

Curriculum Vitae

Md. Eakub Ali

Assistant Professor

Department of Electrical and Electronic Engineering,

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Education	Passing year
M.Sc. in Electrical & Electronic Engineering (EEE) (On going) Khulna University of Engineering & Technology (KUET) Research Supervisor: Dr. Naruttam Kumar Roy CGPA: 3.92/4.00	
B.Sc. in Electrical & Electronic Engineering (EEE) Khulna University of Engineering & Technology (KUET) Thesis Title: Conveyor Automation & Products Sorting using Color Detector Sensor & Programmable Logic Control Research Supervisor: Prof. Dr. Mohiuddin Ahmad CGPA: 3.87/4.00 (3rd position among 120 students)	May 2016

Professional Experiences	
Assistant Professor Department of Electrical and Electronic Engineering (EEE), Gopalganj Science and Technology University (GSTU), Gopalganj-8501, Bangladesh	Jun 2023-Till now
Lecturer Department of Electrical and Electronic Engineering (EEE), Bangabandhu Sheikh Mujibur Rahman Science and Technology University (BSMRSTU), Gopalganj-8501, Bangladesh	Nov 2018 – Jun 2023
Lecturer Department of Electrical and Electronic Engineering (EEE), Ahsanulla University of Science and Technology (AUST) Tejgaon, Dhaka	Nov 2016 – Nov 2018

Academic Honors and Achievements

Dean's List Award for academic excellence at all levels of undergraduate study (3 times)
University Merit Scholarship throughout the 4 years of B.Sc. for outstanding performance.
Junior Scholarship at Junior School Certificate Examination.

Computer Skills

Programming Language: C, VHDL, Verilog HDL.
Engineering Analytical Tools: MATLAB, HOMER Pro, SCAPS-1D, PSpice, Origin Lab.
Networking: Office and Home Networking (TCP/IP-LAN).

Relevant Coursework

Postgraduate Courses:

Photovoltaic Cells and Materials | Direct Energy Conversion.

Undergraduate Courses:

Electrical Machine I | Electrical machine II | Control System Engineering | Electrical Circuit II
| Power Plant Engineering | Power System I | power System II | Power System Protection.

Current Research Interest

Renewable Energy | Solar cell design | Photovoltaic materials | Perovskite's material | Power system protection and control.

Publications

International Journals:

- (1) Dipa, Safia Aktar, Nandi, Avizit, Barman, Hridoy Chandra, Imran, Md. Ibrahim Al, **Ali, Md. Eakub**, Broadband Near-Zero Flattened Dispersion in a Novel Hexagonal Photonic Crystal Fiber, *International Journal of Optics*, 2026, 5589226, 17 pages, 2026. <https://doi.org/10.1155/ijo/5589226>.
- (2) A. M. T. Hoque, K. F. Al-Tabatabaie, **M. E. Ali**, A. M. Butt, S. S. I. Mitu and K. K. Qureshi, "U-Grooved Selectively Coated and Highly Sensitive PCF-SPR Sensor for Broad Range Analyte RI Detection," in *IEEE Access*, vol. 11, pp. 74486-74499, 2023, doi: [10.1109/ACCESS.2023.3261565](https://doi.org/10.1109/ACCESS.2023.3261565).
- (3) Md. Hredoy Hossain, Nasrin Suraya, **ME Ali**, Md., Momin Biswas "Analytical Analysis of High-Efficient Thin Film BASI2/IN2S3 Solar Cell with SCAPS 1-D Simulation," in *EMERG - Energy Environment Efficiency Resources Globalization* XI(1/2025):29 – 40, doi: [10.37410/EMERG.2025.1.03](https://doi.org/10.37410/EMERG.2025.1.03).

International Conferences:

- (4) M. N. Islam, T. Abdullah and **M. E. Ali**, "Pulse Code Modulations with Derivative Dependent Automatic Sampling Time Quantization and Coupled Encoding," *2021 IEEE International Conference on Signal Processing, Information, Communication & Systems (SPICSCON)*, Dhaka, Bangladesh, 2021, pp. 70-73, doi: [10.1109/SPICSCON54707.2021.9885712](https://doi.org/10.1109/SPICSCON54707.2021.9885712).

- (5) S. R. Sarker, A. Islam Shimul, M. M. Hossain, **M. E. Ali**, M. N. Sadman and S. Aktar Dipa, "Numerical Investigation of a Novel Lead-Free Perovskite Solar Cell with FTO/WS2/CsSnI3/NiO Architecture For High-Efficiency Photovoltaic Applications," *2025 International Conference on Electrical, Computer and Communication Engineering (ECCE)*, Chittagong, Bangladesh, 2025, pp. 1-5, doi: [10.1109/ECCE64574.2025.11013974](https://doi.org/10.1109/ECCE64574.2025.11013974).
- (6) M. S. Islam, **M. E. Ali** and S. A. Dipa, "Design and Analysis of a 15-Level Cascaded H-Bridge Inverter Using Unipolar Sinusoidal PWM for Enhanced Harmonic Suppression," *2025 7th International Conference on Electrical Information and Communication Technology (EICT)*, Khulna, Bangladesh, 2025, pp. 1-6, doi: [10.1109/EICT68394.2025.11355642](https://doi.org/10.1109/EICT68394.2025.11355642).
- (7) M. M. Hasan, M. H. A. Sohag, **Md. Eakub Ali** and M. Ahmad, "Estimation of the most effective rhythm for human identification using EEG signal," *2016 9th International Conference on Electrical and Computer Engineering (ICECE)*, 2016, pp. 90-93, doi: [10.1109/ICECE.2016.7853863](https://doi.org/10.1109/ICECE.2016.7853863).

Course Conduction	
Theory Courses: 1. Basic Electrical Engineering 2. Electrical Machines I & II 3. Control System Engineering 4. Power System II 5. VLSI Design & Technology 6. Power Plant Engineering 7. Power System	Sessional (Laboratory): 1. Basic Electrical Engineering Sessional 2. Analog Electronics Sessional 3. Digital Electronics and Logic Design Sessional 4. Electrical Machines- I & II Sessional 5. Digital Signal Processing Sessional 6. Power System Engineering Sessional

PERSONAL INFORMATION:

- **Person's Name** : Md. Eakub Ali
- **Father's Name** : Md. Idris Ali
- **Mother's Name** : Begum Nesa
- **Date of Birth** : 11th December, 1993
- **Nationality** : Bangladeshi
- **National ID No.** : 19931810727000241
- **Marital Status** : married
- **Religion** : Islam
- **Gender** : Male
- **Permanent Address:** Village: Hapania, Post: Asmankhali-7201, P.S: Alamdanga, Dist: Chuadanga, Bangladesh.

References

Dr. Mohiuddin Ahmad

Professor

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Dr. Md. Rafiqul Islam

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