

Name : **P.JEYASANKAR**
Position : **Head & Assistant Professor**
Faculty of : **Physics**
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Date of Birth : **19/05/1977**



Languages Proficiency

Read : **Tamil, English**

Write : **Tamil, English**

Speak: **Tamil, English**

1. Qualification

Sl.No	Degree / Diploma / Certificate	Discipline	Name of the Institution	Year of Passing
1.	B.Sc.,	Physics	H.K.R.H. College, Uthamapalayam Madurai Kamaraj,University	1997
2.	M.Sc.,	Physics	S.V.N. College, Madurai Madurai Kamaraj University	1999
3.	M.Phil.	Energy Science	Madurai Kamaraj University, Madurai	2001
4.	PG Diploma	Computer Application	Madurai Kamaraj University, Nagamalai.	2010

2. RESEARCH EXPERIENCE: Ph.D UNDER PART TIME BASIS

Date of Registration	Title	Name of Guide	University
01.01.2014	Performance characteristics of solar thermal gadgets with nano-structured absorbers and novel reflectors	Dr.R.V.Jeba Rajasekhar Assistant Professor P.G.& Research Department of Physics, Government Arts College, Melur, Madurai District – 625 106	Bharathiyar University, Coimbatore (in progress)

3. Teaching Experience

Sl.No	Institution	From	To
1.	Vivekananda College	28.03.2007	Till date

4. Position Held in Vivekananda College

Sl.No	Name of the Position	Duration
1.	Assistant Professor of Physics	28.03.2007 to Till Date
2.	Head of the Department Physics	02.12.215 to Till Date

5. Position Held Outside

Sl. No	Name of the Position	Name of the Institution	Duration
1.	Research Assistant	Regional Test Centre, Madurai Kamaraj University, Madurai	01-06-2002 to 27-03-2007

6. Area of Specialization

- Solar Energy, Energy Physics
- Air Pollution & Environmental Studies

7. Awards:

- **Young Scientist Award from PSN Engineering College, Tirunelveli in the Year 2014**
- **Best paper presentation award from Velammal College of Engineering & Technology, Madurai in the year 2015**

8. RESEARCH EXPERIENCE

Part 1

- **Worked as a RESEARCH ASSISTANT in the continuous project funded by MINISTRY OF NEW AND RENEWABLE ENERGY (MNRE), GOVERNMENT OF INDIA from 01-06-2002 to 27-03-2007. The nature of work mainly included testing of solar thermal gadgets as per the specifications of BUREAU OF INDIAN STANDARDS (BIS).**
- **Tested solar water heaters (150 numbers) and solar cookers (5 numbers) [As per the specifications of Bureau of Indian Standards (IS 12933 (Pt.1,2 & 3) – 1992 & 2003, IS 13429 (Pt 1) -2000] and evacuated tubular based heating systems as per MNRE specifications.**

Part 2

Served as an experimental demonstrator in the following workshops conducted at Regional Test Centre (Solar Thermal), Madurai Kamaraj University, Madurai.

- **National Workshop on BIS Testing Standards of Solar Water Heating Systems (19-21, March 2003)**
- **Workshop on Testing and Maintenance of Solar Collectors and Cooker**

(23-24, March 2004)

- **Workshop on Testing and Maintenance of Solar Thermal Devices (28-29, September 2005)**
- **Workshop on Design, Fabrication and Testing of Solar Thermal Devices (12-13, September, 2006)**

9. Participation in Orientation / Refresher Course

- 1. UGC Sponsored Orientation Course from 03-11-2009 to 30-11-2009 conducted by UGC - Academic Staff College, Bharathidasan University, Tiruchirappalli, and obtained grade 'A'.**
- 2. UGC Sponsored Refresher Course in Physics on the theme of "Current Trends in Physics" from 10-11-2010 to 30-11-2010, Conducted by UGC - Academic Staff College, Madurai Kamaraj University, Madurai, and obtained grade 'A'.**
- 3. NSS Orientation course from 03-08-2009 to 12-08-2009 conducted by Training and Orientation Centre- National Service Scheme (Under the Auspices of the Ministry of Youth Affairs and Sports, Government of India) Avinashilingam University for Women, Coimbatore.**
- 4. One Day Orientation Programme for NSS Programme Officers, Conducted by National Service Scheme, Madurai Kamaraj University, Madurai, on 25th January, 2012.**
- 5. UGC Sponsored Refresher Course in Physics on the theme of "Current Trends in Condensed Matter Physics" from 12-11-2013 to 02-12-2013, Conducted by UGC - Academic Staff College, Madurai Kamaraj University, Madurai, and obtained grade 'A'.**
- 6. One Day Orientation Programme for NSS Programme Officers, Conducted by National Service Scheme, Madurai Kamaraj University, Madurai, on 06th January, 2014.**

