

BIODATA



Name: RAVINDER KOUR

Father's Name: Sh KUNDAN SINGH

Residential Address: SawanChak, Ward No.14, Kathua

Educational Qualification: M.Sc in Physics with Distinction

Specialization: Solid State Physics

Date of Appointment: 13-10-2005

Designation: Associate Professor in Physics

Date of Posting in GDCW Kathua: 20-10-2017

Orientation/Refresher Courses/FDPs/STCs

- 1 Attended UGC sponsored **Orientation Course** conducted by UGC-ASC University of Jammu, Jammu with effect from 05-10-2007 to 01-11-2007.
- 2 Attended 3 week UGC sponsored interdisciplinary **Refresher Course in Environmental Science** conducted by UGC-ASC University of Jammu, Jammu with effect from 30-11-2011 to 21-12-2011.
- 3 Attended 3 week UGC sponsored **Refresher Course in Physics** conducted by UGC-ASC University of Jammu, Jammu with effect from 11-02-2013 to 02-03-2013.
- 4 Attended 3 week UGC sponsored **Refresher Course in Physics** conducted by UGC-ASC University of Jammu, Jammu with effect from 02-02-2015 to 21-02-2015.
- 5 Attended 3 week UGC sponsored **Refresher Course in Physics** conducted by UGC-ASC University of Jammu, Jammu with effect from 03-08-2017 to 23-08-2017.
- 6 Participated in the “**Translators Orientation Programme for Knowledge Text Translation (Dogri)**” organized by National Translation Mission in collaboration with Government College for Women, Udhampur with effect from 11-09-2012 to 15-09-2012.
- 7 Completed Five days FDP in “**Emerging Technologies based upon Digital Teaching System**” Organized by NIELIT, Jammu from 10-02-2020 to 14-02-2020.

- 8 Participated in the **Two-Week Online Capacity Building Programme for Faculty Members and Research Scholars** organized by Alagappa University under the sponsorship of UGC STRIDE Component--I Scheme from 12th June 2020 to 23rd June 2020.
- 9 Attended three days online FDP on **“SCIENTIFIC COMMUNICATION FOR RESEARCH PAPER AND PROPOSAL WRITING”** Organized by Department of Information Technology, PSG College of Technology, Coimbatore during **1-3, July 2020**.
- 10 Participated in a short term course on **“Materials Characterization Techniques”** conducted as a part of quality improvement program, organized by the Department of MEMS, IIT Indore from 22nd to 27th March, 2021.

Workshops/Seminars/Conferences

- 1 Participated in the UGC sponsored sensitization workshop on “Capacity Building of Women Managers in Higher Education” organized by the Centre for Women’s Studies University of Jammu, Jammu with effect from 28-08-2006 to 02-09-2006.
- 2 Presented a paper in 2nd National Conference on **“Role of Mathematics and Computer Science in Advancement of Physics”** organized by Department of Physics, GDC Kathua on 10-11 Nov., 2017.
- 3 Attended One Day Workshop on **“Online Procurement Through Government e-Market Place (GeM)”** Organized by G.G.M. Science College, Jammu on Dec.20, 2017.
- 4 Participated in One Day Workshop cum training Program on **“Entrepreneurship Skill Development”** organized by GDCW Kathua in collaboration with JKEDI, Kathua on Jan.17, 2018.
- 5 Presented a poster in a National Conference on **“Recent Advances in Experimental and Theoretical Physics”** organized by Department of Physics and Astronomical Sciences, CU Jammu on April 17-18, 2018.
- 6 Presented a paper in a National Level Seminar on **“Science & Technology for the unreached; Notions, Values and Applicability”** organized by GDC Samba under the aegis of Indian Science Congress Association from April 20-21, 2018.

