

RESUME

(for Updating Faculty Profile in Website)

Full Name : **Dr. N. SHENBAGA VINAYAGA MOORTHY**

Qualification : B.E., M.E., Ph.D.

Qualification	Institution	University / Board	Awarded Year	Class
Ph.D. (Faculty of Mechanical Engineering)	Madras Institute of Technology, Chromepet	Anna University	2006	Not Applicable
M.E. (Refrigeration & Air-conditioning)	College of Engineering, Guindy	Anna University	1999	First Class
B.E. (Mechanical Engineering)	Government College of Technology, Coimbatore	Bharathiar	1994	First Class
HSC (Mathematics, Physics, Chemistry & Biology)	Ramaswamy Pillai Hr. Sec. School, Ilanji	State Board	1990	First Class
SSLC (Mathematics, Science and History & Geography)	Ramaswamy Pillai Hr. Sec. School, Ilanji	State Board	1988	First Class

Designation : **PROFESSOR**

Department : Department of Mechanical Engineering,
Anna University Regional Campus – Tirunelveli,
Tirunelveli – 627 007,

Email ID : nsvmoorthi@gmail.com

Contact No. : + 91 94436 2002

Specialization : **THERMAL ENGINEERING** - Refrigeration & Air-conditioning Engineering, Internal Combustion Engineering and Energy Engineering

Research Area : **THERMAL ENGINEERING** - Alternate Fuels, Alternate Energy Systems and Alternate Materials

Professional Experience:

Name of the Company / Institutions	Designation	From	To	Experience
Anna University, Chennai (Anna University Regional Campus – Tirunelveli, Tirunelveli)	Professor	05-09-2014	Till Date (Up to 04.05.19)	4 Years 8 Months
Anna University, Chennai (Anna University Regional Campus – Tirunelveli, Tirunelveli)	Associate Professor	01-08-2012	04-09-2014	2 Years 1 Month
Anna University (Erstwhile Anna University of Technology, Tirunelveli)	Associate Professor	05-09-2011	31-07-2012	11 Months
Anna University, (Erstwhile Anna University of Technology, Tirunelveli)	Assistant Professor	05-09-2008	04-09-2011	3 Years
PSG College of Technology, Coimbatore	Assistant Professor	01-06-2006	04-09-2008	2 Years 3 Months
	Lecturer (Sr. Gr.)	21-06-2005	31-05-2006	11 Months
Madras Institute of Technology, Chromepet	Teaching Research Associate	19-01-2001	18-01-2005	4 Years
Mepco Schlenk Engineering College, Sivakasi	Lecturer	23-08-1999	18-01-2001	1 Year 5 Months
Arulmigu Kalasalingam College of Engineering, Krishnankoil	Lecturer	11-08-1995	30-07-1997	2 Years
Bharat Engineering Traders, Coimbatore	Engineer	16.07.1994	10.08.1995	1 Year

Administrative Positions Held:

Sl. No.	Position Held	From	To	Experience
In Examination Activities				
1	Zonal Coordinator, Zone XX, Anna University Regional Campus- Tirunelveli, Tirunelveli	November 2018	Till Date	Two Semesters
In Institution Administration				
2	Dean (i/c), University (VOC) College of Engineering Thoothukudi (UVOCET), Anna University (Thoothukudi Campus), Thoothukudi	July 2013	May 2016	Three Academic Years
3	Registrar (i/c), Erstwhile Anna University of Technology Tirunelveli (AUTT), Tirunelveli	July 2010	July 2012	Two Academic Years
4	Director (i/c), University College of Engineering Nagercoil (UCEN), Anna University of Technology Tirunelveli (Nagercoil Campus), Konam, Nagercoil	September 2009	July 2010	One Academic Year
In Hostel Administration				
	Warden, UVOCET Hostels, University (VOC) College of Engineering Thoothukudi (UVOCET), Anna University (Thoothukudi Campus), Thoothukudi	July 2013	May 2016	Three Academic Years
	Warden, UCEN Hostels, University College of Engineering Nagercoil (UCEN), Anna University of Technology Tirunelveli (Nagercoil Campus), Konam, Nagercoil	September 2009	July 2010	One Academic Year
	Warden, PSG Tech Additional Hostel, PSG College of Technology, Coimbatore	2008	2008	---
	Deputy Warden, PSG Tech Additional Hostel, PSG College of Technology, Coimbatore	2006	2008	Two Years
	Resident Tutor, Birla Block/Rajam Block, MIT Hostels, Madras Institute of Technology, Chennai	January 2001	January 2005	Four Years
	Assistant Warden, I Year Hostel,	1995	1996	One Year

