



SRM Valliammai Engineering College


(An Autonomous Institution)

SRM Nagar, Kattankulathur-603203, Chengalpattu District, Tamil Nadu

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Department of Electrical and Electronics Engineering

Personal Details

Name :	V.Sudhagar		
Designation :	Assistant Professor (Sr.G)		
Educational Qualification:	M.E. (Ph.D)		
Experience:	12 Years 6 Months		
Area of Specialization :	Power Systems Engineering		
Date of Joining :	10/11/2010		
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Educational Details

S.No	Degree	Branch/Specialization	Institution / University	Year
1	B.E.	Electrical and Electronics Engineering	Sri Balaji Chockalingam Engineering College-Arni/Anna University Chennai-25	2007
2	M.E.	Power Systems Engineering	College of Engineering Guindy, Anna University Chennai-60025	2010
3	Ph.D.	Power Systems	Anna University Chennai-60025	Pursuing

Professional Society Memberships

- 1.Indian Society of Technical Education (ISTE): Life Member.
- 2.Indian National Science Congress: Annual Member.
- 3.International Association of Engineers (IAENG): Life Member.

Publication Details

Journals:

1. Jagatheesh.S, Aashish.V, Harshavardhan.N.H, Brian Dominic and Mr.V.Sudhagar , ‘Voltage Stabilization of Solar Powered DC Microgrid’, International Journal of Electrical Engineering and Technology (IJEET) Volume 12, Issue 3, March 2021.
2. Poompavai.K.S, Muthukumaraswamy, Om Saravana Kumar.V and Mr.V.Sudhagar Assistant Professor(Sr.G) ,‘Solar based automatic irrigation technology’, International Journal of Electrical Engineering and Technology (IJEET) Volume 12, Issue 3, March 2021.
3. Yerrababu Gari Abdul Shahid and Mr. V. Sudhagar, “A High Gain LUO Converter with ANFIS Controller for Battery Connected System”, Design Engineering (Toronto), Vol.2021, No.08, pp-1775-1789, 2021.
- 4.Gowri Sanker r, Sabarish A, Sarath Priyan R Naveenraj R Sudhagar V “ Human Detection System Using Drone During Crisis ” International Research Journal of Engineering and Technology (IRJET), Volume:07, Issue:04, Apr 2020.

5. P Harish kumar,A Hariprakask,S Abishek,V Ashvanth,V Sudhagar "DESIGN OF DC-DC CONVERTER AND CONTROLLER FORVSMART DC GRID AND BATTERY STORAGE USING ADRUINO" International Research Journal of Engineering and Technology (IRJET),Volume:06,Issue:03,Mar 2019.
6. Karthikeyan.R, Mr.V.Sudhagar "A Bridgeless Buck Boost Converter Based Multiple Output SMPS to Improve Power Quality" IJSRD - International Journal for Scientific Research & Development, ISSN (online): 2321-0613 Vol. 4, Issue 03, 2016.
7. Shamera.T.S, V. Sudhagar "A Virtual Power Decoupling Method for Control of Active and Reactive Power Ripple to Mitigate Unbalanced Grid Voltages" International Journal of Trend in Research and Development (IJTRD), ISSN: 2394-9333, Volume-3 | Issue-6 , December 2016.
8. Karthikeyan.R, Mr.V.Sudhagar "Economic Dispatch in Steam Power Plant Using Honeybee Mating Optimization" International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653Volume 4 Issue III, March 2016.
9. G.Anurag, V.Sudhagar: Performance Analysis of various types of Fault Current Limiters using PSCAD, International Jornal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE), Vol.3, Special Issue 5. May 2014, pp. 1-7
10. G.Naresh Babu, V.Sudhagar: Damping of Subsynchronous Resonance in an series compensated system using PSCAD, International Jornal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE), Vol.3, Special Issue 1. Feb 2014, pp. 103-107.

Conferences:

1. Sudhagar.V, Dr.R.Karthik "Review of Different Power Quality problems in Smart Grid" 2nd International Conference on Smart Automation in Computer, Electrical, Electronics and Communication Engineering (ICSA 2021), PP. 553-555, April 2021.
2. P.R.ManojPrabu, V.Sudhagar: Enhanced Control of DFIG Based Wind Turbine Under Unbalanced and Distorted Network Condition By Using PI-R Controller and FLL Based Synchronization Techniques, NCEEE-15 National Conference at Valliammai Engineering,2015.
3. P.R.ManojPrabu, V.Sudhagar: Enhancement of LVRT capability of DFIG using Advanced Control Strategy, National conference on Recent Trends in Modern Electronics and its applications (NC-RTMEA 2015)
4. G.Naresh Babu,V.Sudhagar: Damping of subsynchronous resonance in series compensated system using PSCAD, NCIEEE national conference at satyabama university on February 2014.
5. G.Anurag, V.Sudhagar: Performance Analysis of various type of fault current Lemitters using PSCAD, NCIEEE national conference at satyabama university on February 2014.
6. V.Sudhagar, T.Santhosh Kumar: Optimal Power Flow Solved with a Particle Swarm Optimizer, NCEEE-12 National Conference at Valliammai Engineering, 2012.

