Phase I	Electric Vehicles	8 th May 2021	J K K Nattaraja College of Engineering and Technology
9.	National level webinar on Automotive Electric and Autonomous Vehicles	Electric vehicle	23 rd July 2020	Meenakshi College of Engineering
10.	Online five days FDP on Thermal Engineering II	ME 8595 Thermal Engineering II	8 th June 2020	Arasu Engineering College
11.	Expert webinar on Hydrogen fuel cell electric vehicles	Hydrogen fuel cell electric vehicles	10 th June 2020	Rajalakshmi Engineering College
12.	FDTP on design of machine elements	Design of engine components	12 th June 2019	University College of Engineering Kancheepuram
13.	Explore 18	Motivational Talk	28 th March 2018	A K T Memorial College of Engineering and Technology
14.	Seven days FDTP on Engineering Thermodynamics	Thermodynamics	15 th June 2017	Jeeppiaar Maamallan Engineering College
15.	Faculty Development Training Programme on ME-6401 Kinematics of Machinery	ME-6401 Kinematics of Machinery	1 st December to 9 th December 2017	Easwari Engineering College, Chennai

16.	Faculty Development Training Programme on Engineering Mechanics	Friction and its application	11 th December to 17 th December 2017	University College of Engineering Kancheepuram
17.	Faculty Development Training Programme on Design of Machine Elements	Design of Machine Elements	17 th May to 23 rd May 2017	University College of Engineering Panruti
18.	FDTP on Thermal Engineering	Internal Combustion Engine	27 th December 2016	KCG College of Technology
19.	Second International Conference on Recent Advancement in Mechanical Engineering & Technology as Chairperson	Advance in IC Engine	28 th & 29 th April 2016	Easwari Engineering College, Chennai
20.	TECHNO VISSION' 15 Technical symposia	Jury member	8 th August 2015	IFET College of Engineering Villupuram
21.	FDTP Heat and Mass Transfer	Heat and Mass Transfer	16 th June 2015	University College of Engineering Kancheepuram
22.	FDTP GE6152- Engineering Graphics	Engineering Graphics	14 th May 2015	University College of Engineering Arni
23.	International conference on Recent Advancement in Mechanical Engineering & Technology	Recent trends in IC Engines	23 rd April 2015	Vinayaka Missions University
24.	National conference on recent trends and developments in sustainable green technologies.	Common rail Direct injection System (CRDI)	24 th March 2015	MIT, Anna University, Chennai
25.	FDP - ME 6301 Applied pneumatics and hydraulics	Applied pneumatics and hydraulics	25 th June 2014	University College of Engineering Ariyalur, Ariyalur
26.	One Day National Level Workshop on Recent Advances in Automotives	Alternative fuels	19 th March 2014	University College of Engineering Thoothukudi, Thoothukudi.

27.	FDP - ME 2251 Heat and Mass transfer	HEAT EXCHANGERS	18 th December 2013	University College of Engineering Panruti, Panruti
28.	FDP - ME 6301 Thermal Engineering	Advanced I.C Engines	21 st June 2013	University College of Engineering Villupuram, Villupuram

Ph.D., Scholar Project Guiding:

Sl. No	Scholar Name – Reg.No / Category	Project-title	Year/Session	Status
1	M.Jayaram-1613299165/ Part Time	Experimental investigation on thermal cycling behavior and performance characteristics of thermal barrier coating in DICl engine	Jan 2016	Viva-voce date 06/08/2020 Completed
2	M Murugan – 17142991167/ Full Time	Experimental Investigation on Common Rail Direct Injection Diesel Engine Using Plastic Oil with Methanol Diesel Blend as Fuel	Jan 2017	Viva-voce date 12/08/2021 Completed
3	V T Vimalananth 17142991320/ Full Time	Experimental Investigation of DICl Engine using Hydrogen	Jan 2017	Submitted the Thesis
4	P Purushothaman – 16142997344/ Part Time	Theoretical and Experimental Analysis of DICl Engine using Novel Biofuel Blends	July 2016	Submitted the synopsis
5	Dhileepan S – 1613299229/ Part Time	Experimental Investigation of HHO Gas Fuelled in DICl Engine	Jan 2016	Registration Confirmed
6	M Navin Marudhan – 1614299157/ Full Time	Investigation and Enriching of Biogas and Utilizing in Diesel Engines	Jan 2016	Registration Confirmed

