# FACULTY PROFILE

**Name:** Dr. Anuradha .T

**Designation:** Professor

**E-mail:** hodeee@kcgcollege.com; tanura1872@gmail.com

**Area of Specialization / Research Interest:** Renewable Energy Systems, Power Electronics, smart grids and Microgrids

## Educational Qualifications

| Degree/ Specialization | College/University | CGPA / Class | Year Of Passing |
|---|---|---|---|
| Ph.D (Electrical Engineering) | College of Engineering, Guindy, Chennai/ Anna University | | 2016 |
| M.E (Power Systems) | College of Engineering, Guindy, Chennai/ Anna University | 8.124 (First Class with Distinction) | 2006 |
| B.E (Electrical and Electronics Engineering) | Algappa Chettiar College of Engineering and Technology, Karaikudi, / Madurai Kamaraj University | 71 % (First Class) | 1993 |

## Professional Experience

| Teaching | | | |
|---|---|---|---|
| **Designation** | **From – To** | **Institution** | **Years of Experience** |
| Professor | 18.06.2018 to Till date | KCG College of Technology, Chennai | 0.6 Yrs |
| Professor | 03.12.2003 to 10.05.2018 | Anand Institute Of Higher Technology, OMR, Kazhipattur -603103 | 14 Years and 6 Months |
| **Industry** | | | |
| **Designation** | **From –To** | **Organisation** | **Years of Experience** |
| Senior Design Engineer | 17.06.1996 to 31.01.2003 | Kvaerner Process (I) Ltd, Primrose Road, Bangalore. | 6.7Yrs |
| Assistant Design Engineer | 05.06.1995 to 31.05.1996 | Technology Ventures (I) Pvt ltd, Chenani – 28 | 1 Yr |
| Graduate Apprentice | 28.04.1994 to 27.04.1995 | TNEB, Chennai | 1 Yr |

| Research Experience | | | |
|---|---|---|---|
| **Designation** | **From –To** | **Organisation** | **Years of Experience** |
| Nil | Nil | Nil | Nil |

**Professional Membership Details**

- Indian Society for Technical Education (Life Time Member – LM 54128 )
- Member of the Institution of Engineering and Technology (MIET – 1100705868)

**Awards / Achievements**

- **Reviewer In Journals/ Publications**
  - ✓ **IET Power Electronics**
  - ✓ **IET Generation, Transmission & Distribution**
  - ✓ **IEEE- IAS Sustainable Energy Conversion Systems**
  - ✓ **Pearson Education India**
  - ✓ **International Journal of Electronics**
  - ✓ **Journal of Electrical Engineering**
  - ✓ **IETE Journal of research**
  - ✓ **The Open Mechanical Engineering Journal**

- **Reviewer In International/National Conferences**
  - ✓ **International Conference on Fuzzy Systems and Data mining, Japan**
  - ✓ **International Conference on Circuits, Devices and Systems, China**
  - ✓ **IEEE International Conference on Environment and Electrical Engineering, Palermo, Italy**
  - ✓ **IEEE International Conference on Industrial and Commercial Power Systems, Palermo, Italy**

**Publications**

- **Google Scholar Link:** https://scholar.google.co.in/citations?user=YkiV1h0AAAAJ&hl=en&oi=sra

**International Journals**

- Anuradha, T, Senthilkumar, V & Deivasundari, P, 2017, 'Linear open circuit voltage-variable step size –incremental conductance strategy-based hybrid MPPT controller for remote power applications', IET Power Electronics, vol. 10, no.11, pp. 1363-1376, DOI:10.1049/iet-pel.2016.0245, ISSN :1755- 4535 (Annexure I journals 2017). Impact Factor – 3.575.

