



PROFESSOR
Department of E.E.E
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Dr. C. SHANMUGA SUNDARAM

Professional Objective:

To pursue a challenging and inspiring career in a well established institution where I can use my Teaching and Technical skills to the maximum level.

Career profile:

- Excellent in providing the real time knowledge about the recent electrical technology.
- Excellent knowledge of subject and also have great practical knowledge in electrical engineering to improve student career.

Educational qualification:

DOCTOR OF PHILOSOPHY (Ph.D) ELECTRICAL AND ELECTRONICS ENGINEERING Pondicherry Engineering College, Puducherry, Pondicherry University, Puducherry	March 2018
POST GRADUATE (M.Tech) HIGH VOLTAGE ENGINEERING SASTRA Deemed University, Tanjore, Tamil Nadu	December 2002
UNDER GRADUATE (B.E) ELECTRICAL AND ELECTRONICS ENGINEERING Annamalai University, Chidambaram, Tamil Nadu	May 1998
DIPLOMA ELECTRICAL AND ELECTRONICS ENGINEERING Elumalai polytechnic ,Villupuram, Tamil Nadu	April 1990

Work experience: (starting from present position)

S.No	Employer	Designation	Period of Service	Nature of Work
1.	Manakula Vinayagar Institute of Technology	Associate Professor	04-07-2012 To Till Date	Teaching and Research
2.	Manakula Vinayagar Institute of Technology	Assistant Professor	20-11-2009 To 03.07.2012	Teaching and Research
3.	Mailam Engineering College	Assistant Professor	01-10-2004 To 19-11-2009.	Teaching and Research
4.	Mailam Engineering College	Senior Lecturer	01-10-03 To 30-9-04	Teaching and Research
5.	Mailam Engineering College	Lecturer	09-06-1999 To 30-09-2003	Teaching and Research

Teaching Activities: (Subjects Taught)

(i) **Under Graduate :** Electrical Machines I & II,
Renewable Energy, Energy Engineering,
Power system restructuring and deregulation,
Utilization of Electrical Energy, Power System Analysis,
Electrical Safety and Quality Management,
Electrical circuit Analysis.

(ii) **Post Graduate:** Electrical Machines and design

(iii) **Laboratories handled:** Basic Electrical & Electronics, Measurement and Control Lab,
Electrical machines I & II Laboratory, Power System Simulation Lab

Project Phase – I & II

Consultancy and Sponsored Research activities:

Name of the Scheme	Project Title	Duration	Amount Sanctioned	Status Completed/* Ongoing
AICTE Sponsored Two weeks FDP	Analysis and Modeling of Motors using FEM package [ANSYS]	18 th Nov to 30 th Nov 2013	5,00,000	Completed
Anna University Sponsored Staff Development Program	Power Electronics	7 th to 18 th May, 2007	5,00,000	Completed

Major tasks handled:

- Has been the Head of the department of Electrical and Electronics Engineering at Manakula Vinayagar Institute of Technology from 04.05.2018 to till date
- Has been the Head of the department of Electrical and Electronics Engineering at Manakula Vinayagar Institute of Technology from 20-11-2009 to 30.07.2015
- Has been the Head of the department of Electrical and Electronics Engineering at Mailam Engineering College from 09-06-1999 to 19-11-2009
- Board of Studies – as a member for the EEE Department in Pondicherry Engineering College.
- Has been the Exam Cell Coordinator for the academic year 2010-2011 & Additional Chief Superintended at Manakula Vinayagar institute of technology for conduction of Pondicherry University Examination (2014-2015)

Paper Publications / Presentation:

Journal/ Conference	Published	Accepted	Communicated	Total
International Journal	02	-	01	03
National Journal	-Nil-	-	-	-Nil-
International Conference	08	-	-	08
National Conference	-Nil-	-	-	-Nil-

FDP/STTP/Workshops Organised and Attended: 28 (Annexure Attached)

Reviewer for the journals: Journal of Electrical and Electronic Engineering

Research guidance: -Nil-

Project Guidance: UG and PG level guided.

Guest Lectures delivered: -Nil-

Professional Membership: Life Member of ISTE, Life Member of IE.

PAPERS PUBLISHED

Inter National journal

1. Shanmuga Sundaram C, Sudhakaran M, Ajay-D-Vimal Raj, Tabu Search Enhanced Artificial Bee Colony Algorithm to Solve Profit Based Unit Commitment Problem with Emission Limitations in Deregulated Electricity Market, International Journal of Meta-Heuristics, Inderscience Publications, Vol. 6, Nos. 1/2, pp.107-132, 2017.
2. Shanmuga Sundaram C, Sudhakaran M, Ajay-D-Vimal Raj, Tabu Search Enhanced Artificial Bee Colony Algorithm to Solve Economic Load Dispatch with Prohibited operating zones and Ramp Rate Limit Constraints, International Journal of Electrical Engineering, Vol.101, pp.43858-43864, 2016.
3. Shanmugasundaram C, Sudhakaran M, Ajay-D-Vimal Raj, Tabu Search Enhanced Artificial Bee Colony Algorithm to Solve Economic Load Dispatch with Line flow limits and Voltage limits, International Journal of Electrical Power and Energy Systems, Elsevier publications . (Under Review)

