

Dr. MUNISH MANAS



Aim: To serve as a Faculty and Researcher in a technical teaching Institute that promotes quality education and research.

EDUCATIONAL QUALIFICATION

DURATION	COURSE AND INSTITUTE	PERCENTAGE
September, 2012 to continue	Ph.D. (Awarded)	Awarded and coursework completed with 81% marks
July 2010 to March 2012	M.Tech (Electrical Power Systems) from Bharati Vidyapeeth University, C.O.E, Pune [Full Time]	76.7%; <i>1ST RANK in the University</i>
July 2009	B.E. (Electrical) from B.V.P., C.O.E, Pune	66.4%, 4 YRS AGG. 4 th rank in Department
2005	HSC , Ramjas School, {CBSE} Delhi	84.2% in P.C.M.
2003	SSC , Ramjas School, {CBSE} Delhi	91.3%

AREA OF RESEARCH: My area of research is “Design and Optimization of a Smart microgrid towards sustainability”.

My Ph.D. project work was guided by Power Grid Corporation of India Ltd. and Central university of Jamia Millia Islamia.

FELLOWSHIPS and Spl. Nominations

1. I have been AWARDED U.G.C. B.S.R. meritorious FELLOWSHIP from 2012 onwards.
2. Nominated Member of Arunachal Pradesh’s Public Service Commission Examination Committee for Electrical Engineering.
3. Faculty Coordinator and Trainer for MNRE sponsored Photo Voltaic Skill Development Program- Suryamitra in Tezpur Central University.
4. Faculty Coordinator for MHRD Sponsored Ishan Vikas Internship Program for Tezpur Central University for the year 2016 in MNNIT Allahabad.

TECHNICAL TEACHING EXPERIENCE:

1. I am working as Assistant Professor in The Electrical Engineering Department of Central University of Haryana, Mahendergarh from September 2016.
2. I have worked as an Assistant Professor in Tezpur University (A Central University) in the department of Electronics & Communication Engineering for 1.5 years (from 26th March 2015 to 26th September 2016).
3. U.G.C. B.S.R. Research Fellow with Jamia Millia Islamia (A Central University) for 2.5 years.
4. I am Visiting Faculty for National Power Training Institute (N.P.T.I.) Faridabad for training their Executive Trainees and also, Senior Officials of Rural Electricity Corporation (R.E.C.) of India Ltd. and Rajasthan State electricity Board.
5. I am Visiting Faculty for Powergrid Corporation of India Ltd. Manesar Training and Leadership Centre for training their Executive Trainees on Smart Grids.
6. Alongside with my M.Tech {POWER SYSTEMS} I acquired 1year Visiting Faculty TEACHING experience in ELECTRICAL DEPT. of TSSM'S'S ENGG. College BSCOER, NARHE [very near to BVP College] UNDER PUNE UNIVERSITY 23rd July 2010 to 4th July 2011.
7. I have set up Control System Lab and introduced 4 new experiments in the same Lab at U.G. and P.G. level in Jamia Millia Islamia (A Central University) Electrical Engineering Department. In 2014.
8. I have set up Electrical Machine Lab for Electrical Engineering Programme in Electronics and Communication Engineering Department of Tezpur Central University and introduced 5 new experiments over there.
9. I have set up Power System Hardware Lab. For Electrical Engineering Programme and Computer Aided Power System Lab. with etap and Matlab software based power system programs in Electronics and Communication Engineering Department of Tezpur Central University and introduced 5 + 5 new experiments over there.
10. I have set up Basic Electrical Engineering Lab in TSSM,s BSCOER, under Pune University, Electrical Department ,Narhe ,Pune.

11. I have designed Syllabus of Electrical Engineering subjects like Power System-II, Computer Aided Power system, High Voltage Engineering etc. for Engineering School of Tezpur Central University under the supervision of Prof. Jiten C.Dutta.
12. I have held seminars on communication, management and teaching skills for faculty members of JSPM technical institute under Pune University in the line of mission 10X of WIPRO.

