



Name : Ms. C. SONIA  
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### 1. EDUCATIONAL QUALIFICATION:

Degree	Branch/Specialization	Institute/University	Year of passing
B.E.	Electrical and Electronics Engineering	Raja College of Engineering and Technology, Madurai	2010
M.E.	Power Electronics and Drives	Sudharsan Engineering College, Pudukkottai	2013
Ph.D.	Electrical Engineering	Anna University, Chennai.	Pursuing

### 2. PROFESSIONAL/ INDUSTRY EXPERIENCE: (IN CHRONOLOGICAL ORDER)

Sl. No.	Designation	Institute/Organization	Period	
			From	To
1.	Assistant Professor	Sethu Institute of Technology, Virudhunagar.	05.06.13	20.11.21
2.	Assistant Professor	Vaigai College of Engineering, Madurai	14.03.22	Till Date

### 3. RESEARCH INTEREST :

Doing Ph.D in the topic of “**PERFORMANCE IMPROVEMENT OF GRID INTERFACED CONVERTERS**”.

### 4. JOURNAL PUBLICATIONS (ADD PATENT IF ANY):

- Published research article titled “Improved Performance of Grid Connected Converters using PCB – Embedded Transformer” in the journal of **Material Today Proceedings of Elsevier in Science Direct ICMSD-2020**.
- Published research article titled “A Brief Investigation on Power Quality Analysis for TND System” in **Irish Interdisciplinary Journal of Science and Research(IJSR)** Vol IV, Issue I Jan-Mar 2020.

### CONFERENCE ATTENDED:

- Presented a paper in **National Conference** titled “Smart Computing and Advanced Communication” at **PSNACET, Dindugal** on 15<sup>th</sup> March 2019



- Presented a paper titled “VAR Compensator by Replacing GIT with SSC” in National Conference held at **Sethu Institute of Technology** on 9<sup>th</sup> April 2018
- Presented a paper titled “SMS based Wireless Home Appliance Control System” in International conference held at **Sethu Institute of Technology** on 5<sup>th</sup> April 2018
- Presented a paper in **INTERNATIONAL CONFERENCE ON EMERGING ELECTRICAL SYSTEMS AND CONTROL** held at **SETHU INSTITUTE OF TECHNOLOGY** on 4<sup>th</sup> and 5<sup>th</sup> FEBRUARY 2013.
- Presented a paper in **NATIONAL CONFERENCE, STRAEE’14** held at **SETHU INSTITUTE OF TECHNOLOGY**.
- Presented a paper in **NATIONAL CONFERENCE ON EMERGING TECHNOLOGIES** held at **MAHATHAMMA INSTITUTE OF ENGINEERING AND TECHNOLOGY** on 24 APRIL 2013.
- Presented a paper in **2<sup>ND</sup> INTERNATIONAL CONFERENCE ON COMPETENCY BUILDING STRATEGIES IN BUSINESS AND TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT** held at **SRI GANESH SCHOOL OF BUSINESS MANAGEMENT** on 22 FEBRUARY 2013.
- Presented a paper in **NATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN TECHNOLOGIES-RAT 2013** held at **MOTHER TERESA COLLEGE OF ENGINEERING AND TECHNOLOGY** ON 16 AND 17 FEBRUARY 2013.

**PATENTS :**

- Hybrid Micro Grid Topology System for Rural Area under form 1(P4)
- IOT based Smart Grid hybrid energy system with energy efficiency in remote area location with Application No. 202114102297(Position 1).
- Smart Plug in Hybrid electric vehicles as new electrical loads in the micro grids topology filed on 21.10.2021.
- Smart Grid connected inverter using Artificial Intelligence System under form 1.with Application No. 2021141053420.

**5. FUNDED PROJECTS**

Sl. No.	Title of the project	Funding Agency	Duration	Amount	Status
1.	<b>DESIGN AND DEVELOPMENT OF AN COMPACT ELECTRIC DRIVES FOR VARIOUS APPLICATIONS</b>	<b>DRDO</b>	<b>3 YEARS (JUN 15 – DEC 18)</b>	<b>19.5 LAKHS</b>	<b>COMPLETED</b>



