

R.KRISHNA KUMAR**Assistant Professor(Senior Grade)****Department of Electrical & Electronics Engineering****PSG College of Technology, Coimbatore – 641 004****e-mail: rkk@eee.psgtech.ac.in****EDUCATION : B.E., M.E.****POST DOCTORATE**

(Month/Year)

NAME OF INSTITUTION / UNIVERSITY

Title, Area of Specialty**POSTGRADUATE**

(Month/Year)

: Nov.1998

M.E.(POWER SYSTEMS)

Coimbatore Institute of Technology

Bharathiyar University, Coimbatore.

UNDERGRADUATE

(Month/Year)

April 1993

B.E(EEE)

Thiagarajar College of Engineering

Kamarajar University, Madurai.

EXPERIENCE**A : Teaching**

Sl.No	Designation	Name and Address of the Institution	From	To	Total No. of years
1	Assistant Professor (Senior grade)	PSG College of Technology, Coimbatore - 4	1.1.2006	Till date	-
2	Lecturer (Senior grade)	PSG College of Technology, Coimbatore - 4	20.09.2005	31.12.2005	3 months
3	Lecturer (Senior grade)	PSG College of Technology, Coimbatore - 4	20.09.2000	19.09.2005	5 years
4	Lecturer	Kumaraguru College of Technology, Coimbatore - 6	02.06.1999	19.09.2000	15 months
5	Lecturer	Coimbatore Institute of Technology, Coimbatore - 14	26.12.1996	30.04.1999	2½ years

6	Instructor	Seethai Ammal Polytechnic, Sivagangai – 623 560	20.12.1993	30.04.1994	5 months
---	------------	---	------------	------------	----------

B. Industry :

Sl. No.	Designation	Name and Address of the Institution	From	To	Total No. of years
1	Asst. Electrical Engineer	Haitima textiles Ltd., Coimbatore - 35	23.01.1996	9.11.1996	10 months
2	Graduate Apprentice Training	TNEB, Virudhunagar.	03.05.1994	02.05.1995	1 year

COURSES HANDLED

UNDERGRADUATE

1. **Computer Aided Power system Analysis**
2. **Induction and Synchronous machines**
3. **DC machines and Transformer**
4. **Electrical machine design**
5. **Electromagnetic fields**
6. **Electric circuits**
7. **Network Theory**
8. **Basics of electrical and electronics engineering**
9. **Advanced control systems**
10. **Generation, Transmission and Distribution**

POSTGRADUATE

1. **Modelling and Analysis of Electrical Machines**
2. **Linear Systems.**

PUBLICATIONS

INTERNATIONAL JOURNALS

1. R.Krishna Kumar, "**Genetic Algorithm based Tuning And Fuzzy based Gain Scheduling for Load Frequency Control of Two area interconnected Power systems**" International Journal of Engineering Sciences Research, Platinum Blue Publishing Corporation, Volume 02, Issue 03, July 2011, pp 273-280
2. R.Krishna Kumar, "**Performance comparison of LFC of two area interconnected power system for the performance indices ISE and ITAE with Optimum Integral controller gain designed using Genetic Algorithm**", International Journal of Applied Engineering Research and Development, Transstellar Journal Publications & Research Consultancy Pvt. Ltd, Volume 2, issue 1, March 2012, pp30-39, ISSN: 2250-1584

3. R.Krishna Kumar,S.Ian David " **Hydro Power Genertion from Domestic Water Suppy System and Development of Dynamic Flow Modelling**", International Journal of Electrical and Electronics Engineering Research (IJEER), Impact Facotr(JCC)-2012:3.7567, Transstellar Journal Publications & Research Consultancy Pvt. Ltd, Volume 2, issue 3, Sep 2012, pp94-105, ISSN: 2250-155X

NATIONAL JOURNALS

1. R.Krishna Kumar, Dr.S.Subha Rani, " Fuzzy based adaptive controller for load frequency control of interconnected power systems" in ANJAC Journal of Sciences, volume 6, Number 1, February 2007, pp.7-13
2. R.Krishna Kumar, Dr.S.Subha Rani, " Optimisation of load frequency controller parameters for two-area interconnected power system through Matrix Riccati equation" in ANJAC Journal of Sciences, volume 6, Number 2, August 2007, pp.37-42

