

# CURRICULUM VITAE



**Dr.S.RAJASEKARAN**

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**Objective:**

To derive a sense of professional achievements through challenging assignments encompassing ideal academic requirements. Dedication towards work, Zeal for learning and forming cohesive performing atmosphere rather make me a good team player.

**Educational Profile:**

- ▶ **Ph. D.(Power System)** in **Anna University, Chennai** April- 2018
- ▶ **M.E. (Power system)** at Annamalai University, Chidambaram from 2002 to 2004.
- ▶ **B.E. (Electrical and Electronics Engineering)**, Madras University from 1998 to 2001.
- ▶ **Diploma (EEE)** at Muthaiyah Polytechnic, Chidambaram from 1995- 1998.

**Experience Profile:**

- 1. Designation : Professor & Head [Additional Responsibility – Dean]**  
**Institution** : M.A.M College of Engineering & Technology  
**Duration** : 01.06.2018 to Till Date
- 2. Designation : Associate Professor & Head**  
**Institution** : M.A.M College of Engineering & Technology  
**Duration** : 04.06.2014 to 31.05.2018
- 3. Designation : Associate Professor**  
**Institution** : M.A.M College of Engineering  
**Duration** : 28.10.2011 to 03.06.2014
- 4. Designation : Associate Professor & Vice Principal**  
**Institution** : Roever Engineering College.  
**Duration** : 09.06.2006 to 30.09.2011
- 5. Designation : Lecturer**  
**Institution** : Paavai Engineering College, Namakkal.  
**Duration** : 23.05.2005 to 31.05.2006

**6. Designation :** Lecturer

**Institution :** Annai Mathammal Sheela Engineering College, Namakkal.

**Duration :** 23.06.2004 to 14.05.2005

**STRENGTHS:**

- The burning desire for self-improvement.
- A good team player with untiring positive attitude.
- Consistent quest for knowledge and innovation.
- Ability to strike a friendly chord with any kind of personality and versatility.
- Self-motivated disciplined individual.

**Research Interests:**

- Power system Optimization
- Research issues in Restructured power Market
- Power Quality
- Application of Intelligent techniques to power system problems
- Intelligent Energy Management for Restructured Power Market

**Publications:**

**A. National / International Conference:**

- Presented a paper titled “**Economic Emission load dispatch by using Evolutionary Programming Technique**” in the national conference Organized by the association of EEE Department at **Vivekananda College of Engineering for women**, Tiruchengode on **25.02.2005**.
- Presented a paper titled “**Design of high frequency isolated dual bridge bidirectional series resonant DC-DC converter for renewable energy system with battery backup function**” in CSIR sponsored national conference organized by the dept. of ECE at **Sudharsan Engg. College**, Sathiyamangalam, pudukottai on **23.02.11**.
- Presented a paper titled “**Mitigation of voltage sag and swell using intelligent control-based DVR**” in the national conference at Selvam College of technology, namakkal during **15.03.13 & 16.03.13**.
- Presented a paper titled “**Distributed grid-connected solid oxide fuel cell during fault condition**” International conference organized by **J.J.College of Engg., & Tech.**, during **14<sup>th</sup> - 15<sup>th</sup> December 2012** and also published in **IEEE Explore**.
- Presented a paper titled “**Implementation of Matrix Converter to Improve Efficiency in Wind Energy Conversion**” International conference on Renewable energy utilization (ICREU-2014) organized by department of electrical and electronics engineering, **Coimbatore institute of technology**, Tamilnadu, India during **8<sup>th</sup> - 10<sup>th</sup> JAN-2014**.

