

CURRICULUM VITAE

NAME : **ANIL KUMAR NIRALA**

ADDRESS FOR

CORRESPONDENCE : Assistant Professor, Department of Applied Physics
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HOME PAGE : **<http://www.ismdhanbad.ac.in/depart/physics/faculty.htm#4>**

DATE OF BIRTH : 5th January, 1965.

NATIONALITY : Indian.

SEX : Male.

MARITAL STATUS : Married.

EDUCATIONAL RECORDS/QUALIFICATIONS:

Examinations	Name of Board / University/ Institute	Year of Passing/ Period (From-To)	Marks/ CGPA	Class/ Division	Main Subjects
Matriculation*	B.E.B. Board	1980	75.3%	First	Physics, Chemistry Maths., English, Hindi, Sanskrit.
I.Sc.**	Bhagalpur University	1980-1982	72.6%	First	Physics, Chemistry Maths., English, Hindi.
B.Sc. (Hons.)	Bhagalpur University	1982-1984	65.7%	First	Physics (Honours) Chemistry, Maths.
M.Sc.+	I.I.T. Delhi	1985-1987	7.66 CGPA	First	Physics.
Ph.D.**	I.I.T. Delhi	1987-1995	9.50 CGPA	First	Laser & Eletro-optics, Holography, Electronics.

Notes:

* :Distinctions Marks in Physics, Mathematics, Hindi & Sanskrit.

** :Distinctions Marks in Physics and Mathematics.

+ :Title of M.Sc.Project-“Chacterisation of single mode fibre through far field”.

++ :Title of Ph.D.thesis-“Laser speckle techniques for temperature profile measurement”.

PRESENT EMPLOYMENT

Designation : Assistant Professor
 Organisation : I.S.M.U. Dhanbad
 Date of Joining: 24/06/2003
 Pay Scale : Rs.12,000- Rs.18,300/-
 Basic Pay : Rs.14,100/-

TOTAL EXPERIENCE:

Teaching :Eighteen years
 Research :Thirteen years.

AREAS OF SPECIALISATION :Laser speckle techniques

CURRENT AREA OF RESEARCH : Biomedical Physics.

EMPLOYMNT(particulars of past positions):

S.No.	Employer	Position held	Date of joining	Date of living	Pay with Scale of Pay (Rs.)
1	M.U. Bodh Gaya	Lecturer	10/04/1991	23/06/2003	Basic-10,200 8000- 13,500

AWARDS AND HONOURS:

- a) Postdoctoral Visiting Researcher** :Optical Engineering Division of **Mechanical Engineering Lab.**, Agency of Industrial Science and Technology, Ministry of International Trade and Industry, Namiki 1-2, **Tsukuba 305, Japan.**
- Host Researcher :Dr. Koji Tenjimayashi, Director of Applied Physics & Information Science
- Advisor :Dr. Kiyofumi Matsuda.
- Topic :Optical distance and profile measurement with self calibrating environmental disturbances.
- Duration :11th October to 27th December, 1995.
 Funding Agency :Agency of Industrial Science and Technology(**AIST**) **Fellowship of Japanese Government.**
- b) Postdoctoral Visiting Fellow** :Length Standard, **N.P.L, New Delhi.**
- Host Researcher :Dr. Rina Sharma
- Topic :Development of high precision interferometer for measurement of optical path length using phase conjugate technique.

