


FACULTY PROFILE							
Name		Dr. S. Aiswariya					
Qualification		M.E., Ph.D					
Department		Electrical and Electronics Engineering					
Designation		Associate Professor					
Date of Joining		06.10.2008					
Mobile Number		9488006122					
E - Mail		aiswariyasomasundaram@gmail.com					
Experience in Years		Teaching	Industry				
		16.2	-				
Area of Specialization		Soft Switching Power Electronic Converters, Snubber Circuits, Electric Vehicle Chargers.					
Publications	National Conference	International Conference	International Journals	Books & Book Chapters			
	--	07	6	-			
Conference Paper Presented	Patents Filed	Patents Published	Copy Rights Registered	NPTEL Courses Completed			
07	--	1	1	-			
FDP, Conference, Workshop & Seminars	FDP / STTP	Conference / Symposium	Workshop	Seminar/Orientation Programme			
	Organized / Coordinated	Organized / Coordinated	Organized / Coordinated	Organized / Coordinated			
	--	--	1	--			
	Attended	Attended	Attended	Attended			
	9	06	3	--			
Research / Consultancy Projects	Grants	Projects	Consultancy	Funds Received			
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Membership in Professional Societies		Resource Person / Guest Lecture		Reviewer	Chair Person	Editor	
ISTE (LM)		02		--	--	--	
Project & Research Guidance		UG Level		PG Level		Ph.d Level	
		15		4		Completed	Guiding
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Institutional Contribution							
NBA criteria III department coordinator		NAAC criteria VII department coordinator					
Women Harassment committee member		Calendar and College Newsletter Convener					
Class in charge		College News Promotion and PRO Committee Member					
College Website: Internet and Network Maintenance Committee Member		Internal Compliance and Girls Hostel Committee Member					
Sports Committee Member							

PROFILE of Dr. S. AISWARIYA



Name : Dr. S. Aiswariya

Date of Birth : 11.07.1985

Designation : Associate Professor

Qualification

- B.E. (Electrical and Electronics Engineering)
- M.E. (Power Electronics and Drives)
- Ph.D. (Electrical Engineering)

Experience

Total Years of Experience : 16 Years 2 Months

S. No.	Period		Organization / Institution	Position Held
	From	To		
1	03.01.2008	30.08.2008	Shanmuganathan Engineering College	Lecturer
2	06.10.2008	31.06.2012	Syed Ammal Engineering College	Lecturer
3	01.07.2012	31.01.2017	Syed Ammal Engineering College	Assistant Professor
4	01.08.2017	Till date	Syed Ammal Engineering College	Associate Professor

Major Strengths

1. Punctuality
2. Hard work
3. Communication Skill

List of subjects handled

1. Measurement & Instrumentation
2. Electrical engineering
3. Special electrical machines
4. Protection and switchgear
5. Power electronics
6. Solid state drives
7. Fundamentals of computing and programming
8. Linear Integrated Circuits
9. Power quality
10. Environmental science
11. Electric drives and control
12. Electronic circuits and devices
13. Electrical engineering and Instrumentation

Papers Published

Published Articles

- 1 Aiswariya, S & Dhanasekaran, R, 2015, 'Implementation of Single Phase Soft Switched PFC Converter for Plug-in-Hybrid Electric Vehicles', *Energies*, vol. 11, no. 8, pp. 13096–13111, ISSN: 1996-1073 (UPDATED JOURNALS LIST), IF – 2.072.
- 2 Aiswariya, S & Dhanasekaran, R, 2014, 'An AC-DC PFC Converter with Active Soft Switching Technique', *International Journal of Energy Optimization and Engineering*, vol. 3, no. 3, pp. 101-121, ISSN: 2160-9500.
- 3 Aiswariya, S & Dhanasekaran, R, 2015, 'A New ZCS-ZVS Single Phase PFC Converter with a LCD Snubber For Output Voltage Regulation', *ARPJ Journal of Engineering and Applied Sciences*, vol. 10, no. 13, pp. 5624-5630, ISSN: 1819-6608, IF – 0.21.
- 4 Aiswariya, S & Dhanasekaran, R, 2015, 'A New Soft Switched Boost PFC Converter with an Active Snubber', *International Journal of Applied Engineering Research*, vol. 10, no. 5, pp. 4325-4330, ISSN: 0973-4562, IF – 0.1.
- 5 Aiswariya, S & Dhanasekaran, R, 2015, 'Simulation of a New Active Snubber for Power Factor Correction Converter Applications – A Performance Evaluation', *International Journal of Applied Engineering Research*, vol. 10, no. 6, pp. 5600–5605, ISSN: 0973-4562, IF – 0.1.
- 6 Aiswariya, S & Dhanasekaran, R, 2015, 'Analysis and Design of a Soft Switched AC-DC Converter for Electric vehicle Battery Chargers', *International Journal of Applied Engineering Research*, vol. 10, no. 55, pp. 3334-3339, ISSN: 0973-4562, IF – 0.1.