Other Particulars

Expert Lecture :

1. DELIVERED EXPERT LECTURE IN FDP ON 1905601 SOLID STATE DRIVES Conducted from 22.11.2021 to 27.11.2021.
2. HANDLED THE 16 HOURS VALUE ADDED COURSE ON "HANDS ON TRAINING ON PSCAD" Conducted from 06.07.2020 to 14.07.2020.
3. DELIVERED EXPERT LECTURE IN FDP ON EE8301 ELECTRICAL MACHINES-I Conducted from 06.05.2019 to 11.05.2019.
4. DELIVERED EXPERT LECTURE IN FDP FOR EE6401- ELECTRICAL MACHINES-I Conducted from 14.11.2016 to 15.11.2016.

5. DELIVERED EXPERT LECTURE IN FDP FOR EE6404-MEASUREMENTS AND INSTRUMENTATION Conducted from 29.12.2015 to 30.12.2015.

6. RESOURCE PERSON FOR THE PART TIME VALUE ADDED COURSE ON ELECTRICAL ENERGY AUDIT Conducted from 07.06.2015 to 08.06.2015.

Events Conducted:

1. ORGANIZED A SEMINAR ON “ELECTRICAL PANEL DRAFTING USING AUTOCAD” Dated 02.09.2021.

2. COORDINATOR FOR GUEST LECTURE ON “RECENT TRENDS IN POWER SYSTEM PROTECTION” Dated 23.02.2020.

3. COORDINATOR FOR GUEST LECTURE ON “APPLICATION OF POWER ELECTRONICS IN POWER SYSTEM” Dated 14.08.2019.

4. COORDINATOR FOR FDP ON EC6651- COMMUNICATION ENGINEERING From 13.11.2017 to 14.11.2017.

5. COORDINATOR FOR WORKSHOP ON “VARIOUS POWER QUALITY ISSUES IN ELECTRICAL SYSTEM” Dated 08.10.2016.

6. ORGANIZED “ONE DAY WORKSHOP ON MICROCONTROLLERS” Dated 26.02.2015.

7. ORGANIZED SEMINAR ON “FUNDAMENTALS OF TELEVISION” Dated 14-8-2013.

Events Attended:

1. FDP On “1905403 TRANSMISSION AND DISTRIBUTION” in SRM Valliammai Engineering College, Nov 2021.

2. FDP On “EE8015 ELECTRIC ENERGY GENERATION, UTILIZATION AND CONSERVATION” in SRM Valliammai Engineering College, Nov 2021.

3. ATAL FDP On “CAPACITY BUILDING” conducted by RAJIV GANDHI GOVERNMENT POLYTECHNIC from 15.02.2021 to 19.02.2021.

4. ATAL FDP On “ACADEMIC LEADERSHIP & MANAGEMENT OF TECHNICAL EDUCATION” conducted by Faculty of Engineering & Technology, Gurukula Kangri (Deemed to be) University, Haridwar from 17.05.2021 to 21.05.2021.

5. ATAL FDP On “GLOBAL WARMING AND IMPACTS OF POWER ELECTRONICS TOWARDS GREEN TECHNOLOGY” conducted by SRM Valliammai Engineering College, from 24.05.2021 to 28.05.2021.

6. ATAL FDP On “PATENT DRAFTING AND FILING” conducted by Jerusalem College of Engineering, Chennai from 14.06.2021 to 18.06.2021.

7. ATAL FDP On “DISTRIBUTED ENERGY SYSTEM MODELLING AND CONTROL” conducted by GOVERNMENT ENGINEERING COLLEGE, BHARUCH from 21.06.2021 to 25.06.2021.