- Anuradha, T, Senthilkumar, V & Deivasundari, P, 2016, 'Zero voltage switching-pulse width modulation technique-based interleaved flyback converter for remote power solutions', IET Power Electronics, vol. 9, no.7, pp. 1381-1390, DOI: 10.1049/iet-pel.2015.0365, ISSN :1755- 4535 (Annexure I journals 2017). Impact Factor – 3.575.
- Anuradha, T, Senthilkumar, V & Deivasundari, P, 2016 'Analysis and Implementation of MPPT Algorithm for a PV System with High Efficiency Interleaved Isolated Converter', Intelligent Computing and Applications, Springer, Advances in Intelligent Systems and Computing, vol.467, pp. 551-560, ISSN: 2194-5357
- Anuradha, T, Senthilkumar, V & Deivasundari, P 2016, 'A Comparison of Existing MPPT Techniques for a PV System with Interleaved Converter', Australian Journal of Basic & Applied Sciences, vol.10, no.5, pp. 69-75, ISSN : 1991-8178. Impact Factor – 0.425. [BEST PAPER AWARD]
- Anuradha, T, Senthilkumar, V & Deivasundari, P 2016, 'Bisection Method Based Modified Perturb and Observe MPPT Algorithm for a PV Generation System with an Interleaved, Isolated DC - DC Converter', Australian Journal of Basic & Applied Sciences, vol.10, no.5, pp. 76-82, ISSN : 1991-8178. Impact Factor – 0.425.
- Anuradha T, Babitha Dhas P G , 2015, 'Adaptive Current Based Model Predictive Controller(MPC) For DC-DC Boost Converter', International Journal of Advanced Research Trends in Engineering and Technology, vol. 2, no 13, pp. 25 -29, ISSN 2394-3785
- T.Anuradha, G.Prasanthi, 2015,'Adaptive Sliding Mode Control For PWM Based Buck Converter' International Journal of Advanced Research Trends in Engineering and Technology ,vol. 2, no 13, pp. 30 -35, ISSN 2394-3785
- T.Anuradha, J.Christysudha, 2014, 'High Step-Up ZVT Interleaved Converter with Voltage Doublers Cell for Renewable Energy System' International Journal of Innovative Research in Science, Engineering and Technology, vol. 3, no 3, pp 480 - 484.

**International/National Conferences**

- T. Anuradha, P. Deiva Sundari, Sanjeevikumar Padmanaban, Pierluigi Siano, Zbigniew Leonowicz, 2017,'Comparative Analysis of Common MPPT Techniques for Solar PV System with Soft Switched, Interleaved Isolated Converter' IEEE International Conference on Environment and Electrical Engineering and 2017 IEEE Industrial and Commercial Power Systems Europe (EEEIC/I&CPS Europe), DOI: 10.1109/ EEEIC.2017.7977885
- Babitha Dhas P.G, T.Anuradha, 2015, 'Model Predictive Control With Adaptive Current Control Mode Strategy for Dc-Dc Boost Converter', in IEEE sponsored International Conference on Science, Technology, Engineering and Management –

Power Electronics Instrumentation and Communication Engineering, vol. 1, pp.357-361.

- T. Anuradha, Sree Ranjini K.S, Joel Jose, Vasan Prabhu and S. Sakthivel, 2014, "Development of a Brushless AC Servo Drive for the Tube Locator Module for Steam Generator Tube Inspection Device" ELSEVIER International Conference on Structural Integrity, (ICONS), Procedia Engineering vol 86, pp.511 – 519
- T. Anuradha, Sree Ranjini K.S, Joel Jose, Vasan Prabhu and S. Sakthivel, 2014, 'Modeling and simulation of PMSM drive for remote inspection of steam generator tubes in PFBR', IEEE International Conference on Electrical Energy Systems (ICEES), pp 116 -121
- Anuradha, T & Senthilkumar, V 2013, 'Design and Analysis of High Efficiency Soft Switched Interleaved Flyback Converter', IEEE International Conference on Power, Energy and Control (ICPEC), pp. 325-328.
- Vijaya saraswathi, R.J, Anuradha, T & Senthilkumar, V 2012, 'Design aspects of soft switched interleaved DC-DC boost converter', IEEE sponsored 5th National Conference on Innovative Techniques in Power Engineering and Drives (ITPED'12), pp. 126-130.
- Nalini, S, Anuradha, T & Senthilkumar, V 2012, 'A Novel Topology of Soft switched interleaved flyback converter', IEEE sponsored 5th National Conference on Innovative Techniques in Power Engineering and Drives (ITPED'12), pp. 76-81.
- T.Anuradha, Priyadharshini.T.S, Annupriya.V, 2010, "A Zero Voltage-Switching Based Bidirecional Dc-Dc Converter Design " at International conference on Advances in Energy Conversion Technologies (ICAECT 2010) at Manipal University, Karnataka in 7th to-10th June, 2010, pp 256 -261
- M.Sundar, T.Anuradha, 2009 " Genetic algorithm based optimization of the controllers for cuk converter " at International conference on Electrical Energy System and Power Electronics in Emerging Economics (ICEESPEE'09) at SRM University, in 16th to-17th Apr, 2009, pp 194 -198

11. T.Anuradha, R.Indumathi, K.Ramya, 2008 "Biomedical signal acquisition (ecg, heart rate) via zigbee modem" at International conference on Power Electronics and Power Systems (POWERCOIN'08) at Sona College of Technology, Salem in 20th &21st March, 2008, pp 58 - 64
12. Somasundaram. P, Anuradha.T, 2006, "Evolutionary Programming Based Decentralized Implementation of OPF on Network of Computers in 14th National Power system conference NPSC – 06 at IIT Roorkey under the theme of "AI & Evolutionary Techniques applied to Power System" in 2006, pp 113 - 120