


FACULTY PROFILE										
Name		Dr. G.S.Naganathan								
Qualification		M.E., Ph.D								
Department		Electrical and Electronics Engineering								
Designation		Associate Professor								
Date of Joining		27.07.2006								
Mobile Number		9865144965								
E - Mail		naganathangs@gmail.com								
Experience in Years		Teaching	Industry							
		25.6	3							
Area of Specialization		Power Systems, & Electrical Machines								
Publications	National Conference		International Conference		International Journals		Books & Book Chapters			
	--		3		4		1			
Conference Paper Presented	Patents Filed		Patents Published		Copy Rights Registered		NPTEL Courses Completed			
6	--		-		-		3			
FDP, Conference, Workshop & Seminars	FDP / STTP		Conference / Symposium		Workshop		Seminar/Orientation Programme			
	Organized / Coordinated		Organized / Coordinated		Organized / Coordinated		Organized / Coordinated			
	1		2		1		--			
	Attended		Attended		Attended		Attended			
	25		5		12		9			
Research / Consultancy Projects	Grants		Projects		Consultancy		Funds Received			
	--		--		--		1			
Membership in Professional Societies			Resource Person / Guest Lecture		Reviewer		Chair Person		Editor	
ISTE (LM)			5		1		1		1	
Project & Research Guidance			UG Level		PG Level		Ph.d Level			
			17		3		Completed		Guiding	
							--		-	
Institutional Contribution										
Annual Magazine Convener - (2012 – 2020)					ISO Internal Auditor					
College Newsletter Convener (2020 – 2022)					Class In-charge (2010-20140 &(2019-2022)					
Academic Calendar Convener (2012 – 2022)					Lab In- charge (2007 to Till Date)					
NSS & YRC Club Convener (2022 to Till Date)					Students counselor (2007 to 2023)					
Power Supply, Generator, UPS and Electrical Equipment Maintenance committee Convener (2022 to Till Date)					Department in- charge of NBA Criterion 6 and NAAC Criterion 2					

## Profile of Dr.G.S.Naganathan

### Personal Details:

Name : Dr. G.S. NAGANATHAN  
Father's Name : K.G. SESHAIYAN  
Date of Birth : 14.05.1969  
Age : 53  
Gender : Male  
Religion : Hindu  
Community : BC  
Cast : Sourashtra  
Contact Number : 9865144965  
E-mail : naganathangs@gmail.com  
Communication Address : 2/150, Gurunathan Kovil Street  
Emaneswaram  
Paramakudi (Taluk)  
Ramanathapuram District  
Tamilnadu.  
Pincode-623701



### Academic Credentials

S. No	Course	Branch / (Specialization)	College	University	Month & Year of Passing	% of Marks	Class / Division
1	Ph.D	Electrical Engineering/ Power Systems	Thiagarajar College of Engineering	Anna University	2018	-	-
2	M.E	Electrical Engineering/ Power Systems	Anna University of Technology Thiruchirappalli	Anna University Thiruchirappalli	MAY 2011	8.86 CGPA	First Class with Distinction
3	B.E	Electrical and Electronics Engineering	Alagappa Chettiar College of Engineering and Technology	Madurai Kamaraj University	NOV 2004	67.25	First Class
4	Diploma	Electrical and Electronics Engineering	M.P.N,M.J Polytechnic College	Directorate of Technical Education	APRIL 1990	69.66	First Class

## Experience ( From starting date to till date)

S.No	Name of the Institution / Org.	Designation	Period of Service		Total Experience	
			From	To	Year	Month
1	K.O.R Chemical Private Ltd. Paramakudi	Electrical Supervisor	05.04.1991	20.02.1995	3Years	10 Months
2	Ganapathy I.T.I Paramakudi	JTO	01.08.1995	15.06.1998	2 Years	10 Months
3	Sri Muthalamman Polytechnic College. Paramakudi	Lecturer/HOD	22.06.1998	26.07.2006	8 Years	1 Month
4	Syed Ammal Engineering College. Ramanathapuram	Lecturer	27.07.2006	31.06.2012	5 Years	11 Months
5	Syed Ammal Engineering College. Ramanathapuram	Assistant Professor	01.07.2012	28.02.2021	8 Years	7 Months
6	Syed Ammal Engineering College. Ramanathapuram	Associate Professor	01.03.2021	Till Date		-