	Arulmigu Kalasalingam College of Engineering, Srivilliputhur			
As Member in Executive Committees / Boards (University Level)				
	Member, Executive Committee Anna University Sports Board (AUSB)	September 2013	May 2016	Three Years
	Member, Research Board, Centre for Research, Anna University Chennai	October 2013	May 2016	Three Years
	Member, Syndicate Committee for Affiliation, Anna University of Technology Tirunelveli	2009-10	2010-11	Two Years
	Member, Research Board, Centre for Research, Anna University of Technology Tirunelveli	2009	2012	Three Years
	Member, Board of Studies – Faculty of Mechanical Engineering, Anna University of Technology Tirunelveli	2009-10	2011-12	Three Years
	Member, Board of Studies – Faculty of Mechanical Engineering, Anna University of Technology Coimbatore	2007	2008	One Year
	Member, Anti-Ragging Committee, Anna University of Technology Tirunelveli	2009	2012	Three Years
	Member, Purchase Committee, Anna University of Technology Tirunelveli	2009	2010	One Year
As Member in Executive Committees / Boards (Institute Level)				
	Member (University Nominee) – Board of Governance, Government College of Engineering, Tirunelveli	2010-11	2012-13	Three Academic Years
	Member (AICTE Nominee) – Governing Council, Sankar Polytechnic College, Sankar Nagar, Tirunelveli	2011-12	2015-16	Five Academic Years
	Member (University Nominee)-Governing Council, Few Affiliated Self Financing Engineering Colleges	2011-12	2011-12	One Academic Year
	Member, Purchase Committee, University VOC College of Engineering, Thoothukudi	2009	2012	---
	Member (AICTE Nominee) – Staff Selection Committee, Thiagarajar College of Engineering (Madurai)	2012	2013	---
	Member (AICTE Nominee) – Staff Selection Committee, VSVN Polytechnic College (Virudhunagar)	2012	2014	---

As Chairman / Member in Expert Committees				
	Chairman, Expert Committee, Recognition of Research Department, Centre for Research, Anna University Chennai	2015	2015	---
	Member, Expert Committee, Recognition of Research Department, Centre for Research, Anna University Tirunelveli	2010	2010	---
	Chairman, Inspection Committee, Grant of Affiliation, Centre for Affiliation of Institutions, Anna University Chennai	2014	2019	---
	Member, Inspection Committee for Affiliation of Colleges, Anna University Chennai	2012	2016	---
	Member, Inspection Committee for Affiliation of Colleges, Anna University of Technology Tirunelveli	2009	2012	---
	Member, Inspection Committee for Affiliation of Colleges, Anna University of Technology Coimbatore	2009	2009	---
Role in Curricular & Co-curricular Activities				
	Chairman, Class Committee, Two Batches of ME Aeronautical Engineering Students, Anna University Regional Campus-Tirunelveli	2012	2013	Two Years
		2016	2017	
	Project Coordinator, Two Batches of ME Thermal Engineering Students, Anna University Regional Campus-Tirunelveli	2017-18	2018-19	Two Years
	Faulty Advisor, One Batch of ME Thermal Engineering Students, Anna University Regional Campus-Tirunelveli	2017-18	2018-19	Two Years
	Tutor, One Batch of ME Energy Engineering Students, PSG College of Technology, Coimbatore	2006	2007	One Year
	Faculty Advisor, CAP and NATURE Club, PSG College of Technology, Coimbatore	2005	2006	One Year
	Faculty Advisor, SAE INDIA Collegiate Chapter, PSG College of	2005	2006	One Year