10. Publication Of Research Paper

- 1. A research paper entitled has “Design, fabrication and testing of a long path absorber solar still” has been published in the Proceedings of the National Conference on Recent Trends in Energy Engineering, Organized by National Engineering college, Kovilpatti during 11th and 12th of October, 2003.**
- 2. A research paper entitled has “Vaccum tubes with nano based anti reflection coatings and their applications in solar heating systems” has been published in the Proceedings of the DAE, DST and DRDO Sponsored III National Conference on Advanced Materials – Processing, Characterization and Applications (NCAM-2013), Organized by Centre for Scientific and Applied Research, School of Basic Engineering and Sciences, PSN College of Engineering and Technology (Autonomous), Melathediyoor, Tirunelveli during 23-25, January 2013 (ISBN:9789382062868)**
- 3. A research paper entitled has “Studies on nano-sized carbon coated fin, C/Al₂O₃ coated absorber and TiO₂/SiO₂/Ag thin film coated reflector” has been published in the Proceedings of the UGC Sponsored National Seminar on Modern Trends in Chemistry-MTC-20, Organized by Post Graduate and Research Department of Chemistry, Vivekananda College, Tiruvedakam West, Madurai, during 30th and 31th of January, 2015 (ISBN:938510902-2)**
- 4. A research paper entitled ‘Preparation, characterization and evaluation of thermal efficacy of nanocarbon-MnO₂ coated solar absorber’ has been published in the International Journal of Scientific Research in Physics and Applied Sciences (IJSRPAS), Vol.6, Issue.2, pp.52-54 in April, 2018.**

5. A research paper entitled 'Assessment of thermal characteristics solar thermal collector with nanocarbon-MnO₂ coated absorber' has been published in the International Journal for Research in Applied Science & Engineering Technology (IJRASET), Vol.6, Issue IV, pp.4421-4424 in April, 2018.

6. A research paper entitled 'Estimation of energy gain of solar thermal collector with nanocarbon-MnO₂ coated absorber' has been published in the International Journal for Science and Advanced Research in Technology (IJSART), Vol.4, Issue 4, pp.3080-3082 in April, 2018.

11. Presentation of Research Papers for International Level

- 1. "Experimental assessment on the thermal characteristics of air and water heating solar collectors with black chrome coated galvanized iron absorbers" has been presented in the International Conference on Recent Advances in Physics 2013 (NCRAP 2013), Organized by P.G. & Research Department of Physics, Sri Vidya Mandir Arts and Science College, Uthangarai in collaboration with Indian Spectro Physics Association (ISPA), Chennai during 12th and 13th of August, 2013 (ISBN:978-93-81992-86-9)**
- 2. "Experimental assessment of thermal performances of solar collectors with nano- carbon and metal oxide coated fins" has been presented in the International Conference on Frontiers in Advanced Materials and their Applications (FAMA'18), Organized by P.G.& Research Department of Chemistry, Bishop Heber College (Autonomous), Tiruchirappalli, on 9th January, 2018 (ISBN:978-93-80767-73-4)**