- 7 Attended One Day Workshop on “**NAAC Assessment and Accreditation Awareness Programme**” organized by Directorate of IQAC, University of Jammu in collaboration with CU Jammu and supported by NAAC Bengaluru on 27th Aug., 2018.
- 8 Presented a paper in an international conference on “**Recent Advances in Inter disciplinary Sciences**” organized by Department of Electronics, University of Jammu in collaboration with IEEE EDS Delhi Chapter and IETE Jammu centre on 11-12 Jan., 2019.
- 9 Attended “**6th J&K Women Science Congress**” held at Govt. P.G. College for Women, Gandhi Nagar, Jammu on 26-28 February, 2019.
- 10 Presented a paper in “**2ND Session of J&K Science Teachers Congress**” organized by G.G.M. Science College, Jammu on 25-27 March 2019.
- 11 Attended one day **National Seminar** organized by Department Of Urdu, Kathua on 23rd March, 2019.
- 12 Presented a paper in an international conference on “**Advancement in Engineering Sciences**” Organized by School of Electronics & Communication Engineering SMVDU Katra on 28-29 Sept. 2019.
- 13 Attended the International Webinar on “**Passive and Active Hyperbolic Metamaterials and their Applications**” organized by Department of Physics, SRM Institute of Science and Technology, Ramapuram Campus, Chennai on 26th May 2020.
- 14 Participated in the Webinar Series on “**Strategies for Leading the Change: Post COVID19 Response of India** “ held by Institute of Public Enterprise, Hyderabad, Shri Mata Vaishno Devi University, Katra, Jammu & Kashmir and Bhartiya Shikshan Mandal, Nagpur on 30th May, 2020.
- 15 Participated in Webinar “**How the COVID-19 will Effect Children’s Mental Health**” Organized by Department of Computer Sciences, in collaboration with IQAC, Govt. S.P.M.R. College of Commerce, Jammu on 1st June 2020.
- 16 Participated in the “**One Day International Webinar on Advances in Materials Science**” organized by the Directorate of Distance Education & Department of Physics, Alagappa University, Karaikudi on 10th June, 2020 .

- 17 Participated in the "**RECENT APPROACHES AND HUMAN GENES AGAINST COVID 19**" organized by the DDE ZOOLOGY WING & DEPARTMENT OF ANIMAL HEALTH MANAGEMENT, Alagappa University, Karaikudi on 11-06-2020 .
- 18 Attended a "**Virtual Symposium on Multifunctional Materials**" organized by Department of Physics, SRM Institute of Science and Technology, Ramapuram Campus, Chennai on 17th June 2020.
- 19 Attended one day Webinar on "**Issues, Challenges and Career Opportunities during and Post COVID-19**" organized by Govt. Degree College for Women, Kathua on 26th June, 2020.
- 20 Participated in the Webinar on "**Technical and Academic Writing**" organised by the STRIDE CELL, Alagappa University, Karaikudi on 26th June, 2020 .
- 21 Participated in a Webinar on "**Beyond Bias: Empowering Women for Sustainable growth**" organized by Birla Global University on 27th June, 2020.
- 22 Participated in the **One Day Webinar on "Data Science-the fastest growing tech occupations"** organized by the Department of Computer Applications, GDC Kishitwar on 28th June ,2020 .
- 23 Attended the National Web Conference on "**Synthesis and Characterization of Novel Materials**" on 6th & 7th July ,2020 organized by PG & Research Department of Physics, Muthurangam Govt. Arts College (A), Vellore-632002.
- 24 Participated in the Webinar "**Recent Applications in Fiber Optical Communication**" organized by Department of Electronics and Communication Engineering, Arasu Engineering College, Kumbakonam on 13th July, 2020 through online pedagogy.
- 25 Attended online webinar on "**Industry 4.0 and Robot Applications**", organized by Department of Mechanical Engineering, Francis Xavier Engineering College, Tirunelveli on 13th July, 2020.
- 26 Participated in the online International webinar on "**Super capacitors** " by Dr. Libu Manjakkal, University of Glasgow, U K organized by the Department of Physics, Christ College (Autonomous) Irinjalakuda on 03rd Aug. 2020 (11.30 - 12.30, IST)

- 27 Participated in the Webinar “**Coal Fundamentals and Utilization**” organized by the Department of Mechanical Engineering, Francis Xavier Engineering College, Tirunelveli on 15th Aug. 2020.
- 28 Participated in short termcourse on “**Materials Characterization Techniques**” conducted as a part ofquality improvement program, organized by the Department of MEMS, IITIndore from March 22nd to 27th, 2021.
- 29 Actively participated in National Skill India Program on “**Advanced Materials for Next Generation Devices**” jointly organised by Department of Physics, SRM Institute of Science and Technology, Ramapuram Campus, Chennai and CSIR – Advanced Materials and Processes Research Institute (AMPRI), Bhopal on 30.07.2021
- 30 Participated in One Week Online Faculty Development Program on “**Incorporating Universal Human Values in Education**” from 18-22 August,2021 organized by Shri Mata Vaishno Devi University, Katra.
- 31 Participated in Two Week Online International Faculty Development Programme on “**Advanced Computational and Experimental Research in Physics-2021**” from 13-25 September,2021 organized by SRM Institute of Science & Technology, Ramapuram Campus, Chennai.
- 32 Participated in National Skill India Program on “**Advanced Materials for Next Generation Devices**” on 30-07-2021 organized by SRM Institute of Science & Technology, Ramapuram Campus, Chennai and CSIR -Advanced Materials and Processes Research Institute, Bhopal.
- 33 Participated in One Week Faculty Development Programme on “**Innovations in Applied Research for Science and Technology**” from 11-18 October,2021 organized by organized by Department of Basic Science and Humanities, KDKCE Nagpur in association with Indian Association for Radiation Protection (IARP), Luminescence Society of India (LSI) & Society for Technologically Advanced Material of India (STAMI) from 11th to 18th October 2021.
- 34 Organized Two Day National Seminar on “**Swatantrata Sangram Aur Hindi Sahitya**” in collaboration with Jammu and Kashmir Rashtra Bhasha Prachar Samiti, Jammu on 28-29th March,2022 as Organizing Secretary in the college.