INTERNATIONAL CONFERENCES

1. R.Krishna Kumar, Dr.S.Subha Rani, A.Soundarrajan ,"**Intelligent Controller for Automatic Generation Control**" in International Conference on ROVISP 2003 organised by Universiti Sains Malaysia and IEEE Malaysia during 22–24, January 2003.
2. R.Krishna Kumar, Dr.S.Subha Rani, A.Soundarrajan " **Effect of Non-linearities on the performance of Fuzzy based Automatic Generation Control**" in International conference on Soft computing Techniques in Engineering organized by Avinashilingam University for Women during 24-25, January 2007, pp.101-105
3. R.Krishna Kumar, S.Ian David, "**Pico Hydro Power Technology from domestic water supply system**" Proceedings of International Conference on Renewable Energy Technologies, iCORET 2011, PSG College of Technology, Coimbatore, 15-17 December 2011, PP 233-236
4. R.Krishna Kumar, S.Ian David, "**Micro Hydro Electricity from drinking water storage tanks**" Proceedings of International Conference on Renewable Energy Utilisation(ICREU 2012), Coimbatore Institute of Technology, Coimbatore, 4-6 January, 2012, PP 19-22.
5. R.Krishna Kumar, A.Aravind, Navneeth Mukku, C.Vijay Genaesh, " **Zone based Intelligent Speed Control System**" Proceedings of International Conference on Advancements in Automation, Robotics and Sensing(ICAARS 2016), PSG College of Technology, 23-24 June 2016

NATIONAL CONFERENCES

1. R.Krishna Kumar, Dr.S.SubhaRani, A.Soundarrajan "**Artificial Intelligence based Automatic Generation Control**" National Conference **PCIC 2003** conducted by **N.S.S.College of Engineering, Palakkad, Kerala, during 3-4, January 2003**
2. R.Krishna Kumar, Dr.S.Subha Rani, A.Soundarrajan "**Intelligent Controller for Automatic Generation Control including GRC**" in National Conference on **Modern Aspects of FACTS and its Applications** organised by Kumaraguru College of Technology, Coimbatore, during 29–30, August 2003.
3. R.Krishna Kumar, Dr.S.Subha Rani, N.Aarthi , " **Application of Artificial Neural Network to Automatic Generation Control**", in National Seminar on Emerging Trends in Power System

Operation and Control organized by Gayatri Vidya Parishad College of Engineering, Visakhapatnam, during 27-29, December 2003, pp 1 - 6

4. R.Krishna Kumar, Dr.S.Subha Rani, K.Prasada Rao , “**Adaptive Fuzzy Gain Scheduling for Load Frequency Control**”, in National Seminar on Emerging Trends in Power System Operation and Control organized by Gayatri Vidya Parishad College of Engineering, Visakhapatnam, during 27-29, December 2003, pp 15 - 21
5. R.Krishna Kumar, Dr.S.Subha Rani, M.Shyamala Gowri, “**Pole Assignment Technique for Load Frequency Control of Multi Area Interconnected Power Systems with Reheater turbine**” in National Conference on Modern Trends in Electrical and Electronic Systems organized by Government College of Engineering, Salem, during 22-23, March 2006. pp 48
6. R.Krishna Kumar, Dr.S.Subha Rani, R.Uma Sankar, “**Adaptive Controller for Load Frequency Control of Interconnected Power Systems**” , in National Conference on Recent Advancements in Operation and Control of Large Scale Power Systems organized by Annamalai University, Annamalai Nager, during 25-26, March 2006, pp 206 - 211
7. R.Krishna Kumar, Dr.S.Subha Rani, M.Shyamala Gowri, “**Optimization of Load Frequency Control Parameters for Two Area Interconnected Power System through Matrix Riccati Equation**” , in National Conference on Recent Advancements in Operation and Control of Large Scale Power Systems organized by Annamalai University, Annamalai Nager, during 25-26, March 2006, pp 218 – 223.
8. R.Krishna Kumar, Dr.S.Subha Rani, M.Shyamala Gowri, “**Optimization of Load Frequency Control Parameters in Two Area Interconnected Power System with Reheater turbine**” in National Conference on Optimization Techniques in Engineering Sciences & Technologies organized by Bannari Amman Institute of Technonogy, Sathyamangalam, during 11-12, April 2006, pp 122
9. R.Krishna Kumar, Dr.S.Subha Rani, R.Uma Sankar, “**Adaptive Technique for Two Area Interconnected Power Systems Load Frequency Control with PI & Optimal Controller**” in National Conference on Optimization Techniques in Engineering Sciences & Technologies organized by Bannari Amman Institute of Technonogy, Sathyamangalam, during 11-12, April 2006, pp 125

SEMINARS / CONFERENCES ORGANISED

Organised as Joint Secretary, **INTERNATIONAL CONFERENCE ON INTELLIGENT AND EFFICIENT ELECTRICAL SYSTEMS 2013 (ICIEES'13) DECEMBER 12- 14, 2013**

SEMINARS / CONFERENCES ATTENDED

S.No.	COURSE	SPONSORED /organized by	HELD AT	DURATION	No. of days
1	Instructional Enhancement Program (IEP) on Semiconductor Modeling and Semiconductor Modeling Laboratory	MIT – VLSI Project Scheme	IIT Kanpur	11.12.2000 to 22.12.2000	12 days
2	Staff Development Programme	Educational Technology Centre	PSG College of Technology, Coimbatore-4.	07.05.2001 to 26.05.2001	20 days

