

DR. DILIP DEY

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EDUCATION

Doctor of Philosophy (2011)

Department of Applied Physics, *University of Calcutta*, Kolkata

Research Guide: **Prof. S. Sengupta (CU) & Prof. P. B. Duttagupta (IIT-Kgp)**

Master of Technology (1993)

Department of Applied Physics, *University of Calcutta*, Kolkata

Bachelor of Technology (1991)

Department of Applied Physics,

University of Calcutta, Kolkata

Bachelor of Science, [Hons. in Physics] (1988)

Panskura Banamali College, *Vidyasagar University*

TEACHING EXPERIENCE [18 years (approx.)]

Professor

Department of Electrical Engineering (16th Aug'16 – till date)

Haldia Institute of Technology,

Professor

Department of Instrumentation and Control Engineering (1st June'15 – 15th Aug'16)

Haldia Institute of Technology,

Associate Professor

Department of Instrumentation and Control Engineering (1st Jan.'13 – 31st May'15)

Haldia Institute of Technology,

Assistant Professor

Department of Instrumentation and Control Engineering (5th Sept .'08 –31st Dec.'12)

Haldia Institute of Technology,

Department of Instrumentation Engineering (22nd July' 05 – 4th Sept'08)

Haldia Institute of Technology,

Department of Applied Electronics and Instrumentation Engineering (18th April'04- 21st July'05)

Bankura Unnayani Institute of Engineering

Lecturer

Bankura Unnayani Institute of Engineering

Department of Applied Electronics and Instrumentation Engineering (23rd Aug. '00- 17th April' 04)

Subject Taught : Electric Field Theory, Electrical Measurement, Circuit Theory, Electrical Machine, Basic Electrical Engineering, Process Control , Sensors and Transducer, Logic and Distributed control system, Advance Process Control , Power Plant Instrumentation, Remote Control and Telemetry,

Laboratory Taken: Process control, Electrical Measurement, Sensors and Transducer, Remote Control and Telemetry.

INDUSTRIAL EXPERIENCE [8 Years]

Sr. Design Engineer (21st April'97- 22nd Aug.'00)

Development Consultant Ltd.

24 B Park Street, Kolkata, **India**

The Kuljian Corporation

100 Market Street, Philadelphia, **USA**

Design Engineer (21st June'93- 20th April'97)

Development Consultant Ltd.

24 B Park Street, Kolkata, **India**

Type of Job: Preparation of – C& I specification of the projects [Power Plant, Chemical Plant, Fertilizer Plant] , Layout Diagram, Installation diagram, Logic Diagram, Loop Diagram, Hook-up diagram with PLC, DCS etc.

ADMINISTRATIVE JOB

- **Haldia Institute of Technology**
 - **Head of the Department** of Electrical Engineering.(Aug. 2016 to till date)
 - **Head of the Department** of Instrumentation and Control Engineering.(Aug. 2008 to July 2016)
 - **Convener** of Disciplinary Committee (Student) [Jan. 2010 to till date]
 - **Officer-in-Charge** in University Examination [7 times]
 - **Hostel Superintendent** [2011-12]
 - **Member** of different Committee as HOD [like Academic council, Hostel committee etc.]

 - **Bankura Unnayani Institute of Engineering**
 - **Head of the Department** of Applied Electronics and Instrumentation Engineering.(Aug. 2000 to June 2005)
 - **Teacher-in - Charge** in absence of Principal
 - **Officer-in-Charge** in University Examination [8 times]
 - **Convener** of Syllabus Committee(EIE) under Burdwan University
 - **Member** of different committee as HOD [like Academic council, Hostel committee etc.]
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INDUSTRIAL PROJECT

Condition Monitoring of The Motor Bearing [as Jt. PI] [June'2008 – Jan'2009] ,
Funding Authority : **Haldia Doc-Complex, Haldia**

PARTICIPATION IN SEMINAR, WORKSHOP & TRAINING

- Training Program on **ISO 9001:2000 Internal Audit** by *Genius Consultants Ltd.* [2004]
- Training Program on **Programmable Logic Controller (PLC)** by *Prolific Systems and Technologies Pvt. Ltd.* [6th Feb'09 to 8th Feb'09]
- **38th ISTE Convention and Seminar** [KIIT University, 19th Dec'08 – 21st Dec'08]
- Training Program on **Programmable Logic Controller (PLC)** by *Applied Electronics and Instrumentation Engg.* [16th Dec'12 to 21st Dec' 12]
- Workshop on **Repairing & Maintenance of Measuring Instrument** by *Applied Electronics and Instrumentation Engg.* [17th Dec'13 to 22nd Dec' 13]
- Faculty Development Programme on **Contemporary Engineering Practices** [5th Jan'15 to 11th Jan'15]
- Faculty Development Programme on **Bridge gap between academia & industry** [5th Feb'15 to 11th Feb'15]
- National Workshop on **Quality Initiatives in Technical & Higher Educational Institutions** (In compliance with **NBA & NAAC Accreditation**) [26 – 28 May 2015, Hyderabad]
- National Workshop on **How to Get A Grade in NAAC**(In compliance with **NBA & NAAC Accreditation**) [19'Nov 2015, Kolkata]

COORDINATOR OF SEMINAR, WORKSHOP & TRAINING

- National Workshop on **Industrial Automation and Control** held at Haldia Institute of Technology in association with ISA Kolkata Section, ISA HIT Students Chapter [25th Jan'16 – 29th Jan'16]

INVITE LECTURE

Lecture of *Industrial Automation* Training of the Officers of Marketing Division of IOCL , Haldia [2008]

Lecture on *Measuring Instrument* for Junior Engineers [2007 & 2008] from some industries.

