

## **Bio Data**

### **PERSONAL DETAILS**



Name : **S.GOMATHI**

Designation : Professor

Institution : K.S.Rangasamy College of Technology, Tiruchengode

Father's Name : A.M.Shanmugam

Date of Birth & Age : 05.07.1979, 40 Years

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Dept.of EEE  
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## **ACADEMIC PROFILE**

| <b>Degree</b> | <b>Institution/University</b>                              | <b>Specialization</b>    | <b>% of Marks /<br/>Class obtained</b> | <b>Year of<br/>completion</b> |
|---------------|--|--------------------------|--|-------------------------------|
| Ph.D          | Anna University  | Fault Current<br>Limiter |  | July 2019                     |
| M.E.          | K.S.Rangasamy College of<br>Technology, Anna<br>University | Applied<br>Electronics   | 83                                     | June 2006                     |
| B.E.          | Kongu Engineering College,<br>Bharathiyar University       | EEE                      | 76.5                                   | May 2000                      |
| HSC           | Govt.Girls Hr.Sec.School,<br>Sivagiri. Erode (DT)          | -                        | 80.33                                  | 1996                          |
| SSLC          | Jaivabai Municipal Girls<br>Hr.Sec. School, Tirupur.       | -                        | 79.2                                   | 1994                          |

## **PROFESIONAL EXPERIENCE**

**Teaching:** UG - 19 years  
PG – 11 years

| <b>S.No</b> | <b>Institution</b>                            | <b>Post held</b>       | <b>Period</b> |            |
|-------------|---|------------------------|---------------|------------|
|             |   |                        | <b>From</b>   | <b>To</b>  |
| <b>1</b>    | K.S.R. College of Technology,<br>Tiruchengode | Professor              | 01.08.2019    | Till date  |
| <b>2</b>    | K.S.R. College of Technology,<br>Tiruchengode | Associate<br>Professor | 01.05.2010    | 31.07.2019 |
| <b>3</b>    | K.S.R. College of Technology,<br>Tiruchengode | Asst. Professor        | 01.06.2006    | 30.04.2010 |
| <b>4</b>    | K.S.R. College of Technology,<br>Tiruchengode | Lecturer               | 08.06.2000    | 31.05.2006 |

## **ADMINISTRATIVE EXPERIENCE**

| <b>Sl.<br/>No.</b> | <b>Name of the<br/>Assignment</b> | <b>Duration</b>              |
|--------------------|-----------------------------------|------------------------------|
| 01                 | Women Empowerment                 | From 01.07.06 to 20.04.09    |
| 02                 | Vacation coordinator              | From 01.06.2014 to till date |
| 03                 | Exam Cell Coordinator             | From 01.06.2014 to till date |
| 04                 | Sports Coordinator                | From 01.03.2019 to till date |
| 05                 | ISO Coordinator                   | From 01.06.2019 to till date |

## **JOURNAL PUBLICATIONS/CONFERENCES/WORKSHOPS**

| <b>Journal Publications</b> |                      | <b>No. of Conferences attended</b> |                      | <b>No. of Workshop/Seminar/STTP</b> |                  |
|-----------------------------|----------------------|------------------------------------|----------------------|-------------------------------------|------------------|
| <b>National</b>             | <b>International</b> | <b>National</b>                    | <b>International</b> | <b>Attended</b>                     | <b>Organized</b> |
| ---                         | 07                   | 10                                 | 09                   | 27                                  | 01               |

## **LIST OF PUBLICATIONS MADE**

| <b>INTERNATIONAL JOURNALS</b> |  |
|-------------------------------|--|
| 1.                            | B.Niranjana, S.Gomathi and Dr.T.Venkatesan, “Demand management in hybrid microgrid” International Journal of Advanced Information and Communication Technology, Vol1, Issue9, pp.767-770, 2015.  |
| 2.                            | B.Niranjana, S.Gomathi and Dr.T.Venkatesan, “A hybrid microgrid and its co-ordination control with real-time pricing algorithm” International Journal of Research and Engineering, Vol2, Issue4, pp. 41-45, 2015.  |
| 3.                            | V.Gokul, S.Gomathi and Dr.T.Venkatesan, “P-Q and V-F control of hybrid microgrid” International Journal of Advanced Information and Communication Technology, Vol1, Issue10, pp.771-776, 2015.   |
| 4.                            | V.Gokul, S.Gomathi and Dr.T.Venkatesan, “Power Control Analysis of Hybrid Microgrid” International Journal of Research and Engineering, Vol 2, Issue 4, pp. 50-56, 2015.   |
| 5.                            | S.Gomathi, Dr.T.Venkatesan and S.Tharanya, “Enhancement of power quality on grid connected dual voltage source inverter” International Journal of Applied Engineering Research, Vol.10, No.20, ISSN 0973—4562, pp.20021-20026, 2015.   |
| 6.                            | Gomathi, S, Venkatesan, T & Sri Vidhya, D 2018, ‘Design and Implementation of Fault Current Limiters in Distribution System using Internet of Things’ Wireless Personal Communications. Doi: 10.1007/s11277-018-5281-9 (Annexure I) (Impact Factor : 0.951).                               |
| 7.                            | S.Gomathi, V.Dharani, A.Dhivya, M.R.Dhivya & A.Iyswariya, “IoT Based Fault current Monitoring and Limiting of Smart Grid System” International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering. Vol. 8, No.3, ISSN 2320-3765, pp. 1601-1608, 2019. |