PG Student Project Guidance:

Sl. No	Name of the Scholar	Title of the Thesis	Month & Year of Viva Voce Conducted

1.	S GOWTHAM	Experimental Investigation of Diesel Engine Fueled with Methane Gas Extracted from Sewage Sludge	06 th August 2021
2.	P BERNADSHA	Performance and Emission Characteristics of Hydrogeneration by using Dry Cell Type HHO on DICl Engine	22 nd September 2020
3.	G RAGAVENDHIRAN	Performance and Emission Characteristics of Compression Ignition Engine Fueled with Methonal and Eucalyptus Oil Blends	22 nd May 2019
4.	BALAMURGAN J P	Hydrogen Enriched Fuel for IC Engine	12 th June 2018
5.	BALAJI M	Experimental investigation of Performance and Emission Characteristics of DI Diesel Engine Using Waste Plastic Pyrolysis Oil as a Fuel	12 th June 2018
6.	R.KAMALANATHAN	Investigation of Bio Diesel Production from Daturametel Seeds	29 th June 2017
7.	P.BILLI GRAHAM	Optimization of Bio Diesel Production from Jack Fruit Seeds	28 th June 2017
8.	E GOPAL	Production and Utilization of Biogas in DICl Engine	28 th June 2017
9.	R.RAJESH	Investigation of Thermal Barrier Coating on Diesel Engine	28 th June 2017
10.	DURAIARASAN C V	Experimental Study of Performance and Emission Characteristics of Thermal Barrier Coated Diesel Engine	29 th June 2016
11.	BALAJI P	Performance and Emission Characteristics of DICl Engine Using Biogas with Dual Fuel Mode	29 th June 2016
12.	VIMALANANTH V T	Theoretical and Experimental Investigation of Air Swirl Index on Intake System in Direct Injection CI Engine	29 th June 2016
13.	JAYAMOORTHI RAJA R	Production of Hydrogen from Dry Type Water Electrolysis Utilized to Single Cylinder Four Stroke Direct Injection Diesel Engine Using Dual Fuel Mode	29 th June 2016
14.	BARANICHANDAR K	Experimental Investigation of Diesel – Pongamia Blend in DI Diesel Engine using Preheating of Intake Air	29 th June 2016
15.	K..ABILASH	Experimental Investigation on Enhancing the Tribological Behaviour of an Engine Lubricant using Nanoparticle Additive	June 2015
16.	N.RATHAKRISHNAN	An experimental investigation on diesel engine by using groundnut shell pyrolysis oil- Diesel blends	June 2015

17.	L.VIJAYABASKAR	Effect of spark assisted diesel engine using ethanol and biodiesel blend as a fuel	June 2015
18.	R.L.GOPINATHAN	Experimental investigation of high swirl inducing combustion chamber in diesel engine for emission reduction	June 2015
19.	A.GURUSAMY	An experimental investigation of ethanol using fumigation techniques with ignition enhancer in diesel engine	June 2015
20.	G.RAGOTHAMAN	Performance and emission characteristics of pyrolysis oil blend with diesel in IC engine.	June 2014
21.	P.PALANIKUMAR	Effect of compression ratio on performance and emission characteristics of camphor and pongamia oil using in diesel engine	June 2014
22.	K.UDHAYAKUMAR	Experimental investigation of DI diesel engine operated on duel fuel mode and DICI mode using ethanol as fuel	June 2014
23.	N.VIVEK	Effect of thermal barrier coating on diesel engine using ethanol diesel blend assisted with glow plug	June 2014
24.	S.DHILEEPAN	Performance and emission characteristics of thermal barrier coating on piston crown in diesel engine	July 2013
25.	R.VIJAY	Experimental analysis of piston bowl in CI engine	July 2013
26.	M.NAVIN MARUDHAN	Improvement of fuel properties and emission reduction by use of oxygenated fuel blend with diesel on a heavy-duty diesel engine	July 2013

UG Student Project Guidance:

Sl. No	Student's Name	Project-title	Year
1	Dharmesh A, Sarathkumar A, Selvamani S	Optimization of Process Parameters in Biogas Production from Food waste Using Taguchi Analysis	06 th April 2017
2	Chandru N, Praveen Kumar A, Senthil Mani S	Production Analysis of Biogas using Different Bio-Waste	06 th April 2017
3	Prabakaran S, Pratheep Raj K, Sankar R,	Performance and Emission Characteristics of Pongamia Oil with	11 th April 2016

