

CURRICULUM VITAE

Name & Address : **Dr. KALYAN CHATTERJEE**
Senior Lecturer
Dept. of Electrical Engineering
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Date of Birth : 18.09.74

Academic Qualifications:

<i>Examination</i>	<i>Board / university</i>	<i>Year</i>	<i>% Of Marks</i>
MADHYAMIK	W.B.B.S.E	1991	73
H.S	W.B.C.H.S.E	1993	72.7
B.E	North Bengal, Jalpaiguri Govt Engg college	1997	71
M.E.E	Jadavpur University	1999	75
Ph.D	Birla Institute of Technology (Deemed University)	October 2005	

Specialisation In M.E.E : Electrical Power System

Project (Final Year M.E) : Development of a user Interface for Power System Education Software

Ph.D Thesis Title : “Development of dual mode and Soft Computing Based control techniques for load Frequency Controller of Interconnected Thermal Power Systems”

Language Known : English, Hindi, and Bengali

Exposure to Computer:

Languages Known	C++, C, FORTRAN
Technical Software Known	#Matlab(Simulink, Neural, FuzzyLogic ,Control System Toolbox) #ETAP #PSCAD

Working Experience

<i>Post</i>	<i>Institution</i>	<i>Period</i>
Lecturer	BIT (Mesra), Ranchi	19 th July 1999 to 16 th August 2005
Senior Lecturer	ISM, Dhanbad	17 th August 2005 to till now

Teaching Experience : 6 years (Undergraduate & Postgraduate course since July 1999)

No of Post-graduate Students guided : 7

Sl.No.	Name of Student	Course	Title of Thesis/Proejcts
1	Ms. Merry Sinha	M.E(Power System)	Artificial Neural Network Based Voltage Estimation of Transmission Networks
2	Ch. A. N. Prasad	M.E(Power System)	Self tuned Neural network and Fuzzy logic controller for AGC
3.	S.P.P. Rao	M.E(Power System)	Hybrid Fuzzy Neural Network Controller For Automatic Generation control.
4	V.S.N.V. Raj Kumar Grandhi	M.E(Control System)	Development of Hot-Dip Galvanization based Predictive Neural Network Model and Control using Adaptive Neuro Fuzzy Interface System(ANFIS)
5	Suman Kumar Ghosh	M.E(Control System)	Intelligent Controller for Load Frequency Control
6	Sagar Samaddar	M.E(Power System)	Microprocessor Based Speed Control of Series D.C. Motor
7	Srinivasa Rao Coppiseti	M.E(Power System)	Design of Integral Controller for Automatic Generation Control in Deregulated Environment

No of Post-graduate Thesis Ongoing : 1

No of under-graduate Students guided : 16

Research Area : Neural Network, Fuzzy Logic applications in Power System

Membership of Scientific and Professional Societies:

IE (India), Member ISTE (India), System Society of India

Publications:

International Journals:

1. K Chatterjee ,Raj Kumar Grandhi, Dr B M Karan, “Automation in Galvanizing lines using intelligent controllers”, STEEL TIMES INTERNATIONAL, Published May 2005, Vol.4,.PP-36-41.
2. K.Chatterjee, T.Ghosh and B.M.Karan, “PI like Fuzzy Logic Control Strategy to Load Frequency Control of Interconnected Reheat Thermal System ”, Accepted to the International Journal of Power and Energy Systems, Canada.

International Conference:

1. K.Chatterjee, T.Ghosh, B.M.Karan “*Software For Load Flow Simulation In a Power System Using Object Oriented Programming*”, Presented in the international conference of CERA-01, held at Roorkee, Feb21-23,2002.
2. K. Chatterjee, T. Ghosh, B.M. Karan, “*Neural Network Based Self-Tuning of Integral Controller for Automatic Generation Control*”, Published in the SCI 2003 Proceedings International Conference on Informatics and Systematics Florida, USA, June 2003.
3. K.Chatterjee, T.Ghosh and B.M.Karan, “*Fuzzy Logic Based Controller for Automatic Generation Control considering Generation Rate Constraints*”, published in the International conference on Power System –Challenges to Electric Utilities in the New Millennium, held at Kathmandu, Nepal during Nov. 3-5th ,2004.
3. K.Chatterjee, T.Ghosh and C.Srinivasea Rao , “*Design of Integral Controller for Automatic Generation Control in Deregulated Environment*””, Published in the International conference PEITSICON 2005,IEE (uk), calcutta branch, during Jan. 28th -30th,2005.