## B. International Journal

- A paper titled: “**Collaborative optimal preventive Maintenance schedule using goal programming**” published in the international journal of advanced operations Management, **vol.3, no.2, 2011.**
- K.Sivaraj,S.Rajasekaran and S.Julius Fusic, “**Integrated Renewable Energy System with Hydrogen Energy Storage**”International journal of Advanced Research in Electrical and Electronics Engineering,Vol.2,issue:1, March 2014.
- S. Rajasekaran and S.Sathiyamoorthy, “**Operation and analysis of restructured power market with wheeling transactions**” International journal of applied engineering research, Vol.10, No.13, 2015.pp.33029-33034. **(Annexure II)**
- S. Rajasekaran and S.Sathiyamoorthy, “**Power flow analysis of restructured power market with wheeling transactions for variable loads**” International journal of scientific engineering and applied science, Vol.02, September 2016.
- S. Rajasekaran and S.Sathiyamoorthy, “**Fuzzy based intelligent monitoring of critical lines in the restructured power market**” **Circuits and systems**, Vol.7, 2016. **(Updated list of Journals)**
- S. Rajasekaran and S.Sathiyamoorthy, “**Impact of distribution energy resources in the computation of locational marginal pricing**”, Middle –East journal of Scientific Research, Vol.24(10), pp.3159-3166. **(Annexure II)**
- Dr.S.Rajasekaran and Dr.B.Muruganatham, “**Automatic Ration Material distribution system**” , Mathematical statistician and Engineering Applications,Vol.71 No.4 (2022), pp. 13084-13092.
- Dr.S.Rajasekaran, I.Kumara swamy et.al, “**Assessment of PQ issues using Dynamic Voltage Restorer with Adaptive Filter**”, Japan Society of Mechanical Engineers journal of Bio Mechanical science and Engineering,(2023)
- Dr.B.Muruganatham and Dr.S.Rajasekaran, “**A comprehensive review on different types of fuel cell and its Applications**”, Bulletin of Electrical Engineering and informatics,(2023).
- G.Sophia Josephine, Dr.S.Rajasekaran et.al. “**Optimal location for an EVPL and capacitors in grid for Voltage Profile and power loss: FHO\_SNN Approach**”. ESWA-D Elsevier (2023).
- Dr.S.Rajasekaran, Mr.Murugaperumal et.al., “**Integrated renewable electrification system modelling and tri-objective optimization analysis for net zero energy institutional building: a simulated case study of green hydrogen production**”, Environment, Development and sustainability-Springer(2024).
- Dr.S.Rajasekaran, Dr.Padmanaban et.al., “**An optimal Feature Extraction-based Demand side Management in Power system using Deep Neural Network**”. Electric Power components and systems, Taylor and Francis, **Accepted for Publication. (May 2024)**

**Research On Going:**

- Machine learning Application to Power system Problems

**Patents Published:**

Published the pattern in “SSD-PLANTER: Spraying Seeds Dispensed from a Planter” On 27.12.2019, Application number – 201941051600.

**NPTEL Courses:**

- Achieved **ELITE NPTEL** Online certification on “**Introduction to Research**” conducted by **IIT, MADRAS from** July to September 2016
- Achieved **ELITE NPTEL** Online certification on “**Emotional Intelligence**” conducted by **IIT, MADRAS from** Jan to March 2017
- Successfully completed a NPTEL Online certification on “**Power System Analysis**” conducted by **IIT, MADRAS from** July to October 2017
- Successfully completed a NPTEL Online certification on “**Electrical Distribution system analysis**” conducted by **IIT, MADRAS from** August to September 2018.
- Achieved **ELITE NPTEL** Online certification on “**Outcome Based Pedagogic principles for Effective Teaching**” conducted by **IIT, Kharagpur from** Feb to March 2024.

**Additional Responsibilities/ Achievements/Accomplishments: [MAMCET – (2014 - Till Date)] – HoD -EEE & DEAN**

- **Instrumental** to start many **Professional chapters** across various departments like **IE(I), IEEE, IETE, CSI, IWS, ICI etc.**
- Bagged the **Best Student Chapter award for IEEE Chapter** in the year 2019.
- **Adopted 5 villages** in coordination with MSDI through **UBA Scheme** and conducted more no.of events especially we have received Rs.1,00,000/- each for konalai and Samayapuram to implement various technological solutions
- **Instrumental** to start the **International Toast Master Faculty Club** at MAMCET.
- **Bagged the PALS Award from IIT, Madras** during the Academic year 2018-19 and 2020-21
- **Act as a Coordinator for Margadharasan Scheme tie up with NIT, Trichy** and organized more FDP for faculty, Paid internship for students and faculty etc..
- Instrumental to receive more fund from **TNSCST** for students’ projects.
- Organized more training through **PMKVY, ESDM and NSDC** for school students in coordination with MASTeR skill development institute.
- Received as a valuable **NPTEL Local chapter** appreciation **with a rating**

of **AA** based on performance in NPTEL online certification course during the period July –December 2018 from **IIT Madras**.