PUBLICATION

Journal publication:

[1] **Dilip Dey**, P. B. Dutttagupta, S. Sengupta “Mechanical Fault Analysis of Induction Motor by SVM,” *International Journal HIT Transaction on ECCN vol.3 no.9 pp1-7 March 2009.*

[2] **Dilip Dey**, P. B. Dutttagupta, S. Sengupta “Induction Motor Faults Diagnosis Using Fractal Techniques” Volume 1 Issue 1 2009, *International Journal of Electronic and Electrical Engineering.*

[3]. **Dilip Dey**, P. B. Dutttagupta, S. Sengupta “Mechanical Fault Diagnostics For Electromechanical Devices Using ANFIS” *International Journal of Applied Engineering Research (IJAER)* Volume 4, Number 8 , pp. 1489—1498 August 2009.

[4]. **Dilip Dey**, P. B. Dutttagupta, S. Sengupta “Online condition monitoring of Induction Motor through WPD Technique,” *International Journal of Applied Engineering Research (IJAER)* Volume 5, Number 3 , pp. 449—464 March 2010.

[5]. **Dilip Dey**, P. B. Dutttagupta, S. Sengupta “Hybrid AI technique Based Fault Diagnosis of Induction Motor,” *International Journal of Electronic and Electrical Engineering (IJEED)Vol2. Issue3 pp.84-89,2009*

[6]. **Dilip Dey**, P. B. Dutttagupta, S. Sengupta “Induction motor fault diagnosis using adaptive network based fuzzy inference system” *International Journal HIT Transaction on ECCN vol.3 no.9 pp8 -13 March 2009.*

[7]. **Dilip Dey**, P. B. Dutttagupta, S. Sengupta “An Accurate Approach For Induction Motor Fault Diagnosis Using Fuzzy Logic.” *NED University Journal of Research.*

Conference publication:

[1] **Dilip Dey**, S. Sengupta, “Condition Monitoring Of Insulation Of A Transformer By Determining Permittivity Distribution Through Electrical Capacitance Tomography (ECT),” *VIGAN CONGRESS* pp. 43 ,2004

[2] **Dilip Dey**, S. Sengupta, “An ECT Based Insulation Condition Monitoring Of A Power Transformer” *NPSC' 04*, pp. 135-139,2004

[3] **Dilip Dey**, S. Sengupta, “On-line Condition Monitoring Of Insulation Of A Transformer By Determining Permittivity Distribution within its Tank Through Electrical Capacitance Tomography (ECT)” *INCON-CCC-2004* pp.143-147, 2004

[4] **Dilip Dey**, S. Sengupta, “An ECT Based on line condition monitoring of a Transformer” *PEITSICON-05* pp. 323-325 , 2005

[5] **Dilip Dey**, S. Sengupta, “Measurement Of Permittivity of a closed vessel by ECT” *VIGAN CONGRESS* pp. 59,2005

[7] **Dilip Dey**, S. Sengupta, “On Line Condition Monitoring Of Transformer Using Multichannel capacitance Tomograph for Dynamic Image Processing”, *RAPSPE-06* pp.101 – 104,2004

[8] **Dilip Dey**, P. B. Dutttagupta, S. Sengupta, “An Investigation into Fault Diagnosis of Induction Motor by Wavelet Packet Decomposition Technique”, *NPSC' 06*, pp. 24 Dec.'06, 2006.

[9] **Dilip Dey**, P. B. Dutttagupta, S. Sengupta. “Support Vector Machine Based Vibration Analysis of Induction Motor”, *ET & TE, 2007*, pp. 108 – 111 .

- [10] **Dilip Dey**, P. B. Duttagupta, S. Sengupta. “ Multi-Class Fault Identification of Induction Motor by Using Support Vector Machine” *MS07* , pp.393 -399, 2007.
- [11] **Dilip Dey**, P. B. Duttagupta, S. Sengupta. “ Fault identification of An Induction Motor by Fractal Analysis Technique” *MS07* , pp.389 -392,2007.
- [12] **Dilip Dey**, P. B. Duttagupta, S. Sengupta, “Vibration Signal Analysis of Induction Motor Mechanical Fault by Wavelet Packet Decomposition,” *ET & TE* 2008 Pp117-126
- [13] **Dilip Dey**, P. B. Duttagupta, S. Sengupta, “Condition Monitoring of Electromechanical System Based on WPD Technique,”*AECT09* pp154-159, 2009.
- [14] **Dilip Dey**, P. B. Duttagupta, S. Sengupta,, “ Nuro-Fuzzy Based Fault Diagnosis Applied to An Induction Motor,” *NCMTEE-2009* page.NF07-Nf12,2009.
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