Inter National conference

1. Shanmugasundaram C, Sudhakaran M, Selvakumar R, Natarajan R G, 2014. "Solution to Profit based unit commitment using swarm intelligence technique", international conference on computation of power, energy, information and communication. "ICCPEIC-2014", PP. 353-358, April 16-17, 2014 DOI: [10.1109/ICCPEIC.2014.6915389](https://doi.org/10.1109/ICCPEIC.2014.6915389).
2. Shanmugasundaram C, Sudhakaran M, Harthi M G, Ravichandran R, 2014. "Solution to unit commitment problem in conventional and restructured using FABC algorithm", International conference on advance in engineering and technology. "ICAET-2014", May 2-3, 2014. (CD ROM).
3. C.Shanmugasundaram and T.S. Sivakumaran "Development of PI controller for positive output super lift converters," First National Conference IEEE-09 held at MPNMJEC, Chennimalali, Erode, on Jan, 23, 2009.
4. C.Shanmugasundaram and T.S. Sivakumaran "Development of PI controller for negative output super lift converters," First National Conference IEEE-09 held at MPNMJEC, Chennimalali, Erode, on Jan, 23, 2009.
5. C.Shanmugasundaram and N. Arun Kumar "Simulation and real time implementation of Fuzzy controller for CUK converter operating in buck mode," International Conference (ICCCn 2008), Computing Communication and Networking, held during 18-20, Dec 2008.
6. C.Shanmugasundaram and P. Srinivasan "Control strategies for pulse width modulated multilevel inverters" published in the proceedings of CISCON-08 on April 18-19, 2008 at Manipal Institute of Technology, Manipal, India.
7. C.Shanmugasundaram and N. Arun Kumar "Simulation of conventional control for DC-DC cuk converter operating in buck mode" published in the proceedings of CISCON-07 on Nov. 9-10, 2007 at Manipal Institute of Technology, Manipal, India.
8. C.Shanmugasundaram and Y. Thiagarajan "Design and simulation of pi controller for a DC-DC boost converter using renewable energy system" published in the proceedings of CISCON-07 on Nov. 9-10, 2007 at Manipal Institute of Technology, Manipal, India.

FACULTY DEVELOPMENT PROGRAM /INDUCTION /REFRESHER PROGRAMME ORGANISED AND ATTENDED

1. ICTACT Sponsored Faculty Development Program on LIFE SKILLS at ICT Training Academy from 02.11.2015 to 06.11.2015
2. Convener for AICTE Sponsored Faculty Development Program on “Analysis & modeling of motors using FEM package (ANSYS)” at MIT from 18.11.2013 to 30.11.2013 and received a grand of Rs.5 lakhs
3. AICTE Sponsored Staff Development Program on “SMART OPERATION & CONTROL OF ELECTRICAL MACHINE & POWER SYSTEM” held during 2nd to 12th June 2010 organized by Pondicherry Engineering College.
4. Co-coordinator for Anna University Sponsored Staff Development Program on “POWER ELECTRONICS” held during 7th to 18th May, 2007 held at Mailam Engineering College, Mailam and received a grand of Rs.5 lakhs
5. AICTE Sponsored Staff Development Program on “ADVANCES IN EMBEDDED & WIRELESS TECHNOLOGY” held during 18th to 28th Jan, 2007 organized by Sri Manakula Vinayagar Engineering College, Madagadipet, Puducherry.
6. Anna University Sponsored Staff Development Program on “POWER SYSTEM OPERATION” held during 13th to 18th Dec, 2004 organized by I.R.T.T, Erode.

NATIONAL WORKSHOP/SEMINAR ORGANISED AND ATTENDED

1. Attended the AICTE Sponsored Quality improvement program on “Nascent generation and distribution, and potential research problem in power system” at Pondicherry engineering college from 04.12.2017 to 08.12.2017
2. ISTE sponsored one week short term training program (STTP) attended on “CONTEMPORARY WORD OF ELECTRICITY –Solar Energy” at Manakula Vinayagar Institute of Technology, Puducherry from 27.11.2017 to 01.12.2017
3. Attended the Two days AICTE sponsored seminar on “SMART GRIDS and GREEN SYSTEMS (Smart Greens) at Pondicherry Engineering College from 05.10.2017 to 06.10.2017
4. Successfully completed the three day professional development workshop on “TECH-Transform, Empower and Change” organized by SEED from 15.06.2017
5. Organized CSIR sponsored two days national seminar on “Recent Trends in Hybrid Power Generation” at MIT, Puducherry on 30.06.17 and 01.06.17.
6. Attended the AICTE QIP Sponsored Short Term Course titled “Challenges on Insulation Reliability in Smart Grid Applications (CIRSA)” at Pondicherry engineering college from 23.11.2015 to 27.11.2015
7. A Training program attended on “Cloud computing and advanced Java” was organized by ICT Academy of Puducherry at MIT from 22.07.2013 to 30.07.2013
8. Attended CSIR sponsored two days national seminar on Challenges of Power System Planning in Restructured Indian Electricity Market at PEC, Puducherry from 13.12.13 to 14.12.13.
9. Attended ISTE sponsored one day workshop on “research and Development in Engineering Institutions’ at MIT
10. Workshop on Virtual Simulation for Power Converter using Matlab organized by Prist university puducherry on 6.10.2012
11. Workshop on Soft Computing Techniques & E-Journal preparatory process organized by Dr. Pauls Engineering College puducherry on 17.10.2012

