




Shivaji College Faculty Details Proforma

Title		First Name		Last Name		Photograph
Dr.		SHIV SHANKAR		GAUR		
Designation	Assistant Professor					
Address	G137 F1 ,DILSHAD COLONY DELHI-110095.					
Office Phone No.						
Residence						
Mobile						
Email	<ul style="list-style-type: none"> • shivgaur11@rediffmail.com 					
Web-Page						
Educational Qualifications						
Degree	University/Institute			Year		
Ph.D.	University of Delhi			2007		
M.Phil./M.Tech.						
PG	Agra University			1993		
UG	Agra University			1991		
Any Other Qualification	M.Sc. (Process Instrumentation) from Roorkee University			1996		
Career Profile						
<ul style="list-style-type: none"> • To work a challenging and dynamic environment to keep adding value to myself and simultaneously contribute to the growth and success of the organization or institute. 						
Administrative Assignments						

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Areas of Interest/Specialisation

- Physics /Mathematical Physics and Computational Physics

Subjects Taught

- Mathematical Physics
- Mechanics
- Electricity and Magnetism
- Electromagnetic theory
- Thermal Physics
- Statistical Mechanics
- Waves and Optics
- Superconductivity
- Solid state Physics
- Quantum mechanics
- Classical mechanics
- Atomic and Molecular physics
- Nuclear physics
- Electronics and Digital Electronics

Innovation Project/Research Projects (Major Grants/Research Collaboration)

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Publications Profile (Research Papers/Books)

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R. Singh, A. K. Shukla, **S. S. Gaur**, P. Verma, P. Biswas and O. Rana, "COMPARISON OF THE RESULTS OF DIFFERENTIAL EQUATION BY ORDINARY METHOD AND EULER'S METHOD USING SCILAB", *Vidyabharati International Interdisciplinary Research Journal (Special Issue)*, 126-128 August, 2021, ISSN 2319-4979

Dr. Ravindra Singh, Dr. Ashok Kumar Shukla, **Dr. Shiv Shankar Gaur**, Dr. Priyanka Verma, Polly Biswas, Dr. Omwati Rana, "The Matrix Formulations and Algebraic Equations Using Scilab", *National Journal of Environmental and Scientific Research*, Vol-2, Issue-7, pp. 56-71, July 2021, E-ISSN-2582-5836. DOI - [10.53571/NJESR.2021.2.7.56-71](https://doi.org/10.53571/NJESR.2021.2.7.56-71)

Polly Biswas, Dr. Ashok Kumar Shukla, Dr. Ravindra Singh, **Dr. Shiv Shankar Gaur**, "The Study of Fermi-Dirac, Bose-Einstein and Maxwell-Boltzmann Distribution with Energy at Different Temperatures with Scilab Software", *National Journal of Environmental and Scientific Research*, Vol-2, Issue-6, pp. 53-59, June 2021, E-ISSN-2582-5836.

Ravindra Singh & **Shiv Shankar Gaur**, "Electron Acceleration by a Radially Polarized Laser Pulse in an Azimuthal Magnetic Field", *Journal of Atomic, Molecular, Condensate & Nano Physics*, Vol. 5, No. 2, pp. 149-157, March 2018, ISSN 2349-2716 DOI: [10.26713/jamcnp.v5i2.810](https://doi.org/10.26713/jamcnp.v5i2.810)

Ravindra Singh, Dharmendra Kumar, **Shiv Shankar Gaur** & Sandeep, "Effect of Laser Pulse Parameters and Initial Phase on the Acceleration of Electrons by a Circularly Polarized Gaussian Laser Beam under the Influence of Azimuth Magnetic Field", *International Journal of Advanced Scientific Research and Management*, Special Issue II, Oct 2018, ISSN 2455-6378 www.ijasrm.com

Ravindra Singh, Dharmendra Kumar, **Shiv Shankar Gaur** & Sandeep, "The Study of a Chirped Short Intense Laser Pulse In Vacuum in External Magnetic Field and The Variation of Field & Phase", KIET IJCE KIET *International Journal of Communications & Electronics*, Vol. 6, Issue No. 1, Jan-June 2018, ISSN 2320-8996

Dye-doped polymeric waveguides for Integrated Optics, Shiv Shankar Gaur, Karuna Ghawana, V K Sharma and K N Tripathi, *Journal of Optics A: Pure and Applied Optics*, Vol 6, PP 312-314, (2004)

Waveguiding properties of HNR-80 and HNR-120 photoresist films by prism coupling method, Shiv Shankar Gaur, Amit Pratap Singh, Avinashi Kapoor, and K. N. Tripathi, *Optical Engineering*, Vol. 43, PP 2129-2133, (2004).

Fabrication and characterization of dye-doped polymeric mode filter, Shiv Shankar Gaur, Karuna Ghawana and K. N. Tripathi, *Optical and Quantum Electronics*, Vol 37,9, PP 805-812(2005)

Waveguiding properties in SC 450 negative photoresist films Shiv Shankar Gaur, Amit Pratap Singh, Avinashi Kapoor, and K. N. Tripathi, *Optical Engineering*, (2005) Vol 44,PP124601-124604 (2005).

Characterization of ammonium dichromate doped PVA films based waveguides PoonamVashistha Shiv Shankar Gaur and K. N. Tripathi, Optical and Quantum Electronics, Vol 39,9, PP 717- 721(2007)

Electrochemical Sensitive Determination of Nanomolar Guanine from ZnO Nanorods Coated on Platinum Electrode Sanjeev K. Sharma, Narinder Kaur, Jasminder Singh, S. Sankar S. S. Gaur, Sejoon Lee, DeukYoung Kim, Narinder Singh, and Harpreet Singh *Electroanalysis* [Volume 27, Issue 11](#), pages 2537–2543, November 2015

Conference/Seminar/Faculty Development Programme/Workshop

- Participated in one day workshop on **Astrophysics cosmology and Computation** organized by department of Physics Shivaji College on 12th February 2016.
- Participated in one day workshop organized by department of Physics Shivaji College on 31st January 2017.
- Organizing committee member of National Conference on Current and Future Perspectives in Nanotechnology “ **Nanoworld-2018**” organized by Department of Physics Shivaji College (**University of Delhi**).
- Participated as an Organizer of annual departmental fest INVENIO two days held in Shivaji College University of Delhi on 30 and 31 March, 2017.
- As a resource person in inspire science camp held from 13.12.2015 to 19.12.2015 at Shivaji College , conducted by Department of Science and Technology **DST**.

Research Guidance (Supervision of Doctoral Thesis/Dissertations)

Awards and Distinctions

Memberships

Semiconductor society of india
Associate members of institute of engineers

Other Academic Activities

- A certificate course in **MATLAB** with **Numerical Techniques** in **PHYSICS & MATHEMATICS** from an ISO 9001:2008 certified company.
- **SCILAB** programming & Numerical Techniques .
- **MATHEMATICA** programing
- A certificate course in **MS-Word ,MS-Excel ,MS-Dos PowerPoint Internet Explorer and Email** etc. from **University of Delhi**.
- **PASCAL** Programming through Physics.
- **C, C+ and C++** programming through Physics.

Cultural/Extracurricular Activities

- Took part in different committees of the college such as discipline committee ,college development committee and physics society NAAC committee etc.

Signature of Faculty Member