	SenthamizhSelvan M	Blends in Diesel Engine	
4	Senthil Mani S, Praveen Kumar A, Chandru N	Design and Fabrication of Fixed Dome Bio-Gas Plant	28 th April 2016
5	Prabakaran S, Puspharaj M, Viji A, Saranraj R	Performance and emission characteristics of CI engine using Raw Biogas in Dual Fuel Mode	12 th April 2016
6	Sasi Kumar K. Saravanan D, VigneshKumar T	Design and Fabrication of Trolley	28 th April 2016
7	Mohamed rasith.H, Mohan.G.J, Rajan.K, Regis Andrew.M	Analysis of thermal barrier coating in IC engine	3 rd April 2014
8	Anandraj.A, Subash.K, Thiruvengadam.R, Vijayashanmugam.S	Performance and emission characteristics of diesel engine blend with pongamia oil associated glow plug	4 rd April 2014
9	Kamalakarthiskayan.I,L akshmanprakash.M, Rajmohamed.M, Sabarinathan.P	Portable engraving machine	3 rd April 2014
10	Chitrarasu.G, Dhandapani.V, Mathivanan.A	Design and fabrication of solar energy using sewing machine	23 rd April 2013
11	Mohamed rasith.H, Mohan.G.J, Rajan.K, Regis Andrew.M	Analysis of thermal barrier coating in IC engine	3 rd April 2014
12	Anandraj.A, Subash.K, Thiruvengadam.R, Vijayashanmugam.S	Performance and emission characteristics of diesel engine blend with pongamia oil associated glow plug	4 rd April 2014
13	Babu.M, Dhamodharan.D, Karthikkumar.S, Ranjithkumar.S	Design and fabrication of exhaust gas recirculation(EGR) in diesel engine	25 th April 2012
14	Malolansundaram	Reducing oil throw in a turbocharger by employing pressure gallery	24 th April 2012
15	Alagumuthu.M, Elumalai.M, Karunanithi.L, Meenakshi sundaram.R	Effect of EGR in direct injection diesel engine	24 th April 2012
16	Arunmainayagam.M, Preksha.K	Performance and emission characteristics of diesel engine with ethanol diesel blend in different injection pressure	24 th April 2012
17	Kavinkumar.K, Prakalathan.T, Udhayakumar.K	Performance and emission characteristics of variable compression ratio direct injection diesel engine using ethanol diesel blends	24 th April 2012

18	Bharathidhasdan.D	Design and assembling of solar powered sewing machine	27 th April 2013
19	Babu.M, Kaviyarasu.T	Experimental analysis of piston bowl for increasing compression ratio, turbulence and squish in CI engine	27 th April 2013

Subject and Result Analysis

July 2008 to Dec 2008

S.NO	Department	Subject Name & code	No. of students who appeared for the Univ. exam in the subject	No. of students declared to have passed in the subject	Pass Percentage %
1	Mechanical Department	Engineering Graphics - GE2111	59	59	100%
2	IT Department	Engineering Graphics - GE2111	56	56	100%
3	Mechanical Department	Engineering Practice lab I - GE2116	59	59	100%

Jan 2009 to June 2009

S.NO	Department	Subject Name & code	No. of students who appeared for the Univ. exam in the subject	No. of students declared to have passed in the subject	Pass Percentage %
1	Mechanical	Engineering	59	59	100%

	Department	Mechanics – ME2151			
2	Mechanical Department	Basic Mechanical Engineering - GE2152	59	59	100%
3	Mechanical Department	Computer Aided Drafting and Modeling Laboratory -ME2155	59	59	100%

July 2009 to Dec 2009

S.NO	Department	Subject Name & code	No. of students who appeared for the Univ. exam in the subject	No. of students declared to have passed in the subject	Pass Percentage %
1	Mechanical Department	Kinematics of Machinery-ME 2203	59	54	91.5%
2	CSC & Mechanical	Engineering Graphics-GE2111	74	74	100%
3	Mechanical Department	Engineering Thermodynamics-ME 2202	59	59	100%
4	Mechanical Department	Manufacturing Technology Lab – I -ME 2207	59	59	100%

