

CURRICULUM VITAE

- 1- **NAME** : Prof. (Dr.) Sumita Srivastava
2- **FATHER'S NAME** : Sri V.K. Srivastava
3- **PRESENT ADDRESS** : Principal and Professor of Physics,
Radhey Hari Government Post Graduate
College, Kashipur, Udham Singh Nagar,
Uttarakhand
4- **PHONE NUMBER** : Mobile- 8077919619
E-Mail : sumita_uki1@rediffmail.com
5- **ACADEMIC QUALIFICATIONS** : B.Sc. (Hons), M.Sc. (BHU Gold Medal) Ph.D.

S.N.	Examination	Board/Univ.	Year of Passing	Subjects	% of marks	Position
1	High School	U.P.Board	1988	Science,Math S.Science,Hindi, English	73.7	
2	Intermediate	U.P.Board	1990	Physics,Chemistry, Math,Hindi, English	71.0	
3	B.Sc.(Hons)	BHU	1993	Physics(Hons), Chemistry, Math	78.7	3 rd
4	M.Sc.	BHU	1995	Physics	83.8	1 st BHU GOLD MEDAL
5	Ph.D.	HNBGU	2007	Physics		

6- OTHER QUALIFICATIONS:

1. Qualified CSIR NET – JRF (1995) in Physical Science,
2. Qualified GATE 1995 in Physics with score 95.54% and all India Rank 71st

7-DISTINCTIONS/PRIZES/MEDALS/AWARDS/HONOURS:

- i. ‘Principal of the Year Award 2023’ by Divya Himgiri Foundation, Uttarakhand, India.
- ii. ‘Excellence in Research of the Year Award 2021’ by Divya Himgiri Foundation, Uttarakhand, India.
- iii. InSc ‘Research Excellence Award 2021’ by Institute of Scholars, Bengaluru, India.
- iv. Nari Shakti Ratan Award for Education Services by The International Association of Lions Clubs, District 321-C1, Rishikesh on 08.03.2019.
- v. Vice-president of Indian Association of Physics Teachers, Uttarakhand Chapter from 2011-2017.

- vi. Regular Reviewer in ‘International Journal of Hydrogen Energy’, ‘Materials Research Bulletin’, ‘Journal of Alloys and Compounds’, ‘Central European Journal of Chemistry’, ‘International Journal of Renewable Energy Research’, “International Journal of Energy Research” and ‘International journal of basic and applied sciences’, Macromolecular symposia.
- vii. 3rd rank in the selection of ‘Lecturers through UP Higher Education, Allahabad in 1999.
- viii. 1st rank in the selection of ‘Lecturer through UPPSC, Allahabad’ 1998.
- ix. Prof.Motilal Rustgi Scholarship for standing 1st in M.Sc.I Physics examination.
- x. Prof. B.Dayal Gold Medal for securing highest marks in M.Sc. Physics examination 1995.
- xi. BHU Medal for standing 1st in M.Sc. Physics examination 1995.
- xii. Certificate for standing 1st in B.Sc.(hons) examination 1993 in MMV, BHU.
- xiii. Certificate for standing 1st in B.Sc.I in Physics.
- xiv. Certificate for standing 1st in B.Sc. I in BHU.
- xv. RGC Scholarship in B.Sc.II and B.Sc.III in Mahila MahaVidyalaya (MMV), BHU for scoring highest marks in MMV.
- xvi. “Governer Award” of UP Bharat Scouts and Guides.
- xvii. Akikrit Scholarship 1986.
- xviii. Many other awards in Scouting-Guiding, Red-Cross and sports.

8-RESEARCH EXPERIENCE:

- i. Supervised a Ph.D. student Kuldeep Panwar on the topic ‘Synthesis, characterization and investigation on hydrogenation behavior of AB₅-type hydrogen storage alloy’.Ph.D. viva on 13 May 2022.
- ii. Guiding three to four M.Sc. students for research dissertation every year.
- iii. Completed UGC Major Research Project entitled ‘Effect of transition metal (Ni/Co/Mn/Fe) nanoparticle on the hydrogenation behavior of ball-milled MmNi₅’ F.No.-40-433/2011(SR) Dated:04-07-2011 of 10,29,300/- , Duration July2011-June2014 as Principal Investigator.
- iv. Completed UGC Minor Research Project entitled “Investigations on AB₅-Type Hydrogen Storage Material with Enhanced Hydrogen Storage Capacity” No.F.6-1(221)/2008(MRP/NRCB) of 80,000/-Dated: 11 March 2008 as Principal Investigator.
- v. Ph.D. awarded in 2007 on the title “Investigations and Characterization of Some Rare Earth Based Hydrogen Carrying Material with Reference to Special Application” under supervision of Dr..R.K.Upadhyaya, from Hemwati Nandan Bahuguna Garhwal University, Shrinagar, Garhwal.
- vi. Worked as CSIR-JRF and SRF on Hydrogen Energy under supervision of Prof.O.N.Srivastava, in the Department of Physics, BHU during September 1996 to June 1999.
- vii. Worked as ‘Junior Project Fellow’ in AICTE Project “Development of Metal Hydride Battery” under supervision of Prof.O.N.Srivastava, in the Department of Physics, BHU during August 1995 to August 1996.

