

**GOVERNMENT COLLEGE OF ENGINEERING (AUTONOMOUS)  
BARGUR, KRISHNAGIRI-635 104**

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

**FACULTY PROFILE**

1. Name of the Faculty: **Dr. R. FRANCIS**
2. Designation : **Associate Professor**
3. Department : **Electrical & Electronics Engineering**
4. Date of birth : **25/05/1977**
5. Gender : **Male**
6. Father's Name : **V.T. Ramalingam**
7. Address for Communication : **14.Ragavendra Nagar  
Chidambaram-608001  
Cuddalore District  
Tamilnadu.**
8. Email ID : **francis.vtr@gmail.com**
9. Mobile Number : **9788018186**
10. Date of joining in this Institution : **17-05-2017**



**11. Educational Qualifications:**

Name of the Degree	Specialisation/Branch	Year of passing	Name of the college	Name of the University	Grade obtained	Class obtained
ME	Power System	2001	Faculty of Engineering and Technology	Annamalai University	7.35	I
Ph.D	Electrical Engineering	2016	Faculty of Engineering and Technology	Annamalai University	--	--

**12. Previous Experience as on July 2002:**

Name of the college	Name of the	Designation	Date of joining	Date of Relieving	Experience
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	University				Years	Months	Days
Faculty of Engineering and Technology	Annamalai University	Assistant Professor	01/07/2002	15/05/2017	14	10	15
Government college of Engineering, Bargur	Anna university	Associate Professor	16/05/2017	--	03	9	27

### 13. International Journal Publications:

[1] **R.Francis and I. A. Chidambaram**, “Control Performance Standard based Load Frequency Control of a two area Reheat Interconnected Power System considering Governor Dead Band nonlinearity using Fuzzy Neural Network”, *International Journal of Computer Applications*, Vol. 46, No.15, pp 41-48, 2012.

[2] **R. Francis and I. A. Chidambaram**, “Automatic Generation Control for an interconnected reheat thermal power systems using Wavelet Neural Network controller”, *International Journal of Emerging Technology and Advanced Engineering (IJETAE)*, Vol. 2, No. 4, pp. 406-413, 2012.

[3] **R.Francis and I. A. Chidambaram**, “Application of Modified Dynamic Neural Network for the Load Frequency Control of a Two Area Thermal Reheat Power System”, *International Review of Automatic Control (IREACO)*, Vol. 6, No. 1, pp 47-53, 2013.

[4] **R.Francis and I. A. Chidambaram**, “Load Frequency Control for an Interconnected Reheat Thermal Power Systems with Redox Flow Batteries using Beta Wavelet Neural Network Controller”, *International Journal of Engineering and Innovative Technology (IJEIT)*, ISSN: 2277-3754, Vol. 2, Issue 9, pp. 275-282, 2013.

[5] **R.Francis and I. A. Chidambaram**, “Beta Wavelet Neural Network Based Load-Frequency Controller for an Interconnected Reheat Power system with Hydrogen Electrolyzer”, *International Journal of Computer and Technology (IJCT)*, Vol 10, No 4, pp 1587-1597, 2013.

[6] **R.Francis and I. A. Chidambaram**, “Optimized PI+ Load-Frequency Controller using BWNN approach for an Interconnected Reheat Power system with RFB and Hydrogen Electrolyser units”, *International Journal of Electrical Power and Energy Systems (IJEPES)*, Vol 67, pp 381-392, 2015.

[7] **S. Iankannan, R. Francis**, “Performance Evaluation of Unified Power Quality Conditioner for Mitigation of Power Quality Issues using Genetic Algorithm Controller”, *Journal of VLSI Design and Signal Processing*, Volume-7, Issue-1, January-April, 2021.

[8] **S. Iankannan, R. Francis**, “Analysis and Improvement of Power Quality Using Unified Power Quality Conditioner in Distribution System”, *Journal of Adv Research in Dynamical & Control systems*, Volume-11,06-Special Issue,2019.

[9] **S. Iankannan, R. Francis**, “Performance of Eight Switches Based Unified Power Quality Conditioner for Enhancing the Quality of Power Using Intelligent Controller”, *Indian Journal of Science And Technology*, Vol 13(04),453-459.