Paper Published in International Conferences

- 1 Aiswariya, S & Dhanasekaran, R, 2016, 'Efficiency Analysis of a New Lossless Passive Snubber for Electric Vehicle Applications', *IEEE International Conference on Advanced Communication Control and Computing Technologies (ICACCCT 16)*, Ramanathapuram, TamilNadu, India, pp.557-561.

- 2 Aiswariya, S & Dhanasekaran, R, 2015, 'Performance Enhancement of a PFC Converter with a New Passive Snubber Circuit for High Power Applications', IEEE International Conference on Advanced Computing and Communication Systems (ICACCS), Coimbatore, Tamil Nadu, India, pp. 1-6, DOI : 10.1109/ICACCS.2015.7324131.
- 3 Aiswariya, S & Dhanasekaran, R, 2015, 'Efficiency Analysis of a New Passive Snubber for Battery Charging Applications', IEEE International Conference on Communications and Signal Processing (ICCS), Melmaruvathur, Tamil Nadu, India, pp. 1466–1470, DOI : 10.1109/ICSSP.2015.7322581.
- 4 Aiswariya, S & Dhanasekaran, R, 2015, 'A New Passive Snubber for Improvement of Efficiency in Soft Switched Boost PFC Converter for Battery Charging Systems', International Conference on Interdisciplinary Research in Electronics and Instrumentation Engineering (ICIREIE), Coimbatore, Tamil Nadu, India, pp. 44-48.
- 5 Aiswariya, S & Dhanasekaran, R, 2014, 'Simulation and Analysis of a Single Phase AC-DC Boost PFC Converter with a Passive Snubber for Power Quality Improvement', IEEE International Conference on Advanced Communication Control and Computing Technologies (ICACCCT), Ramanathapuram, Tamil Nadu, India, pp. 421-425, DOI : 10.1109/ ICACCCT.2014.7019477.
- 6 Aiswariya, S & Dhanasekaran, R, 2013, 'A Soft Switched DC-DC Converter for High Power Applications', International Conference on Computation of Power, Energy, Information and Communication (ICCPEIC), Melmaruvathur, Tamil Nadu, India, pp. 134-138.
- 7 Aiswariya, S & Dhanasekaran, R, 2013, 'Power Factor Correction Converter with an Active Snubber', International Conference on Modern Trends in Science, Engineering and Technology (ICMTSET), Dubai, UAE, pp. 71-74.

Copyrights

- 1 Electrical machines – I manual – dated 22/02/2021- L-99713/2021

Patents

1. Performance characteristics of self-excited cage induction generator under varying load and speed conditions– dated 11/12/2020.

FDP & workshops Attended

2010

- Participated in FDP on Research Methodologies on 16.04.2010 to 17.04.2010 at Syed Ammal Engineering college, Ramanathapuram.

2011

- MATLAB, PSIM, Power world simulation conducted by K.L.N college of Engineering.
- Participated in FDP on Research Methodology on 28.8.2011 at Syed Ammal Engineering College, Ramanathapuram

2012

- Recent advancement on power electronics conducted by SIT Kariyapatti.

