

Dr. Mukesh Rawat
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PHYSICS DEPARTMENT
Dr. P.D.B.H. GOVT. P.G. College Kotdwar
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PERSONAL PROFILE:

- D.O.B.- 31/01/1987
- I am highly motivated and top performing Physics faculty with over 4+ years of teaching experience in teaching Physics.
- Communicating effectively with the students to support advance educational goals (in the field of research and applied physics).
- Highly oriented toward the advance research in the field of experimental condense matter physics.

EDUCATIONAL HISTORY:

- 2018- Ph.D Degree Awarded HNBGU Central University Titled “*PHASE TRANSITION STUDY OF UNDOPED AND DOPED ZIRCONIUM OXIDE THIN FILMS UNDER HEAVY ION IRRADIATION*”.
- 2011- M.Sc. in Physics from Maharaja Sayajirao University Baroda Gujarat (Electronics and Radio Physics).
- 2009- B.Sc. Honors from Maharaja Sayajirao University Baroda Gujarat.

PROFESSIONAL APPOINTMENTS:

- 2021- Present- Assistant Professor in P.D.B.H. Govt. P.G. College Kotdwar.
- 2018- Assistant Professor in P.G. College Gopeshwar Chamoli.
- 2017- Visiting lecturer in HNBGU Tehri Campus.
- 2015 -SRF in BRNS (Board of Research in Nuclear Sciences) Project Titled “*A Comparative Study Among different Techniques of Radon/Thoron Progeny Measurements in Normal and High Background Radiation Areas*”.
- 2012- JRF in BRNS (Board of Research in Nuclear Sciences) Project Titled “*A Comparative Study Among different Techniques of Radon/Thoron Progeny Measurements in Normal and High Background Radiation Areas*”.

PUBLICATIONS:

- 2021- “*Annealing Effects on Gas Sensing Response of Ga-Doped ZnO Thin Films*” , RC Ramola, S Negi, **M Rawat**, RC Singh, F Singh, *ACS omega*.
- 2019- “*Micro-Raman investigations on zirconium oxide film during swift heavy ion irradiation to study crystalline-to-crystalline phase transformation kinetics by cascade overlap model*” F Singh, **M Rawat**, SK Gautam, S Ojha , **Journal of Applied Physics**.
- 2017- “*Study of phase transformation induced by electronic excitation in pure and yttrium doped ZrO₂ thin films*” RC Ramola, **M Rawat**, K Joshi, A Das, SK Gautam, **Materials Research Express**.
- 2016- “*Band gap widening and narrowing in Cu-doped ZnO thin films*” K Joshi, **M Rawat**, SK Gautam, RG Singh, RC Ramola , **Journal of Alloys and Compounds**.
- 2016- “*Micro-Raman and electronic structure study on kinetics of electronic excitations induced monoclinic-to-tetragonal phase transition in zirconium oxide films*” **M Rawat**, A Das, DK Shukla, P Rajput, A Chettah, **RSC advances**.

SEMINARS/CONFERENCES/WORKSHOPS:

- 2019 - National Seminar “Quality Enhancement in NAAC Perspective” organized by IQAC Govt. P.G.College Gopeshwar (Chamoli).
- 2015 - CSR Lecture Series-I held at UGC-DAE Consortium for Scientific Research, University Campus, Khandwa Road, Indore (M.P.)
- 2014 – Poster Presentation in International Conference on “Swift Heavy Ions in Materials Engineering and Characterization (SHIMEC 2014)” held at IUAC New Delhi.
- 2014- International School on “Ion Beams in Materials Sciences (IBMS 2014)” held at IUAC, New Delhi.
- 2014- Two Days National Workshop on Ion Beam Induced Growth and Engineering of Materials, held at Kurukshetra University.
- 2014- National Conference on Nanotechnology and Renewable Energy, held at Faculty of Engineering and Technology, Jamia Millia Islamia , New Delhi.

LANGUAGE AND ADDITIONAL SKILLS:

- Hindi (Mother Tongue) and English.
- Additional Skills- An Effective Motivator to Harness the Potential of Students.
- Adept in Designing Questionnaires, Conducting Survey/Interviews for Gathering Public Opinion.
- An Effective Communicator.