- Duration :1st January to 31st March, 1998.
- Funding Agency :Science and Engineering Research Council
(SERC) Fellowship of Department of Science & Technology of Indian Government.
- c) Postdoctoral Fellow** :Department of Assembly Technology and Factory Management, Institute for Machine Tools and Factory Management, **Technical University Berlin, IWF, PTZ-2, Pascalstrasse 8-9, D-10587 Berlin, Germany.**
- Host Researcher :Mr. Waldemar Grudzien
- Advisor :Prof. Dr.-Ing. Guenther Seliger
- Topic :Development of 3-D laser scanner.
- Duration :22nd March 1999 to 24th Sept.1999(Six month).
- Funding Agency :Better Opportunity for Young Scientists in Chosen Areas of Science and Technology
(BOYSCAST) Fellowship of Department of Science & Technology of India.
- d) Postdoctoral Fellow** :Applied Optics Group, School of Physical Sciences, **University of Kent at Canterbury, Canterbury, CT2 7NR, U.K.**
- Host Researcher :Dr. A. Podoleanu
- Advisor :Prof. (Dr.) D. A. Jackson
- Topic :Resolution Improvement of Optical Coherence Tomography Images by incorporating Adaptive Optics.
- Duration :14th Nov. 2003 to 14th May 2004 (Six month).
- Funding Agency :**Commonwealth Scholarship 2003.**
- e) Junior Research Fellowship (**JRF**) and Senior Research Fellowship (**SRF**) of **CSIR for doing Ph.D. at IIT Delhi.**
- f) **National Merit Scholarship** from I.Sc. (1980) to Graduation (Hons.) (1984).

COMPUTER SKILLS:

LANGUAGES :Fortran & C++.

SOFTWARES :MS Office (Microsoft Word, Outlook express, Power Point, Excel) Matlab, ENER Graphics, Systat, Origin, Word Perfect, Wordstar, Harward Graphics, Eureka: the solver, IRISTutor, Grapher-Surfer-Topo, Adobe Photoshop, etc.

OPERATING SYSTEMS :DOS, Windows, VME (Main Frame).

SYSTEMS USED :PCs, Power Macintosh, ICL 3980.

THESES (PH.D.) SUPERVISION:

Sl. No.	Name of Research Scholar	Year of Completion	Title of Theses	Co-guides (if any)
1	Chandra Shekhar Kumar	2005	Use of diffractive optical elements in speckle metrology and temperature measurement.	Nil
2	Santosh Kumar	2007	Engineering application of holo-lenses in speckle based measurement and localized temperature measurements.	Nil
3	Sulekha Kumari	Thesis submitted	Biomedical applications of Optical diagnostic techniques and Monte Carlo Simulation.	Nil
4	Md Zaheer Ansari	On-going	Biomedical applications Optical diagnostic techniques for study of Living Eye.	Nil

M. TECH. DISSERTATION:

Sl. No.	Name of Student	Year of Completion	Title of Theses	Co-guides (if any)
1	Md Zaheer	2008	Recording and study of aberration in a two hololens imaging system.	Nil

M. SC. DISSERTATIONS:

Sl. No.	Name of Student	Year of Completion	Title of Theses	Co-guides (if any)
1	Mithali Kumari Admn No.-9476 (2008)	2008	Image Plane Holography	Nil
2	Jyotiranjan Jena Admn No.-9390 (2008)	2008	HNDDT of Building Materials	Nil
3	Manjori Mukherjee Admn No.-10030 (2009)	2009	Recording and reconstruction of Transmission and Rainbow hologram	Nil

SPONSORED PROJECTS UNDERTAKEN :

S.No.	Period / Current Status	Sponsoring Organization	Project Reference No.	Title of Project	Amount of Grant (Rs)
1	1/8/2001 to 31/7/2004	UGC New Delhi	F.10-55/ 2001(SR-1).	Measurement of localized and overall temperature profile of an axisymmetric flame using laser speckle photography.	6.72 lacs
2	3/12/2007 to 2/12/2010.	DST New Delhi	SR/S2/LOP- 07/2005, Dated: 24/10/2007	Ultra High resolution Retinal imaging of Living Eye through Adaptive Optics.	39,902 Lacs

PUBLICATIONS:

No. of papers published in referred journals: 11.

No. of papers published in international seminars/conferences: 9.

No. of papers published in national seminars/conferences: 13.

MEMBERSHIP OF SCIENTIFIC / ACADEMIC SOCIETIES:

1. Life membership of (Journal of) Optical Society of India.
2. Life membership of Indian Science Congress Association.
3. Membership of SPIE :international society for optics and photonics (USA).

UGC REFRESHER COURSE:

Attended Three Weeks UGC sponsored Refresher Course in Physics from 22nd August to 11th September 2000 at UGC Academic Staff College, Banaras Hindu University Varanasi (UP).