# Arijit Saha

Flat A3, Shristi Apartment,
FB-101, Narayantala West, Baguiati,
Kolkata 700059

Contact Number: +919433076156

EMail Id: arijit_sh@yahoo.com

**Educational Qualification:**

| *Degree* | *Year* | *Board/University* | *Institute* | *Marks (%)* |
|---|---|---|---|---|
| Ph.D (Optoelectronics) | Thesis to be submitted shortly | Calcutta University | University College of Technology | NA |
| M.Tech (Optoelectronics) | 2004 | Calcutta University | University College of Technology | 77.88 |
| B.Tech (Optoelectronics) | 1999 | Calcutta University | University College of Technology | 69.43 |
| B.Sc (Physics Hons.) | 1996 | Calcutta University | Krishnath College | 63 |

**Academic Achievements:**

- Obtained National Scholarship for the result of Madhyamik.
- Obtained Scholarship for the result of B.Sc. from the Govt. of India.

**Work Experience:**

| *Type of Job* | *Organization* | *Designation* | *Duration* |
|---|---|---|---|
| Academic | BPPIMT | Assistant Professor | March 2008 – till date |
| | JISCE | Assistant Professor<br>Senior Lecturer<br>Lecturer | October 2006- February 2008<br>October 2004-September 2006<br>August 2001-September 2004 |
| Industrial | CA-TCG Software | Associate Software Engineer | January 2001-July 2001 |
| | ABP Pvt. Ltd | System Analyst | June 1999-December 2000 |

**Member of Professional Bodies**

- Life Member OSI & Member SPIE

**Research Interests:** Novel applications of chromatic behaviour of birefringent networks

**Teaching Interest:** Optical Fiber Communication, Wireless Communication, Information & Coding theory, Digital Electronics & Logic Design, Analog Electronics, E M Theory, Solid State Devices.

**Invited Talk:**

- A series of lectures on: *Optical and Digital Image Processing, MATLAB, Analog and Digital Electronic Circuits* and *Circuit Theory & Network Analysis* for the Integrated M.Tech-PhD and B.Tech students of Department of Applied Optics & Photonics, Calcutta University during March 2009 and April 2011.

**List of Publications:**

**Books: 2**

(i) "*Digital Principles and Logic Design Techniques*", (ii) "*Optoelectronics and Optical Communication*" (in Press).

**Journals: 5**

(i) "A composite birefringent filter: design and simulation", *Journal of Modern Optics* Vol. 56, No. 8, pp. 963-967 (2009).
(ii) "Combination of birefringent plates forming a retarder having marginal chromatic error", *Science & Culture*, Vol. 75, Nos. 11-12, pp. 424-427 (November-December 2009).
(iii) "Three-element variable retarder for monochromatic light", *Optical Engineering* Vol. 49, No. 7, 073004(1-4) (July 2010).
(iv)"Reconfigurable achromatic half-wave and quarter-wave retarder in Near Infrared (NIR) using crystalline quartz plates", *Optical Engineering*, Vol. 50, No. 3, 034004(1-4) (March 2011).
(v)"A near infrared zero-order achromatic retarder" *Pramana Journal of Physics* (Accepted).

**Conferences: 3**

(i) "A New Achromatic Combination of Birefringent Plates".
(ii) "A technique for rotation compensation for a composite birefringent system".
(iii) "Digital Computing Using All Optical Technique".

**Seminar Conference Attended / Organized**

- Organized one day seminar on 29th October, 2010 as a part of SPIE student chapter, where Prof. Vijaya Ramarao, department of Physics, IIT Bombay delivered a talk on "Optical Fiber and its present relevance in communication".