12. Presentation of Research Papers for National Level

- 1. “Estimation of Emission Inventory and Evaluation of Air Quality in the vicinity of Thirumalai Naicker Mahal, Madurai” has been presented in the National Conference on Environmental Pollution Management and Sustainable Development, organized by the Department of Biology, Gandhigram Rural University, Gandhigram during 14th and 15th of December, 2006.**
- 2. “Experimental Estimation of Figures of Merit of Solar Cookers with Variations in Component Materials” has been presented in the National Conference on Energy Conservation and Renewable energy Technology, Organized by the Department of Physics, Virudhunagar Hindu Nadars’ Senthilkumara Nadar College, Virudhunagar during 26th and 27th of August 2011.**
- 3. “Experimental Determination of Heat Losses from Paraboloid Concentrator” has been presented in the National Conference on Recent Trends in Physics, Organized by the Department of Physics, V.V.Vanniaperumal College for Women (Autonomous), Virudhunagar on 3rd January, 2012.**
- 4. “Impact of alternate materials with special reference to absorbers and cooking trays on the thermal performance of solar collectors and cookers” has been presented in the National Conference on Renewable Energy Utilisation – Indian Perspective, Organized by Solar Utilisation Network Society, Central Electrochemical Research Institute, Karaikudi in association with Rural Energy Centre and Department of Physics, Gandhigram Rural Institute, Gandhigram during 5th and 6th of January, 2012.**
- 5. “Experimental assessment of optical characteristics of reflectors in solar concentrators” has been presented in the National Conference on**

Recent Advances in Physics 2012 (NCRAP 12), Organized by PG Department of Physics, Sri Vidya Mandir Arts and Science College, Uthangarai in collaboration with Indian Spectro Physics Association (ISPA), Chennai during 20th and 21th of July, 2012 (ISBN:978-93-80017-95-2)

- 6. “Vaccum tubes with nano based anti reflection coatings and their applications in solar heating systems” has been presented and published in the DAE, DST and DRDO Sponsored III National Conference on Advanced Materials –Processing, Characterization and Applications (NCAM-2013), Organized by Centre for Scientific and Applied Research, School of Basic Engineering and Sciences, PSN College of Engineering and Technology (Autonomous), Melathediyoore, Tirunelveli during 23-25, January 2013. (ISBN: 9789382062868)**
- 7. “Experimental investigations on fixed focus parabolic concentrators” has been presented in the National Academy of Sciences Sponsored National Conference on Recent Developments in Physics, Organized by the Department of Physics, Government Arts College, Melur during 30th and 31st January 2013.**
- 8. “Nano components in solar thermal gadgets: Reviews on recent researches” has been presented in the CSIR Sponsored National Conference on Recent Trends in Advanced Materials, Organized by the P.G.Department of Physics, Jeyaraj Annapackiam College for Women, Periyakulam on 05 & 06th February 2013.**
- 9. “Experimental studies on nano carbon coatings for heat transfer enhancements in solar collector” has been presented in the National Conference on Advancements in Mechanical Engineering and Nano Technology (NCAMENT-2014), Organized by the Department of Mechanical Engineering, PSN Engineering College, Melathediyoore, Tirunelveli, during 04&05th April 2014.**

10. **“Solar materials: Studies on optical absorptance, thermal stability and impacts on thermal performance’ has been presented in the National Conference on Advanced Materials 2014, Organized by PG & Research Department of Physics, Sri Vidya Mandir Arts and Science College, Uthangarai in collaboration with Indian Spectro Physics Association (ISPA), Chennai during 18 and 19th, July 2014 (ISBN:978-93-81992-44-9)**
11. **“Comparative assessment of optical characteristics of conventional and TiO₂/SiO₂/Ag thin film coated reflectors in solar systems” has been presented in the National Conference on Recent Advancements in the Frontiers of Science & Humanities 2K14 (NCRAF-2K14), Organized by Magna College of Engineering, Redhills -Tiruvallur High Road, Magaral, Chennai, on 18th October, 2014.**
12. **“Studies on nano-sized carbon coated fin, C/Al₂O₃ coated absorber and TiO₂/SiO₂/Ag thin film coated reflector” has been presented in the UGC Sponsored National Seminar on Modern Trends in Chemistry-MTC-20, Organized by Post Graduate and Research Department of Chemistry, Vivekananda College, Tiruvedakam West, Madurai, during 30th and 31th of January, 2015 (ISBN:938510902-2)**
13. **“Efficacy assessment of C/TiO₂ coated absorber in solar energy conversion process” has been presented in the two day National Seminar on Energy Storage Devices – ESD’15, Organized by the Department of Physics and Chemistry, Velammal College of Engineering &Technology, Madurai, during 08th and 9th of October, 2015.**
14. **“Preparation, characterisation and thermal efficacy of carbon and TiO₂ coated solar absorbers” has been presented in the DST sponsored two day second National Conference on Nanophotonics(NCNP-2016),**

Organized by the School of Physics, Bharathidasan University, Tiruchirappalli, during 18th and 19th March, 2016.

