

Dr.R.SELVAM

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**OBJECTIVES**

- To excel in the fields of Teaching and Research.
- To continuously upgrade the knowledge in the latest developments and disseminate them to the students and grow along with the organization.

ACADEMIC RECORDS

Degree / Certificate	Year	College
Ph.D	June 2020	Anna University-Chennai. PSG College of Technology, Coimbatore.
ME(Energy Engineering)	2012	Kumaraguru College of Technology, Coimbatore, Aggregate 9.25 CGPA First Class with Distinction
BE (EEE)	2009	Erode Sengunthar Engineering College, Perundurai, Aggregate 76% First Class with Distinction
Standard XII	2005	Indian Matric. Hr.Sec.School, Harur, Aggregate 84.25% First Class
Standard X	2003	Indian Matric. Hr.Sec.School, Harur, Aggregate 80.5% First Class

ACADEMIC EXPERIENCE

S.No	Name of the Institution	Designation	Period	Years of Experience
01	KCG College of Technology	Assistant Professor Senior Scale	18-06-2018	Till date
02	Shreenivasa Engineering college	Assistant Professor	18-06-2014 to 16-06-2018	4 Years
03	Jayshriram Group of Institutions	Assistant Professor	22- 03- 2012 to 11-06-2014	2 Years & 3 months
04	Jayshriram Group of Institutions	Lecturer	22-04-2009 to 31-08-2010	1 Year 4 Months
Total Experience				10 Years 4 months

PROFESSIONAL MEMBERSHIP

S. No	Organization	Membership Category	Membership Number
1.	The Institution of Engineers (India)	Life Time Member	M-1635608
2.	International Association of Engineers	Life Time Member	217095

SUBJECTS HANDLED

- Electrical Machines –I
- Electrical Machines –II
- Electromagnetic Fields
- Electromagnetic Theory
- Basics of Electrical and Electronics Engineering
- Electrical Engineering
- Electrical Drives and Control
- Renewable Energy Sources
- Energy Management and Auditing
- Electrical Machines Laboratory I & II
- Electrical Engineering Laboratory
- Power Electronics Laboratory
- Electrical Engineering & control System Laboratory
- Automotive Electrical and Electronics
- High voltage Engineering
- Electrical Energy Generation Utilization and Conservation
- Power system Transients
- Special Electrical Machines
- Power system operation and control
- Power Electronics for Renewable Energy systems
- Basics of Electrical Electronics and Instrumentation Engineering

AREAS OF RESEARCH

- Energy Management System for Hybrid Solar and Wind Power Generation.

PROJECT/WORKSHOP GRANTS RECEIVED FROM FUNDING AGENCIES

S. No	Title of the Project	Name of the Funding Agency & Sanctioned Amount	Duration	Status
1.	Emerging trends in wearable sensor in health care applications	DHR-ICMR-Rs.100000	5days	27 th to 31 st May 2019
2.	Vertical axis wind power generation for highway lighting and traffic signals	TNSCST Rs.7500	5 Months	Completed April-2019

3.	Mobile Application for Soil Moisture Sensor using Crop Management System	TNSCST Rs 10000	5 Months	Completed Aug-17
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PROJECT/WORKSHOP PROPOSALS SUBMITTED TO FUNDING AGENCIES

S. No	Title of the Project	Name of the Funding Agency & Amount	Date of Submission & Duration
1.	Empowerment of specific strata of society through implementation of patented nutraceuticals food supplement product process and enhancement of their livelihood using renewable energy sources	Science Technology and Innovation (STI) Hubs for Development of SC and ST Communities (DST) & 328.91 lakhs	28.08.2019 & 3 Years
2.	Design and Implementation of Intelligent Energy Management for PV/Wind/Grid Connected System using Fuzzy Controller	Scheme for Young Scientists and Technologists – DST & 13.15 Lakhs	20.04.2019 & 3 Years

AREAS OF PROJECTS

Energy Conservation in Online Tan delta Testing Method of 210MW, 230kV Power Transformer Bushing in MTPS

The objective of the project is to develop insulator property testing method of power Transformer bushing with the help of microcontroller .This method is to extend the transformer life, prevent the bushing failure, and reduce loss of power generation and labor cost.