## List of subjects handled:

- Special Electrical Machines
- Power system Transients
- Power Plant Engineering
- Flexible AC transmission System
- Analysis of Electrical machines
- Electrical Machines II
- Microprocessor and Microcontroller
- Circuit Theory
- Circuit Analysis
- Measurements And instrumentation
- Transmission and Distribution
- Power System analysis
- Power System Operation and Control
- Transmission and Distribution
- Circuit Analysis
- Basic Electrical and Electronics Engineering
- Power Electronics

### Academic Achievements:

S. No.	SUBJECT NAME	Year	Class & % of Pass
01	Special Electrical machines	2009-10	IV EEE - 100%
02	Special Electrical machines	2010-11	IV EEE - 100%
03	Power system Transients	2010-11(Even)	IV EEE - 100%
04	Power system Transients	2011-12(even)	IV EEE - 100%
05	Power Plant Engineering	2012-13(even)	II EEE - 100%
06	Analysis of Electrical machines	2013-14(odd)	I ME(PE) -100%
07	Flexible AC transmission System	2013-14(even)	IV EEE - 96.67%
08	Flexible AC transmission System	2014-15 (even)	IV EEE - 100%
09	Analysis of Electrical machines	2015-16(odd)	I ME(PE) - 100%
10	Flexible AC transmission System	2015-16(even)	I ME(PE) - 100%
11.	Power system Analysis	2017-18(odd)	III EEE - 91.2%
12.	Special Electrical machines	2018-19(odd)	IV EEE - 90.1%

### List of Journal Publications:

1. **G.S. Naganathan**, S. Selvaperumal, R. Nagarajan, P. Nedumal Pugazhenthii „Electric Bike Range Estimation using Fuzzy Logic Controller“ Journal of Electronics and Informatics, December 2022, Volume 4, Issue 4, Pages 225-236.
2. **G.S. Naganathan**, M. Senthilumar, S. Aiswariya S. Muthulakshmi, G. Santhiya Riyasen, M. Mamtha Priyadharshini, „Internal Fault Diagnosis of Power Transformer using Artificial Neural Network“ Materials Today Proceedings (Elsevier),2021.
3. **Naganathan, G S & Babulal, C K** 2019, „ANN Based Online Voltage Stability Margin Assessment In Deregulated Power System“, Journal of Electrical Engineering, vol. 19, no. 4, pp. 53-63. (Annexure I). (**SJR : 0.112** ).
4. **Naganathan, G S & Babulal, C K** 2019, „Optimization of Support Vector Machine parameters for Voltage Stability Margin Assessment in the Deregulated Power System“, Soft Computing, vol.23,issue 20.October 2019, pp 10495-10507. (Annexure I). (**Impact Factor 2.784**).

5. **Naganathan, G S** & Babulal, C K 2017, „Online voltage stability margin assessment and enhancement in deregulated environment using support vector regression“, Journal of Electrical Engineering, vol. 17, no. 3, pp. 260-271. (Annexure I). (**SJR : 0.112**).
6. **G.S.Naganathan** and C.K.Babulal, “Voltage Stability Margin Assessment using Multilayer Feed Forward Neural Network” Applied Mechanics and Materials, Trans Tech Publications. Vol. 573 (2014) pp 661-667.
7. M.Priyadhrshini and **G.S.Naganathan**, “Optimization Of Fuzzy Logic Controller Using Genetic Algorithm For Controlling Dc Servomotor”, International Journal of Applied Engineering Research, Vol.10, pp3454-3459, 2015.
8. K.Poovitha, R.Jagatheesan, **G.S.Naganathan**, A. MohamedRajithkhan, M. PaulJeyaraj, “Automatic power supply for residential consumer using micro grid with hybrid power supply” Applied Mechanics and Materials Vol. 573 (2014) pp 334-339.