[10] **S. Ilankannan, R. Francis K.Karthick , K.B.Ravindrakumar**, “Steps Involved in Text Recognition and Recent Research in OCR; A Study”,**International Journal of Recent Technology and Engineering (LJRTE) ISSN:2277-3878,Volume-9,Issue-1,May 2019.**

[11] **S. Ilankannan, R. Francis**, “Performance Evaluation of Nine Switch Based Unified Power Quality Conditioner of Power Quality Issues Using Fuzzy Logic Control and ANN Controller”, **Solid State Technology** Volume :63 Issue : 4 Publication Year : 2020.

#### **14. International conference:**

[1] **R. Francis and I. A. Chidambaram**, “Automatic Generation Control for an Interconnected Reheat Thermal Power system in the deregulated environment with Redox Flow Batteries”, **IEEE International Conference (ICEE 2009), Pondicherry**, pp 11-17, 2009.

[2] **R.Francis and I. A. Chidambaram**, “Automatic Generation Control of two area interconnected power system based on CPS using fuzzy neural network”, **IEEE International Conference (ICETECT 2011)**, Nagerkovil, pp 200-205, 2011.

[3] **S. Ilankannan, R. Francis**, “ **Power Quality enhancement using controller for a Nine Switch Converter based UPQC.**

[4] **S. Ilankannan, R. Francis**, “Improvement Of Power Quality Issue Using Unified Power Quality Conditioner In Distribution System”, on Smart Innovations in Engineering Systems and Technology -2020 ( Global E- conference)” Organised by Jagannath Institute of Technology, 27<sup>th</sup> December 2020.

#### **15. Programme attended:**

##### **LIST OF PROGRAMS ATTENDED FROM JULY 2017 to MARCH 2021**

1. TEQIP-III Sponsored One Week Faculty Development Programme on “**Recent Development in Energy Storage Technology**” organised by Department of Electrical and Electronics Engineering.GCE,Bargur, from 13<sup>th</sup> to 19<sup>th</sup> June 2019.
2. TEQIP-III Sponsored Faculty Development Program on “**Wireless and Cyber Security**” Conducted from 05.08.2019 to 09.08.2019 at Department of Electronics and Communication Engineering, GCE, Bargur.
3. TEQIP-III Sponsored Twinning Programme on “**ELECTRICAL LABORATORY EXPERIMENT FOR STUDENT PF BBEC KOKRAJHAR, ASSAM**” Organized by Department of Electrical and Electronics Engineering, GCE, Bargur from 25<sup>th</sup> January to 5<sup>th</sup> February 2019.
4. TEQIP-III Sponsored One WEEK Faculty Development Programme on “**Solar photovoltaic System Design and Applications**” organized by Department of Electrical and Electronics Engineering, GCE, Bargur from 10<sup>th</sup> to 16<sup>th</sup> July 2019.

5. TEQIP –III Sponsored FDP on “**Current Practices in Nano-Engineering**” From 25.06.2019 to 01.07.2019 organised by Department of Chemistry, GCE, Bargur-635104.
6. TEQIP-III Sponsored Two days Faculty Development Programme on “**Design, Develop and Deliver online courses through MOODLE**” platform organized by Department of Technical Education and Coimbatore institute of technology, Coimbatore held on 23 & 24 April, 2020 through Online Mode.
7. TEQIP-III Sponsored Five Days Online Faculty Development Programme on “**Strategies and Tools for Effective Teaching and Learning**” from 04<sup>th</sup> to 08<sup>th</sup> August 2020, Organized by the Department of Computer Science and Engineering, GCE, Bargur in association with P.G and Research Department of Social Work, Sacred Heart College, Thirupattur.
8. TEQIP-III Sponsored for successfully completing the 2 week course on “**Digital Transformation In Teaching Learning Process**” on April 6<sup>th</sup> to April 22<sup>nd</sup> 2020.

#### **16. others**

1. 21<sup>st</sup> February 2021 International E-Conference on Research and Development in Science, Technology and Management in the Current Era organized by Indian Academicians and Researchers Association.
2. 02.05.2020 in a Webinar titled Solar Panel System For Your Home.
3. The TEQIP-III Sponsored 5<sup>th</sup> National Conference On “**Emerging Trends In Advanced Computing And Communication**”, Organized By Department of Computer Science and Engineering, GCE, Bargur, 10<sup>th</sup> January,2019.