

# RUMPA SAHA

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Electrical Engineering Department  
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## **Academic Qualification:-**

<b>Examination / Degree</b>	<b>Board / University</b>	<b>Year of Passing</b>	<b>Percentage of Marks</b>
Ph.D	University of Calcutta	Submitted (2018)	NA
M.Tech	University of Calcutta	2008	81.81%
B.Tech	West Bengal University of Technology	2005	DGPA-7.9
HS	West Bengal Council for Higher Secondary Education	2001	67.2%
Secondary	West Bengal Board of Secondary Education	1999	78.25%

## **EXPERIENCE**

Assistant Professor, Aliah University [Govt. of West Bengal] (Since 2016)

Assistant Professor, Veer Surendra Sai University of Technology [Govt. of Odisha] (2014-2016)

Assistant Professor, NIT - Sikkim (2014-2014) Assistant Professor, Narula Institute of Technology, (2008-2014)

## **MEMBERSHIPS IN PROFESSIONAL BODIES**

Chartered Engineer (IEI).

Member of “The Institution of Engineers, India” (MIE).

## ADMINISTRATIVE RESPONSIBILITIES/EXPERIENCE

1. Acting as Head (officiating) since August 2018.
2. Acted as Board Observer for West Bengal Joint Entrance Examinations Board in WBJEE 2017.
3. Member of Board of Studies of Electrical Engineering Department, Aliah University.
4. Acted as Member of Purchase Committee of Electrical Engineering Department, Aliah University.
5. Acted as cultural committee member at Narula Institute of Technology, 2009-2014.

## CONTRIBUTION TO TEACHING AND OTHER ACTIVITIES

1.	No. of years taught	10 years
2.	Name of subjects taught (UG/PG)	(i) UG-Basic Electrical Engineering, Electrical Machines, Linear and Nonlinear Control system, Power Electronics  (ii) PG- Advanced topics of Electrical Machines, Non-linear Control System, Power Quality
3.	Other academic activities  (i) Course development  (ii) Laboratory development	(i) Course of Electrical Machines have been developed for UG autonomous batch academic session 2014-2015  (ii) A partial development has been done in electrical machine lab1 and 2

## PUBLICATIONS

Conference Paper Publication – 10

Journal Publications – 02

## LIST OF PUBLICATIONS

### International Journals-

1. **R. Saha**, Jitendra Nath Bera, Gautam Sarkar, “An alternate approach for power quality computation using sample shifting technique towards load characterization”, *Measurement*, Elsevier Science Publications, Vol. 129, 2018, pp. 642-652, ISSN 0263-2241, <https://doi.org/10.1016/j.measurement.2018.07.037>.
2. **R. Saha**, J. N. Bera, G. Sarkar, S. Chowdhuri and A. Deb, “A simplified state-of-the-art sample shifting technique for microcontroller based single phase power measurement” *Measurement*, Elsevier Science Publications, vol-58, pp. 459-467, Aug. 2014.

## International Conferences-

3. **R. Saha**, J. Bera and G. Sarkar, "Identification of running household appliances by a state-of-the-art energy meter for a change in consumption pattern," Proc. of the *Third International Conference on Computer, Communication, Control and Information Technology (C3IT)*, Hooghly, 2015, pp. 1-6. Doi:10.1109/C3IT.2015.7060219.
4. A. Rath, **R. Saha**, "Harmonic Component Measurement in Polluted Environment towards Power Quality Analysis", Proc. Of *International Conference on Electrical, Electronics, Signals, Communication and Optimization (EESCO)*, pp.1236-1241, Visakhapatnam, Jan. 2015.
5. **R. Saha**, J. N. Bera and G. Sarkar, "Remote monitoring for power quality analysis of distribution system," Proc. of the *International Conference on Control, Instrumentation, Energy and Communication (CIEC)*, Calcutta, 2014, pp. 402-406.doi: 10.1109/CIEC.2014.6959119.
6. **R. Saha**, G. Sarkar, J. Bera, S. Chowdhuri and A. Deb, "Sample shifting technique (SST) for estimation of harmonic power in polluted environment," Proc. of the *International Conference on Circuits, Power and Computing Technologies (ICCPCT)*, Nagercoil, 2013, pp. 535-539. doi: 10.1109/ICCPCT.2013.6528921. (Received Best Paper of the Conference Award).
7. **R. Saha**, J. N. Bera and G. Sarkar, "Problem Associated with Active and Reactive Power Measurement using a Novel Technique and Its Remedy" Proc. of the *International Conference on Communication and industrial Application (ICCIA-2011)*, Kolkata, December 2011, Page-1-4.
8. **R. Saha**, J. N. Bera and G. Sarkar, "A PLL and Sample Shifting Technique based Reactive Power Measurement System" Proc. of the *National Conference on Electrical, Electronics and Computer Engineer (CALCON11)* , Jadavpur University, Kolkata, November, 2011, pp. 118-122.