Membership of Professional Bodies and Committees:

1. IEEE Professional Member; Kolkata Section; Membership ID.- 93350323
2. Core Team Member of IEEE Chair of Education Society (Prof. V.K. Chandna).
3. IEEE Smart Grid Community and IEEE Education Society.
4. IEEE Young Professionals, global community of dynamic early career members
5. Lifetime Member of India Smart Grid Forum.
6. Member on Technical Program Committee (TPC)/ Advisory Board of the forthcoming 2nd IEEE International Conference on Recent Advances and Innovations in Engineering (ICRAIE– 2016) proposed dates 23-25 December 2016.
7. NAAC Coordinator for ECE Department Tezpur Central University.
8. Electricity Tariff Design Committee Member for Tezpur Central University.
9. Tezpur city Solar PV Project Core Team Member.
10. Faculty Incharge for Electrical Machines Lab., Network Theory lab. And Power Systems Lab in Tezpur Central University.

INDUSTRY EXPERIENCE:

1. *I took training in SMART GRID TECHNOLOGY in POWER SYSTEMS from POWERGRID CORPORATION OF INDIA LIMITED {PGCIL} - **AUG. 2009 TO NOV. 2009***
2. *Worked as an Executive Trainee in Lanco Infratech (Hydro Electric) – **DEC. 2009 TO JUNE 2010***

TRAININGS AND PROJECTS:

1. My Ph.D Project was completed in Powergrid Corporation of India Ltd. under DR. Subir Sen G.M. [SMART GRID] in POWERGRID CORPORATION and in and Central university of Jamia Millia Islamia.

2. MNNIT Allahabad 15 days workshop on National Instrument's labVIEW Programming and Hardware interfacing.
3. MNNIT Allahabad 15 days workshop on Arduino Programming on water Level Alarm and quality management systems
4. I have attended a Workshop on "Computational Intelligence and its application to Smart Grid " at I.I.T. DELHI in December 2012.
5. I have attended a 15 day workshop on "Issues in the Integration of Renewable Energy in the Smart grids" in Delhi Technological University (D.T.U.) formerly Delhi College of Engineering (D.C.E.) in December 2014.
6. Familiarization Workshop on Nanofabrication Technologies, the INUP; IIT Bombay and IISc Bangalore, Tezpur University.
7. I have done my M. Tech project in POWER SYSTEM RELIABILITY Studies SPONSORED BY PGCIL under DR. Subir Sen G.M. [SMART GRID] in POWERGRID CORPORATION Headquarters from 9th Sept 2011 to 27th April 2012.
8. I have completed training in VIBRATIONAL ANALYSIS OF ELECTRIC MACHINES in THERMAL POWER STATIONS at N.T.P.C. badarpur.
9. Participated in Induction cum Orientation Program on Professional Qualities in Education by IQAC, Tezpur University (A Central University).
10. Participated in Workshop on Philosophy, Anthropology, Culture, Community, Democracy and Politics 23rd to 25th April 2015; Tezpur University (A Central University).

PUBLICATIONS:

1. **Munish Manas**, " Development of preferential regulations, transmission tariffs, and critical technological components for the promotion of smart grid globally", *Economics and Policy of Energy and the Environment*, Franco Angeli Inc.(SCI Indexed), vol. 75, issue 2, pp. 107-130, 2015, DOI: 10.3280/EFE2015-002008.
2. Zaheeruddin and **Munish Manas** "Analysis of Design of technologies, tariff Structures and regulatory policies for sustainable growth of the Smart grid" in *Taylor and Francis's "Energy Technology and Policy" Journal*, Volume 2, issue 1, pp. 28-38, 2015, doi/full/10.1080/23317000.2015.1015083.