### **International Conference:**

1. A paper presented in the title of “Internal Fault Diagnosis of Power Transformer using Artificial Neural Network” in the International Conference on Emerging Trends in Materials Science, Technology & Engineering (ICMSTE2K21) from 4<sup>th</sup> and 6<sup>th</sup> March 2021 organized by Department of Mechanical Engineering, Syed Ammal Engineering College, Ramanathapuram.
2. A paper presented in the title of “An Efficient Method of Water Supplies Intelligent Controller Based Real Time Management” in the AICTE sponsored International Conference on Nano Robotics and Artificial intelligence for Engineering Applications (ICRAI2020) from 11<sup>th</sup> and 12<sup>th</sup> September 2020 organized by Department of Mechanical Engineering, Syed Ammal Engineering College, Ramanathapuram.
3. A paper presented in the title of “ An Efficient Approach of Fuzzy Based Real Time Management of Ground Water Resources” in 7<sup>th</sup> International conference on “ Emerging Trends in Engineering & Technology(ICETET‘20)” held on 13<sup>th</sup> & 14<sup>th</sup> March, 2020 at Pandian Saraswathi Yadav Engineering College, Sivagangai.
4. A paper presented in the title of “Voltage Stability Assessment using Support Vector Regression” in international conference on “ Emerging Trends in Engineering & Technology‘17” held on March 10 & 11, 2017 at Pandian Saraswathi Yadav Engineering College, Sivagangai.

5. A paper presented in the title of “power Factor Correction and THD minimization in Boost Converter With PID Controller” in international conference on “ Emerging Trends in Engineering & Technology”15” held on April 11 & 12, 2015 at Pandian Saraswathi yadav Engineering College, Sivagangai.
6. A paper presented in the title of “Voltage Stability Margin Assessment using Multilayer Feed Forward Neural Network” in international conference on “Advancements in Automation and Control” held on April 11 & 12, 2014 at Syed Ammal Engineering College, Ramanathapuram.

### **National Conference:**

1. A paper presented in the title of “Electric Bike Range Estimation using Fuzzy Logic Controller” in the National Conference on Artificial Intelligence and Machine Learning Techniques for Electronics, Control & Automation (NCAECA 2022) organized by Department of Electronics & Instrumentation Engineering, Dayananda Sagar College of Engineering, Bangaluru, Karnataka, during 17<sup>th</sup> – 19<sup>th</sup>, November -2022.
2. A paper presented in the title of “Electric Bike Range Estimation using Fuzzy Logic Controller” in the National Conference on Artificial Intelligence and Machine Learning Techniques for Electronics, Control & Automation (NCAECA 2022) organized by Department of Electronics & Instrumentation Engineering, Dayananda Sagar College of Engineering, Bangaluru, Karnataka, during 17<sup>th</sup> – 19<sup>th</sup>, November -2022.
3. A paper presented in the title of “Power Supply Management for Hybrid Electric Vehicle using Fuzzy Logic Controller” in the National conference on Power Electronics and Drives 2022 (NCPED’22) on 09.06.2022, conducted by Department of Electrical and Electronics Engineering, Alagappa Chettiar Government College of Engineering, Karaikudi.
4. A paper presented in the title of “Fuzzy logic based generation rescheduling for overload relieving in power system” in the National conference on Electrical system and Renewable Energy on 18.03.2011, conducted by Anna university of Technology, Thrichirappalli.

### **Resource Person /Keynote address / Chair Person /Reviewer:**

- Act as a Resource Person and in the workshop on “Arduino Hands On Training” conducted by Department of Electrical and Electronics Engineering, Syed Ammal Engineering College, Ramanathapuram, during 29.04.2022 to 30.04.2022.
- Act as a Resource Person and lectured on the topic “ Assessment of efficiency of pump using Thermodynamic principle, VFD and its compatibility for existing motor, IoT based Operation and Maintenance of pumping plants” on 11.08.2021 for TWAD board officers and staff organized by TANGEDCO Ltd. Trichirappalli.