	Technology, Coimbatore			
	Council Member, Faculty Club, PSG College of Technology, Coimbatore	2006	2007	One Year
	Faculty Advisor, 2001-2005 Batch BE Automobile Engineering, Madras Institute of Technology, Chennai	2001	2005	Four Years
	Staff In-charge, R & AC Lab and Steam Lab, Mepco Schlenk Engineering College, Sivakasi	1999	2001	One Year
	Staff In-charge, Fitting, Carpentry and Smithy Shop, Arulmigu Kalasalingam College of Engineering, Srivilliputhur	1995	1996	Two Years

Research Guidance

- Number of Ph.D. Scholars (Degree Awarded) : 6
- Number of Ph.D. Scholars (Thesis Submitted) : 1
- Number of Ph.D. Scholars (Coursework Completed) : 2
- Number of M.E. Projects Completed : 28
- Number of B.E. Projects Completed : 5

PhD Research Projects (Completed):

Sl. No.	Name of the Scholar	Title of the Thesis	Date of Viva-Voce Examination	Degree Awarded
1	Dr. Arunachalam U	Heat Transfer and Mechanical Behaviour of Electrodeposited Nickel-Tungsten Coatings	30-12-2013	Yes
2	Dr. Suresh S	Experimental Analysis on Mechanical and Tribological Behavior of Al6061 Reinforced with TiB ₂ and Gr Hybrid Composite	06-03-2015	Yes
3	Dr. Arul Franco P	Processing and Characterization of Biodiesel from Sardinella Longiceps Fish and its Performance Study on I.C. Engine	27-04-2015	Yes

4	Dr. Ashok M	Experimental and Numerical Analysis of Solar Energy Driven Auxiliary Car Air Conditioning System	21-12-2015	Yes
5	Dr. Arun Vijay G	Investigation on Disintegration of Liquid Sheets Produced by Swirl Atomizer	03-11-2017	Yes
6	Dr. Venkatesan M	Investigation on the Performance and Emission of a HCCI Engine Fuelled with Seaweed Hydrous Methanol using Several CAI Techniques	03-08-2018	Yes

PhD Research Projects (Ongoing):

Sl. No.	Name of the Scholar	Tentative Topic of Research Work	Date of Confirmation / Month and Year of Admission*	Status of Research
1	Mr. Hariharan G	Enhancing the Efficiency of Solar Photovoltaic using Nano Coated Reflectors	21-11-2013	Thesis Submitted
2	Mr. Rajesh K	Investigation on Solar Greenhouse Dryer for Herbal Drying	July 2017*	Coursework Completed
3	Mr. Sivakumar E	Investigation of Heat Transfer of Trays in the Solar Photovoltaic-Thermal Hybrid Dryer for Drying Cashew Nuts	January 2018*	Coursework Completed

Awards:

- **'Best NSS Unit Award'** is awarded to **'University VOC College of Engineering Thoothukudi'** during the year 2014-15.
- Mr. K. Neelakantan, a ME Energy Engineering student received **TNSCST Cash Award** for an amount **Rs 5000/-** for his innovative renewable Energy based project done under my guidance. The same have been completed and reported. Based on the project a technical paper titled "Design and Development of Solar Electric Power Plant Using National Highways", have been presented and published in the Proceedings of the Second National Conference on 'Optimization Techniques in Engineering Sciences & Technologies (OPTTEST 2007)', held at Bannari Amman Institute of Technology, Sathyamangalam, Tamilnadu, during 28th & 29th March 2007, pp 148-153.
- **Attended "TECHSHOW '99"**, an **exhibit** organized by Anna University, also **WON** the **SPECIAL PRIZE** for the working model displayed in the exhibit, 1999.

