

BIODATA



Name: RAVINDER KOUR

Residential Address: Sawan Chak, Ward No.14, Kathua

Educational Qualification: M.Sc in Physics with First Position

Designation: Associate Professor in Physics

Date of Posting in GDC Kathua : 01-11-2023

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, Udampur 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 Meta materials 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 COVID19**" organized by the DDE ZOOLOGY WING & DEPARTMENT OF ANIMAL HEALTH MANAGEMENT, Alagappa University, Karaikudion 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**" organized 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 Kishtwar 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 term course on “**Materials Characterization Techniques**” conducted as a part of quality improvement program, organized by the Department of MEMS, IIT Indore 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 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.

- 35 Presented a paper on “**The Impacts of Climate Change on Human Health**” in the one day National seminar on “Climate change and disaster risk reduction: Making sustainability a way of life” organized by Govt. Degree College for Women, Kathua on 19-05-2023.
- 36 Delivered a poster presentation on “**Physics and Yoga; its relationship**” in Two Day International Conference on Health, Fitness, Yoga & Sports Science held at GDC, Kathua on 5th -6th March 2024.
- 37 Participated in **IP Awareness/Training program under NIPAM** on April 10, 2023 organized by Intellectual Property Office, India.
- 38 Participated in the “**National Seminar on Materials Science and Engineering (NSME-2023)**” on 27 Oct. 2023 organized by Department of Physics, SRM Institute of Science and Technology, Ramapuram Campus, Chennai.
- 39 Participated in the Conference on "**Implementation of NEP 2020**" in HEIs under the UTs of Jammu & Kashmir and Ladakh organised by UGC in collaboration with the Indian Institute of Management Jammu (IIM Jammu), on 23rd February, 2024 at IIM Jammu, NH 44, Jagti, Jammu.
- 40 Participated in 8-Days Online Training Program, "**NEP Orientation & Sensitization,**" w.e.f. 16th to 23rd March, 2024 organized by the UGC-Malaviya Mission Teacher Training Centre-SMVDU.

Books Published

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 359Pages Vinesh Jain, S.Vinesh & Co., Near Sitla Mandir, Circular Road, Mai Hiran Gate, Jalandhar-144008 in July 2019.**ISBN: 978-93-88976-55-8**
4. Authored a text book “**A Text Book of Mechanics**” by Vinesh Jain, S. Vinesh & Co., Near Sitla Mandir, Circular Road, Mai Hiran Gate, Jalandhar-144008 in 2022.**ISBN: 978-93-**

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5. Authored a text book “**A Text Book of Kinematics**” by Vinesh Jain, S.Vinesh & Co., Near Sitla Mandir, Circular Road, Mai Hiran Gate, Jalandhar-144008 in 2022. **ISBN: 978-93-90638-11-6**
6. Authored a text book “**Mechanics, Oscillations and Theory of Relativity**” consisting of 284 Pages published by Vinesh Jain, S.Vinesh & Co., Near Sitla Mandir, Circular Road, Mai Hiran Gate, Jalandhar-144008 in July , 2022. **ISBN: 978-93-90638-46-8.**
7. Authored a Practical Manual in “**Mechanics**” by Vinesh Jain, S.Vinesh & Co., Near Sitla Mandir, Circular Road, Mai Hiran Gate, Jalandhar-144008 in 2022. **ISBN: 978-93-90638-40-6.**
8. Authored a text book “**A Text Book of Electrostatics and Magnetism**” Major Course published by Vinesh Jain, S.Vinesh & Co., Near Sitla Mandir, Circular Road, Mai Hiran Gate, Jalandhar-144008 in March , 2023 **ISBN: 978-81-959299-6-2.**
9. Authored a text book “**A Text Book of Electromagnetism**” Minor Course published by Vinesh Jain, S.Vinesh & Co., Near Sitla Mandir, Circular Road, Mai Hiran Gate, Jalandhar-144008 in March , 2023. **ISBN: 978-81-959299-4-8.**
10. Authored a Practical Manual in “**Electricity and Magnetism**” by Vinesh Jain, S.Vinesh & Co., Near Sitla Mandir, Circular Road, Mai Hiran Gate, Jalandhar-144008 in March 2023, **ISBN: 978-93-89800-88-3.**
11. Authored a text book “**A Text Book of Heat and Thermodynamics**” Major Course published by Vinesh Jain, S.Vinesh & Co., Near Sitla Mandir, Circular Road, Mai Hiran Gate, Jalandhar-144008 in August , 2023, **ISBN: 978-93-5948-005-3.**

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 Perovskite Solar Cells: A Review**” *with* Ravinder Kour, Sandeep Arya, Sonali Verma, Jyoti Gupta, Pankaj Bandhoria, Vishal Bharti, RamDatt 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: Lananoparticles for their photo sensing 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, Ravinder Kour, Hans Raj, Rakesh Sharma and Pankaj Bandhoria in AIP 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” with Ravinder Kour, Sandeep Arya, Sonali Verma, Anoop Singh, Prerna Mahajanand Ajit Khosla in ECS Journal of Solid State Science and Technology,9,2019. DOI: 10.1149/2.0292001JSS ISBN 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 in Journal of electrochemical Society,167, 3,2020. https://doi.org/10.1149/1945-7111/ab6bc4 ISBN NO. 0013-4651 Impact Factor-4.312**