- Act as a Resource Person and lectured on the topic “ Online Voltage Stability Assessment in Restructured Power System using CPS” on 20.11.2020 in the AICTE sponsored Two Weeks Online FDP on “Formal Modeling Control & Real Time Implementation of Cyber Physical Systems”(Phase-II) organized by Department of EEE,V.S.B Engineering College, Karur.
- Act as a Resource Person and lectured on the topic “ Voltage Stability Monitoring and Enhancement using CPS” on 30.10.2020 in the AICTE sponsored Two Weeks Online FDP on “Formal Modeling Control & Real Time Implementation of Cyber Physical Systems”(Phase-I) organized by Department of EEE,V.S.B Engineering College, Karur.
- Keynote address delivered on the topic “Applications of Artificial Neural Network in Power Systems” in the AICTE sponsored international Conference on Nano Robotics and Artificial intelligence for Engineering Applications (ICRAI2020) on 11.09.2020, organized by Department of Mechanical Engineering, Syed Ammal Engineering College, Ramanathapuram.
- Conference committee Member for the International Conference on Advancements in Automation and Control ICAAC 2104, organized by Department of EEE, Syed Ammal Engineering College, Ramanathapuram during Apr 11. 04.2015 to 12.04.2015. Also act as a editor for the conference and journal proceedings.
- Act as a Chair Person for the International Conference on Advances in Applied Engineering and Technology - 2015 (ICAAET'15), organized by Department of Electronics and Communication Engineering, Syed Ammal Engineering College during 14.05.2015 to 16.05.2015.

### **NPTEL Course Completed**

<b>Sl. No</b>	<b>Course Title</b>	<b>Duration</b>	<b>Organized</b>	<b>Marks (100)</b>	<b>Rank</b>
1	Advanced Power Electronics and Control	8 Week (Jul-Sep 2022)	IIT, Roorkee	71%	Elite (5% Topper)
2	Fuzzy Sets, Logic and Systems & Applications	12 Week (Jan-Apr 2022)	IIT, Kanpur	98%	Elite + Gold (5% Topper)
3	Power System Analysis	12 Week (July-Oct 2019)	IIT Kharagpur	65%	Elite

## Book Published

Published a book on the title “Voltage Stability Assessment in Restructured Environment” on 02.02.2022, Lap Lambert Academic Publishing, ISBN-13: 978-620-4-74128-4.

## Course Completed:

Sl.No	Course Title	Duration & Days	Sponsor	Organized by
1	Energy Literacy Traing	23.04.2023 (50 Hours)	-	Energy Swaraj Fountation, India
2	Smart Energy Grit	June 2022 to December 2022 (6 Months)	Naan Muthalvan, Tamilnadu	Coursera
3	Fountation Skills in Integrated Product Development	26.03.2016 to 30.03.2016 (Five Days)	Annauniversity TEQIP-II	Alagappa Chettiar Government College of Engineering & Technology, Karaikudi.
4	Diploma in Information Technology	01.01.2001 to 30.12.2001 (One Year)	National Literacy Promotion Council	TCPS Infotech India (P) Ltd.
5	Television Mechanism	01.02.1999 to 31.05.1999 (4 months)	Ministry of Human Resource Development, Government of India	Mohamed Sathak Polytechnic College, Kilakarai.

## Reviewer:

- Materials Today: Proceedings, Elsevier Publisher.



**Participation in FDP/ Online STTP /Workshop/ Seminar :**

S.No	Name of the Programme	Date and No. of Days	No of Days	Venue
<b>2022-2023</b>				
1	Emerging Trends, Challenges and Opportunities in Wireless Charging of Electric Vehicle	20.02.2023 To 25.02.2023	6 days	SRM Institute of Science and Technology, Kattankulathur.
2	Design of Photovoltaic System for Domestic load	13.02.2023 to 17.02.2023	5 days	Saranathan College of Engineering, Tiruchirappalli. <b>(Naan Mudhalvan Scheme)</b>
3	Integration of Energy Recourses	01.09.2022 to 08.09.2022	6 days	Mailam Engineering College, Mailam, Vilupuram.
<b>2021-2022</b>				
1	EE8019 Smart Grid (Anna University Sponsored)	24.01.2022 to 29.01.2022	6 days	Mohamed Sathak Engineering College, Kilakarai
2	National Intellectual Property Awareness Mission	24.01.2022	1 day	Intellectual Property Office, india
2	Research Challenges, Opportunities in Smart Grid with Integration of Electrical Vehicles (RCOSGIEV-2021)	08.10.2021 to 12.10.2021	5 days	Vemu Institute of Technology, Chittoor
3	Soft Computing Techniques and their Applications in Electrical Engineering (ATAL STTP)	28.06.2021 to 02.07.2021.	6 days	NIT, Patna, Bihar
<b>2020-2021</b>				
1	Recent Trends in Electric Vehicle and Renewable Energy Systems (ATAL STTP)	21.06.2021 to 25.06.2021.	6 days	Arasu Engineering College, Kumbakonam
2	Potential Benefits of RFID in Industrial, Medical and Domestic Sectors(ATAL STTP)	21.12.2020 to 27.12.2020	6 days	Syed Ammal Engineering College, Ramanathapuram(online)
3	Digital Controllers for Power Electronics	07.09.2020 to 12.09.2020	6 days	Syed Ammal Engineering College, Ramanathapuram(online)
4	Soft Computing Techniques in Engineering Applications	20.07.2020 to 25.07.2020	6 days	Syed Ammal Engineering College, Ramanathapuram(online)

