

## Curriculum Vitae of Md. Shafiqul Islam



**Mailing Address :** Dr. Md. Shafiqul Islam  
Professor, Dept. of Physics  
Jahangirnagar University  
Savar , Dhaka-1342, Bangladesh  
Phone : +8801817515061  
E-mail : [shafiq1190@juniv.edu](mailto:shafiq1190@juniv.edu), [msislam@gmail.com](mailto:msislam@gmail.com)

**Area of Research :** Photonics and Fiber Optic Systems Engineering

**Research Interest :** Fiber Laser, Photonic Devices, Applications of Non-linear Optics , Fiber based Biosensors, FSO, Fiber Communication

### **Academic Credentials:**

#### **Ph.D (Doctor of Philosophy) in Photonics :**

Faculty of Engineering , University Putra Malaysia(UPM), Malaysia , 2011

**Dissertation :** “ New Tunable All-Fiber Comb Filter Based on Mach-Zehnder Interferometer”

#### **M.Sc. (Master of Science) in Material Science**

Dept. of Physics , Jahangirnagar University, Bangladesh, 1995(Held in 1997)

**Result:** First Position in the First Class

**Dissertation :** “ To Study the Dielectric Properties of Alkali Meta Vanadate Materials ”

#### **B.Sc. (Bachelor of Science) in Physics**

Dept. of Physics , Jahangirnagar University, Bangladesh,1994 (Held in 1996)

**Result:** Second Position in the First Class

#### **H.S.C (Higher Secondary Certificate) in Science Group**

Rajshahi Cadet College ,Rajshahi Board, Rajshahi , Bangladesh , 1991

**Result:** First Division with Star Marks

#### **S.S.C (Secondary School Certificate) in Science Group**

**Result:** First Division with Star Marks

Rajshahi Cadet College ,Rajshahi Board, Rajshahi , Bangladesh , 1989

## **Employment History :**

### **Research Experience :-**

- (i) Post-doctoral Fellow, Info-Comm Research Alliance , Faculty of Electrical Engineering University Technology Malaysia (UTM) – (02) Two years (1<sup>st</sup> July 2013 to 30<sup>th</sup> June 2015)
- (ii) Graduate Research Fellow, Wireless and Photonics Networks Research Center, Faculty of Engineering, Universiti Putra Malaysia (UPM), 43400 UPM Serdang, Selangor, Malaysia.-Two and Half Years (19<sup>th</sup> January 2009 to 30<sup>th</sup> June 2011)

### **Teaching Experience : Seventeenth Years (17)**

- (i) Professor in the Dept. of Physics in Jahangirnagar University from 22<sup>nd</sup> March 2016 to the present.
- (ii) Associate Professor in the Dept. of Physics in Jahangirnagar University from 11<sup>th</sup> August 2011 to 21<sup>st</sup> March 2016.
- (iii) Assistant Professor in the Dept. of Physics in Jahangirnagar University from 22<sup>th</sup> March ,2009 to 10<sup>th</sup> August 2012.
- (iv) Lecturer in the Dept. of Physics in Jahangirnagar University from 25<sup>th</sup> November 2006 to 21<sup>th</sup> March 2009.
- (v) Assistant Professor in National University from 19<sup>th</sup> July 2005 to 24<sup>th</sup> November 2006.
- (vi) Lecturer in National University from 9<sup>th</sup> February 2000 to 18<sup>th</sup> July 2005.
- (vii) Part time lecturer in Bangladesh university from July 2002 to June 2004.
- (viii) Lecturer in Dhaka Residential Model College from April 1999 to January 2000.
- (ix) Lecturer in Savar College from April 1998 to March 1999.