## **INTERNATIONAL CONFERENCES**

|    |  |
|----|--|
| 1. | S.P.Gayathri and S.Gomathi, “Interleaved soft switching buck boost converter for PV system” PCID 2012.   |
| 2. | S.gomathi and n.kanagaraj, “implementation of maximum power point tracking using fuzzy logic controller for photovoltaic system” international conference on renewable energy utilization, jan 4-6, 2012.            |
| 3. | S.P.Gayathri and S.Gomathi, “High efficiency Interleaved soft switching buck boost converter for Photovoltaic power generation system” International Conference on Emerging trends in communication March 8-9, 2012. |
| 4. | B.Niranjana, S.Gomathi and Dr.T.Venkatesan, “A hybrid microgrid and its co-ordination control” International Conference on Advances in Emerging Technology (ICAET 2015).   |

|                            |   |
|----------------------------|---|
| 5.                         | V.Gokul, S.Gomathi and Dr.T.Venkatesan, "Power Control of Distributed Energy Sources" International Conference on Advances in Emerging Technology (ICAET 2015).   |
| 6.                         | S.Gomathi, Dr.T.Venkatesan and S.Tharanya, "Enhancement of power quality on grid connected dual voltage source inverter" Online International Conference on Green Engineering and Technologies, 2015.   |
| 7.                         | S.Gomathi, V.Dharani, A.Dhivya, M.R.Dhivya & A.Iyswariya, "Performance of Fault Current Limiting System in Smart Grid using IoT" International Conference on Innovation in Electrical, Electronics, Instrumentation and Computer Engineering (IEEIC' 19), 15 <sup>th</sup> March 2019.                              |
| 8.                         | S.Gomathi, D.Sri Vihdhya & T.Venkatesan, "Thermoelectric based Power generation for battery charging" AICTE Sponsored Two Days International Conference on Smart Applications for Environmental Quality Assessment and Promoting Health Care Systems using Internet of Things (ICSAIOT-2019), August 28 & 29, 2019. |
| 9.                         | D.Sri Vihdhya, S.Gomathi & T.Venkatesan, "Solar Powered electric smart Scooter with IOT" AICTE Sponsored Two Days International Conference on Smart Applications for Environmental Quality Assessment and Promoting Health Care Systems using Internet of Things (ICSAIOT-2019), August 28 & 29, 2019.              |
| <b>National Conference</b> |   |
| 01.                        | S.Gomathi and T.Vimalkumar, "PV based stand alone automatic water pumping system using Fuzzy MPPT technique", National Conference On Emerging Trends And Instrumentation Systems, NCETIS' 12, Sri Ramakrishna Engineering College, Coimbatore, March 9th & 10th, 2012.  |
| 2.                         | S.Gomathi and Dr.T.Venkatesan, "A Review on various types of Fault Current Limiters" National Conference on Emerging Scenario in Power Engineering and Electrical Drives (eSpeed 2017), April 6-7, 2017.  |
| 3.                         | <b>S.Gomathi</b> , V.Dharani, A.Dhivya, M.R.Dhivya & A.Iyswariya, "IoT based Fault current Limiter for Smart Grid Application" National Conference on Emerging Scenario in Power Engineering and Electrical Drives (eSpeed 2K19), March 15-16, 2019.  |
| 4.                         | <b>S.Gomathi</b> , M.Santhosh, V.Sivaskthi, V.Nivas & S.Kavinraj, "Smart House energy Storage System Using Thermoelectric panels", National Conference on Emerging Scenario in Power Engineering and Electrical Drives (eSpeed 2K19), March 15-16, 2019.  |