5	Online training on IEEE Xplore Digital Library	2.06.2020	1 day	Syed Ammal Engineering College, Ramanathapuram(online)
6	Research Issues and challenges in resonant converter	03.06.2020	1 day	Syed Ammal Engineering College, Ramanathapuram(online)
7	How to be Successful Electrical Engineering	31.05.2020	1 day	St.Joseph's College of Engineering, Chennai (online)
8	Solar E cycles	28.05.2020	1 day	St.Joseph's College of Engineering, Chennai (online)
9	Fine tuning your research paper: Publication in SCOPUS , Web of science indexed and ABCD rated journals	27.05.2020	Forenoon	Bharata Matha College, Kochi, Kerala
10	Power Industry Today	27.05.2020, Afternoon	Afternoon	St.Joseph's College of Engineering, Chennai (online)
11	Control Robots with Smart Phone	23.05.2020	1 day	St.Joseph's College of Engineering, Chennai (online)
12	Traction Motor Development Status and trends for EV Application	22.05.2020	1 day	St.Joseph's College of Engineering, Chennai (online)
13	Modern Trends in Electrical Drives(MTED)	19.05.2020 to 23.05.2020	5 days	NIT, Nagpur and The Institution of Engineers, Nagpur(Online)
14	Preparations Guideline for Funding Project Proposals	18.05.2020	1 day	Koneru Lakshmaiah Education Foundation, Vaddeswaram, Guntur, A.P, (Online)
15	Research Ideas & Performance Analysis of Switched Reluctance Motor using MagNet Software	13.05.2020 & 14.05.2020	2 days	Jerusalem College of Engineering, Chennai
16	Good Teacher to Great Teacher	14.05.2020	Evening	ICT ACADEMY(Online)
17	Artificial intelligence	11.05.2020 to 15.05.2020	5 days	Kurukshetra University, Kurucshetra. (AICTE training and learning (ATAL) Academy sponsored online FDP)
18	The Future of skills - Education, Employment & Entrepreneurship	01.05.2020 to 15.05.2020	15 days	ICT ACADEMY(Online)
19	Effective conducting of Online Classes	08.05.2020	1 day	Syed Ammal Engineering College, Ramanathapuram(Online)
20	Webinar on IOT	07.05.2020	1 day	Crystal Clear Technology and innovation, Coimbatore(Online)
21	How to Use Turnitin Software for your Research	04.05.2020	1 day	Guru Nanak Institute of Management Studies, Mumbai (Online)
22	University Industry Linkage- Different Mechanism	02.05.2020	1 day	Audisankara group of Institutions (Online)
23	Technological Advancement in Power	27.04.2020	5 days	Dr. N.G.P Institute of Technology,

	System Control, Power Controllers, Drives & E-Vehicles-TAPPAD 2020	to 01.05.2020		Chennai (Online)
24	The Future of Education, Employment & Entrepreneurship	04.05.2020 to 08.05.2020	5 days	ICT ACADEMY (Online)
25	The Power of a Teacher	04.05.2020	Afternoon	ICT ACADEMY(Online)