Professional Lectures Delivered:

- As Subject Expert, delivered a special lecture on 08.12.2018 in the topic **"Gas Turbines"** in the Faculty Development Program "ME8493 Thermal Engineering I" held at University College of Engineering Villupuram during the Academic Year 2018-19.
- As Subject Expert, delivered a lecture on **"Thermodynamics – Basic Concepts and First Law"** in the Faculty Development Program "Engineering Thermodynamics" held at University College of Engineering Kanchipuram during the Academic Year 2017-18.
- As Subject Expert, delivered a lecture on 22.12.2017 in the topic **"Engineering Mechanics – Centroid and Properties of Surfaces"** in the Faculty Development Program "GE8292 Engineering Mechanics" held at University College of Engineering Kanchipuram during the Academic Year 2017-18.

- As Subject Expert, delivered a lecture on “**Heat Transfer - Natural Convection**” in the Faculty Development Program held at University College of Engineering Kanchipuram during the Academic Year 2015-16.
- As Subject Expert, delivered a lecture on” “**Heat Transfer - Natural Convection**” in the Faculty Development Program held at Anna University Regional Campus – Tirunelveli during the Academic Year 2015-16.
- Chaired a Technical Session specialized with Thermal Engineering in an **IEEE International Conference on “Energy Efficient Technologies for Sustainability”**, held during 10th-12th March 2013 organized by St. Xavier Catholic College of Engineering, Chunkankadai, Nagercoil, Tamilnadu, India.
- Chaired a Technical Session specialized with Thermal Engineering in an **International Conference on “Thermal Energy & Environment”**, held during 24-26 March 2011 organized by the Kalasalingam University, Krishnankoil, Tamilnadu, India.
- As Subject Expert, delivered a lecture on “**Biogas Utilization – Dry Process**” in one day **Workshop** on “**Biogas Utilization**” organized by School of Energy, PSG College of Technology, Coimbatore, Tamilnadu, India for the Faculty from various Engineering Institutions in Tamilnadu during 30th March 2007.
- As Subject Expert, delivered a **Keynote Address** on “**Solar Energy Technologies for Thermal Applications**” in the **National Conference** on “**Advances in Mechanical Sciences**” organized by Kumaraguru College of Technology, Coimbatore, Tamilnadu, India during 22nd to 24th March 2007.
- As Subject Expert, delivered lectures on topics “**Biomass - A Renewable Energy Option**” and “**Biogas - A Renewable Energy Option**” in the two weeks **AICTE-SDP** on “**Impact of Global Warming and Mitigation Opportunities**” organized by School of Energy, PSG College of

Technology, Coimbatore, Tamilnadu, India for the Faculty from various Engineering Institutions in India held during 7th to 20th May 2006.

- As Subject Expert, delivered lectures on topics **“Energy Conservation in HVAC Systems”** and **“Renewable Energy Sources for Building Energy Conservation”** in two days *Training Programme* on **“Building Energy Conservation”** organized by School of Energy, PSG College of Technology, Coimbatore, Tamilnadu, India for the Faculty from various Engineering Institutions in Tamilnadu during 5th & 6th May 2006.
- As Subject Expert, delivered lectures on topics **“Principles of Thermodynamics”, “Noise and Noise Control”, “Air-conditioning System Controls”, “Solar Cooling and Heating”** and **“Computers and Internet”** in the **“Refresher Course in General Engineering”** conducted for Senior Technicians of **ISRO-Bangalore, VSSC-Trivandrum** and **LPSC-Mahendragiri** organized by Liquid Propulsion System Centre – LPSC, Mahendragiri, Tamilnadu, India during 3rd to 5th August 2005.

