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Dr. Intekhab Alam

Professor, Dept. of EEE

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Position

Professor, Department of EEE. PhD From Kyushu University, Fukuoka, Japan, Masters from Ritsumeikan University, Shiga, Japan, and BSc from Bangladesh University of Engineering and Technology, Dhaka, Bangladesh.

Teaching acitivities

Power Electronics, Energy conversion, Renewable Energy, Power system and Passive Optical devices.

List of Publications:

Name of Journal/ Conf.	Title
1.	Energies, Journal from MDPIVol. 16, 2060.DOI:10.3390/en16042060
2.	Energies, Journal from MDPIVol. 13, 5507. DOI:10.3390/en13205507
3.	Int. Con. on Developments in Renewable Energy Technology 2018 (ICDRETâ€™18)
4.	Int. Con. on Advances in Electrical, Electronic and Systems Engineering (ICAEES), IEEE 2016
5.	In Con. Proc. of NUSOD 2015, MP29, Taiwan, September 7-11, 2015.
6.	In Con. Proc. of CLEO-PR 2015, 27P62, Busan, South Korea, August 24-28, 2015.

7.	Non Conventional Energy (ICONCE), 2014 1st International Conference on
8.	Japanese Journal of Applied Physics, Vol. 49, No. 12, pp 122503-122503-9 (2010)
9.	IEICE Technical report, OPE 2009-133
10.	Joint Conference of IEEE Kyushu Section, Japan, 2009
11.	Micro optics Conference 2009, F3, Technical Digest
12.	IEICE Technical report, OPE 2008-108
13.	Joint Conference of IEEE Kyushu Section, Japan, 2008
14.	Journal of Optics Communications, February, 2005, 84-94
15.	OECC/ COIN, July 2004
16.	Technical report of IEICE, July 2004
17.	UPEC, 2001
### Research Interest:	
Power system Design, Renewable Energy, System design with PLC, Optical wave guide, Passive optical device, Photonic Bandgap, Plasmonics, THz.	
Software expertise: Rsoft, ThomasCAT, ETAP, MATLAB, ETAP.	
Present Research work: Smart grid, Solar PV integration in grid.	
### Technical Skills	
* Have work experience with Nikon, ULVAC and DENSO corporation in different modalities.	
* Have the ability to work with Thorlabs, Agilent, HP, Namiki and Nikon equipment for optic system design and experiment.	
* At present I am also working with various industrial PLCs, Numerical relays, and their systems, ABB, Siemens, LS, Schneider, Mikro and others.	
* Technical Auditing of various Biogas projects in Bangladesh: Funded by KfW, German development bank.	
* Technical Auditing of various Solar irrigation projects in Bangladesh: Funded by KfW, German development bank.	

Other Academic activities

Team Lead: * BAETE accreditation for the EEE program at United International University. * Technical Chair: 6th and 7th International Conference on the Developments in Renewable Energy Technology.

Reviewer: Working as reviewer in various journals and conferences Recent activities: * Energy for Sustainable Development, Elsevier. * 5th IEEE International Conference on Telecommunications and Photonics (ICTP) 2023. * 6th and 7th International Conference on the Developments in Renewable Energy Technology. * Optical and Quantum Electronics. * Energies, MDPI.

Projects Implemented

- Solar Nano grid project: Funded by DFID through Loughborough University, England.
- Solar boat project: Funded by World Bank through IDCOL, Bangladesh.
- Solar cold storage project: Funded by World Bank through IDCOL, Bangladesh.

Tips and tricks

1. You may use a TRIAC to control the current in the capacitor to improve PF in the system. A soft PF controller.
2. Add a simple power diode (exp. 1N4007) in series at the input side of your LED driver. It will give a better durability to your driver.
3. To get better output results of KVL and KCL of AC circuits, please check the frequency response of the inductor at first, whether it retains the input sine wave perfectly or not.

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About UIU

- Why UIU
- Vision Mission Goals
- General Information
- UIU Campus
- Guiding Principles
- Ranking & Accreditation
- Convocation
- Gallery
- Media
- Career
- Contact

Departments

- Dept. of CSE
- B.Sc in Data Science
- Dept. of EEE
- Dept. of Civil Engineering
- Dept. of Pharmacy
- Dept. of English
- Dept. of EDS
- Dept. of MSJ
- SoBE (BBA, AIS, MBA, EMBA)
- Dept. of Economics
- Dept. of BGE

Admission

- Admission
- Tuition Fees & Waiver
- Admission Requirements
- Admission Test Result
- Admission Procedure
- Admission Dates
- International Studentsâ€™ Admission
- Global Opportunities
- International Collaboration
- FAQ

Important Links

- Time Schedule of Shuttle Services
- Student Transportation Service
- Payment Procedure
- Student e-Resources
- Important Contact

Quick Links

- UCAM
- eLMS
- Parent Portal
- Online Classroom Booking
- Degree Verification
- Necessary Forms
- Notice
- News
- Event
- EEE Old Site