**THESIS SUPERVISED: FOR M.E. / M. TECH. PROGRAMME**

| Sl. No. | Title of the Thesis Supervised  | Name of the candidate | Completed (year) | In progress (With Status) |
|---------|---|-----------------------|------------------|---------------------------|
| 01      | Harmonics mitigation in grid by connecting dual voltage source inverter                 | S.P.Tharanya          | 2016             | Completed                 |
| 02      | A Hybrid Micro-Grid and its Co-Ordination Control                                       | B.Niranjana           | 2015             | Completed                 |
| 03      | Active and Reactive Power Control of Hybrid Microgrid                                   | V.Gokul               | 2015             | Completed                 |
| 04      | Buck-Boost converter for PV system  | S.P.Gayahtri          | 2012             | Completed                 |
| 05      | Maximum power point tracking for PV system using fuzzy logic control                    | T.Vimal kumar         | 2012             | Completed                 |
| 06      | Sliding mode control for PV system  | Mekala                | 2011             | Completed                 |
| 07      | LUO Converter for parallel connected solar photovoltaic system                          | V.Prabhu              | 2010             | Completed                 |
| 08      | Design And Implementation Of Resonant Converter For Speed Control Of An Induction Motor | S.Malathi             | 2008             | Completed                 |
| 09      | Digital control of single phase inverter for ups application                            | P.Jamuna              | 2007             | Completed                 |

## **LIST OF WORKSHOPS / TRAINING PROGRAMMES ATTENDED**

| Sl. No. | Title   | Venue   | Duration                         | Sponsoring Authority                          |
|---------|---|---|----------------------------------|---|
| 1.      | Introduction to IOT   | NPTEL On line course                              | 12 weeks                         | IIT-Kharagpur Ministry of HRD, Govt. of India |
| 2.      | Control Engineering   | NPTEL On line course                              | Jan-Apr 2019<br>12 weeks         | IIT-Madras Ministry of HRD, Govt. of India    |
| 3.      | Short term training programme through ICT mode on NBA Accreditation                     | K.S.Rangasamy College of Technology, Tiruchengode | 22.04.19 to 26.04.19<br>(1 week) | NITTTR, Kolkata                               |
| 4.      | Coordinator's workshop on Scilab  | Mahendra Engineering College                      | 16-04-2019                       | IIT-B   |
| 5.      | Introduction to Smart Grid  | NPTEL On line course                              | Aug-Sep 2018<br>8 weeks          | Ministry of HRD, Govt. of India               |
| 6.      | Seminar on "How to write a Successful Proposal to Funding Agencies"                     | K.S.Rangasamy College of Technology, Tiruchengode | 21.07.2018                       | KSRCT   |
| 7.      | Challenges and opportunities of IoT based stand alone and interactive micro grid system | K.S.Rangasamy College of Technology, Tiruchengode | 01.11.17 to 03.11.17             | AICTE   |
| 8.      | Workshop on "Power Systems"   | K.S.Rangasamy College of Technology, Tiruchengode | 10.07.17 to 15.07.17             | IIT, Kharagpur                                |

|     |   |   |                      |   |
|-----|---|---|----------------------|---|
| 9.  | Application of power electronics to renewable energy systems and micro grids                | NIT, Trichy   | 08.02.15 to 10.02.15 | AnMPET, Dept. of Electronics & Information Technology, Govt. of India |
| 10. | STTP on Padagogy for effective use of ICT in Engineering                                    | K.S.Rangasamy College of Technology, Tiruchengode           | 05.01.15 to 07.01.15 | IITB  |
| 11. | workshop on “Control Systems”   | K.S.Rangasamy College of Technology, Tiruchengode           | 02.12.14 to 12.12.14 | IIT, Kharagpur  |
| 12. | Workshop on PV Installations  | PSG College of Technology, Coimbatore                       |                      | KSRCT   |
| 13. | Workshop on Digital Signal Processing   | Dept of EIE, Kongu Engg College, Perundurai                 |                      |   |
| 14. | Seminar on Sensors  | Department of Nano-Tech<br>KSRCT                            | 12.04.10             |   |
| 15. | National conference on “Innovations in Electrical and electronics Engineering”              | MPNMJ Engineering college,                                  | 23.01.10             |   |
| 16. | Research Techniques in data Mining & Warehousing  | SNS College of Technology, CBE                              | 17.07.09 to 18.07.09 | KSRCT   |
| 17. | Workshop on Power System and FACTs Controller   | Department of EEE,Sasurie college of Engineering            | 07.03.09             |   |
| 18. | Seminar on Emerging trends in embedded controller and its applications                      | Department of Electrical and Electronics Engineering, KSRCT | 14.11.08 to 15.11.08 | CSIR  |
| 19. | Short Term Course on Electrical Machines and Power Electronics in Renewable Energy Systems. | Department of EEE, National Institute of Technology. Trichy | 28.01.08 To 01.02.08 | AICTE-QIP   |
| 20. | Workshop on Soft Computing  | Department of Electrical and Electronics Engineering, KEC   | 20.07.07 to 21.07.07 | KSRCT   |