2013

- Participated in AICTE sponsored Faculty development programme on Renewable energy resources during 04.10.2013 to 17.10. 2013 at Syed Ammal Engineering College, Ramanathapuram

2014

- Participated in FDP on “EE 6302-Electromagnetic Theory”, Syed Ammal engineering college from 16.6.2014 to 22.06.2014.

2015

- Participated in FDP on “EE 6302-Electromagnetic Theory”, Syed Ammal engineering college from 10.6.2015 to 16.06.2015.

2016

- Participated in FDP on “EE 6503-Power electronics” , Syed ammal engineering college from 6.6.2016 to 12.06.2016
- Participated in FDP on “How to be an Interesting and Inspiring Teaching Professional? on 20.08.16 at Syed ammal engineering college.

2017

- Participated in international workshop on “power system studies using ETAP & DIgSILENT”, S.A engineering college from 4.5.2017 to 05.05.2017.

2019

- Participated in AICTE sponsored two weeks FDP on “Modelling, simulation, control and stability analysis of power electronic converters” from 17.06.19-29.06.19 at Syed ammal engineering college.
- Participated in one day capacity building workshop for professors on personality profession and passion on 25.06.19 at Syed ammal engineering college.

FDP attended in online 2019-2023

SL.NO	Name of the Faculty member	Name of the programme	Academic year	Date & no of days	Venue(Online)
1.	Dr.S.Aiswariya	Enhancing Research Effectiveness using Scopus, Science direct and Mendeley	2019-2020	01.05.2020	Kurushetra university, kurushetra
2	Dr.S.Aiswariya	Technological advancement in power system control ,power controllers, drives,& E-vehicles-tabbed 2020	2019-2020	27.04.2020 to 01.05.2020- 5 days	N.G.P. Institute of technology
3	Dr.S.Aiswariya	The power of A Teacher	2019-2020	04.05.2020	ICT Academy
4	Dr.S.Aiswariya	How to use turnitin software for your research turnitin online on campus	2019-2020	04.05.2020	Guru nanak institute of management studies
5	Dr.S.Aiswariya	Research opportunities in electrical engineering under technical quality improvement program (TEQIP -III)	2019-2020	07.05.2020 TO 16.05.2020- 10 Days	Government college of engineering, Karad.
6	Dr.S.Aiswariya	Effective conduct of online classes	2019-2020	08.05.2020	Sri Eshwar college of engineering, Coimbatore.
7	Dr.S.Aiswariya	Quiz on electrical machines	2019-2020	07.05.2020 TO 08.05.2020- 2 Days	Syed ammal engineering college, Ramanathapuram.
8	Dr.S.Aiswariya	Challenges in micro-grid protection	2019-2020	06.05.2020 TO 07.05.2020 - 2 Days	KL University
9	Dr.S.Aiswariya	Gamification tools in teaching	2019-2020	07.05.2020	Internal quality assurance cell st.Xavier's college for women, Aluva.

10	Dr.S.Aiswariya	Smart vehicle	2019-2020	09.05.2020	JSS academy of technical education,Noida.
11	Dr.S.Aiswariya	Quiz on circuit theory	2019-2020	10.05.2020 TO 12.05.2020 - 3 Days	Syed ammal engineering college, Ramanathapuram.
12	Dr.S.Aiswariya	Machine learning algorithms,applications and trends	2019-2020	10.05.2020	Shri shankarlal sundarbai shasun jain college for women
13	Dr.S.Aiswariya	Design of switched converters for renewable energy applications	2019-2020	09.05.2020 TO 11.05.2020 - 3 Days	KL University
14	Dr.S.Aiswariya	Outcome based education & NBA accreditation	2019-2020	12.05.2020 TO 17.05.2020 - 6 Days	Shr chhatrapati shivajiraji college of engineering
15	Dr.S.Aiswariya	Job opportunities in renewable energy technology	2019-2020	14.05.2020	Syed ammal engineering college ,Ramanathapuram
16	Dr.S.Aiswariya	Quiz on embedded systems	2019-2020	16.05.2020 TO 17.05.2020 - 2 Days	Syed ammal engineering college, Ramanathapuram.
17	Dr.S.Aiswariya	E-Quiz on teaching aptitude	2019-2020	during may 2020	Jamal Mohamed college,trichy.
18	Dr.S.Aiswariya	NBA accreditation process	2019-2020	18.05.2020	SNJBS college of engineering
19	Dr.S.Aiswariya	Online quiz in basis of electrical and electronics	2019-2020	18.05.2020	N.G.P. Institute of technology
20	Dr.S.Aiswariya	Cliff of iceberg-EV market	2019-2020	19.05.2020	wari engineering college
21	Dr.S.Aiswariya	Online quiz programme	2019-2020	21.05.2020 TO 22.05.2020 - 2 Days	yed ammal arts and science college ,Ramanathapuram
22	Dr.S.Aiswariya	Future of robotics andA	2019-2020	23.05.2020	SCAD college of engineering and technology .
23	Dr.S.Aiswariya	Transition with IOT	2019-2020	22.05.2020	St.peters college of engineering and technology

