**Resume of Dr. Prasenjit Basak**

1. **Name and Designation:** Dr. Prasenjit Basak

Assistant Professor, Electrical and Instrumentation Engineering Deptt.

1. **Personal Details:**
* Date of Birth: 22nd November, 1969
* Residential Address: H. No. C-205, TCIRD, Thapar University

Campus, Patiala- 147004, Punjab. India.

* Contact details: Phone 01752393076 (o), Mobile no. +919592971542 email prasenjit@thapar.edu, prasenjitbasak1@yahoo.co.in

**3. Academic Qualification:** Ph.D. (Engineering), Jadavpur University, Kolkata, India.

**5. Professional Experience:** R&D/ Industry: 03 Years 01 Month and

 Teaching: 09 Years 04 Months. (As on May 2014)

**6. Specialization:** Power System

**7. Membership of Societies:** Life Member, Indian Society for Technical Education (ISTE).

**8. Academic Details:**

**Courses taught:**

**UG level –** Transmission and Distribution of Power, Power Generation and Associated Economics, Power System-I, Power System-I, Power System-II, Power System Lab, Electrical Machines- I, Electrical Machines II, Electrical Machine Lab, Electrical Machine Design, Basic Electrical Engineering, Circuit and Network, UG Project Work etc.

**PG level-** Power system Planning and Reliability, Power System Dynamics and Stability and HVAC and HVDC Transmission System etc.

**Books / book chapters:** Nil.

**AICTE / CEEP Notes Title, Publisher, year:** Nil.

**9. Research details**

Research Area: Integration of Distributed Energy Resources, Renewable Energy, Operation, Control, Power Quality, Protection and Stability of Microgrid Power System etc.

Foreign Visits: Nil.

Reviewer/Member of Prestigious Committee:

1. Reviewed journal paper submitted to IEEE Transaction on Smart Grid in March 2014.
2. Acted as Reviewer (Examiner) for Masters Dissertation of Post Graduate Student of University of Cape Town, South Africa in April 2014.

**Conferences/Seminars/Workshops/Tutorial :-**

1. Organized National conferences on Integrated Computational Techniques in Electrical Engineering (ICTEE’14) as Convener on 18-19 January 2014, at Thapar University, Patiala, India.
2. Organized One Day Workshop on Power System Restoration, Operation and Control on 20/06/2009 at Electrical Engineering Department, Calcutta Institute of Engineering and Management, Kolkata for Young faculty members and final year EE students of UG.

Honors, awards, achievements and fellowships: Achieved Ph.D. (Engineering) degree from Jadavpur University, Kolkata, India in the year 2012.

Consultancy: Industry Name, Year, Amount (Rs Lac): Nil.

Sponsored Research Projects: Nil.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S.No. | Project Title | Duration | Amount (Rs) | Funding Agency  | Status  |
|  |  |  |  |  |  |

Infrastructure Project(MODROB etc): Nil.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| S.No. | Funding Agency | Scheme | Duration | Amount (Rs. Lac) | Status |  Remarks |
|  |  |  |  |  |  |  |

**10. Doctorate thesis mentoring**

* Completed : Nil.
* Ongoing: One (01).: Student Name: Mr. Jitender Kaushal, Enrolled in 2014 at EIED in Thapar University.

**11.ME/MTech/MS Dissertation Guided**

2014 ….. Ongoing 04. Will be submitted this year.

**12. Publications:**

**Publication in SCI Journal:**

1. “A Literature Review on Integration of Distributed Energy Resources in the Perspective of Control, Protection and Stability of Microgrid,” Prasenjit Basak, S. Chowdhury, S. Halder nee Dey and S.P. Chowdhury, Renewable and Sustainable Energy Reviews; vol. 16, issue 8, pp. 5545-5556, October 2012, Impact Factor: 2012: 5.627; 5 Year Impact Factor: 2012: 6.577; © Thomson Reuters Journal Citation Reports 2013; Elsevier. ISSN: 1364-0321.