## 6. PARTICIPATION IN SEMINARS/FDP/WORKSHOP/CONFERENCE/WEBINAR:

Sl. No.	Title of the event	Attended	Date	
			From	To
1.	FDP on “RECENT DEVELOPMENTS IN ELECTRICAL AND ELECTRONICS ENGINEERING”	PVKK INSTITUTE OF TECHNOLOGY	19.05.2022	21.05.2022
2.	Webinar on “ADVANCEMENTS IN MICROCONROLLER AND ITS REAL TIME APPLICATIONS”	POONIMA INSTITUTE OF ENGINEERING AND TECHNOLOGY, JAIPUR	05.05.2022	
3.	Online Webinar on “RECENT RESEARCH PROJECTS IN ISRO”	Sethu Institute of Technology, virudhunagar.	25.07.2021	
4.	Webinar on “NATIONAL EDUCATION POLICY (NEP) - 2020”	Sethu Institute of Technology, virudhunagar.	30.09.2020	
5.	Webinar on APPLICATION OF ELECTRICAL ENGINEERING IN OCEAN RESEARCH	Sethu Institute of Technology, virudhunagar.	17.09.2020	
6.	International Webinar on “SIMULATION OF ELECTRICAL AND ELECTRONICS PROJECTS USING PROTEUS SOFTWARE”	Sethu Institute of Technology, virudhunagar.	07.08.2020	
7.	Webinar on ENGINEERING DESIGN PARAMETERS AND ITS PRAGMATEIC IMPACTS DURING WIND AND SOLAR PV PROJECT EXECUTION	Vellammal College of engineering and Technology, Madurai	03.08.2020	
8.	Webinar on CLOUD COMPUTING WITH AWS	Sethu Institute of Technology, virudhunagar.	30.07.2020	
9.	FDP on “RESEARCH CHALLENGES IN POWER AND ENERGY SYSTEMS (RCIPES-20)”	Sethu Institute of Technology, virudhunagar.	21.07.2020	24.07.2020
10.	FDP on “DEEP LEARNING AND INTERNET OF THINGS (IOT)”,	Vellammal College of engineering and Technology, Madurai	03.06.2020	
11	Seminar on “HYBRID ELECTRIC VEHICLES AND	Sethu Institute of Technology,	18.09.2019	



	<b>THEIR TECHNICAL CHALLENGES”</b>	virudhunagar.		
12	National Conference titled <b>“SMART COMPUTING AND ADVANCED COMMUNICATION”</b>	PSNACET, Dindigul	15.03.2019	
13	National Level Workshop on <b>SMART COMPUTING AND ADVANCED COMMUNICATION</b>	PSNACET, Dindigul	13.03.2019	
14	National Level Workshop on <b>ROLE OF INTELLECTUAL PROPERTY RIGHTS IN INNOVATION MANAGEMENT AND ACADEMIA-INDUSTRY COLLABORATION</b>	Sethu Institute of Technology, virudhunagar	07.02.2019	
15	National Level Workshop on <b>ART OF WRITING PROPOSAL</b>	Sethu Institute of Technology, virudhunagar	10.01.2019	
16	National Level Workshop on <b>ENTERPRENEURSHIP AWARENESS CAMP</b>	Sethu Institute of Technology, virudhunagar	02.01.2019	04.01.2019
17	National Level Workshop on <b>“INTELLECTUAL PROPERTY RIGHTS”</b>	Sethu Institute of Technology, virudhunagar.	08.11.2018	09.11.2018
18	National Level Workshop on <b>HOME AUTOMATION BASED IOT “HABIOT’18”</b>	Sethu Institute of Technology, virudhunagar.	04.10.2018	
19	Seminar on <b>“ EMBEDDED SYSTEM AND ITS DESIGN”</b>	Sethu Institute of Technology, virudhunagar.	28.09.2018	
20	National Conference on <b>“VAR COMPENSATOR BY REPLACING GIT WITH SSC”</b>	Sethu Institute of Technology, virudhunagar.	09.04.2018	
21	International conference , paper titled <b>“SMS BASED WIRELESS HOME APPLIANCE CONTROL SYSTEM”</b>	Sethu Institute of Technology, virudhunagar.	05.04.2018	
22	FDP on <b>“EE 6604 – DESIGN OF ELECTRICAL MACHINES”</b>	UNIVERSITY COLLEGE OF ENGINEERING , DINDIGUL	16.12.2015	22.12.2015
23	FDP on <b>“EFFECTIVEUSAGE OF LANGUAGE IN CLASS ROOMS”</b>	Sethu Institute of Technology, virudhunagar.	02.12.2015	03.12.2015
24	Seminar on <b>“ INTELLECTUAL PROPERTY RIGHTS“</b>	Sethu Institute of Technology, virudhunagar.	25.07.2015	



