Debarup Roy

Assistant Professor

Department Of Electronic

Contact Information

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Specialization

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EDUCATION SOCIETY COLLEGE

Biographical Sketch

Debarup Roy received his B.Sc. degree in Electronics from the Calcutta University (CU) and his M.Sc. degree in Electronic Science from the Department of Electronic Science, CU, in 2006 and 2008, respectively. He is pursuing his research work in the Department of Electronic Science, CU. His current research interests include non-linear fiber optics, photonics and biophysics.

Academic Qualifications

Abbreviation of the Degree	Name of the College / University	Class Obtained	Area of Specialization	Year of Passing
Ph.D	University of Calcutta	-	Photonics	Thesis submitted
M.Sc	University of Calcutta	1st	Electronic Science	2008
B.Sc (Honours)	Barrackpore Rastraguru Surendranath College, University of Calcutta	1st	Electronics	2006

Position Holding (Full Time)

- Assistant Professor, Department of Electronics, The Bhawanipur Education Society College, University of Calcutta, May, 2018 – Present.

Industry Experience

- Developer – Tata Consultancy Services Ltd., Aug' 2008 – Dec' 2010

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Research Experience

Registered in the Ph.D. program in the Department of Electronic Science, University of Calcutta. Thesis Submitted

Subjects Taught

Network Theory – SEM-1 | Electromagnetic Theory – SEM-3 | Programming in MATLAB/SCILAB – SEM-4 | Control Theory – SEM-5 | Fiber Optics and Photonics – SEM-6

Research Interests

Optics and Photonics | Biophysics

Journal Publications

- Debarup Roy and Somenath Sarkar (2020), 'Effect of splice offset on optimum single mode fiber launch optics based on the proposed broadband laser diode in the context of DWDM', Optik, 217,164784.

- Debarup Roy, Anupam Karmakar and Somenath Sarkar (2018), 'Prescription of wavelength- dependent spot size relations of a broadband laser diode in the context of uniformly maximum lens excitation of WDM signals', Applied Optics, 57(30), 8984-8988.

- Soumita Chakraborty, Debarup Roy, Sumanta Mukhopadhyay and Somenath Sarkar (2017), 'An investigative study of efficient coupling mechanism of a hemispherical microlens tipped single mode photonic crystal fiber to a laser diode by ABCD matrix formulation and determination of the optimal separation distance', Optik, 149, 81-89.

- Debarup Roy and Somenath Sarkar (2016) , 'Simple but accurate method to compute LP 11 mode cutoff frequency of nonlinear optical fibers by Chebyshev technique', Optical Engineering,55(8),084105

Debarup Roy

Signature of the Faculty Member

Date: 01st September, 2022

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