National Conference:

1. K.Chatterjee, B.M.Karan “*Optimal Energy Saving by Capacitance-Inductance Switching In Power System*”, Presented in the conference of Energy Technologies for Sustainable Developments held at BIT, Mesra on Dec17-18, 1999.
2. K.Chatterjee, T.Ghosh, B.M.Karan, S. Paul “*Development Of a User Interface For Power System Education Software*”, Presented in the conference of SASESC-2000, held at Deyalbagh, Agra on March 4-5,2000.

3. K.Chatterjee, T.Ghosh, B.M.Karan, S. Paul ‘*Matlab In Power System Education Software*’, Presented in the Matlab India Millennium conference, held at Bangalore on Nov 15-17,2000.
4. K.Chatterjee, T.Ghosh, B.M.Karan ‘*Optimisation Of Gain Of The Integral Controller For Automatic Generation Control*’, Presented in the national conference of Power 2002, held at Jharkhand IE(I), March,2002.
5. K.Chatterjee, T.Ghosh, Ch. Aditya N Prasad S Phani Prabhakar Rao ‘*Hybrid – Fuzzy Neural Network Approach For AGC*’, Presented in the national conference of Power-2002, held at B.I.T, Nov.1-2,2002.
6. K.Chatterjee, T.Ghosh, B.M.Karan ‘*A Comparative Analysis Between Developed Integral Controller and Fuzzy Logic Based Controller For Automatic Generation Control*’, Presented in the 12th national Power System conference of NPSC-2002, held at I.I.T, Kharagpur Dec.27-29th,2002.
7. K. Chatterjee, T. Ghosh, B.M. Karan ‘*Design of Dual Mode Switching for Automatic Generation Control*’, Published in the Proceedings of the 27th National Power System Conference of NSC-2003, held at I.I.T, Kharagpur, Dec.17-19th, 2003, pp. 358-362.
8. K.Chatterjee, T.Ghosh, B.M.Karan, ‘Design of Dual Mode and fuzzy logic controller for load Frequency control’, published in the 13th National Power System Conference of NPSC-2004, held at I.I.T., Madras during Dec. 20-22th, 2004.
9. K. Chatterjee, S.K.Ghosh, B.M. Karan ‘*Intelligent Controller for AGC*’, Published in the 28th National System Conference -2004, held at V.I.T, Dec.16-18th, 2004, pp. 26-31.

Courses attended and conducted

- (1) Attended a short term course on ‘Neural Networks, Fuzzy-Logic, Genetic Algorithm & Parallel Processing’ at Department of EEE, B.I.T, Mesra, Ranchi from 10th to 15th Dec. 1999.
- (2) Attended one-day tutorial on ‘Numerical Protection’ Organized by IEEE Calcutta Section and its Power Engineering chapter on November 19,2001.
- (3) Conducted laboratory course of AICTE sponsored short term training programme on ‘Intelligent Control Applications’ held at Dept. of Electrical and Electronic Engineering on 16th to 28th December,2002.

- (4) Delivered lectures and attended course of AICTE sponsored short term training programme on “Application Of Soft Computing Techniques In Power System” held at Dept. of Electrical and Electronic Engineering on 13th to 25th January,2003.
- (5) Delivered lectures and Conducted laboratory course of short term training programme on “Matlab” held at RDCIS ,SAIL,Doranda,on 14th to 26th June,2004.
- (6) Delivered lectures and Conducted laboratory course of short term training programme on “Soft Computing Applications ” held at Department of Computer Science B.I.T, Mesra on 18th to 30th June,2004.

Short Term Course Organised as a coordinator

Sl. No.	Title of Course	Funding Agency & Funds received	Duration	Coordinators
1	MATLAB BASED ELECTRICAL SYSTEM MODELLING AND REAL TIME CONTROL.	AICTE & ISTE.	6 th Dec-18 th Dec., 2004	Mr. Kalyan Chatterjee & Dr T.Ghose
2.	“MATLAB In Engineering Application”.	RDCIS ,SAIL, Doranda	14 th to 26 th June,2004	Mr. Kalyan Chatterjee & Dr. B.M.Karan

Handling of projects (as Principal Investigator/Coordinator):

Principal investigator for the following AICTE sponsored project.

Sl. No.	Title of Project	Funding Agency & Funds received	Date of sanction	Status
1	Analysis Of Intelligent controller For Automatic Generation Control.	AICTE under research & Development project scheme.	10.03.2003	Completed, October,2005