**Publication in International Conference:**

1. “Simscape based Modeling and Simulation of a PV Generator in Microgrid Scenario”, Prasenjit Basak, S. Chowdhury and S.P. Chowdhury, 22nd International Conference on Electricity Distribution (CIRED), 10-13 June, 2013, Stockholm, Sweden.
2. “Automated Demand Side Management (ADSM) Strategy of Microgrid”, Prasenjit Basak, S. Chowdhury, S.P. Chowdhury & S. Halder nee Dey, International IEEE (PES) Conference- POWERCON 2012, 30th October to 2nd November 2012, Auckland, New Zealand.
3. “Simulation of Microgrid in the Perspective of Integration of Distributed Energy Resources”, Prasenjit Basak, S. Chowdhury, S.P. Chowdhury & S. Halder nee Dey, International IEEE Conference on Energy, Automation and Signal, ICEAS-2011, 28-30 December 2011, Siksha O Anusandhan University, Bhubaneswar, Orissa, India; ISBN: 978-1-4673-0136-7.
4. “Transfer Function Based Integration of DERS and Dynamic Stability Analysis of Microgrid”, Prasenjit Basak, S. Chowdhury, S.P. Chowdhury, 19th Southern African University Power Engineering Conference, SAUPEC 2010, 28 & 29 January 2010, University of the Witwatersrand, South Africa, ISBN 9780620461573.
5. “Microgrid: Control Techniques and Modeling”, Prasenjit Basak, A.K. Saha, S. Chowdhury, S.P. Chowdhury, 44th International Universities’ Power Engineering Conference, UPEC 2009, 1-4 September, 2009 organized by University of Strathclyde, Glasgow, Scotland, ISBN 978-1-4244-6823-2.
6. “Concept & Benefits of Microgrid System with Modeling & Simulation”, Prasenjit Basak, S.P. Chowdhury, S. Chowdhury, International Conference on Modeling and Simulation, MS.07, India, December 3-5, 2007 organized by University of Calcutta, Deptt of Applied Physics, Kolkata, India.
7. “Integrated Operation of PV array based Microgrid”, T.K. Panigrahi, S.P. Chowdhury, S. Chowdhury, P. Mitra, Prasenjit Basak, Supriyo Das, International Conference on Recent Trends in Automation & its Adaptation to Industries”, p-116, July 11-14, 2006 organized by PCEA, Nagpur & IFToMM--- International Federation for the Promotion of Mechanisms & Machine Science at PCEA, Nagpur, India.
8. “Distributed Energy Resources & Microgrid Operation: An Evolutionary Power Scenario”, T.K. Panigrahi, S. Chowdhury, S.P. Chowdhury, A.K. Saha, Prasenjit Basak, “International Conference on Power System Operation in Deregulated Regime (ICPSODR)” dated 6th & 7th March 2006 at Institute of Technology, Benaras Hindu University, India.

**Papers in National Conferences:**

1. “Design and Simulation of a Central Controller for a Sample Microgrid”, Amandeep Kaur, Gagan Garg , Prasenjit Basak, National Conference on Integrated Computational Techniques in Electrical Engineering (ICTEE 2014), 18-19 January, 2014, organized by Electrical and Instrumentation Engineering Department, Thapar University, Patiala, India.
2. “Microgrid: An Emerging Power System and its Deployment in Indian Power Scenario”, Jitender Kaushal , Prasenjit Basak, National Conference on Integrated Computational Techniques in Electrical Engineering (ICTEE 2014), 18-19 January, 2014, organized by Electrical and Instrumentation Engineering Department, Thapar University, Patiala, India.
3. “Modeling and Simulation of Sample Fuel Cell and its Performance Analysis”, Deepak Malhotra, Prasenjit Basak, National Conference on Integrated Computational Techniques in Electrical Engineering (ICTEE 2014), 18-19 January, 2014, organized by Electrical and Instrumentation Engineering Department, Thapar University, Patiala, India.
4. “Microgrid: An Emerging Concept of Future Power system”, Prasenjit Basak, S. Chowdhury, S.P. Chowdhury & S. Halder nee Dey, National Conference on Electrical, Electronics and Computer Engineering 2011 (CALCON’11), November 4-5, 2011, organized by IEEE Calcutta Section in collaboration with CAS, Jadavpur University.
5. “Microgrid: An Emerging Power Scenario”Prasenjit Basak, S. Chowdhury, S.P. Chowdhury & S. Halder nee Dey, The All India Seminar on Microgrids in Indian Power System, 6 & 7 June, 2011 organized by The Institution of Engineers (India), Pune Local Centre, Pune, India.

**13. Extra Responsibilities/Administrative Experience:**

|  |  |  |
| --- | --- | --- |
| Organization | Designation  | Nature of Responsibility |
| Calcutta Institute of Engineering and Management | Teacher-in-Charge and Assistant Professor of Electrical Engineering Department. (Duration: 09 months). | Coordination of Departmental Work, Teaching, Monitoring and Maintenance of Laboratory equipments, Organizing Seminars, Participation in Examination and Placement activities etc.  |
| Ramakrishna Mission Shilpamandira, Belur Math, 208, G.T. Road, Howrah- 711202. | Coordinator & Lecturer of Electrical Engg. Department. (Duration: 01 Year 08 months) | Coordination of Departmental Work, Teaching, Monitoring and Maintenance of Laboratory equipments, Student’s counselling and mentoring etc.  |

**14. Hobbies:** Travelling and Photography.

**(Dr. Prasenjit Basak)**