|     |   |   |                      |                                |
|-----|---|---|----------------------|--------------------------------|
| 21. | Workshop on Control of unstable systems                 | Department of chemical engineering, NIT, Trichy             | 19.12.06 to 20.12.06 | Under TEGIP community services |
| 22. | Workshop on Integrated circuits and Microcontrollers    | Department of Electrical and Electronics Engineering, KSRCT | 08.12.05 to 09.12.05 |                                |
| 23. | Seminar on Fuzzy logic application for power system     | Department of Electrical and Electronics Engineering, KSRCT | 19.03.04 to 20.03.04 | AICTE                          |
| 24. | Workshop on Embedded controllers for solid state drives | Department of Electrical and Electronics Engineering, KSRCT | 21.04.03 to 22.04.03 | KSRCT                          |

|     |   |   |                      |       |
|-----|---|---|----------------------|-------|
|     |   |   |                      |       |
| 25. | Workshop on Integrated circuits and Microcontrollers    | Department of Electrical and Electronics Engineering, KSRCT | 08.12.05 to 09.12.05 |       |
| 26. | Seminar on Fuzzy logic application for power system     | Department of Electrical and Electronics Engineering, KSRCT | 19.03.04 to 20.03.04 | AICTE |
| 27. | Workshop on Embedded controllers for solid state drives | Department of Electrical and Electronics Engineering, KSRCT | 21.04.03 to 22.04.03 | KSRCT |

### **LIST OF WORKSHOPS / TRAINING PROGRAMMES ORGANIZED**

| Sl. No. | Title                      | Venue   | Duration   | Sponsoring Authority |
|---------|----------------------------|---|------------|----------------------|
| 1.      | One day workshop on Scilab | K.S.Rangasamy College of Technology, Tiruchengode | 04-05-2019 | IIT-B                |

### **LIST OF ACTING AS RESOURCE PERSON (Keynote speaker)**

| Sl. No. | Title   | Venue   | Duration                | Sponsoring Authority     |
|---------|---|---|-------------------------|--------------------------|
| 1.      | Technological Progress and Challenges in Smart Grid Integration with distributed Generation | K.S.Rangasamy College of Technology, Tiruchengode | 01-02-2019 & 02-02-2019 | IE(I) Erode Local Center |

### **DETAILS OF MEMBERSHIP IN PROFESSIONAL SOCIETIES**

| S. No. | Name of Professional Body | Grade of Membership | Membership No. |
|--------|---------------------------|---------------------|----------------|
| 1      | ISTE                      | Life Member         | LM42819        |

### **PROFESSIONAL RECOGNITION AND AWARDS RECEIVED**

| S.No | Type of Award   | Nature of award                                | Awarding Institute / Organization                                |
|------|---|--|--|
| 2.   | Appreciation for 100% results in University Examination                         | Certificate of Merit with Cash Prize – 2 times | K.S.Rangasamy College of Technology                              |
| 3.   | NSF Best Research Paper Award   | Certificate of Merit                           | Nature Science Foundation, Coimbatore                            |
| 4.   | Best Senior Faculty award   | Certificate of Merit                           | International American Council for Research and Development, USA |
| 5.   | Student Project Scheme – Smart house storage system using thermoelectric panels | Cash prize of Rs.7500                          | TNSCST   |

### **NPTEL ON LINE COURSE**

| Sl. No. | Title                      | Mark Secured | Duration                 | Sponsoring Authority                       |
|---------|----------------------------|--------------|--------------------------|--|
| 1.      | Control Engineering        | 65           | Jan-Apr 2019<br>12 weeks | IIT-Madras Ministry of HRD, Govt. of India |
| 2.      | Introduction to Smart Grid | 52           | Aug-Sep 2018<br>8 weeks  | Ministry of HRD, Govt. of India            |

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