Conferences / Workshops / Training Programmes (Organized):

- Patron, **National Conference** on **‘Emerging Technologies’**, held on 6th May 2011 at University Departments, Anna University of Technology Tirunelveli, Tirunelveli, Tamilnadu, India.
- Convener, **One-day Workshop** on **‘Research Opportunities at CVRDE’**, held on 6th April 2011 at Anna University of Technology Tirunelveli, Tirunelveli, Tamilnadu, India.
- Co-Convener, **National Conference** on **‘Emerging Trends in Energy & Environmental Engineering (DASPOTENZIA - 10)’**, held on 23rd April 2010 at Anna University of Technology Tirunelveli, Tamilnadu, India.
- Convener, **National Conference** on **‘Emerging Trends in Engineering and Technology’**, 17th April 2009, Anna University of Technology Tirunelveli, Tirunelveli, Tamilnadu, India.

- Co-Convener, **Two-day's Workshop** on '**Soft Computing – New Trends, Research Issues & Applications**', 19th & 20th March 2009, Anna University of Technology Tirunelveli, Tirunelveli, Tamilnadu, India.
- Coordinator, **“SAE National Student Convention”** held at PSG College of Technology, Coimbatore, Tamilnadu, India during 11th and 12th January 2008.
- Coordinator, **“AICTE-STTP on Evaluation of HVAC Systems & Performance Improvement”** held at PSG College of Technology, Coimbatore, Tamilnadu, India during 09th – 22nd December 2007.
- Member, Organizing Committee, **Workshop** on **“Biogas Utilization”** held at PSG College of Technology, Coimbatore, Tamilnadu, India during 30th March 2007.
- Member, Organizing Committee, **Seminar** on **“Emerging Energy Sources – The Renewable Energy”** held at PSG College of Technology, Coimbatore, Tamilnadu, India during 18th August 2006.
- Member, Organizing Committee, **Seminar** on **“Renewable Energy – Today and Tomorrow”** held at PSG College of Technology, Coimbatore, Tamilnadu, India during 12th August 2006.
- Member, Organizing Committee, **AICTE - Staff Development Programme** on **“Impact of Global Warming and Mitigation Opportunities”** held at PSG College of Technology, Coimbatore, Tamilnadu, India during 7th to 20th May 2006.
- Member, Organizing Committee, **Training Programme** on **“Building Energy Conservation”** held at PSG College of Technology, Coimbatore, Tamilnadu, India during 5th & 6th May 2006.
- Organizer, **In-house Seminar** on **“Emerging Trends in Automotive Technology”** held at PSG College of Technology, Coimbatore, Tamilnadu, India during 29th March 2006.

- Member, Organizing Committee, **Training Programme** on “**Industrial Energy Audit and Conservation Techniques**” held at PSG College of Technology, Coimbatore, Tamilnadu, India during 2nd & 3rd March 2006.
- Member, Programme Committee, Third **National Conference** on “**IT Enabled Product Development Strategies**” held at PSG College of Technology, Coimbatore, Tamilnadu, India during 9th & 10th December 2005
- Member, Programme Committee, two day **Workshop** on “**Technology Management**” held at Mepco Schlenk Engineering. College, Sivakasi, Tamilnadu, India during 17th & 18th January 2001.
- Member, Organizing Committee, “**45th ISTAM International Congress**” held at Mepco Schlenk Engineering. College, Sivakasi, Tamilnadu, India December, 2000.

Membership of Scientific and Professional Societies:

- **Life Member** in **ISTE** - Indian Society for Technical Education (**Membership Number: LM 27939**).
- **Life Member** in **SESI** - Solar Energy Society of India, Indian Section of the International Society (**Membership No. 1267/LM/2007**).
- **Member** in **ISHRAE** - *Indian Section* of the *International Society, ‘American Society of Heating Refrigerating and Air-conditioning Engineers’, ASHRAE*. (**ISHRAE Membership Number: 16359**).
- **Member** in **SAE INDIA** - *Indian Section* of the *International Society ‘Society of Automotive Engineers’, SAE International* (**SAE Membership Number: 7033000131**).