Jan 2010 to June 2010

S.NO	Department	Subject Name & code	No. of students who appeared for the Univ. exam in the subject	No. of students declared to have passed in the subject	Pass Percentage %
1	Mechanical Department	Heat and Mass Transfer –ME 2251	59	59	100%

2	Mechanical Department	Basic Civil & Mechanical Engineering - GE2152	56	56	100%
3	Mechanical Department	Manufacturing Technology Lab – II -ME 2258	59	59	100%

July 2010 to Dec 2010

S.NO	Department	Subject Name & code	No. of students who appeared for the Univ. exam in the subject	No. of students declared to have passed in the subject	Pass Percentage %
1	Mechanical Department	Dynamics of Machinery–ME 2302	59	59	100%
2	Mechanical Department	Heat and Mass Transfer – ME6502	56	56	100%
3	Mechanical Department	Thermal Engineering Lab – I-ME 2306	59	59	100%

Jan 2011 to June 2011

S.NO	Department	Subject Name & code	No. of students who appeared for the Univ. exam in the subject	No. of students declared to have passed in the subject	Pass Percentage %
1	Mechanical Department	Heat and Mass Transfer –	57	57	100%

		ME6502			
2	Mechanical Department	Automobile Engineering - ME 2354	59	59	100%
3	Mechanical Department	Thermal Engineering Lab – II - ME 2355	57	57	100%

July 2011 to Dec 2011

S.NO	Department	Subject Name & code	No. of students who appeared for the Univ. exam in the subject	No. of students declared to have passed in the subject	Pass Percentage %
1	Mechanical Department	Nuclear Engineering– ME2034	59	59	100%
2	Mechanical Department	Dynamics of machinery – ME2034	57	53	93%
3	ME - Internal Combustion Engineering	Automotive Engine Systems - IC 9150	18	18	100%
4	Mechanical Department	Thermal Engineering lab – ME2306	57	57	100%
5	ME - Internal Combustion Engineering	IC Engine Lab I - IC9115	18	18	100%

Jan 2012 to June 2012

S.NO	Department	Subject Name & code	No. of students who appeared for the Univ. exam in the subject	No. of students declared to have passed in the subject	Pass Percentage %
1	Computer	Basic Civil &	53	53	100%

	science Department	Mechanical Engineering - GE2152			
2	Mechanical Department	Automobile Engineering - ME 2354	56	56	100%
3	ME - Internal Combustion Engineering	Internal Combustion Engine Design - IC9122	19	19	100%
4	Mechanical Department	Thermal Engineering lab – ME2355	56	56	100%
5	Mechanical Department	Project Work - ME 2453	56	56	100%

July 2012 to Dec 2012

S.NO	Department	Subject Name & code	No. of students who appeared for the Univ. exam in the subject	No. of students declared to have passed in the subject	Pass Percentage %
1	Mechanical Department	Power Plant Engineering - ME 2403	56	54	96.42%
2	ME - Internal Combustion Engineering	Automotive Engine Systems - IC 9150	21	21	100%
3	Mechanical Department	Thermal Engineering lab – ME2306	53	53	100%
4	ME - Internal Combustion Engineering	IC Engine Lab I - IC9115	21	21	100%

Jan 2013 to June 2013

S.NO	Department	Subject Name & code	No. of students who appeared for the Univ. exam in the subject	No. of students declared to have passed in the subject	Pass Percentage %
1	Mechanical	Advance IC	57	57	100%

	Department	Engine – ME2014			
2	ME - Internal Combustion Engineering	Hydrogen as a Fuel in I.C. Engines - IC 9160	21	21	100%
3	ME - Internal Combustion Engineering	Project work Phase II IC7411	18	18	100%

July 2013 to Dec 2013

S.NO	Department	Subject Name & code	No. of students who appeared for the Univ. exam in the subject	No. of students declared to have passed in the subject	Pass Percentage %
1	ME - Internal Combustion Engineering	Electric and Hybrid Vehicles- IC9164	21	21	100%
2	Mechanical Department	Thermal Engineering - ME 2301	50	47	94%
4	ME - Internal Combustion Engineering	IC Engine Lab I - IC9115	22	22	100%

Jan 2014 to June 2014

S.NO	Department	Subject Name & code	No. of students who appeared for the Univ. exam in the subject	No. of students declared to have passed in the subject	Pass Percentage %
1	Mechanical	Advance IC	50	49	98%