- **Active member** in Artificial Intelligence (**AI**) **core Group** in Association with **Bennet University, Great Noida**.
- **Instrumental to train our faculty** in more technical courses conducted by **IIT, Bombay**.
- **Trained 1000+** school **students in spoken tutorial** organized by **IIT, Bombay** through ourMSDI institute.
- **Organized as a Convener of IEEE sponsored 9<sup>TH</sup> “International Advanced Computing conference –IACC 2019** in Association with **Bennet University, Great Noida during 14 -15 December 2019 at Trichy**.
- Owned the Process for **Admission**, Infrastructure, DOTE Approval Process, for MASTeR group of institutions.
- **Installation of Power system simulation Lab, Preparation of Lab Manuals** for all the laboratory and also prepared the lab observation.
- **Act as a Convener for Graduation Day** from 2014 to 2018 at college level.
- Act as a convener for many mega events inside and outside the Organization.
- Instrumental to start the **IEEE chapter** at college level and organize more events.
- Implemented the “**Solar Power RO System for Ground Water Purification**” at Konalai village as a part of UBA Scheme and being sanctioned **Rs.1,00,000/-** from government.
- The various events conducted in association with the **IE(I)** paved a path for bagging the **Best Engineering College Student’s Chapter Award** for the year **2017-18** at the national level. A trophy and a cheque enclosed for Rs.20,000/- was presented by the Institute of Engineers at Kolkatta.
- Organized a one week FDP sponsored on “**Solid State Drives**” during December 2014 **sponsored by Anna University, Chennai**.

**Additional Responsibilities/ Achievements/Accomplishments: [At M.A.M. College of Engineering]**

- **Installation of Power system simulation Lab, Preparation of Lab Manual** and also prepared the lab observation for the first time.
- **Act as a Treasurer** in National conference on “**IPECS-2012**” and National level Technical symposium on “**CALNIX’12**”.
- Conducted the national conference as a coordinator titled “**IPECS’13**” in the department of EEE **sponsored by CSIR, Govt. of India**.
- Prepared the proposal for **FDP on “Role of power electronics for future power system”** and organized as a Secretary with HOD and got the

- sponsorship amount **from AICTE Rs 5,85,000/-**
- Prepared the proposal for **FDP on “Role of power electronics for Restructured power system & Management”** and organized as a Secretary with HOD and got the sponsorship amount **from AICTE Rs 5,00,000/-**
  - Prepared the proposal for **National conference on “IPECS’13”** and organized as a coordinator and got the sponsorship amount **from CSIR Rs- 30,000/-**
  - Instrumental and play a key role with HOD to get the **2 MODROBS Scheme** in department of EEE, MAMCE and got the **AICTE sponsorship Rs-16, 85,000.**
  - **Act as an Academic incharge, Class coordinator, Module coordinator and** play a major role for the growth of the department.
  - **Worked as a coordinator in the direct second year admission** by bringing other polytechnic students to visit our campus and conduct the career guidance program with the help of respective department.
  - Instrumental and play a key role **in NBA Accreditation - 2012**
  - Worked as a coordinator in I & Lateral Entry admission at college level.

**Additional Responsibilities/ Achievements/Accomplishments: [At Roever Engineering College]**

- HOD I/C in CSE department from June 2006 to Aug 2008
- Additional Administrative responsibilities as **Vice Principal** in Roever Engineering College from August **2008 to 30.10.2011**. Instrumental in planning and execution of many academic systems like remedial measures, academic audit, disciplinary measures for non-performers and admiration for performers, PAS, Feedback etc.
- Preparation of Lab Manuals for various laboratories and their developments.
- Preparation and Execution of Academic Calendar.
- Preparation and Execution of Academic Schedule.
- Instrumental in upbringing the academic growth in REC.
- Instrumental in bringing up the higher rank position of REC in Trichy zone.
- Co-ordination with placements particularly introducing language club to enhance REC students’ employability.
- Instrumental in organizing green energy campaign, installing various professional bodies at REC, Wipro’s Mission 10X (Faculty empowerment program).
- Maintenance of study hours in boys’ and girls’ hostels which had greatly helped in elevating students’ performance in University Exams.