Fellowships and Grants:

- Mr. Neelakandan K has been sanctioned with Rs 5000/- by the Tamil Nadu State Council for Science and Technology (TNSCST) for his project titled “Design and Development of Solar Electric Power Plant Using

National Highways” done the project under the supervision of **Shenbaga Vinayaga Moorthi N**, Based on the work, a technical paper has been published in the Proceedings of the Second National Conference on ‘Optimization Techniques in Engineering Sciences & Technologies (OPTTEST 2007)’, held at Bannari Amman Institute of Technology, Sathyamangalam, Tamilnadu, during 28th & 29th March 2007, pp 148-153.

Consultancy Activities:

- Involved in an **Energy Audit Study** carried out for Burn Standard Co Ltd, Salem for an amount of **Rs. 1,23,596**.
- An amount of **Rs 4.87 lakhs** has been approved and sanctioned by the Advisory Board of L-RAMP, IITM Campus, Chennai, Tamilnadu, India for the proposal titled “**Validation of the Performance Claims of the Improved Brick Kiln**”.
- A certain component of “**Roots Auto Products Private Limited**”, Coimbatore had been **tested for their performance** by fixing them in CEILO Engine available at the Automobile Engineering Department, PSG College of Technology, Coimbatore, Tamilnadu, India.

Seminars / Short Term Courses /FDPs/ Workshops (Participated):

Professional Workshops / Training Undergone (1-Week / 2-Weeks):

Name of the Organization	Nature of Training	Period	Days
Anna University Regional Campus-Tirunelveli	Course on “Geo Informatics for Forest Fire Management”	02.04.18 to 07.04.18	6
Indian Institute of Technology Bombay, Powai	QIP Short Term course on “First Course in Computational Fluid Dynamics: Development, Applications & Analysis”	29.05.17 to 02.06.17	05
Anna University Regional Campus-Tirunelveli	Seven Days FDTP on ME6603 – Finite Element Analysis	05.12.16 to 11.12.16	07

National Institute of Technology: Tiruchirappalli - 620 015	Workshop on Biofuels and Combustion Research	28.09.16 to 01.10.16	06
Indian Institute of Technology Bombay, Powai	ISTE Workshop on Engineering Thermodynamics	11.12.12 to 21.12.12	11
Indian Institute of Technology Madras, Chennai	AICTE-SDP on CFD	02.06.08 to 07.06.08	06
School of Energy, PSG College of Technology, Coimbatore	AICTE-SDP on "Impact of Global Warming and Mitigation Opportunities"	07.05.06 to 20.05.06	14
Department of Automobile Engineering, MIT Campus Anna University, Chennai	Course on "STRENGTH OF MATERIALS"	22.11.05 to 27.11.05	06
Department of Mechanical Engineering, Kongu Engineering College, Erode	Applications of COMPUTATIONAL FLUID DYNAMICS (CFD) with reference to Food Industries	15.03.04 to 26.03.04	11
Centre for Faculty Development, Anna University, Chennai	Faculty Development Programme on "Principles of Environmental Science and Engineering"	01.12.03 to 06.12.03	06
Centre for Faculty Development, Anna University, Chennai	Faculty Development Programme on "Principles of Environmental Science and Engineering"	09.06.03 to 13.06.03	05
Blue Star Limited, Chennai	Erection, Commissioning and Maintenance of AC Systems	15.07.98 to 14.08.98	30
Certain Five Star Hotels, Chennai	Energy Auditing	15.06.98 to 14.07.98	30
Tuticorin Thermal Power Station, Tuticorin	Training on Boiler and Turbine Maintenance	01.06.93 to 15.06.93	15
Kattabomman Transport Corporation, Tirunelveli	Training on Engine Assembly & Gear Box Design	21.05.93 to 29.05.93	09

International Conferences / Congress / Expositions (Participated):

- Participated **“Green Building Congress 2007 – An International Conference & Exposition on Green Building”** organized by Confederation of Indian Industry at Chennai Trade Centre, Chennai during 13th to 15th October 2007
- Participated **“Green Building Congress 2006 – An International Conference & Exposition on Green Building”** organized by Confederation of Indian Industry at Hotel Grand Ashok, Bangalore during 13th to 15th October 2006.
- Participated **“International Mobility Engineering - Congress and Exposition 2005”** organized by SAEINDIA Southern Section at Chennai Trade Centre, Chennai during 23rd to 25th October 2005
- Attended **“MILCONRES”**, a three-day **International Conference on “Renewable Energy Technologies”** held at Indian Institute of Technology Madras, 2000.

