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**DEPARTMENT OF PHYSICS**

**Dayanand Vedic College, Orai (Jalaun), U.P.-285001 (India)**

**Faculty Profile**

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| **Name** | | | **:** | **ANGAD SINGH KUSHWAHA** |  |
| **Date of Birth** | | | **:** | **03/04/1992** |
| **Designation** | | | **:** | **Assistant Professor** |
| **Employee ID** | | | **:** | **N/A** |
| **Department** | | | **:** | **Physics** | |
| **Date of Joining** | | | **:** | **23/03/2019** | |
| **Teaching Experience** | | **UG** | **:** | **05 Years 01 Months 07 Days** | |
| **PG** | **:** | **NIL** | |
| **Educational Qualification**  **(UG Onwards)** | | | **:** | **B.Sc. , M.Sc., Ph.D.** | |
| **Ph.D. (Topic & University)** | | | **:** | ***A Study of Surface Plasmon Resonance (SPR) Based Biosensors Using Different Types of Materials.***  **Banaras Hindu University, Varanasi.** | |
| **Research Area/Specialization** | | | **:** | **Optoelectronic Sensors, SPR sensors** | |
| **Ph.D. Supervised/Ongoing** | | | **:** | **NIL** | |
| **Organized Seminar/Workshop/FDP(State/National/International)** | | | **:** | **NIL** | |
| **Contact Details** | **Residential Address** | | **:** | **D V College Road, New Ramanagar, Orai (Jalaun) 285001.** | |
|  | **Contact No.**  **Email Id** | | **:**  **:** | **7007078270**  [**angadsingh525@gmail.com**](mailto:angadsingh525@gmail.com) | |

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| **Research Project** | **Completed** | **N/A** |
| **Ongoing** | **N/A** |
| **Research Contributions** | **Research Paper** | 1. A Study of Improved Bimetallic Graphene Based Fiber Optic Surface Plasmon Resonance (FOSPR) Biosensor. **Plasmonics**, 2022 2. A comparative study of different types of sandwiched structures of SPR biosensor for sensitive detection of ss-DNA. **Photonics and Nanostructures Fundamentals and Applications**, 2022 3. A comparative study among WS2, MoS2 and graphene based surface plasmon resonance SPR sensor.**Sensors and Actuators Reports**, 2020 4. Enhancement in sensitivity of graphene-based zinc oxide assisted bimetallic surface plasmon resonance SPR biosensor. **Applied Physics A**, 2018 5. Zinc oxide, gold and graphenebased surface plasmon resonance SPR biosensor for detection of pseudomonas like bacteria A comparative study. **Optik**, 2018 6. A study of surface plasmon resonance SPR based biosensor with improved sensitivity. **Photonics and Nanostructures Fundamentals and Applications**, 2018 7. Study of one-dimensional nanolayered graded photonic crystal consisting of birefringent and dielectric materials. **Photonics and Nanostructures Fundamentals and Applications**, 2017 8. Study of Tunable Ternary Layer Photonic Crystal for Terahertz Application. **Journal of Nanoelectronics and Optoelectronics**, 2015 9. One-dimensional nano layered SiC/TiO2 based photonic band gap materials as temperature sensor. **Optik**, 2015 |
| **Books/ Edited Books** | 1. Newtonian Mechanics, **Krishna Prakashan Media Pvt Ltd, Meerut**, 2022 2. Semiconductor Devices,**Krishna Prakashan MediaPvt Ltd, Meerut**, 2022 3. Mathematical Physics, **Krishna Prakashan Media Pvt Ltd, Meerut**, 2021 |
| **Chapter in Edited Books/ Paper in Proceedings** | 1. Recent Trends in Atomic, Molecular and Optical Physics, **Luminous Books, Bhadaini, Varanasi**, 2015 |
| **Seminars/ Conferences /Webinars** | 1. Adventures with Black holes, **Lucknow University**, 2020. 2. DAE-BRNS National Laser Symposium(NLS-26), **BARC Mumbai**, 2017. 3. Nationalconferenceon current trends in physics-II, **BHU Varanasi**, 2017. 4. International Conference onAdvances in Light Technologies and spectroscopy of Materials, **Lucknow University**, 2016. 5. 6th IJAA-JSPS Internationalconference on Contemporaryadvances of science and technology, **BHU Varanasi,**2015. 6. National seminar on recent advancesin Physical Sciences,**Udai Pratap AutonomousCollege, Varanasi**, 2015. |
| **Orientation/FIP/ Refresher/ Workshop/Symposium/STP/FDP** | 1. UGC-HRDC, *University of Allahabad*, **3rd Faculty Induction Programme**, (28/01/2021 to 26/02/2021). 2. Centre for Professional Development in Higher Education (UGC-HRDC) *University of Delhi*,**2 Weeks Refresher Course in Physics (SRC)**, (04/10/2021 to 18/10/2021). 3. **7 days Online Workshop on Research Methodology for Multidisciplinary Perspectives of Physics**,*Deen Dayal Upadhyay Gorakhpur University, Gorakhpur*, (29/06/2021-05/07/2021). |
| **E-Content/ MOOCs/Others** | 1. PDF materials |
| **Awards/Honours/ Recognitions** | | 1. **CSIR NET, CSIR-UGC-NET JRF** 2. **GATE** |
| **Any Other Relevant Information** | | 1. **Reviewer of various reputed international journals.** |

**Faculty Signature**