	Department	Engine – ME2014			
2	ME - Internal Combustion Engineering	Simulation of IC Engine Process	22	22	100%
3	ME - Internal Combustion Engineering	Simulation Lab – IC7212	22	22	100%

July 2014 to Dec 2014

S.NO	Department	Subject Name & code	No. of students who appeared for the Univ. exam in the subject	No. of students declared to have passed in the subject	Pass Percentage %
1	ME - Internal Combustion Engineering	Combustion and Reaction Kinetics in I.C. Engines - IC7011	22	22	100%
2	ME - Internal Combustion Engineering	Alternative Fuels for IC Engines– IC7102	20	20	100%
3	ME - Internal Combustion Engineering	Advanced Heat Transfer - TE7101	20	17	85%
4	ME - Internal Combustion Engineering	IC Engineering Practice Lab – IC7111	20	20	100%

Jan 2015 to June 2015

S.NO	Department	Subject Name & code	No. of students who appeared for the Univ. exam in the subject	No. of students declared to have passed in the subject	Pass Percentage %
1	Mechanical	Advance IC	52	52	100%

	Department	Engine – ME2014			
2	ME - Internal Combustion Engineering	Simulation of IC Engine Process – IC7006	20	17	85%
3	ME - Internal Combustion Engineering	Project Work phase II– IC7111	22	22	100%
4	ME - Internal Combustion Engineering	Simulation Lab – IC7212	20	20	100%

July 2015 to Dec 2015

S.NO	Department	Subject Name & code	No. of students who appeared for the Univ. exam in the subject	No. of students declared to have passed in the subject	Pass Percentage %
1	Mechanical Department	Heat and Mass Transfer – ME6502	61	59	96.72%
2	ME - Internal Combustion Engineering	Combustion and Emission in Engine – IC7103	11	11	100%
3	ME - Internal Combustion Engineering	IC Engineering Practice Lab – IC7111	11	11	100%

Jan 2016 to July 2016

S.NO	Department	Subject Name & code	No. of students who appeared for the Univ. exam in the subject	No. of students declared to have passed in the subject	Pass Percentage %
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1	Mechanical Department	Advance IC Engine – ME2014	71	71	100%
2	ME - Internal Combustion Engineering	Flow Visualisation Techniques for IC Engine – IC7010	11	11	100%
3	ME - Internal Combustion Engineering	Project Work – ME2453	22	22	100%

July 2016 to Dec 2016

S.NO	Department	Subject Name & code	No. of students who appeared for the Univ. exam in the subject	No. of students declared to have passed in the subject	Pass Percentage %
1	Mechanical Department	Engineering Graphics –GE 6152	58	47	81%
2	ME - Internal Combustion Engineering	Combustion and Emission in Engine – IC7103	8	8	100%
3	ME - Internal Combustion Engineering	Project Work Phase I – IC 73111	11	11	100%

Jan 2017 to May 2017

S.NO	Department	Subject Name & code	No. of students who appeared for the Univ. exam in the	No. of students declared to have passed in the subject	Pass Percentage %
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			subject		
1	ME - Internal Combustion Engineering	Flow Visualisation Techniques For IC Engine – IC7010	8	8	100%
2	Mechanical Department	Advance IC Engine- ME2014	63	61	96.83%
3	ME - Internal Combustion Engineering	Project Work Phase II – IC 7411	11	11	100%

July 2017 to Nov 2017

S.NO	Department	Subject Name & code	No. of students who appeared for the Univ. exam in the subject	No. of students declared to have passed in the subject	Pass Percentage %
1	ME - Internal Combustion Engineering	COMBUSTION AND EMISSION IN ENGINE – IC7103	3	3	100%
2	BE- Mechanical Department	HEAT AND MASS TRANSFER – ME6502	64	57	89.06%
3	ME - Internal Combustion Engineering	Project Work Phase I – IC 7311	8	8	100%

Jan 2018 to May 2018

S.NO	Department	Subject Name & code	No. of students who appeared for the Univ. exam in the	No. of students declared to have passed in the subject	Pass Percentage %
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			subject		
1	Mechanical Department	Advance IC Engine- ME2016T	31	18	58.06%
2	ME - Internal Combustion Engineering	Engine Pollution and Control	5	5	100%
3	ME - Internal Combustion Engineering	Project Work Phase II – IC 7411	8	8	100%