National Conferences / Workshops / Training Programmes (Participated):

- Attended One day Workshop on **“NPTEL”**, organized by National Programme on Technology Enhanced Learning (IIT Madras), on 20th April 2013.
- Participated in the Southern Regional Teachers Training Programme on **“Renewable Energy Technologies for Engineering and Educational Institutions”**, jointly organized by Solar Energy Centre-Haryana and Ministry of Non-conventional Energy Sources - Haryana & Chennai during 03rd to 5th August 2006.
- Participated in the Training Programme on **“Interfacing of Sensors using PC”** organized by Department of Mechanical Engineering, PSG College of Technology, Coimbatore on 7th August 2005.

- Participated **“Staff Induction Training Programme”** organized by Educational Technology Centre, PSG College of Technology, Coimbatore during 16th and 17th July 2005.
- Participated and presented a technical paper in the **‘First National Conference on Automotive Infotronics’** at IITM, Chennai organized by SAE INDIA SIS during 22nd & 23rd August 2003.
- Attended Two days Workshop on **“Virtual Instrumentation”**, organized by Centre for Professional Development Education of Anna University, Chennai during 28th February & 1st March 2003.
- Attended deliberations of the **“Third Annual Convention”** of ISTE, Tamilnadu and Pondicherry Section held at Moderator Gnanadasan Polytechnic, Nagercoil, 2000.
- Attended one-day Seminar on **“Academic Management”**, at Mepco Schlenk Engineering College, Sivakasi, 2000.
- Attended one-day workshop on **“Latest Trends in Vehicle Technology”**, at Sri Ramakrishna Engineering College, Coimbatore, 2000.
- Attended one-day Seminar on **“Patent Awareness”**, at Mepco Schlenk Engineering College, Sivakasi, 2000.
- Attended **“EEC’99”**, a **National** level two-day **Workshop** on **“Energy Efficiency and Conservation”** at Anna University, Chennai, 1999.

Research Publications:

a. International Journals:

- 1 Hariharan G, Shenbaga Vinayaga Moorthi N, Karthickeyan D, and Thanikaikarasan S, “Influence of Annealing Temperature on the Characteristics of Chemical Bath Deposited Zinc Sulphide Thin Films for Solar Cell Applications” Journal of New Materials for Electrochemical Systems, Volume 22, Number 1, March 2019, pp xxx-xxx. (Paper No. JNMES 19-03-1201) – Accepted for Publication in Volume 22 (2019).