3. Zaheeruddin and **Munish Manas**, "A New Approach for the Design and Development of Renewable Energy Management System through Microgrid Central Controller", **Energy Reports, Elsevier Inc.**, vol. 1, pp. 156-163, 2015; DOI: 10.1016/j.egy.2015.06.00.
4. B. Saharia and **Munish Manas**, "Viability analysis of Photovoltaic/Wind hybrid standalone Distributed Generation based system as applicable in isolated community of north-east region of India", accepted in **Distributed Generation & Alternative Energy Journal, Taylor and Francis Inc., SCI Indexed**.
5. I have recently communicated a paper on the topic of "Multiobjective Optimization of a smart microgrid" in **Elsevier's SCI Indexed Journal "Energy for Sustainable Development"**.
6. Barnam Jyoti Saharia , **Munish Manas** and Bani Kanta Talukdar, "Comparative Evaluation of Photovoltaic MPP Trackers: A Simulated Approach" , in Cogent Engineering **Taylor and Francis Inc.**, (2016), Vol. 3, pp -1-17. <http://dx.doi.org/10.1080/23311916.2015.1137206>
7. zaheeruddin and **munish manas**, "Stochastic modeling and optimization in a microgrid", Journal IJARSE (E-ISSN: 2319-8354)(P-ISSN: 2319-8346) with impact factor 1.415.
8. Barnam Jyoti Saharia, Zaheeruddin, **Munish Manas** and Amrita Ganguly, "Optimal Sizing and Cost Assessment of Hybrid Renewable Energy Systems for Assam Engineering College," in **12th IEEE India International Conference INDICON 2015**, pp-1-6, DOI: 10.1109/INDICON.2015.7443106, (print ISBN: 978-1-4673-7398-2)
9. Barnam Jyoti Saharia, **Munish Manas** and Subir Sen , " Comparative study on buck and buck-boost converters for MPP tracking for Photovoltaic Power Systems" , in the 2016 Second **IEEE International Conference on Computational Intelligence & Communication Technology**, pp 382-387.
10. B. J. Saikia, **M. Manas** and D. C. Baruah, "Distribution loss reduction in a University of North East India through load factor improvement," *2015 International Conference on Energy Systems and Applications*, Pune, India, 2015, pp. 203-208. doi: 10.1109/ICESA.2015.7503340
11. **Manas, M.**; Zaheeruddin, M.; Sharma, B.B., "Development of a benchmark for the interpretation of transformer frequency response analysis results," in *Cognitive*

Computing and Information Processing (CCIP), 2015 International Conference on
, vol., no., pp.1-5, 3-4 March 2015.

12. Zaheeruddin; Manas, M., "Development of Self-Sustainable Technologies for Smart Grid in India," in Computational Intelligence & Communication Technology (CICT), 2015 **IEEE International Conference on** , vol., no., pp.563-568, **13-14 Feb. 2015. (Best Paper Award Power & Energy Track)**
13. Jahan, Mosarrat; **Manas, Munish**; Sharma, Bharat Bhushan; Gogoi, Babu Bikash, "Feature extraction and pattern recognition of EMG-based signal for hand movements," in *IEEE Advanced Computing and Communication (ISACC), 2015 International Symposium on* , vol., no., pp.49-52, 14-15 Sept. 2015
14. I have presented a paper on the Topic "Smart Grid Roadmap for India" in the International Conference on Innovative Approaches In "Electrical, Power Control, Electronics Engineering and Applied Communication Technology" in Jawaharlal Nehru University, Applied Science Department.
15. PSAC Simulation method for Reliability Analysis and solution by Multi Agent System in Smart Grid Task Force- in ISGT national conference by Pune University.
16. Discharge Detection Technique for Stator using vibrational analysis –in INCON 6TH International conference by CETYS Universidad Mexico and ASM research.
17. Power System Reliability Analysis in Wind Energy Generation – in National Conference GTBT 2011 by Pune University.
18. Fuel Cell Power Conditioning for Electric power Applications – in National Conference GTBT 2011 by Pune University.

HOBBIES:

Presenting seminars on:

1. TIME and STRESS MANAGEMENT, Value Education and
2. Communication and Interpersonal SKILLS.

Also, Reading philosophical novels, writing poetry, swimming, and gymnasium,

STRENGTHS:

Hard working, Leadership Qualities, Submissive to my mentors, Persevering, Good communication Skills and multi tasking.

Personal Information:

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