- Introduced pre-semester exam in University pattern with supervised coaching. Devised evaluation system for students' performance in exams.
- Introduced structured system for faculty recruitment and Quality Improvement Programme (QIP).
- Conducted various state and national level symposia for the entire college (REC) under various disciplines.
- Conducted a national conference titled **"Energy for Redefined"** in the department of mechanical engineering sponsored by MNRE, Govt. of India.
- Produced 5 university rank holders during my tenure as Vice Principal at REC.
- Instrumental in bringing out the college magazine [**Jijnaza**] for the academic years 2008-09, 2009-10 and 2010-11.
- Working experience with Structured Sixth pay implementation.
- Research forum was organized to bring publications among faculties.
- Created the **Computer support group (CSG)** which can interface all departments to transform the institute as paperless office in long run.
- Roever forum was created in which all the subjects' materials, question papers for various disciplines were uploaded for the benefit of students and research articles presented/published also find their place to promote research culture.
- Communication club is introduced to carry out activities to improve communication skill of students so as to make them more competitive.

#### **Workshop / Seminar / FDP / SDP Attended:**

- Participated in Two Day State level faculty Development program on **"COMPREHENSION"** during **14.08.2004 & 15.08.2004** at Kurinji College of Engineering & Technology, Manapparai.  
Participated in One day workshop on **"Safety and Stress Management"** Organized by the department of chemical engineering under TEQIP at **NIT, Tiruchirappalli** on **8.12.2006**.
- Participated in the Training Program on **"Testing and Commissioning of SS Equipment's"** From **7.12.2007 to 8.12.2007** organized by technical training & development Centre, **Thanjavur, TNEB**.
- Participated in the **AICTE - MHRD** sponsored staff development Program on **"Computer Control of Processes"** from **04.01.2010 to 09.1.2010** at **NIT, Tiruchirappalli**.
- Participated in the **AICTE sponsored** staff development program on **"Recent Advancements in Intelligent measurements and control"** from **19.04.2010 to 30.04.2010** at J.J. College of engineering and technology, Tiruchirappalli.
- Participated in Two-day workshop on **"Energy Management and Conservation in Modern Buildings"** organized by the department of EEE at **Anna University**

of Technology, Tiruchirappalli from **20.12.2010 to 21.12.2010.**

- Attended a Two-day National Workshop on “**Soft Computing Using Matlab**” conducted at Kongu engineering college from **28.01.2011 to 29.01.2011.**
- Attended Short term course on “**Power system stability issues with distributed generators**” organized by department of EEE, **NIT, Tiruchirappalli** from **29.06.2012-30.06.2012.**
- Actively Participated in **TEQIP sponsored** short term course titled, “**Emphasis on Smart Operation and Control of Power Markets Using Power Electronics Components,**” at Pondicherry Engg., College, and Pondicherry from **19.11.2012 to 23.11.2012.**
- Organized and participated **AICTE Sponsored** FDP on “**Role of power electronics for future power system**” at MAM college of Engg., from **06.05.2013-19.05.2013.**
- Actively Participated in **AICTE Sponsored** FDP on “**Analysis, Operation & Control of Restructured power market**” at Pondicherry Engg., College, and Pondicherry from **27.05.2013- 07.06.2013.**
- Organized and participated **AICTE Sponsored** FDP on “**Role of power electronics for Restructuring of power system & Management**” at MAM college of Engg., from **04.11.2013- 17.11.2013.**
- Participated in **CSIR Sponsored** two days National Seminar on “**Challenges Of Power System Planning In Restructured Indian Electricity Market**” at Pondicherry Engg., College, and Pondicherry from **13.12. 13-14.12.13.**
- **Served as a Coordinator** for the **Anna University Sponsored** FDP on “**Solid State Drives**” at MAM college of Engg.,& Tech., from **08.12.2014 - 14.12.2014.**
- Actively Participated in **AICTE Sponsored** Short term course on “**Challenges on Insulation Reliability in Smart Grid Applications (CIRSA)**” at Pondicherry Engg., College, and Pondicherry from **23.11.2015 - 27.11.2015.**
- Participated in **GIAN Course** on “**Grid Integration of PV Solar and Wind Power Systems**” at **IIT, INDORE, Madhya Pradesh,** from **12.02.2018 - 16.02.2018.**
- Successfully completed an AICTE approved FDP (FDP 101X) on “**Foundation program in ICT for Education**” conducted by **IIT, BOMBAY** through online from 13.09.2018 to 18.10.2018.
- Successfully completed an AICTE approved FDP (FDP 201X) on “**Pedagogy for online and blender Teaching – Learning Process**” conducted by **IIT, BOMBAY** from 30.09.2018 to 13.12.2018.
- Successfully completed a NITTTR approved STTP through ICT mode on “**Problem Based Learning**” conducted by **IIT, BOMBAY** from 30.09.2018 to 13.12.2018.