- 2 Hariharan G, Shenbaga Vinayaga Moorthi N and Karthickeyan D, "Effect of Post Annealing on the Characteristics of Zinc Sulphide Thin Films formed by Chemical Bath Deposition for Solar Cell Applications" Journal of the Balkan Tribological Association, Volume 25, Number 2, 2019, pp 331-341.
- 3 Hariharan G and Shenbaga Vinayaga Moorthi N, "Wear Performance of Hybrid Ceramic Reinforced Aluminium Metal Matrix Composite" Journal of the Balkan Tribological Association, Volume 25, Number 1, 2019, pp 113-130.
- 4 Hariharan G, Shenbaga Vinayaga Moorthi N and Dharani AP, "Synthesis and Structural Characterization of Nano Structured Zinc Sulphide Thin Films Grown on Glass Substrate by Chemical Bath Deposition", International Journal of Advanced Engineering Technology, Volume VII, Issue II, April-June 2016, pp 1191-1194.
- 5 Arun Vijay G, and Shenbaga Vinayaga Moorthi N, "Improved Linearized Breakup Model for the Liquid Sheets Produced by Swirl Atomizers" Journal of Propulsion and Power, Volume 32, Number 2, March-April 2016, pp 448-455.
- 6 Shenbaga Vinayaga Moorthi N, Arul Franco P and Ramesh K, "Application of Design of Experiments and Artificial Neural Network in Optimization of Ultrasonic Energy Assisted Transesterification of Sardinella Longiceps Fish Oil to Biodiesel", Journal of the Chinese Institute of Engineers (JCIE), Volume 38, Issue 6, September 2015, pp 731-741.
- 7 Venkatesan M, Shenbaga Vinayaga Moorthi N, Arul Franco P, Karthikeyan R and Manivannan A, "Spark-Assisted HCCI Engine using Hydrous Methanol as a Fuel: An ANN Approach", Biofuels, Bioproducts and Biorefining, Volume 9, Number 4, July/August 2015, pp 344-357.
- 8 Venkatesan M, Shenbaga Vinayaga Moorthi N, Karthikeyan R Manivannan A and Sathish Gandhi V C, "Experimental Investigation on Hydrous Methanol Fuelled Homogeneous Charge Compression Ignition Engine Using Spark Assisted Method", International Journal of Engineering (IJE Transactions A: Basics), Volume 28, Number 7, July 2015, pp 1099-1107.
- 9 Kathirvelu S, Shenbaga Vinayaga Moorthi N, Neelakrishnan S, "Biodiesel Production from High FFA Tree Born Non-Edible Ceiba Pentandra Seed Oil", International Journal for Technological Research in Engineering, Volume 2, Issue 7, March-2015, pp 1100-1106.
- 10 Anand Pratheeban C M, Rajendran M, Vettivel S C, Suresh S and Moorthi N S V, "Mechanical Behavior and Failure Analysis Using Online Acoustic Emission on Nano-Graphite Reinforced Al6061-10TiB2 Hybrid Composite Using Powder Metallurgy", Materials Science and Engineering: A, Volume 632, 24th April 2015, pp 1-13.

- 11 Venkatesan M, Shenbaga Vinayaga Moorthi N, Arul Franco P, Manivannan A and Karthikeyan R, "Hydrous Methanol Fuelled HCCI Using Ignition Improver CAI Method – ANN Approach", *Mechanics and Mechanical Engineering, International Journal*, Volume 19, Number 1, February 2015, pp 31-49.
- 12 Kathirvelu S, Shenbaga Vinayaga Moorthi N, Neelakrishnan S and Santhos M, "Performance, Emission and Combustion Characteristics of Neat Non-Edible Oil Methyl Ester as an Alternative Bio-Fuel for Variable Compression Ratio (VCR) Direct Injection (DI) Diesel Engine", *International Journal of Applied Engineering Research*, Volume 10, Number 38, 2015 Spl., pp 29327-29333.
- 13 Ashok M, Shenbaga Vinayaga Moorthi N and Neelakrishnan S, "Numerical Analysis of Automobile Cabin Temperature Variation with different Sun Shades for its Windows and Rear Wind Screen Glasses", *International Journal of Applied Engineering Research*, Volume 10, Number 9, 2015 Spl., pp 13747-13754.
- 14 Arun Vijay G, Shenbaga Vinayaga Moorthi N and Manivannan A, "Internal and External Flow Characteristics of Swirl Atomizers: A Review" *Atomization and Sprays*, Volume 25, Issue 2, February 2015, pp 153-188.
- 15 Arunachalam U, Shenbaga Vinayaga Moorthi N and Veeramani P, "Conductive Heat Transfer Behaviour of Electro-Deposited Nickel-Tungsten Alloy Coating", *Journal of Scientific and Industrial Research*, Volume 73, Number 12, December 2014, pp 777-780.
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