July 2018 to Nov 2018

S.NO	Department	Subject Name & code	No. of students who appeared for the Univ. exam in the subject	No. of students declared to have passed in the subject	Pass Percentage %
1	Mechanical Department	Engineering Graphics – GE812	48	30	63.83%
2	Mechanical Department	Engineering Graphics – GE812 T	10	8	80%
3	ME - Internal Combustion Engineering	Combustion and Emission in Engines	2	2	100%
3	ME - Internal Combustion Engineering	Project Work Phase I – IC 5312	3	3	100%

New Laboratories and Equipment's purchased:

- During My Tenure As HOD I/C, I Have Been Purchased Lab Equipments and Instrumental to Creating Eleven New Laboratories Worth Around Rs. 2.5 Crore.

S.NO	Name of The Laboratory	Total Cost	Year of Purchase
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1	Generator	500000	2009
2	Fluid Mechanics Lab	1000000	2009
3	Metrology and Measurements Lab	909694	2010
4	Thermal Engineering Lab - I	3588576	2010
5	Thermal Engineering Lab - II	474760	2010
6	Dynamics Laboratory	851774	2010
7	CAD/CAM Lab-I	3978130	2010
8	CAD/CAM Lab-II	1693888	2010
9	Manufacturing Technology Lab -I	2955201	2010
10	Manufacturing Technology Lab -II	3763557	2010
11	Mechatronics Lab	1405218	2010
12	Mechanical Engineering Software	1818028	2010
13	Furniture	200000	2010
14	I. C. Engine Research Lab	100000	2013

Subjects of Interest:

- Engineering Graphics.
- Engineering Mechanics
- Strength of Materials
- Engineering Thermodynamics
- Heat and Mass Transfer
- Advanced I.C. Engine
- Dynamics of Machinery

Administrative Responsibilities:

- Head of the Department of Mechanical Engineering at University College of Engineering Villupuram (**10th February 2015 – 23rd December 2019**).
- Head of the Department of Mechanical Engineering at University College of Engineering Villupuram (**8th September 2008 – 18th January 2013**).
- **NSS programme officer** at University College of Engineering Villupuram, Chennai. (**20th May 2009-January 2013**).
- **NSS programme officer** at Meenakshi College of Engineering, Chennai. (**1st July 2003-27th January 2008**).
- **Purchase Committee Member.**
- **Entrepreneurship Coordinator.**

Other Important Assignments

- Assigned additional responsibility as CAD Lab, Basic Workshop and I.C Engine Lab (Thermal-I) In-charge, Department of Mechanical Engineering from 11/03/2020

- Appointed as a Camp Officer for Central Valuation during April/May/June 2018 Examination to Zone XXI College.
- Appointed as Nodal Officer/Nodal Custodian for dispatching the question paper, collecting and depositing the answer paper during the April/May/June 2018 Examination to Zone XXI College.
- Appointed as Nodal Officer/Nodal Custodian for dispatching the question paper, collecting and depositing the answer paper during the November/December 2017 Examination to Zone XXI College.
- Faculty In charge for Thermal Engineering lab and IC engine Lab in Mechanical Engineering Department at UCEV, Villupuram
- Class Co-Ordinator (2008 Admissions, 2009 Admissions and 2010 Admissions)
- PG Project Coordinator during the year of 2011-2013.
- UG Project Coordinator during the year of 2008-2010.
- Class committee chairman Mechanical Engineering Department at UCEV, Villupuram
- Transport In charge at UCEV, Villupuram
- Programme Officer, National Service Scheme unit, UCEV.
- Free laptop Monitoring Committee member.
- Ant ragging Monitoring committee member.
- Disciplinary Monitoring committee member.

Ten Principles of (MY) Life

- " Try to win the race based on your ability rather than winning the race by creating obstacles to others "
- " Encourage people to take up challenges rather than forcing them "
- " Do justice to your job and make the people to do so "
- " Use power for construction not for destruction "
- " Leader should be ideal, shouldn't be idle "
- " All are humans and are equal "
- " Believe in humanity, harmony and hard work "
- " Live peacefully and allow others to live peacefully "
- " Try to help others, if unable to help, at-least don't harm "
- "Think about you, about your family and, about your society before taking any decision."