# VAIGAI COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)  
Vinayagapuram, Therkuthuru, Madurai - 625122  
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25	Seminar on“ <b>NANO ROBOTICS AND ITS MEDICAL APPLICATIONS “</b>	Sethu Institute of Technology, virudhunagar.	16.07.2015	
26	FDP on “ <b>EMBEDDED SYSTEM APPLICATION IN SOLAR BASED ROBOTICS”</b>	Sethu Institute of Technology, virudhunagar.	31.03.2015	
27	National Level Workshop on <b>”RECENT TRENDS IN SOLAR ENERGY TECHNOLOGY”</b>	Sethu Institute of Technology, virudhunagar.	18.02.2015	19.02.2015
28	National Level Workshop on <b>”APPLICATION OF ANSYS SOFTWARE IN ELECTRICAL ENGINEERING”</b>	Sethu Institute of Technology, virudhunagar.	20.02.2015	
29	FDP on <b>ISTE STAFF CHAPTER IN ASSOCIATION WITH DEPARTMENT OF INFORMATION TECHNOLOGY</b> at SETHU INSTITUTE OF TECHNOLOGY	Sethu Institute of Technology, virudhunagar.	14.07.2014	15.07.2014
30	National Level Workshop on <b>WORK LIFE BALANCE OF TODAY’S WOMEN</b>	Sethu Institute of Technology, virudhunagar.	05.12.2013	
31	FDP by <b>FACULTY DEVELOPMENT CELL</b> at SETHU INSTITUTE OF TECHNOLOGY	Sethu Institute of Technology, virudhunagar.	17.11.2013	
32	National Level Workshop on <b>”RECENT TRENDS IN INDUSTRIAL INSTRUMENTATION AND ITS APPLICATIONS”</b>	Sethu Institute of Technology, virudhunagar.	21.11.2013	22.11.2013
33	<b>CSIR</b> sponsored NATIONAL LEVEL SEMINAR ON <b>“APLLICATION OF WIDE AREA MEASUREMENTS IN SMART GRID-WAMS’13”</b>	Sethu Institute of Technology, virudhunagar.	06.09.2013	07.09.2013
34	<b>TWO WEEKS FACULTY INDUCTION PROGRAM</b> Sponsored byAICTE	Sudharsan Engineering College	04.06.2013	17.06.2013
35	Presented a paper in <b>“NATIONAL CONFERENCE ON EMERGING TECHNOLOGIES “</b>	Mahath Amma Instituteof Engineering And Technology	24.04.2013	
36	Presented a paper in <b>2ND INTERNATIONAL CONFERENCEON COMPETENCY BUILDING STRATEGIES IN BUSINESS</b>	Sri Ganesh School Of Business Management	22.02.2013	



	<b>AND TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT</b>			
37	Presented a paper in <b>NATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN TECHNOLOGIES-RAT 2013</b>	Mother Teresa College Of Engineering And Technology	16.02.2013	17.02.2013
38	Presented a paper in <b>INTERNATIONAL CONFERENCE ON “EMERGING ELECTRICAL SYSTEMS AND CONTROL “</b>	Sethu Institute of Technology, virudhunagar.	04.02.2013	05.02.2013

**7. Membership in Professional societies**

**8. AWARDS, RECOGNITION & ACHIEVEMENTS**

- Got the **FUNDED PROJECT** from **DRDO** worth **Rs.19,50,000** and also got the **CERTIFICATE OF APPRECIATION** for the same in **SETHU INSTITUTE OF TECHNOLOGY** in **2014-2015**.
- Got the **CERTIFICATE OF COMPETENT COMMUNICATOR AND LEADERSHIP AWARD** from **TOASTMASTERS INTERNATIONAL , CALIFORNIA**.
- Got the **CERTIFICATE OF APPRECIATION** for **ADMISSION ACTIVITIES** in College level in **SETHU INSTITUTE OF TECHNOLOGY**.
- Got **UNIVERSITY RANK 34** among **888 students in P.G (M.E-POWER ELECTRONICS AND DRIVES )** in **Anna University, Chennai**. during the academic year (2011-2013).
- Got **FIRST RANK** and **GOLD MEDAL** for **P.G Studies in Sudharsan Engineering college, Pudukkottai**.

Got the **FIRST RANK** for **U.G Studies** of **EEE DEPARTMENT** in **Raja College of Engineering and Technology**.

- **12 th NATIONAL CHILDREN’S SCIENCE CONGRESS HELD AT GUWAHATI IN 2004** awarded me with **Certificate of Excellence and Medal** for My Project **NATURAL TREATMENT FOR WATER RECYCLING** received from **Dr. A.P.J. ABDUL KALAM**.