8. FDP On “EE8402 TRANSMISSION AND DISTRIBUTION” in SRM Valliammai Engineering College, Nov 2019.

9. FDP On “EE6302- ELECTROMAGNETIC THEORY” in SRM Valliammai Engineering College, April 2017.

10. FDP On “EE6501- ELECTRICAL POWER SYSTEM ANALYSIS” in SRM Valliammai Engineering College, April 2017.

11. FDP On “EE6007- MICRO ELECTRO MECHANICAL SYSTEM” in SRM Valliammai Engineering College, April 2017.

12. FDP On “EE6601- SOLID STATE DRIVES” in SRM Valliammai Engineering College, Nov 2016.

13. FDP On “EE6403- DISCRETE TIME SYSTEMS AND SIGNAL PROCESSING” in SRM Valliammai Engineering College, Nov 2016.

14. FDP On “EE6303- LINEAR INTEGRATED CIRCUITS AND APPLICATIONS” in SRM Valliammai Engineering College, Nov 2016.

15. FDP On “EE6403- DISCRETE TIME SYSTEMS AND SIGNAL PROCESSING” in SRM Valliammai

Engineering College, January 2016.

16. Attended The "FACULTY ORIENTATION PROGRAM" in SRM Valliammai Engineering College, from 30.12.2013 to 31.12.2013.

17. FDP On "EE2351- POWER SYSTEM ANALYSIS" in SRM Valliammai Engineering College, September 2013.

P.G Projects Guided:

1. A High Gain Luo Converter with ANFIS Controller for Battery Connected System, November 2021.
2. Power Quality Improvement Using Low Voltage Control Strategy for Pv During Voltage Sag, 2017.
3. A Virtual Power Decoupling Method for Active and Reactive Power to Mitigate the Unbalanced Grid Voltages, 2016.
4. A Bridgeless Buck Boost Converter Based Multiple Output SMPS to Improve Power Quality, 2016.
5. Economic Dispatch in Steam Power Plant Using Honeybee Mating Optimization Technique, 2016.
6. Enhanced Control of DFIG Under Unbalanced and Distorted Grid Voltage Condition by Using Msogi-Fll For Grid Synchronisation, 2015.
7. Enhancement of LVRT Capability of DFIG Wind Turbine by Using Advanced Control Strategy for Power System Faults, 2014.
8. Subsynchronous Torsional Interaction of HvdC System Intergrated Hydro Unit Using PSCAD, 2014.
9. Performance Analysis of Various Types of Fault Current Limiters Using PSCAD, 2014.
10. Performance Analysis of Various Types of Fault Current Limiters Using PSCAD, 2013.
11. Enhancement of Torsional Stability of Thermal Power Unit By Damping Subsynchronous Oscillation Using PSCAD, 2013.

U.G Projects Guided:

1. Control and Power Saver in Home Appliances, 2021.
2. Solar Based Automatic Irrigation Technology, 2021.
3. Human Detection System Using Drone During Crisis, 2020.
4. Design Of Dc-Dc Converter And Controller For Smart Dc Grid And Battery Storage Using Aduino, 2019.
5. Synchronization and Harmonic Reduction of A Photovoltaic Generation System, 2018.
6. MPPT for Photovoltaic System Using Hybrid Fractional Open Circuit Voltage with Perturb and Observe Algorithm, 2018.
7. Modeling and Analysis of Modular Multilevel Converter to Improve Power Quality, 2017.
8. Reactive Power Compensation Using Shunt Active Filter In Single Phase Operation of Microgrid Using Advanced Control Technique, 2016.
9. OPTIMAL UPQC CONFIGURATION FOR COMPENSATION OF REACTIVE POWER IN 3 PHASE DISTRIBUTION SYSTEM, 2015.
10. Design and Implementation of Single Phase to Three Phase Universal Active Power Filter, 2014.
11. Power Quality Improvement Using Unified Power Quality Conditioner, 2013.
12. Enhancement of UPQU with Photovoltaic Array, 2012.
13. Investigation On DSTATCOM and DVR Operation for Voltage Control In Distribution Networks With A New Control Strategy, 2011.

Online Course Certification:

1. NITTT Module 1 Orientation Towards Technical Education & Curriculum Aspects, Feb 2021.
2. NITTT Module 2 Professional Ethics & Sustainable Development, Feb 2021.
3. NPTEL Course on 'Body Language to Professional Success', September 2019.
4. NPTEL Course on 'Stress Management', September 2018.
5. NPTEL Course on 'Outcome based pedagogic principles for effective teaching', March 2017
6. Mentor for The NPTEL Online Certification Course "Design and Simulation of Dc-Dc Converter Using Open Source Tools, March 2016.
7. NPTEL Course on "Design and Simulation of Dc-Dc Converter Using Open Source Tools, March 2016.
8. NPTEL Course on "MATLAB Programming for Numerical Computation", March 2016.
9. Mentor for The NPTEL Online Certification Course "Basic Electrical Circuits" September 2015.