- 15. “Nano-sized carbon and NiO coated fins: Preparation, characterization and efficacy evaluation”, has been presented in the BRNS Sponsored National conference on Materials for energy devices, Organized by Department of Physics, The Standard Fireworks Rajarathnam College for Women (Autonomous), Sivakasi, during 23 and 24th, November, 2016.**
- 16. “Optimization of composition of nano-sized carbon and chromium oxide in absorptive coatings for photo thermal applications”, has been presented in the National level seminar on current trends in nanomaterial for various applications(NSNVA-2017), Organized by Department of Chemistry, Devakottai, on 27th January, 2017.**
- 17. “Theoretical prediction of thermal performance of solar collector with C-TiO₂, C-MnO and C-Cr₂O₃ coated absorbers”, has been presented in the BRNS, Mumbai & TNSTC, Chennai Sponsored National level conference on Nanoscience and nanotechnologies in the livelihood enhancement of common man (NSLECM-2017), Organized by PG & Research Department of Physics, Arul Anandar College (Autonomous), Karumathur, during 08th and 09th, February, 2017.**

13. Participation in Training Programmes / Seminars / Conferences

- 1. Training Programme on “Biomass Gasifier Systems” funded by the Ministry of Non- conventional Energy Sources, Government of India, at School of Energy Sciences, Madurai, 10-12th, October 2000.**
- 2. Two day UGC sponsored National Seminar on “Emerging Trends in Physics” Organized by the Department of Physics, Jeyaraj Annapackiam College for Women, Periyakulam on 30 & 31st August 2007.**

3. **One day International Workshop on “Challenges for the Environment and Effective Management” Organized by the Department of Science and Humanities, Francis Xavier Engineering College, Tirunelveli on 12th December 2007.**
4. **Two day UGC sponsored National Seminar on “Recent Advances in Material Science – RAMS - 2008”, Organized by the Department of Physics, Cauvery College for Women, Tiruchirappalli on 15th & 16th February 2008.**
5. **One day Intercollegiate meet named “PHYXPLOSION 09” Conducted by the Department of Physics, Lady Doak College, Madurai on 20th January 2009.**
6. **One day UGC Sponsored National Conference on “Energy Security for Rural Development – ESRD 2009”, Organised by the Rural Energy Centre, Gandhigram Rural University, Gandhigram, on 26th March 2009.**
7. **Two day UGC sponsored Regional Seminar on “Energy Scenario in Tamil Nadu”, Organized by the Department of History, V.V.Vanniaperumal College for Women, Virudhunagar, on 22 & 23rd July 2009.**
8. **One day UGC sponsored National Seminar on “Emerging Technologies in Semiconductor Devices” Organized by the Department of Physics, V.V.Vanniaperumal College for Women, Virudhunagar, on 17th September 2009.**
9. **Participated in the Second Science Conclave – A Congregation of Nobel Laureates, Organised by the Indian Institute of Information Technology (IIIT), Allahabad, Uttar Pradesh, during December 08-12-2009 to 14-12-2009. Also interacted with three Physics Nobel Laureates 1) Joseph Hooton Taylor (1993), 2) Dr.Robert C.Richardson (1996) 3) Dr.Douglas D.Osheroff (1996).**

10. **One day DBT Sponsored National Seminar on “Structural Bio Informatics – 2010”, Organized by Bioinformatics Centre, Department of Physics, Manonmaniam Sundaranar University, Tirunelveli, on 26th February 2010.**
11. **Three days National Science Academies Sponsored “Lecture Workshop on Recent Trends in Physics”, Organized by the Post Graduate and Research Department of Physics, Lady Doak College, Madurai from 10-10-2010 to 12-10-2010.**
12. **Two day DST & CSIR Sponsored “National Conference on Nano Materials” (NCN), Organized by the Department of Physics, Karunya University, Coimbatore, on 3rd & 4th, December 2010.**
13. **Two day UGC Sponsored “National Level Seminar on Recent Trends in Physics”, Organized by the Department of Physics, The Standard Fire Works Rajaratnam College for Women, Sivakasi, on 29th & 30th, December 2010.**
14. **Two day UGC-DRS-Phase III Sponsored State Level Seminar on “Recent Developments and Applications on Nano Systems”(RDANS-2011), Organized by the School of Physics, Madurai Kamaraj University, Madurai, on 10th & 11th, March 2011.**
15. **Two day NAAC Sponsored National Seminar on “Toning Up of Quality in Higher Education-Challenges and Strategies”, Organized by the Internal Quality Assurance Cell (IQAC), Vivekananda College, Tiruvedakam West, on 1st & 2nd August, 2011.**
16. **Demonstrated the Solar Thermal Gadgets in the Two day UGC Sponsored National Conference on Energy Conservation and Renewable energy Technology, Organized by the Department of Physics, Virudhunagar Hindu Nadars’ Senthilkumara Nadar College, Virudhunagar during 26th and 27th August, 2011.**

