

Bio Data

A. General Information

Name: Dr. Umesh Kumar Das

Address (Residential): Mirzapur Road, Giri Truck Stand Lane, Darbhanga – 846004

Designation: Assistant Professor (Senior Scale)

Area of Specialization: Fiber and Integrated Optics

B. Academic Qualification

SN	Exam Passed	Board/Institute	Year	Div	% Marks
1	Matric	BSEB, Patna	1978	1st	82%
2	I.Sc. (1st Year)	Sc. College, Patna	1979	1st	75%
3	B.Sc. + M.Sc.	IIT Delhi	1984	1st	70.4%
4	NET	UGC+CSIR	1984	-	-

C. Research Experience & Training

- 5 years of full-time research in Fiber and Integrated Optics in the Physics Department of IIT Delhi.
- 3 months of training in Bhabha Atomic Research Centre (BARC), Bombay (as part of M.S. Programme).
- 3 Ph.D. degrees produced.
- 4 research scholars are registered for Ph.D.

D. Publications (Summary)

- 5 in International Journals
- 2 in National Journals
- 4 presented in Seminar/Conference
- 3 communicated
- List of publications attached.

E. Seminars / Conferences / Workshops / Camps Attended

- Seminars – (3) National, (2) International
- Conferences – (3)
- Workshops – (2)
- Camps – (2)

F. Teaching Experience

Level	Institution	Duration	Years
UG	SGTB Khalsa College, DU	2 Years	1989–91
UG	C.M. Sc. College, Darbhanga	26 Years	1996–to date
UG	W.I.T., Darbhanga	8 Years	2006–14
PG	C.M. Sc. College, Darbhanga	26 Years	1996–to date

Remedial	Private College, New Delhi	5 Years	1991–96
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G. Innovation / Contribution in Teaching

Introduced numerical-based teaching with assignments suitable for competitive as well as university examinations.

H. External Work / Committee Service / Participation in Corporate Life

- Admission In-charge and Course Coordinator in W.I.T.
- Coordinator, Computer Facilities in College
- Examination Controller of the college and the university
- Director of Dr. APJAK W.I.T.
- Nodal Officer of NIRF
- Hostel Superintendent of Einstein Hostel
- Member of IQAC
- Member of Nano Science Technology Advisory Council & Executive Committee
- Life Member of Laser and Spectroscopy Society of India (Membership No. 348-08)
- Life Member of the Indian Science Congress Association (Membership No. L26704)

I. Detailed List of Publications

1. U.K. Das, I.C. Goyal & R. Srivastava, "Mode field radius of dispersion flattened single mode fibers", Optics Comm. (Netherlands), Vol. 61, pp.16–20, 1987.
2. U.K. Das, B.P. Pal & S.N. Sarkar, "Dependence of modal noise on the effective cutoff wavelength in the 1310 nm wavelength window", International Journal of Optoelectronics (UK), Vol. 3, pp.433–437, 1988.
3. A. Kumar, U.K. Das, R.K. Varshney & I.C. Goyal, "Design of a mode filter...", J. Lightwave Technology (USA), Vol. 8, pp.34–38, 1990.
4. B.P. Pal, U.K. Das & N. Sharma, "Effect of variation in cutoff wavelength...", J. Optical Comm. (West Germany), Vol. 10, pp.108–114, 1989.
5. R. Tewari, B.P. Pal & U.K. Das, "Dispersion shifted dual shape core fibers...", J. Lightwave Technology (USA), Vol. 10, pp.1–5, 1992.
6. U.K. Das, "Modal Noise in Dielectric Antenna", National Seminar, 2012.
7. Ashutosh Kumar & U.K. Das, "Analysis of optical fiber communication system...", Golden Research Thoughts, Vol. 3, pp.1–5, 2014 (ISSN 2231-5063).
8. Bhaskar Anand & U.K. Das, "The Fascinating Rainbows...", 103rd Indian Science Congress, Jan. 2016.
9. U.K. Das, "Role of ICT in Nation Building", International Seminar, 06–07 Dec 2016.
10. U.K. Das, "Green Wireless Communication and its Future", 104th Indian Science Congress, Jan. 2017.
11. Chandra Bhushan Kumar & U.K. Das, "Studies on Fiber Dispersion for Communication System", Review of Research, Vol. 6, Issue 10, July 2017 (ISSN 224-989X, Impact factor 3.8014).
12. Nutan Kumari & U.K. Das, "Non-linear effects in optical fiber – An overview", Communicated.
13. Nutan Kumari & U.K. Das, "Cross phase modulation and its applications in communication system", Communicated.
14. Prafulla Kumar & U.K. Das, "Studies on leaky mode losses in optical fiber", Communicated.

(Signature of the Teacher)