## National Conferences-

9. **R. Saha**, J. N. Bera and G. Sarkar, "Simultaneous Real and Reactive Power Measurement in Three Phase System Using Voltage and Current Samples Only" *Proc. of the First Michael Faraday IET India Summit-2012 (MFIETIS 2012)*, Kolkata, November 2012, pp. 192-195.
10. J. N. Bera, **R. Saha**, N. Bhowmik (Pal), "Active and Reactive Power Measurement Using Microcontroller Based System" *Proc. of the National Conference on Instrumentation & Control' NATCONIC 2011* at Kolkata , January 2011, pp.-11-13.
11. **R. Saha**, J. N. Bera, "Electrical Parameter Monitoring of Machines using Micro-controller and P.C based System", *Proc. of the National Conference on Modern trends in Electrical Engineering*, Hooghly, July 2009, pp. 11-13.
12. **R. Saha**, A. Chakraborti, "Linear Motors: A Case Study to Determine the Electromagnetic Forces for a Given Speed and Movement of an Object" Proc. of the *Indian Conference on Trends in Modern Engineering System*, Kalyani, February 2008, pp. 170-178.

## LIST OF TRAINING AND WORKSHOP CONDUCTED

Sl No	Title of the Conference/ Seminar/ Workshops organized	Month/ Year	Venue	Sponsoring Authority
1.	National Conference on Energy Engineering, Analysis, Audit and Management	July/ 2013	EE Department, Narula Institute of Technology, Agarpara, Kolkata-109.	AICTE
2.	Two week FDP on Microcontroller Applications in Electrical Power System	June/ 2013	EE Dept. Narula Institute of Technology, Agarpara, Kolkata-109.	AICTE

## AWARDS / HONOURS RECEIVED

	No. of Awards/ Honours	Year	Detail
International	1	2013	Best Paper of the conference award of the IEEE International Conference on Circuit, Power and Computing Technologies, ICCPCT-2013 organized by Noorul Islam Centre for Higher Education, Noorul Islam University Kumaracoil, K.K Dist, Tamilnadu, India, Pin -629180, 22 <sup>nd</sup> and 23 <sup>rd</sup> March 2013.  Paper Title: “Sample Shifting Technique (SST) for Estimation of Harmonic Power in Polluted Environment”
Any other	1	2009	Consolation prize for acting as a supervisor in student project program organised by West Bengal University of Technology and Department of Science and Technology Government of West Bengal, 12 <sup>th</sup> January 2009.  Project Title: “Launching of a projectile using electromagnetic force of a linear motor”

## WORKSHOPS AND TRAINING ATTENDED

- (i) Attended two days Workshop on “Scientific document Writing using Latex” jointly organized by Computer Society of India, Kolkata Chapter and Aliah University, Kolkata at Aliah University, Kolkata, India during February 11-12, 2017.
- (ii) Attended two days National Seminar on “Power System Operation Control and Planning” under TEQIP phase 2 at NIT, Agarpara, on 14<sup>th</sup> -15<sup>th</sup> Sept. 2012.

- (iii) Attended six days Short term course on “8051 Microcontroller and Embedded Systems” at IIT Kharagpur, on June 2012.
- (iv) Attended five days Short Term Training Program on “Laboratory Practice on PLC ” at National Institute of Technical Teachers’ Training and Research, Kolkata, on March 2012.
- (v) Participated in the seminar on “Electrical Energy-Future and Planning” organized by Narula Institute of Technology on 11 February, 2012.
- (vi) Attended Mission10X Advance Workshop on 23<sup>rd</sup> & 24<sup>th</sup> March 2011 at Narula Institute of Technology, Kolkata
- (vii) Attended Mission10X six days’ Workshop on Teachers Training Program from Jan 2011 at Narula Institute of Technology, Kolkata.
- (viii) Attended National workshop on “Wevlet Transform in Electrical Engineering” at Applied Physics Department, University of Calcutta on 27<sup>th</sup> and 28<sup>th</sup> September 2010.
- (ix) Attended two days GIS training program on “Introduction to ArcGIS 1” at ESRI-India, Kolkata section on 15<sup>th</sup> and 16<sup>th</sup> March 2010.
- (x) Attended five days Short Term Training Program on “MATLAB and It’s Application” at National Institute of Technical Teachers’ Training and Research, Kolkata, on Jan 2010.
- (xi) Awarded Consolation Prize as a supervisor for Student Project Program jointly organized by West Bengal University of Technology and Department of Science and Technology Government of West Bengal, held on Jan 2009. Project Title:- Launching of Projectile using electromagnetic force of a ‘Linear Motor’.
- (xii) Attended five days Short Term Training Program on Analysis of Control Systems at National Institute of Technical Teachers’ Training and Research, Kolkata, on Jan 2009.
- (xiii) Attended Six days AICTE-ISTE Sponsored Short Term Training Programme on “Non-Linear Dynamics and Chaos in Engineering System” organized at Techno India on July 2008.
- (xiv) Attended one day preconference workshop on Real Time Digital Simulation of Power Systems held at Applied Physics Department, University College of Science & Technology, University of Calcutta on Dec 2007.
- (xv) Participated in the two days faculty development programme on Advances in Power System and Power Electronics conducted by Narula Institute of Technology in collaboration with IEEE Calcutta Section held at Narula Institute of Technology on July 2007.
- (xvi) Participated one day workshop on Technology and Quality Improvement at NSIC Technical Services Centre on February 2002.