Optimization of Energy Consumed By Three Phase Induction Motors Using Microcontroller

The aim of the project is to save the electrical energy consumed by three phase induction motor ,based on the intermittent loading .The three phase induction motor is changed such that the star and delta connection whenever the motor operated under no load and loaded condition respectively.

Coin Based Mobile Charger

Power Cogeneration from Baggasse Feed Boiler in Sugar Industry

PAPERS PUBLISHED IN INTERNATIONAL and NATIONAL JOURNALS

No of papers published: 07

International Journals:

1. **R.Selvam**, T.Anuradha, S.Jayakumar, P.M.Venkatesh (2020), "IOT based Energy Management for Hybrid Solar and Wind Energy System" International Journal of Future Generation Communication and Networking, vol.13, no.2, pp.426-438 ISSN: 2233-7857. (Scopus).
2. **R.Selvam**, M.Shanmugapriya, P.M.Venkatesh, S.Manisha(2019), "An Energy Conservation Opportunity in Paper & Pulp Industry" Journal of Green Engineering, vol.9, no.4, pp.275-288 ISSN:2245-4586. (Scopus).
3. S.Jayakumar, **R.Selvam**, K.Karthikeyan, R.Natesan(2019), "Design and Implementation of Hybrid FIR Filters using Vedic Multiplier and Fast Adders" International Journal of Recent Technology and Engineering (IJRTE) Volume-8 Issue-4, November 2019 ISSN: 2277-3878.(Scopus).
4. Anuradha T, Ramya K, **Selvam R** (2019), "Design and implementation of solar powered automatic pesticide sprayer for agriculture" Journal of Physics: Conference Series, 10.1088/1742-6596/1362/1/012048. (Scopus).
5. **Selvam.R**, Dr.Velavan.R, Dr.Soundarajan.R(2019), "A Sustainable Energy management soft computing system for Photovoltaic/wind Hybrid Power Generation System" International journal of Environment and sustainable Development, vol.18, no.3, pp.239-258, ISSN: 1478-7466, IF-0.32, (Annexure-I).
6. **Selvam.R**, Dr.Velavan.R, Dr.Soundarajan.R(2017). "A Novel Method for Hybrid Solar/Wind/Battery Power Generation for Rural Electrification System", International Journal for Research in Applied Science and Engineering Technology (IJRASET) ISSN: 2321- 9651.
7. **Selvam.R**, Prasana Kumar.E, Saravana Kumar.K,Rajalingam.V,Gokul Babu.N (2014). "A Novel Rectifier for Hybrid wind and Solar System", International Journal of Engineering Research and Technology (IJERT) ISSN: 2278- 0181.

PAPERS PRESENTED IN NATIONAL /INTERNATIONAL CONFERENCES

No of papers presented: 17

International Conferences:

1. Presented a paper entitled "**IOT based Energy Management System for Hybrid Solar and Wind Energy**" at an International conference on Latest Trends in Engineering and Management held at IFERP-Pondicherry on 20th & 21st October 2019.
2. Presented a paper entitled "**Design and Implementation of Hybrid FIR filters using Vedic Multiplayer and Fast Adders**" at an International conference on Emerging Trends in Engineering Technology Management and Sciences held at Ashoka Institute of Engineering and Technology, Hyderabad on 23rd & 24th September 2019.
3. Presented a paper entitled "**Pesticide mixing and water level control with PLC Automation**" at an International conference on Science and Innovative Engineering held at Jawahar Engineering Chennai on 24th March 2019.
4. Presented a paper entitled "**Design and Fabrication of Vertical axis wind turbine for high way lighting**" at an International conference on Informatics, Robotics, Construction & communication and Innovative Engineering held at Jawahar Engineering Chennai on 22nd & 23rd March 2019.