17. **Two day BRNS Sponsored “Workshop on Electron Microscopy”, Organized by the Department of Physics, National Institute of Technology, Tiruchirappalli on 4th & 5th November, 2011.**
18. **One day DRDO Sponsored National Seminar on “Recent Trends in Functional Materials – FUNMAT’12, Organized by the Department of Physics, Ultra College of Engineering & Technology for Women, Madurai, on 17th February 2012.**
19. **One day UGC Sponsored State Level Seminar on “Advanced Research in Physics – A few Perspectives in commemoration of “National Science Day & 100th Year of Discovery of Superconductivity”, Organized by the Department of Physics, Jamal Mohamed College, Tiruchirappalli, on 28th February 2012.**
20. **Two day UGC-DRS-Phase III Sponsored State Level Seminar on “Recent Advances in Crystal Growth and Crystallography (RACC-2012), Organized by the School of Physics, Madurai Kamaraj University, Madurai, on 21th & 22nd March 2012.**
21. **Two day National Science Academies Sponsored “Lecture Workshop on “The path way to Higgs Boson”, Organized by the Post Graduate and Research Department of Physics, The American College, Madurai on 28th & 29th August 2012.**
22. **One day National Seminar on “Materials of importance MATPHY’12”, Organized by the Department of Physics in collaboration with National Physical Laboratory (NPL), New Delhi, on 13th September 2012, at Mannar Thirumalai Naicker College, Madurai.**
23. **Two day UGC Sponsored State Level Lecture Cum Training Programme on “Research Instruments”, Organized by the Instrumentation Centre, Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi on 28th & 29th September 2012.**

- 24. One day UGC -Sponsored National Level Seminar on “X-Ray Crystallography”, Organized by the Department of Physics, S.Vellaichamy Nadar College, Nagamalai, Madurai , on 14th February 2014.**
- 25. One day UGC -Sponsored National Level Seminar on “Recent Developments in Space Technology and Astrophysics”, Organized by the Department of Physics, Sri Meenakshi Govt. Arts College for Women (Autonomous), Madurai , on 05th January 2015.**
- 26. One day National Seminar on “Writing skills of minor, major projects and proposals for conferences, seminars and workshops”, Organized by the Department of Library and Information Science, Rev.Jacob Memorial Christian College, Santhipuram, Ambilikkai, on 12th September 2015.**
- 27. One day National Level Workshop on “Green Energy and Management”, Organized by the Department of Physics, Mannar Thirumalai Naicker College, Pasumalai, Madurai, on 18th February 2016.**
- 28. One day National Level Seminar on “Nanoscience and Nanotechnology”, Organized by the Department of Physics, S.Vellaichamy Nadar College, Nagamalai, Madurai , on 19th February 2016.**
- 29. Indian Science Academies Sponsored a two day science academies’ lecture workshop on emerging trends in material science, Organized by the PG and Research Department of Physics, Raja Doraisingam Govt. Atrs College, Sivagangai, on 3rd and 4th January, 2017.**

14. Extra Curricular Activities

- **NSS Programme Officer (Unit No.77) Vivekananda College, Tiruvedakam West, from June 2009 to September 2016.**
- **Coordinator, Vivekananda College - Village Adoption Programme (VAP) June 2009 to December 2014**
- **Coordinator, Vivekananda College (Hostel) – June 2010 to December 2014**
- **Member, Board of studies, Vivekananda College - Extension activities from June 2010 to December 2012**
- **Served Zonal Officer at General Election to TNLA -2016, 190, Sholavandhan (SC) Assembly Constituency, Zone No.19**