



DESHBANDHU COLLEGE
(UNIVERSITY OF DELHI)
KALKAJI, NEW DELHI - 110019
Faculty Details Proforma for College Website

Titl e	Dr.	First Name	Anil	Last Name	Kumar	Photograph
Designation		Assistant Professor				
Address		H. No. 858, G. Puri, Phase-I, Near AIIA, Post office-Sarita Vihar, New Delhi- 110076				
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Residence Mobile		9213137820				
Email		akumar4@db.du.ac.in				
Web-Page		https://sites.google.com/db.du.ac.in/anil-kumar/home				
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		University of Delhi			2015	
M.Phil.						
PG		University of Delhi			2009	
UG		University of Delhi			2007	
Any other qualification						
Career Profile						
Teaching is my passion with the love of holistically educating today's youth. In my ten years of teaching experience, I have taught various papers related to Physics, Electronics and Instrumentation. Along with teaching I always encourage the students to get involved in research related activities so that they can contribute to the society in many ways in their future career.						
Administrative Assignments						
<ol style="list-style-type: none"> 1. Member IQAC Extended Committee (for NAAC Criterion-1) 2. Member IQAC Committee for College sign boards 3. Member Departmental NAAC Committee 4. Co-Convener Departmental Physics Society 5. Member Departmental Purchase Committee 						
Areas of Interest/Specialization						
<ol style="list-style-type: none"> 1. Electronics and Instrumentation 2. Integrated Optics and optical sensing 						
Subjects Taught						
<ol style="list-style-type: none"> 1. Digital Systems and Applications 2. Basic Instrumentation Skills 3. Renewable Energy and Energy harvesting 4. Analog Systems and Applications Lab 5. Waves and Oscillations Lab 						

Research Guidance

List against each head (If applicable):

1. Supervision of awarded Doctoral Thesis
2. Supervision of Doctoral Thesis, under progress
3. Supervision of awarded M.Phil. dissertations
4. Supervision of M.Phil. dissertations, under progress

Publications Profile

List against each head (If applicable) (as Illustrated with examples)

1. Books/Monographs (Authored/Edited):
2. Research papers published in Refereed/Peer Reviewed Journals

Research Publications in International Peer Reviewed Journals

[Analysis of graphene coated optical fiber for visible range refractive index sensing](#)

R Saini, A Kumar, M Kumar, MK Khanna, A Kapoor, G Bhatt Optics Communications 529, 129097

[Effect of High Index Buffer Layer in PbSe Clad Waveguide to Design a Visible Range Polarizer](#)

M Kumar, A Kumar, R Saini, MK Khanna, G Bhatt, A Kapoor Optik, 166001

[Lossy mode resonance-based refractive index sensor for sucrose concentration measurement](#)

R Saini, A Kumar, G Bhatt, A Kapoor, A Paliwal, M Tomar, V Gupta IEEE Sensors Journal 20 (3), 1217-1222

[Integrated optic TE/TM pass polarizers using resonant coupling between ITO thin film lossy modes and dielectric waveguide modes](#)

A Kumar, D Kumar, VK Sharma, A Kapoor Optics Communications 291, 247-252

[Enhancement in optical absorption of plasmonic solar cells](#)

YP Singh, A Kumar, A Jain, A Kapoor The Open Renewable Energy Journal 6 (1)

[Analysis of surface and guided wave plasmon polariton modes in insulator–metal–insulator planar plasmonic waveguides](#)

VK Sharma, A Kumar, A Kapoor Optics Communications 285 (6), 1123-1127

[High extinction ratio metal–insulator–semiconductor waveguide surface plasmon polariton polarizer](#)

VK Sharma, A Kumar, A Kapoor Optics Communications 284 (7), 1815-1821

[Spectral interrogation of ZnO thin film for lossy mode resonance sensors](#)

A Kumar, M Kumar, G Bhatt, MK Khanna, A Kapoor Advanced Science Letters 24 (2), 796-801

[Analysis of Silicon Clad Optical Waveguide for High Extinction Ratio TE/TM Pass Polarizers using Resonant Coupling between Guided Modes and Lossy Modes](#)

R Saini, M Kumar, A Kumar, G Bhatt, MK Khanna, A Kapoor

a) *Research papers published in Academic Journals other than Refereed/Peer Reviewed Journals - NA*

b) *Research papers published in Refereed/Peer Reviewed Conferences:*

- **Preparation of Mg-doped ZnO nanoparticles by Sol-gel method and their Optical & structural properties ISDRS 2013, December 11-13, 2013**

c) *Research papers Published in Conferences/Seminar other than Refereed/Peer Reviewed Conferences:NA*

3. *Other publications (Edited works, Book reviews, Festschrift volumes, etc.):*

- **Acted as Co-editor of a book titled “Balochistan: What world Needs to Know” ISBN No.- 978-93- 84835-10-1, Published by India Policy Foundation, 2016**

Conference Organization/ Presentations

List against each head(If applicable)

1. *Organization of a Conference:*

- **Organizing Committee Member of a Conference on E-Waste: Sustainability and Management during March, 2013 at BCAS, DU.**
- **Organizing Committee Member, in 5 days “Better Process Control School” at BCAS DU during March 2016.**
- **Co-Convener of two Workshops on ‘Robotics’ organized at BCAS, DU organized during 2014 and 2015 respectively.**
- **Organizing Committee Member of a two days Seminar on ‘Financial Literacy’ organized at BCAS, DU during April, 2022.**

2. *Participation as Paper/Poster Presenter*

- **Presented a poster on “Analysis Of ZnO Thin Film Based Refractive Index Sensor” in International Conference on Advances in Nanomaterials and Nanotechnology, 4 - 5 Nov, 2016, Jamia Millia Islamia, Article No. 298, Page No. 308, Proceeding ISBN : 978-93-85000-94-2**
- **Presented a poster on “Planar Dielectric Waveguides with Dual Resonance Nature ITO Claddings and their Applications” in First Indo-Canadian Symposium on Nano-Science and Technology, Feb. 20-21, 2013, NIE Mysore-08**

Research Projects (Major Grants/Research Collaboration)

NA

Awards and Distinctions

- **Research Fellowship award by University Grants Commission during 2011.**

Association With Professional Bodies

- **Life Member, (Vijnana Bharati) Vibha, A National Science Movement**

Other Activities

- **Invited as Judge for Dr Kalam Debate Competition 2019-10-15, organized by Space India (Space Technology & Education Pvt. Ltd.) at K.R. Mangalam World School, Gurugram**
- **Certificate of Appreciation for serving as Reviewer by Journal of Nanophotonics, SPIE during 2016-01-01**

Signature of Faculty
Member

- You are also requested to give your complete resume as a Word or PDF file to be attached as a link on your department page.