3	Advanced Power Systems	ISTE	SRM Engineering College, Kattankulathur	25.11.2002 to 30.11.2002	6 days
4	Recent Trends & Application of HV Insulation (RTAHVI)	AICTE-ISTE	Babuji Institute of Engineering & Technology, Davangere, Karnataka.	13.01.2003 to 24.01.2003	12 days
5	Seminar on APPLICATION OF FUZZY LOGIC	AICITE	Kongu Engineering College, Perundurai.	31.10.2003 to 02.11.2003	3 days
6	“Role of Solid State Controllers & Embedded Systems in Power Systems”	AICTE-ISTE	Kumaraguru College of Technology, Coimbatore-6	07.11.2004 to 20 .11.2004	14 days
7	AICTE-Staff development Programme on “Introduction and Applications of Neuro Fuzzy Genetic Systems	AICTE	PSG College of Technology, Coimbatore -4	17.12.2006 to 30.12.2006.	14 days
8	FDP on Software Development Life Cycle and Project Management – Best practices	TCS, Chennai	PSG College of Technology, Coimbatore -4	23.04.2007 to 24.04.2007.	2 days
9	National Seminar on Robotics and Intelligent Automation in Manufacturing and Services	PSG Institute of Advanced Studies, Coimbatore	PSG College of Technology, Coimbatore	05.08.2009 to 06.08.2009	2 days
10	“ MISSION 10X” workshop	Wipro Technologies, Chennai	PSG College of Technology, Coimbatore	01.03.2010 to 05.03.2010	5 days
11	SDP on “Smart Operation and Control of Electrical Machines and Power Systems”	AICTE	Pondicherry Engineering College, Puducherry.	02.06.2010 to 12.06.2010	12 days
12	Introductory course and workshop on “PSCAD power system simulator”	Nayak Power systems	Crescent Engineering College, Chennai-	09-08.2010 – 10-08.2010	2 days
13	International Conference on “ Road Map for Smart Grid ”	CPRI, Bangalore	IISc, Bangalore	03.08.2011-04.08.2011	2 days
14	One-day Pre-Conference Tutorial on Smart Grid Systems	Coimbatore Institute of Technology, Coimbatore		26.08.2011	1 day
15	National Workshop on Mathematics for Electrical and Mechanical Sciences(MEMS-2012)	PSG College of Technology, Coimbatore-4.		02.03.2012-03.03.2012	2 days

16	Item Writer in Question bank workshop	Staff Selection Commission	14.06.2012 – 15.06.2012	2 days
17	Engineering Solutions Through Matlab	PSG College Technology, Coimbatore – 641 004 (TEQIP sponsored)	11.10.2012- 17.10.2012	7 days
18	Research Methodology and Optimization techniques	Alagappa Chettiar College of Engineering and Technology, Karaikudi -630 004. (TEQIP sponsored)	17.12.2012 – 23-12.2012	7 days
19	Restructured Power Markets and Facts Devices	Government College of Technology, Coimbatore – 641 013 (TEQIP sponsored)	28.02.2013 – 06.03.2013	7 days
20	Smart Grid Challenges & Opportunites	Government College of Technology, Coimbatore – 641 013 (AICTE sponsored)	29.05.2013 – 11.06.2013	14 days
21	Analysis of Electrical and Electronic Systems using MATLAB and PSpice	PSG College of Technology, Coimbatore – 641 994 (TEQIP sponsored)	20.06.2013- 26.06.2013	7 days
22	SMART GRIDS	Coimbatore Institute of Technology, Coimbatore (TEQIP sponsored)	21.10.2013 – 27.10.2013	7 days
23	Well-Being in Work place	PSG College of Technology, Coimbatore – 641 994 (TEQIP II sponsored)	14.03.2014	1 day
24	Integration, Control & Metering of Renewable Energy sources for Smart Grid Systems: A Research Perspective Approach	PSG College of Technology, Coimbatore – 641 994 (TEQIP II sponsored)	20-26 june 2016	7 days

Special Lectures Delivered :

Sl.No	Date & Duration	Organised by	To Whom (Organisation)	Title	Type of Programme
1	04.04.2006 (1.15 h)	Dept. of EEE, PSGCT	Indian Air force	3-Phase principle, construction & Mechanical Characteristics	IM & Refresher course on Basics of Electrical & Electronics Engg.
2	28.10.2006 (1.30 h)	Dept. of Energy, PSGCT	Participant from Electricity Board.	Load Management through power flow studies & power generation economics	A National workshop on Power System Management and Economics

3	01.08.2009 (4.30 h)	Dept. of EEE, PSGCT	LTC Engineers, Coimbatore	PMDC course- Refresher course	Design Principles of PMDC Motor
4	02.06.2012	Dept. of EEE, KSR College of Engineering, Tiruchengode – 637 215	Faculty and students	Electrostatics	FDP on Electromagnetic Theory.
5.	14.10.2015	Dept. of EEE, PSGCT	Faculty and students	Power System Transients	Workshop on Smart Grid

MEMBERSHIP OF PROFESSIONAL BODIES

1. Life member in ISTE [LM26623]
2. Life member in SSI [LM22028]