5. Presented a paper entitled **“Power factor correction for a single switch AC-DC Boost Converter”** at an International conference on Robotics, Communication Technology, Electronics and Electrical Engineering held at South Asian Research Centre and Institute of Research and Journals on 17th February 2019.
6. Presented a paper entitled **“A Novel Method for Hybrid Solar/Wind/Battery Power Generation for Rural Electrification System”** at an International conference held at Karpagam College of Engineering Coimbatore on 05th & 06th Jan 2018.
7. Presented a paper entitled **“Quadrant type cooling Transformer ”** at an International conference ICASEM 2K17 held at Jayshriram Group of Institutions, on 30th & 31th March 2017.
8. Presented a paper entitled **“Design and implementation of ZVZCS Converter using Center Point Iteration MPPT Method with Application on PV System ”** at an International conference MULTICON’15 held at Muthayammal Engineering College, on 29th & 30th April 2015.
9. Participated one day International Conference on **“Wind Energy Systems- Modeling and Design”** held at Coimbatore Institute of Technology, on 11th February, 2011.
10. Presented a paper entitled **“Design and development of insulation measurement by online tan delta testing method of 210MW, 230KV Power Transformer Bushing”** at an International conference.

National Conferences

1. Presented a paper entitled **“Fabrication of sun tracking Solar system ”** at an National conference on Technological Advancements in Power systems & Power Electronics Engineering held at Easwari Engineering Chennai on 25th March 2019.
2. Presented a seminar **“A Sustainable Energy Management System for Photovoltaic/Wind Hybrid Power Generation System”** at PSG college of Technology on 09.01.2016.
3. Presented a paper entitled **“Design and implementation of ZVZCS Converter using Center Point Iteration MPPT Method with Application on PV System ”** at a National conference on Xtreme Engineering and Technological Advancements” organized by Jayam College of Technology held on 30th & 31th March 2015.
4. Presented a paper entitled **“Optimization of Energy Consumed by Three Phase Induction Motors Using Microcontroller”** at a national Conference conducted by Kumara guru College of Technology.
5. Presented a paper entitled **“Lab View Based Street Light Monitoring and Control System”** at a national Conference conducted by Kumara guru College of Technology.
6. Presented a paper entitled **“Design and development of insulation measurement by online tan delta testing method of 210MW, 230KV Power Transformer Bushing”** at a National conference conducted Gandhi gram rural institute-deemed university.

7. Presented a paper entitled “**Comprehensive design, modeling and analysis of permanent magnet synchronous generator based wind turbine system**” at a national conference conducted Gandhi gram rural institute-deemed university.

FACULTY DEVELOPMENT PROGRAMS AND WORKSHOPS ATTENDED

No of FDPs and workshops participated: 10

FDPS, Workshops and Seminars Attended

1. Participated “**AICTE Sponsored One Week National Level STTP on Present & Future role on Renewable Energy sources in Sustainable Rural and Tribal Development**” at Hindusthan Institute of Technology, Coimbatore on 2nd to 7th March 2020.
2. Participated three days Faculty Development Program on “**AICTE Sponsored Student Induction Program**” at Easwari Engineering College, Chennai on 22nd November 2018 to 24th November 2018.
3. Participated Two days Faculty Development Program on “**Goal setting**” Conducted by ICT Academy of Tamil Nadu at **The Kavery College of Engineering** on **29th & 30th April 2015**.
4. Participated one day Training Program on “**Fundamentals of Solar Photovoltaic energy conversion and hands on workshop on Diverse Applications**” organized by **PSG College of Technology**, held on **1st October 2014**.
5. Participated one day Seminar on “**How to write Research Article**” organized by **Knowledge Institute of Technology**, held on **28th August 2014**.
6. Participated in the National Level Seminar on “**Future and Scope of Renewable Energy**” organized by Department of EEE, **Kathir College of Engineering**, during the period **20th August 2013**.
7. Participated two day International workshop on “**Challenges and innovation in Renewable Energy Production**” conducted by VIT University Vellore.
8. Participated one day workshop on “**Energy Conservation and Renewable Energy**” on 8th July 2011 at the Residency Coimbatore organized by CII (Southern Region) and TECA Coimbatore.
9. Participated one day seminar on “**Renewable Energy Resources**” held at **Kalaivani College of Technology** on 20th August 2011.
10. Participated one day National level seminar on “**Renewable Energy-Energy Managements in Recent Trends**” held at **M.P.Nachimuthu M.Jaganathan Engineering College**, on 18th October, 2010.

