

Name: Abdullah Al Mahfazur Rahman

Employee ID #:8138

Designation: Lecturer & Coordinator

Name of the Department: Electrical and Electronic Engineering

Name of the School: Science and Engineering



Academic Qualifications:

Sl #	Name of Degree	Institution	Board	Major	Passing Year	Result/CGPA
1	M.Sc. Engg.	Chalmers University of Technology, Gothenburg, Sweden	N/A	Electric Power Engineering	2012	N/A
2	B.Sc. Engg.	Ahsanullah University of Science and Technology	N/A	EEE	2008	3.776/4.00

Tenure of Teaching/Research Experiences:

Full-Time Experiences:

Sl #	Position	Department	University	Start	End	Length of Service
1.	Lecturer	EEE	Southeast University	28.08.2014	continuing	-

Part-Time Experiences:

Sl #	Position	Department	University	Start	End	Length of Service
1.	Lecturer	EEE	Ahsanullah University of Science and Technology	15.04.2008	31.08.2009	1 years, 04 months

Teaching Competences:

- 1) Expert in cognitive teaching
- 2) Expert in laboratory experimental works
- 3) Expert in numerical computation
- 4) Expert in algorithm development

Teaching Interests:

- 1) Energy Conversion
- 2) Power System
- 3) Power Electronics
- 4) Control System

Research Areas:

- 1) Power system and operation
- 2) Control of Electrical Drives
- 3) Power Electronics converters
- 4) Control of FACTS devices

Research Publications:

(a) Thesis:

- M.Sc. Engg. Thesis: **Grid Code Testing by Voltage Source Converter.**
- B.Sc. Engg. Thesis: **Design and Fabrication of CUK Converter.**

(b) Journal Papers:

- [1] **Abdullah Al Mahfazur Rahman**, “*Islanding Operation of Distributed Generation System and its different Aspects*”, Global Scientific Journal, ISSN: 2320-9186 Volume 6, Issue 12, December 2018 Edition
- [2] Md. Abu Momen Kadrea and **Abdullah Al Mahfazur Rahman**, “*Design, Simulation and Implementation of a Microcontroller based Automatic Home Appliances Control System*”, Southeast University Journal of Science & Engineering (SEUJSE), Volume 10, No.2, ISSN 1999-1630.
- [3] **Abdulla Al Mahfazur Rahman**, Md. Moniruzzaman, “*Economic features of load frequency control in Deregulated Power Marke*” Southeast University Journal of Science & Engineering (SEUJSE), Volume 9, No 1-2, ISSN 1999-1630.
- [4] Md. Moniruzzaman, **Abdulla Al Mahfazur Rahman**, “*A Comparative Analysis on Selective MAC protocols for under water wireless sensor network*” International Journal of Advanced Research and Review (IJARR), Issue April 2016, ISSN 2455-7277.
- [5] **Abdullah Al Mahfazur Rahman**, “*Active and Reactive Power Control Through P-Q Controller Base System to Replicate the Behavior of Full Power Converter of Wind Turbine*” International Journal of Engineering Research and General Science Volume 2, Issue 5, August-September, 2014 ISSN 2091-2730.

(c) Book:

- [1] **Abdullah Al Mahfazur Rahman**, Muhammad Usman Sabbir, “*Grid Code Testing by Voltage Source Converter*” LAP LAMBERT Academic Publishing, 2012, ISBN:978-3-659-21581-0.

(d) Conference Papers:

- [1] M. Al Mamun, A K M KamrulHasan, **Abdullah Al Mahfazur Rahman**, “*Non Isolated DC-DC Step Up Converter with High Voltage Gain for Renewable Energy Applications*”, 2nd International Conference on Electrical & Electronic Engineering (ICEEE2017), 27-29 December 2017, Rajshahi, Bangladesh.
- [2] **Abdullah Al Mahfazur Rahman**, Md. Moniruzzaman, and M. Al Mamun, “*Estimation of Energy Potential of Point Absorber Buoy Type Wave Energy Converter*”, 3rd International Conference on Electrical Information and Communication Technology (EICT2017), 7-9 December 2017, Khulna, Bangladesh.
- [3] M. Al Mamun, G. Sarowar, M. A. Hoque, **Abdullah Al Mahfazur Rahman**, “*A Novel Non Isolated DC-DC Step up Converter for Photovoltaic Systems*,” IEEE 4th International Conference on Advances in Electrical Engineering (ICAEE), September 28-30, 2017, Dhaka, Bangladesh.
- [4] A K M Kamrul Hasan, M. Al Mamun, **Abdullah Al Mahfazur Rahman**, “*Simulation Based Analysis of Load Flow and Grid Design for Electric Vehicle Charging: Bangladesh Chapte*”, 6th International Conference on Electric and Electronics Systems (ICEES'16) Dec. 31, 2015 - Jan. 1, 2016 Bangkok (Thailand), ISBN 978-93-84468-39-2.

Funded Project/Development Works:

1. Obtained SEK1, 0000 fund from GE Wind Energy, Sweden for research work.

Training Received:

- [1] Received a 5 days' training on **“Teaching-Learning, Curriculum & Quality Assurance”** from 7th July 2018 to 12th July 2018, organized by the IQAC of Southeast University, at Main Campus of SEU.
- [2] Participated in a 2 days' workshop on **“COMSOL Multiphysics for Semiconductor Device Design and Characterization”** on 31 March and 2 April, organized by the Dept. Of EEE, SEU at Seminar Hall of Permanent Campus of SEU.
- [3] Participated in a day long workshop on **“Cadence-A VLSI Chip Designing Software”** on 26 May, 2015 organized by Dept. of EEE, SEU
- [4] Participated in a half day workshop on **“Process Automation Control Systems and PLC”** on 8 December 2015 organized by Dept. of EEE, SEU and Integrating Engineering and Compliances Solution.

Extra-Curricular Activities:

- [1] Working as the **Program Coordinator** of EEE Department of SEU from 24th July 2018.
- [2] Working as the **Moderator of EEE Club of SEU from 14th November, 2018.**
- [3] Worked as the **Assistant Moderator of EEE Club of SEU from 26th april 2018 to 13th November 2018.**
- [4] Working as a member of **‘Self –Assessment Committee (SAC)’** of the Department of SEU from March 22nd 2016 to 31st June 2018.
- [5] Worked as a moderator of the **‘Science Club’** of SEU from November 2014 to April 2018.
- [6] Working as the member secretary of the **‘Examination Seat Plan Committee’** of the Department of EEE of SEU from spring 2015.

Industry Visits:

- [1] Visited the **‘Ashuganj Power Station Company Limited, Bangladesh’** with the students of EEE Department, Southeast University on 6th September 2018.
- [2] Visited the **‘Atomic Energy Commission, Bangladesh’** with the students of EEE Department, Southeast University on 10th November 2014.
- [3] Visited the **‘ABB Ludvika, Sweden’** with the Power Engineering Department of Chalmers University of Technology, Sweden on 25th April 2010.
- [4] Visited the **‘E. ON Hydro Electric Power Plant at Karlstad, Sweden’** 14th April 2010.

Contact Information:

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