



Department of Electronics and Communication Engineering  
Khulna University of Engineering & Technology  
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## Biography

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**Dr. Md. Faruque Hossain**

Professor

**Research Area** Optoelectronics, Numerical  
Computation

## Education

### Doctor of Philosophy

City University of Hong Kong, Hong Kong (2010)

The Outstanding Academic Performance Award for Research Degree Students in the academic year 2008-09 . . Awarded Research Tuition Scholarship in the academic year 2009-10.

### Master of Science in Electrical and Electronic Engineering

Khulna University of Engineering & Technology, Bangladesh (2006)

### Bachelor of science in Electrical and Electronic Engineering

Khulna University of Engineering & Technology, Bangladesh (2002) Group: Electrical and Electronic Engg.,

## Service Records

- **Department/Section:** ECE  
**Course Coordinator for several academic years (UG and PG) From to**
- **Department/Section:** ECE  
**Laboratory-in-Charge of various labs in different academic years From to**
- **President, ECE Association, KUET From to**
- **Member, CASR, KUET From to**
- **Member, Academic Council, KUET From to**

## Research Interest

### Optoelectronics, Numerical Computation

Integrated optical devices

Bio-photonics

Photonic and electronic packaging

FEM analysis

Numerical computation of electromagnetic fields

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My expertise, particularly, covers:

• Processing of polymer materials (mixing, curing, photolithography, etc.) • Thin film characterization using AFM, Nanoindentation, Surface profiler and Prism coupler • Extensive FE analysis of thermo-mechanical stress in multilayer deposition of materials, curing, etching etc. including viscoelastic modeling. • Design of various polymer waveguides and Bragg grating considering thermo-mechanical effects, and their fabrication and characterization • FE modeling of microfluidic systems, MEMS structure and biological problems such as brain edema exploring COMSOL • Laser machining, 3D Bioplotter for microfluidic devices, scaffolds for tissue engineering