WORKSHOPS, SYMPOSIUM AND CONFERENCES ORGANISED

No of Workshops, Symposium and Conferences organized: 05

Conferences, Symposium and Workshops Organized & Member in Conferences

S. No	Name of the Conference / workshop	Date
01	Emerging trends in wearable sensor for health care application	27-05-2019 to 31-05-2019
02	IPR Workshop	30-10-2018
03	Recent Advances in Science, Engineering and Technology-RASET(2014)	20-03-2014 & 21-03-2014
04	Recent Trends in Communication Power & Intelligent Computing-National Level	29-03-13
05	Workshop on Novel Trends in Power Quality Engineering	10-09-2012

NATURE OF DUTIES

KCG College of Technology

1. Handled subjects like, Electrical Machines -II, Electrical Drives and Control and produced good results.
2. Control System & Instrumentation Laboratory In charge, and Prepared Lab Manual.
3. Organized five day workshop sponsored by DHR-ICMR Rs.1 Lakh
4. Organized IPR- one day workshop
5. **Research Coordinator**
6. Being Class Advisor
7. Student's counselor.
8. Admission School Connect Coordinator

Shreenivasa Engineering College

1. Handled subjects like Electromagnetic Theory, Electrical Machines -I, and Automotive Electrical and Electronics and Biomedical Instrumentation produced good results.
2. Being Class Advisor.
3. Association Coordinator.
4. Organized one day Seminar
5. Being Electrical Machines Laboratory In charge, and Prepared Lab Manual.
6. Organized one day workshop.
7. Admission Coordinator.
8. Placement Coordinator.
9. Project Coordinator.

Jay Shriram Group of Institutions

1. Handled subjects like Electromagnetic fields, Electrical Engineering, Electrical Drives and Control and produced Good results.
2. Renewable Energy Sources- Produced 100% Results
3. Being Electrical Machines Laboratory In charge, and Prepared Lab Manual.
4. Organized Two day Intra symposium
5. Organized one day workshop
6. Organized one day National Conference

7. Being Class Advisor
8. Student's counselor.
9. Department Library In charge
10. Department Stationary In charge
11. Placement Coordinator
12. Exam Cell Coordinator
13. Hostel Caretaker

PERSONAL INFORMATION

Name	:	R.Selvam
Date of Birth	:	12 th June 1987
Permanent Address	:	Kalliyur, Gopalapuram, Alapuram(P.O), Pappireddipatti(T.K), Dharmapuri-636 904.
Mobile No.	:	8098978052,9952759937.
Email Address	:	selvamr37@gmail.com

LANGUAGES KNOWN

To Speak: Tamil, English.

To Read and Write: Tamil, English and Hindi.

I hereby declare that all the details furnished here are true to the best of my knowledge.

REFERENCE

1. Dr.R.Velavan, M.E., Ph.D.,
Professor, School of Energy Engineering,
PSG College of Technology-Coimbatore,
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2. Dr. A Soundarrajan, M.E., Ph.D.,
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Date: 13.08.2021



(R.SELVAM)