Books

- 1 Authored a text book "**Mechanics, Oscillations and Relativity**" consisting of 309 Pages published by Vinesh Jain, S. Vinesh & Co., Near Sitla Mandir, Circular Road, Mai Hiran Gate, Jalandhar-144008 in July, 2018.

ISBN: 978-93-87959-14-9

- 2 Authored a text book "**Vector Calculus, Electrostatics and Electromagnetic Waves**" consisting of 280 Pages published by Vinesh Jain, S. Vinesh & Co., Near Sitla Mandir, Circular Road, Mai Hiran Gate, Jalandhar-144008 in Jan. 2019.

ISBN: 978-93-87800-15-9

- 3 Authored a text book "**Electronics, Thermodynamics & Statistical Mechanics**" consisting of 359 Pages Vinesh Jain, S. Vinesh & Co., Near Sitla Mandir, Circular Road, Mai Hiran Gate, Jalandhar-144008 in July 2019.

ISBN: 978-93-88976-55-8

Research Publications

- 1 Published a research paper titled "**X-ray study of crystal 1-Methyl-5-phenyl-1,3,3a,4,5,5a,11a,11b-hexahydro-2,6-dioxo-1,5-diaza-cyclopenta[a]anthracen-11-one and its weak interactions.**" with Priyanka Kanwal, Ravinder Kour, Akhil Bandhoria, Ashok Kumar and Pankaj Bandhoria in Journal of Biosphere, 7, 2018, 39-43
ISBN NO. 2278 – 3342.

- 2 Published a research paper titled "**Potential Substitutes for Replacement of Lead in Perovskites Solar Cells: A Review**" with Ravinder Kour, Sandeep Arya, Sonali Verma, Jyoti Gupta, Pankaj Bandhoria, Vishal Bharti, Ram Datt and Vinay Gupta in Global Challenges, Vol. 3 (11) (2019) 98-104, 1900050.

DOI: 10.1002/gch2.201900050 ISBN NO. 2056-6646. Impact Factor-4.306

- 3 **Published a research paper titled** "Comparative study of CuO, CuO@Ag and CuO@Ag:La nanoparticles for their photosensing properties" with Sandeep Arya, Prerna, Anoop Singh and Ravinder Kour in Materials Research Express, 6(11)(2019)116313 <https://doi.org/10.1088/2053-1591/ab49ab>

ISBN NO. 2053-1591 Impact Factor-1.41

- 4 Published a research paper titled "**Crystallographic structure analysis of 2,7-dimethyl-3-chloro-4H-pyrido[1,2-a]pyrimidin-4-one**" with Priyanka

Kanwal,RavinderKour,HansRaj,Rakesh Sharma and Pankaj BandhoriainAIP Conference Proceedings 2220, 060012 (2020); <https://doi.org/10.1063/5.0002354>
ISBN NO. 978-0-7354-1976-6 Impact Factor-0.06

- 5 Published a research paper titled “**Review-Recent Advances and Challenges in Indium Gallium Nitride (In x Ga 1-x N) Materials for Solid State Lighting**”withRavinder Kour, Sandeep Arya, Sonali Verma, Anoop Singh, Purna Mahajan and Ajit Khosla inECS Journal of Solid State Science and Technology,9,2019. DOI: 10.1149/2.0292001JSSISBN NO. 2162-8769 Impact Factor-2.142
- 6 Published a research paper titled“**Review-Recent Advances in carbon Nanomaterials as Electrochemical Biosensors**” with Ravinder Kour, Sandeep Arya, Sheng-Joue Young, Vinay Gupta, Pankaj Bandhoria and Ajit Khosla inJournal of electrochemical Society,167,3,2020. <https://doi.org/10.1149/1945-7111/ab6bc4>
ISBN NO. 0013-4651 Impact Factor-4.312

Board of Studies Meeting

- 1 Attended meeting of **Board of Studies in Physics** at University of Jammu On 24th Jan., 2018 and framed syllabi of Sem six CBCS.