### :Journal Publications :

No.	Title	Year	IF
1.	<b>M S Islam</b> , A B Mohammad & Samir A Al-Gailani, "Characteristics of free space optics communication link in an unusual haze," Indian Journal of Pure & Applied Physics(IJPAP), Vol. 54 no.01(2016) pp.46-50, 2016 .	2016	0.775
2.	Abdul Gafur, <b>M. S. Islam</b> , "Optimization of Q-Values for Coherent Optical Transmission Network" Rajshahi University Journal of Science and Engineering (RUJSE) , Vol.1 pp. 15-20 , 2015.	2015	N/A
3.	Samir A. Al-Gailani , <b>M.S. Islam</b> , A.B.Mohammad, Usman U. Sheikh, Redhwan Q. Shaddad, M. A. Elmagzoub, "Tropical Temperature and Humidity Modeling for Free Space Optical link," Journal of Optics, Springer March 2016, Volume 45, <u>Issue 1</u> , pp 87-91.	2015	1.17
4.	<b>M.S. Islam</b> , A.B.Mohammad, J.N. Sikta, N.N. Ripa, "Tunable Multiwavelength Erbium-doped Fiber Laser Incorporating Single-core Comb Filter at Room Temperature" Journal of OPTIK, Elsevier Volume 126, <u>Issue 23</u> , December 2015, Pages 4268–427.	2015	0.77
5.	<b>M.S. Islam</b> , A.B.Mohammad, "Thermally Tunable and Switchable Single Core Comb Filter Using PMF" Journal of Modern Optics, Taylor & Francis, <u>Volume 61</u> , <u>Issue 19</u> , 2014	2014	1.15
6.	<b>M.S.Islam</b> , A.B. Mohammad, "Transmission characteristics of Mach-Zehnder interferometer comb filter based on thermal operation" Journal of Applied Physics B: Laser & Optics, Springer, October 2014, Volume 117, <u>Issue 1</u> , pp 59-65.	2014	1.78
7.	<b>M.S.Islam</b> , A.B. Mohammad, "The effect of elastic fatigue on the output transmission of a Mach-Zehnder interferometer comb filter " Journal of Optical Fiber Technology, Elsevier, <u>Volume 20</u> , <u>Issue 3</u> , June 2014, Pages 299–30	2014	1.18
8.	J. N. Sikta, <b>M. S. Islam</b> , N. N. Ripa, "Theoretical analysis of tunable single-core comb filter based on MZI," Journal of science and technology, vol. 6, no. 1(2014).	2014	N/A
9.	O.F. Rasel, <b>M.S. Islam</b> , Yasmin Mawla, J.N. Sikta, "Microprocessor based AC line Voltage Recorder," IOSR Journal of Applied Physics (IOSR-JAP), Accepted, (Sep.-Oct. 2014)	2014	N/A
10.	J. N. Sikta, <b>M. S. Islam</b> , O. F. Rasel and N. N. Ripa, "Wavelength spacing tunable capability of optical comb filter using Polarization Maintaining Fiber," IOSR Journal of Applied Physics (IOSR-JAP), 2278-4861. Volume 6, Issue 3 Ver. III (May-Jun. 2014), PP 57-62.	2014	N/A
11.	J. N. Sikta, <b>M. S. Islam</b> , O. F. Rasel and N. N. Ripa, "Peak wavelength position tunable capability of optical comb filter based on MZI," Jahangirnagar university Journal of Science (JUJS), Accepted, 2014.	2014	N/A