Year	Name of the Programme	Date and No. of Days	No of Days	Venue
<b>2019-2020</b>				
1	<b>AICTE sponsored</b> Two week FDP on Modeling, Simulation, Control and Stability Analysis of Power Electronics Converters	17.06.2019 to 29.06.2019	15 days	Syed Ammal engineering college, Ramanathapuram.
2	One day workshop on Capacity building workshop for professors on personality ,profession and passion on 25.06.2019	25.06.2019	1 day	Syed Ammal engineering college, Ramanathapuram.
<b>2018-2019</b>				
1	One day workshop on How to write good scientific Project Proposals o	04.08.2018	1 day	Syed Ammal engineering college, Ramanathapuram.
<b>2016-2017</b>				
1	One day FDP on Modern tool usage in teaching.	13.12.2016	1 day	Syed Ammal engineering college, Ramanathapuram.
2	One day FDP on How to be an Interesting and inspiring Teaching Professional	20.08.2016	1 day	Syed Ammal engineering college, Ramanathapuram.
<b>2015 – 2016</b>				
1	Anna university sponsored FDTP on EE 6601-Solid State Drives	30.11.2015 to 06.12,2015	7 days	Syed Ammal engineering college, Ramanathapuram.
<b>2013 – 2014</b>				
1	Attended the AICTE sponsored FDP on Renewable Energy Sources during at Syed Ammal engineering college, Ramanathapuram.	04.10.2013 to 17.10.2013		Syed Ammal engineering college, Ramanathapuram.
<b>2012- 2013</b>				
1	One day FDP on Emerging Trends in Electrical and Embedded Technologies	15.02.2013	1 day	Sethu Institute of Technology, Virudhunagar.
<b>2011- 2012</b>				
1	A workshop on “ANN, PSO and	23.09.2011	2 days	K.L.N. College of Engineering,

	Applications for Optimization problems”	To 24.09.2011		Madurai.
2	FDT on Research Methodology	23.08.2011	1 day	Syed ammal engineering college,Ramanathapuram.
<b>2010 – 2011</b>				
1	<b>DRDO sponsored</b> workshop on “Intelligent controllers for power system”	11.08.2010 to 12.08.2010	2 day	Dr,Sivanthi Aditanar College of Engineering, Tiruchendure.
<b>2009- 2010</b>				
1	Workshop on “Fuzzy logic applications to power system.	26.02.2010	1 day	M.P.Nachimuthu M.Jaganathan Engineering college,Chennimalai,.
2	Self-Awareness Programme conducted by ISTE staff chapter.	08.10.2009	1 day	Syed Ammal engineering college,Ramanathapuram.
<b>2008-2009</b>				
1	Workshop on “Special Electrical Machines”	09.08.2008	1 day	Pandian Saraswathi Yadv Engineering College, Sivaganngai.
<b>2007-2008</b>				
1	Two Days workshop on “Applications of Digital Variable Speed Drives”	13.09.2007 to 14.09.2007	2 days	Kongu Engineering College, Perundurai.
<b>2004-2005</b>				
1	DOTe sponsored Inter Polytechnic Workshop on Creativity, Work Ethics, Counselling, Emotional Intelligence & Stress management	13.02.2004	1 day	Lakshi Ammal Polytechnic College,Kovilpatti
2	AICTE sponsored one day workshop on Environmental Eco-Friendly Practices	17.09.2004	1 day	Annamalai Polytechnic College, Chettinad. Karaikudi.
3	Inter Polytechnic college Leadership Motivation & Skill Development Camp	04.09.2004 to 06.09.2004	3 days	Mohamed Sathak Polytechnic College, Kilakarai.
4	NSS Refresher Course	23.08.2004 to 27.08.2004	5 days	Avinashilingam Institute for Home Science and Higher Education for Women Deemed University, Coimbatore.
<b>2002-2003</b>				
1	NSS Orientation Course	22.07.2002 to 31.07.2002	10 days	Avinashilingam Institute for Home Science and Higher Education for Women Deemed University, Coimbatore.

## **Details of Seminars /Workshops Organized**

1. A National level Two Days Workshop organized in the title Workshop on Arduino Hands on Training on 02.03.2019 and 03.03.2019 at Syed Ammal Engineering College, Ramanathapuram.

**Membership:** Life Member in **ISTE**

## **Responsibilities Held:**

- ISO Auditor
- NSS Program Officer
- NBA Criteria 6 Coordinator (Tier 2)
- Lab in-charge
- Calendar and Newsletter Committee Coordinator and
- Class-in-charge