12. Seminar on “Intelligence System Applications to Future challenge in Power Engineering” held at Pondicherry Engineering College, Pondicherry from 09-09 -09 to 11-09-09.
13. Attended 6 days Training Program on “Exploring MATLAB and Its tools” held during 17th to 22nd August 2009 organized by Department of ECE at Mailam Engineering College & Raghuram Associates, Chennai.
14. Workshop on “Simulation Softwares” organized by SSN College of Engineering, Chennai from 14-11-06 to 15-11-06.
15. One day National Seminar on “Renewable Energy-Today & Tomorrow” sponsored by Ministry of Non-Conventional Energy Sources & Tamil nadu Energy Development Agency at Mailam Engineering College, Mailam on Aug, 19th 2006.
16. Three days National Seminar on “Recent Advances in Renewable Energy Technology Transfer” sponsored by AICTE, New Delhi, 27-29th Jan.-06, organized by Sri Manakula Vinayagar Engineering College, Madagadipet.
17. Attended seminar on 7th Aug, 2004 on “Innovative Teaching Techniques in Engineering Colleges” organized by Mailam Engineering College.
18. One day National Seminar on “Professional Ethics” conducted on 31st July, 2004 at Mailam Engineering College, Mailam and Guest Lecturers were given by Dr. Mrs. B. Sushila Balaguruswamy, K. S. Sharma, Njal Njalstroem and Rita D’Souza.
19. Two days workshop on “AU Power Lab” from May 31st to June, 1st 2004 at Anna University, Chennai
20. Three days ISTE XXX Annual Convention and National Seminar on “Shaping Technical Education for the Future” from Dec, 14-16 2000 at Nirma institute of technology, Ahmedabad.
21. Three days ISTE XXIX Annual Convention and National Seminar on “Management of Technical Education in the 21st Century” from Dec, 10 to 12, 1999 at Kongu engineering college, Perundurai.

PROGRAMS ORGANIZED IN THE COLLEGE AS CONVENER

1. Organizing a One Week AICTE-ISTE Induction/Refresher programme on “Smart Grid, Internet of Things and Green Computing-The Future of Energy Intelligence” from 16-07-2018 to 21-07-2018.
2. Organized one day IEEE workshop, titled “INDUSTRIAL AUTOMATION USING IOT” on 7th July 2018 organized by MVIT.
3. AICTE sponsored PMKVY (ASSISTANT ELECTRICIAN) – Rural Youth Development Programme – Coordinator in the year 2018
4. Co-ordinator of “SIGARTHA NOKKI” A career guidance program for HSc students held at cuddalore for 5 years from 2014 to 2018.
5. Organized the one day seminar on “ENERGY CONSERVATION AND METHODOLOGY” on 19.11.17 jointly with puducherry HR circle at MIT
6. Co-ordinator for the Non- Technical Symposium “TRANSMIT’ 14” on 29th & 30th Aug. 2014.
7. Convener for AICTE Sponsored Faculty Development Program on “Analysis & modeling of motors using FEM package (ANSYS)” at MIT from 18.11.2013 to 30.11.2013 and received a grand of Rs.5 lakhs.
8. Co-ordinator for the National Conference on “EMERGING TRENDS AND DEVELOPMENT IN ENGINEERING AND TECHNOLOGY” on 16th March, 2012.
9. Co-ordinator for the Second Technical Symposium “MITILENCE- 2011” was successfully conducted between 4th and 5th Feb, 2011.

10. Co-ordinator for the Symposium in the Department of Electrical & Electronics Engineering “ELECTRA” has been successfully inaugurated on 12th January, 2011.
11. Co-ordinator for the National Level Technical Symposium “MITLENCE-2010” was organized on 19th February, 2010.
12. Co-ordinator for the Symposium “TRICLONIX08” between Sept, 10 and 11th, 2008.
13. Co-coordinator for Anna University Sponsored Staff Development Program on “POWER ELECTRONICS” held during 7th to 18th May, 2007 held at Mailam Engineering College, Mailam and received a grand of Rs.5 lakhs.
14. Co-ordinator for the National Science Day Exhibition “Generic 2007” between Feb, 27th & 28th 2007.
15. Organized an Intra College level National Science Day “Generic 2006” as Convener on Feb, 28th 2006.
16. Organized a National Conference on “Advancement in Electrical and Mechanical Engineering” between Feb, 20 & 21, 2004.
17. Organized a One Day Technical Symposium “Electret 2001” and released a Magazine as Convener on Feb, 3 2001.