24	Dr.S.Aiswariya	Future of automotive technology	2019-2020	28.05.2020	Sri venkateswara college of technology
25	Dr.S.Aiswariya	Renewable energy conversion	2019-2020	31.05.2020	Mohamed sathak engineering college
26	Dr.S.Aiswariya	NAAC Assessment and Accreditation	2019-2020	28.05.2020 TO 30.05.2020 - 3 Days	GATES Institute of technology
27	Dr.S.Aiswariya	Test your knowledge on plagiarism	2019-2020	During may 2020	Crescent institute of science & technology
28	Dr.S.Aiswariya	EEE Xplore digital library	2019-2020	02.06.2020	Syed ammal engineering college ,Ramanathapuram.
29	Dr.S.Aiswariya	Spitting kills	2019-2020	April-may 2020	ACF
30	Dr.S.Aiswariya	Quiz on accreditation and outcome based education	2019-2020	01.06.2020 TO 03.06.2020 - 3 Days	Syed ammal engineering college ,Ramanathapuram
31	Dr.S.Aiswariya	Opportunities in EV technology	2019-2020	01.06.2020	V.V.P. engineering college-Rajkot.
32	Dr.S.Aiswariya	Research issues and challenges in resonant converter	2019-2020	03.06.2020	Syed ammal engineering college ,Ramanathapuram
33	Dr.S.Aiswariya	Stay ahead through product innovation and design thinking	2019-2020	06.06.2020	M.K. engineering college
34	Dr.S.Aiswariya	Research methodology	2019-2020	05.06.2020	The standard Rajaratnam college for women
35	Dr.S.Aiswariya	Energy Engineering(ATALFDP)	2020--21	24.08.20-28.08.20	AICTE, New Delhi
36	Dr.S.Aiswariya	Design and Optimization of EV charging technology in smart grid	2021-22	13.09.21-17.09.21	AICTE, New Delhi
37	Dr.S.Aiswariya	Energy storage: Science and technology	2021-22	20.09.21-24.09.21	AICTE, New Delhi
38	Dr.S.Aiswariya	Energy Conservation through Electric Vehicles	2023-24	23.12.23-12.01.24	Anna University, Chennai.

Areas of Interest

- DC-DC Power Converters, Power Electronics, Electric vehicles.

Research Work:

Certain investigations on performance improvement of front end power factor correction converter in electric vehicle applications

Google Scholar Link: <https://scholar.google.co.in/citations?user=z81GFAAAAAJ&hl=en>

Academic and Administrative Responsibilities held:

NBA criteria III coordinator, NAAC criteria VII coordinator, Women Harassment committee member, Calendar and College Newsletter Convener, Class in charge, Member in College News Promotion and PRO Committee, College Website: Internet and Network Maintenance Committee, Internal Compliance and Girls Hostel Committee, Sports Committee.

Membership in Professional bodies

Life member – ISTE

Contact Address

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Office No: 04567-304151

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aiswariyasomasundaram@gmail.com