



**Dr. Md. Rafiqul Islam**  
Professor

**Research Area** Power System: Load flow, voltage and frequency control, Fault analysis Multi-junction solar cells (performed simulation). Compound semiconductor based devices (modeling, numerical simulation etc), Nano technologies Thin films solar cells: Growth (MOVPE), processing technology and device fabrication (used SEM, XRD, Hall measurement, PL, AFM, IV, CV, EB evaporation, Wet chemical etching). Fabrication of solar cells (used epitaxial doping process).

## Education

### Doctor of Engineering

University of Fukui, Japan (2007-2010)

**Thesis Title:** [Growth and Characterization of MOVPE InxGa1-xN \(x = 0 ~ 0.4\) for Solar Cells](#)

### MSc in EEE

Khulna University of Engineering & Technology, Bangladesh (2002-2006)

**Thesis Title:** [Design of High Efficiency InxGa1-xN-Based Multi-Junction Solar Cells](#)

### BSc in EEE

Bangladesh University of Engineering & Technology, Bangladesh (1991-1998)

### HSC

Satkuira Government College, Bangladesh (1989-1991)

### SSC

Dhandia Union Institution, Bangladesh (1987-1989)

## Service Records

- **Professor (Grade 1)**  
**Department/Section:** EEE  
**Khulna University of Engineering & Technology** From 2020-12-08 00:00:00 to 1970-01-01 06:00:00
- **Professor (2nd Grade)**  
**Department/Section:** EEE  
**Khulna University of Engineering & Technology** From 2016-09-13 00:00:00 to 2020-12-07 00:00:00
- **Professor**  
**Department/Section:** EEE  
**Khulna University of Engineering & Technology** From 2012-09-13 00:00:00 to 2016-09-12 00:00:00
- **Associate Professor**  
**Department/Section:** EEE  
**Khulna University of Engineering & Technology** From 2011-03-29 00:00:00 to 2012-09-12 00:00:00
- **Assistant Professor**  
**Department/Section:** EEE  
**Khulna University of Engineering & Technology** From 2003-06-15 00:00:00 to 2011-03-28 00:00:00
- **Lecturer**  
**Department/Section:** EEE  
**Khulna University of Engineering & Technology** From 2001-10-15 00:00:00 to 2002-06-14 00:00:00
- **Assistant Engineer**  
**Department/Section:** Operation Department  
**BPDB** From 2000-03-12 00:00:00 to 2001-10-07 00:00:00  
Working Area: Power Station
- **System Support Engineer**  
**Spectra Solutions Ltd.** From 1999-03-14 06:00:00 to 2000-03-10 00:00:00

## Research Interest

**Power System: Load flow, voltage and frequency control, Fault analysis**

**Multi-junction solar cells (performed simulation). Compound semiconductor based devices (modeling, numerical simulation etc), Nano technologies**

**Thin films solar cells: Growth (MOVPE), processing technology and device fabrication (used SEM, XRD, Hall measurement, PL,**

AFM, IV, CV, EB evaporation, Wet chemical etching). Fabrication of solar cells (used epitaxial doping process).

## Publication

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### Books

1Karim,N. ,Meme,F. I. and Islam,<. R. I. (2017) , **Organic Tandem Solar Cells: Approach to High Efficiency** , ISBN:978-620-2-05042-5,Lap Lambert Academic Publishing