12.	FH Tithi, <b>M.S. Islam</b> , MTA Tanna, "Overview of stimulated Brillouin scattering effect and various types of method to eliminate this effect," International journal of computer application Vol. 92( 7).	2014	N/A
13.	S.Al Mamun, M.S. Kaiser, M.R. Ahmed, <b>M.S. Islam</b> , M.I. Islam, "BER Analysis of Optical Wireless Communication System Employing Neuro-Fuzzy Based Spot-Diffusing Techniques," Journal of Information and Communication technology(EICT). 2014	2014	N/A
14.	Shamim Al Mamun, M. Shamim Kaiser, Muhammad R Ahmed, <b>Md. Shafiqul Islam (M.S. Islam)</b> , Md. Imdadul Islam, "Performance Analysis of Optical Wireless Communication System Employing Neuro-Fuzzy Based Spot-Diffusing Techniques," Journal of Communications and Network, vol-5, p.260-265, 2013.	2013	0.33
15.	<b>M.S. Islam</b> , F. Ahmed, M.N. Islam, "Propagation of Femtosecond Soliton Pulses in Standard Single Mode Fiber" Optik, Elsevier, vol. 75, Issue 10 .	2012	0.52
16.	<b>M.S. Islam</b> , H.A.AL-Asadi , " Numerical Analysis of Brillouin Threshold Through a Recycling Pump power Technique" Jahangirnagar University Journal of Science (JUJS), vol.31 ,2012	2012	N/A
17.	<b>M.S. Islam</b> , " Numerical Analysis of Millimeter-Wave Generation In Photonic Crystal Fiber" Jahangirnagar Physics Studies (JPS), vol.18, 2012.	2012	N/A
18.	A.K. Zamzuri, M. A. Mahdi, M. H. Al-Mansoori and <b>M.S. Islam</b> , "OSNR variation of multiple laser lines in Brillouin-Raman fiber laser," Optics Express , vol. 17, no. 19, 2009 .	2009	3.52
19.	A.K. Zamzuri, U.S. Ismail, M.H. Al-Mansoori, <b>M.S. Islam</b> , and M.A. Mahdi, "All-optical wavelength conversion based on degenerate four-wave mixing in Raman ring laser," Laser Phys. Lett. 8, No. 1, 62–65 (2011).	2011	7.52
20.	S Al-Mamun, <b>M. S. Islam</b> , " Effect of chromatic dispersion on four –wave mixing in optical WDM transmission system, " 6 <sup>th</sup> IEEE international conference on Industrial and Information Systems(ICIS).	2011	N/A
21.	Sharmin sultana, <b>M.S. Islam</b> , Yasmeen Mawla, Sahana Sultana , "Design and Development of Microprocessor Based Electronic Voting System," Jahangirnagar University Journal of Science , vol.- 31 ,no.-2, 2008.	2008	N/A
22.	A.A. Mahboob ,J.K. Saha , F. Ahmed , A.H.Khan , <b>M.S. Islam</b> , M.A. Hossain. "Growth of YBCO(123) Superconducting Ceramics in Air," Jahangirnagar University Journal of Science, vol.- 30 ,no.-2, 2007	2007	N/A
	<b>Patent</b>		
23.	<b>M.S. Islam</b> , M.A. Mahdi, "Single-Core Fiber Mach-Zehnder Interferometric Tunable Comb Filter,". Malaysian Patent Pending- PI20122000683.	2011	Com.
24.	<b>M.S. Islam</b> , M.A. Mahdi, " Polarization Independent Tunable All-fiber Comb Filter Based on Mach-Zehnder Interferometer," Malaysian Patent Pending - PI20122000683	2011	Com.

### Courses Completed During PhD Program:

- ❖ Special Topics in Fiber Optic
- ❖ Spectroscopy and Microscopy Techniques
- ❖ Research Methodology
- ❖ Digital Image Processing
- ❖ Optical Devices and Instrumentations

### Member:

- (i) Bangladesh Physical Society
- (ii) Optical Society of America (OSA)

### Language Skill :

IELTS Score (2008): **BAND 6.5**

### Computer Skill:

Good Computer Operating Skill on Software.  
Specially MATHLAB

### Personal Details:

Name	Md. Shafiqul Islam
Father's Name	Md. Rafiqul Islam
Mother's Name	Mrs. Finkara Begum
Permanent Address	Vill.- Ajipur , Arambag P.O.- Bot tolahat P.S.-Nawabgonj , Dist.- Chapai Nawabgonj.
Present Address	Professor , Dept. of Physics , Savar, Dhaka-1342, Jahangirnagar University, Bangladesh.
Date of birth	1 <sup>st</sup> August ,1973
Religion	Islam ( Sunni)
Nationality	Bangladeshi ( By Birth )
Passport	Passport No. AC5530654
Marital Status	Married

## Referees:

(i) Prof. Dilder Hossain, (D.Phil ,Oxford,UK),  
Dept. of Physics, Jahangirnagar University,  
Dhaka, Bangladesh.  
E-mail: [feroza@bdcom.net](mailto:feroza@bdcom.net) .  
Phone : +88028141123, +8801552404042

(ii) Prof. A.A. Mamun ,(Ph.D , St. Andrews,UK),  
Dept. of Physics, Jahangirnagar University, Dhaka, Bangladesh.  
E-mail : [mamun\\_phys@yahoo.co.uk](mailto:mamun_phys@yahoo.co.uk),  
Phone: +88027791218

## Reference :

**Prof. M. Saif Islam**, (Ph.D,California-Los Angeles,USA)  
Integrated Nanodevices & Nanosystems Lab  
Electrical and Computer Engineering, University of California - Davis  
3139 Kemper Hall, Davis, CA, 95616  
Ph: (530) 754-6732 (530) 754-6732, Fax: 530-752-8428  
**E-mail: [sislam@ucdavis.edu](mailto:sislam@ucdavis.edu)**



**(Md. Shafiqul Islam,PhD)**  
Professor , Dept. of Physics  
Jahangirnagar University, Bangladesh.