



Shivaji College Faculty Details Proforma

Title	Dr.	First Name	Gyanendra Krishna	Last Name	Pandey	Photograph
Designation	Assistant Professor					
Address	Department of Physics Shivaji College Raja Garden-110027					
Office Phone No.	011-25116644, 011-25155551					
Residence	CB-313, Naraina					
Mobile	9718379008					
Email	gkpandey@shivaji.du.ac.in					
Web-Page						
Educational Qualifications						
Degree	University/Institute				Year	
Ph.D.	Indian Institute of Technology Delhi				2017	
M.Tech.(Optoelectronics and Optical Communication)	Indian Institute of Technology Delhi				2012	
M.Sc, Physics	Patna University, Patna				2007	
B.Sc.(H) Physics	Jai Prakash University, Chapra				2004	
Any Other Qualification	CSIR UGC NET Dec.-2009. GATE-2010. JEST-2010.					
Career Profile						

<ol style="list-style-type: none">1. Taught in Electronics Department (Guest), Sri Aurobindo College, South Campus since August 2012 to February 2013.2. Taught in Physics Department (Guest) in Gargi College, since January 2013 to february 2013.3. Taught in Sri Venkateswara College Ad hoc), Electronics Department, South Campus since 26 feb. 2013 to 22 May 2015.4. Taught in Physics Department (Guest), Shivaji College since sept. 2015 to 6 March 20165. Teaching in Physics Department (Ad hoc) in Shivaji College since 7 March 2016 to till date
Administrative Assignments
NA
Areas of Interest/Specialisation
Computational Nanoplasmonics, Raman Plasmonics, Optoelectronics
Subjects Taught
Mechanics Electricity and magnetism Wave and Optics Modern Physics Electromagnetic Theory
Innovation Project/Research Projects (Major Grants/Research Collaboration)
NA
Publications Profile (Research Papers/Books)

1. Comparative study of thermoplasmonic effects of gold and silver metal nanoparticle, NK Pathak, P Sarathi, **G. K. Pandey**, (2021), *AIP Advances*, Vol-11, pp 045323, ; doi.org/10.1063/5.0046284
2. **A Perspective on Plasmonics within and beyond the Electrostatic Approximation**, NK Pathak, P sarthi, GK Pandey, RP Sharma, *Plasmonics*, DOI: [10.5772/intechopen.81038](https://doi.org/10.5772/intechopen.81038), Nov. 2018.
3. Study of geometry dependent Raman enhancement factor of a single biomolecule, GK Pandey, NK Pathak, RP. Sharma, 2018, *Advanced Materials Proceedings*, 3(3), 161-163.
4. Electromagnetic Study of Surface Enhanced Raman Scattering of Plasmonic-Biomolecule: An Interaction between Nanodimer and Single Biomolecule, GK Pandey, Nilesh Kumar Pathak, R.Uma, R. P. Sharma, 2017, *Solid State Communications*, DOI: 10.1016/j.ssc.2017.03.010.
5. Study of Surface Enhanced Raman Scattering of Plasmonic Coupled Biomolecule: Role of Multi-layered Nanosphere, GK Pandey, NK Pathak, R Uma, RP Sharma, 2017, *Plasmonics*, DOI:10.1007/s11468-017-0502-8.
6. Broadband Scattering with Strong Electric Field Coupling Between Metal Nanostructures Using DDA Simulation: Role of Different Organic Environment " H. Pathak, A Ji, NK Pathak, GK. Pandey, Prof, RP. Sharma, 2016 "Journal of Photo voltaic cell, AIEEE, 6(4), 1-12.
7. Study of external quantum efficiency of plasmonic coupled bilayer active device: influence of layer thickness and nanoparticle filling factor, NK Pathak, H Pathak, GK Pandey, A Ji, RP. Sharma *Applied Physics A*, 122 (12), Dec 2016. www.shivajicollege.ac.in Page 3
8. Study of Surface Enhanced Raman Scattering of Single Molecule Adsorbed on the Surface of Metal Nanogeometries: Electrostatic Approach", GK. Pandey, NK. Pathak, Alok ji, H. Pathak, Prof. R.P. Sharma, *Journal of Plasmonics*. DOI 10.1007/s11468-016- 0181-x.
9. NK. Pathak, GK. Pandey, Alok ji, Prof. R.P. Sharma "Study of light extinction and surface Plasmon resonances of metal Nano cluster: A comparison between coated and non-coated nano-geometry" *Journal of Plsmonics*. /s11468-015-9978-2. Conference/Seminar/Faculty Development Programme/Worksh

Conference/Seminar/Faculty Development Programme/Workshop

1. **2 week Faculty development programme** successfully completed which was organised by "Teaching Learning Centre Ramanujan College", University, sponsored by Ministry of Human resource development, Pandit Mdan Mohan Malaviya National Mission on Teachers and Teaching, from may 18 to June 3, 2020.
2. **1 week Faculty development programme** successfully completed which was organised by Teaching Learning Centre Ramanujan College, University, sponsored by Ministry of Human resource development, Pandit Mdan Mohan Malaviya National Mission on Teachers and Teaching, from june 23 to June 28, 2020.
3. Organising committee member of "National Conference on current and future perspectives in nanotechnology NANOWORLD-2018, 12-13th April, 2018, Organized by Department of Physics, Shivaji College, University of Delhi.
4. Participated in a workshop "Optics and Photonics: Theory and computational techniques (OPTCT) on 4-5th of march, 2017 organized by IIT Delhi.
5. Poster presentation in a conference "NANO INDIA 2017" Organized by IIT Delhi.
6. Oral presenatation in an international conference on nanomaterials and nanotechnology 1-3rd of march, 2017 organized by Vinoba Bhave research Institute, Saidabad, Allahabad, India.
7. Attended workshop on Embedded systems 15-16th of January, 2016 organized by Department of Physics and Electronics, Hansraj college, D.U.

8. Participated in "India international science festival" 4-8th December 2015, organised by Ministry of Science and Technology, Gov. of India and IIT Delhi, New Delhi.
9. Delivered in a Invited talk in a UGC sponsored seminar on Nano Science and Its application, 7-8th July, 2014 organized by Jagdam College, jai Prakash University Chapra.

Research Guidance (*Supervision of Doctoral Thesis/Dissertations*)

NA

Awards and Distinctions

NA

Memberships

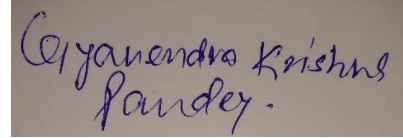
NA

Other Academic Activities

Cultural/Extracurricular Activities

1. Member "DISHA, the civil society" of Shivaji college.
2. Member, Internal complaint committee and sexual harassment.
3. Member, literary society+e-news letter(Bi-annual)
4. Co-opted member in the "Student advisory council", Shivaji College since 2017.
5. Co-opted member in the "Equal opportunity cell", Shivaji College since 2017.

Signature of Faculty Member



Gayanendra Krishna
Pandey.