- viii. Project on “Formation and Electron Microscopic Studies of Graphitic Special Structures Due to Arc Deposition of Carbon in Helium” was completed under supervision of Prof.O.N.Srivastava, in the Department of Physics, BHU during M.Sc.II in 1994-1995.

9- AREA OF SPECIALIZATION: Material Science, Hydrogen Storage Material, Nickel-Metal Hydride Battery and Hydrogen Energy

- i. Knowledge of various synthesis techniques like R.F.Induction Furnace, melt-spinning, Ball-milling.
- ii. Knowledge of Vacuum Coating Unit.
- iii. Knowledge of Characterization Techniques – XRD, EDAX,SEM and TEM.
- iv. Knowledge of Nickel-Metal Hydride Battery Fabrication and Characterization.
- v. Density Functional Theory utilizing Quantum Espresso Software.

10- RESEARCH PUBLICATIONS: 33 Publications (All in International Journals and each paper has been cited in many International Journals) **Total citation 409, h-Index 12, i 10-index 13**

- i. Hydrogen storage materials for vehicular applications
Sumita Srivastava,
Energy Storage Wiley e524 (2023) 14 pages
ISSN:2578-4862, Impact Factor 3.6
<https://doi.org/10.1002/est2.524>
- ii. Recent developments in state-of-the-art hydrogen energy technologies – Review of hydrogen storage materials
Rupali Nagar, **Sumita Srivastava,** Sterlin Leo Hudson, Sandra L. Amaya, Ashish Tanna, Meenu Sharma, Ramesh Achayalingam, Sanjiv Sonkaria, Varsha Khare, Sessa S. Srinivasan
Solar Compass 5 (2023) 100033 (34 pages)
ISSN:2772-9400
<https://doi.org/10.1016/j.solcom.2023.100033>
- iii. Enhancement in hydrogenation properties of ball milled AB₅-type hydrogen storage alloy through catalyst
Kuldeep Panwar, **Sumita Srivastava**
Journal of Physics: Conference Series **2267** (2022) 012052 (12 pages)
ISSN:1742-6596, Impact Factor 0.94
<https://iopscience.iop.org/article/10.1088/1742-6596/2267/1/012052>
- iv. Theoretical Model on the Electronic Properties of Multi-element AB₅-type Metal Hydride
Kuldeep Panwar, **Sumita Srivastava**
International Journal of Hydrogen Energy 46 (2021) 10819-10829.
ISSN:0360-3199, Impact Factor 8.1, Cite Score 13.5
<https://doi.org/10.1016/j.ijhydene.2020.12.170>
- v. Effects of structural properties on Hydrogen Storage Capacity of Multi-element AB₅-type Hydrogen Storage Alloy

- Sapna Prajapati, Kuldeep Panwar and **Sumita Srivastava**
 Student Journal of Physics, 8(2)(2020)70-77. ISSN: 2319-3166
<https://www.iopb.res.in/~sjp/82final/f4.pdf>
- vi. On structural model of AB₅-type multi-element hydrogen storage alloy
 Kuldeep Panwar, **Sumita Srivastava**
 International Journal of Hydrogen Energy 44 (2019) 30208-30217
 ISSN:0360-3199, Impact Factor 8.1, Cite Score 13.5
<https://doi.org/10.1016/j.ijhydene.2019.09.138>
- vii. Correlation of Structural properties with Thermodynamic Properties for Multi-Element AB₅-Type Hydrogen Storage Alloy
 Niyanta Garkoti 1, Kuldeep Panwar and **Sumita Srivastava**
 Student Journal of Physics, Vol. 8, No. 1, 2019, PP 33-39. ISSN:2319-3166
<https://www.iopb.res.in/~sjp/81final/4.pdf>
- viii. Use of Renewable Energy in Holy City Rishikesh
Sumita Srivastava
 Glimpses, Spplimentary Edition June (2019) 91-97, ISSN-2250-0561
- ix. Electromagnetic Radiation in the Surroundings
 Shubham Gwari , **Sumita Srivastava**
 ESSENCE Int. J. Env. Rehab. Conserv. X 2 (2019): 1—8, ISSN:0975-6272
<https://essence-journal.com/december-2019-issue-2/>
 EOI: 10.11208/essence.19.10.2.213
- x. Optimization of ball–milling parameters to synthesize nanocrystalline MmNi₅ hydrogen storage alloy
 Kuldeep Panwar, **Sumita Srivastava**
 ESSENCE Int. J. Env. Rehab. Conserv. X 2 (2019): 67—71 ISSN:0975-6272
<https://essence-journal.com/december-2019-issue-2/>
 EOI: 10.11208/essence.19.10.2.204
- xi. Study of Interface Layer and Device Fabrication of Organic Solar Cells
 Aastha Bhatt, Md Atif , J.P Tiwari, **Sumita Srivastava**
 ESSENCE Int. J. Env. Rehab. Conserv. X 1 (2019): 23—27. ISSN:0975-6272
https://essence-journal.com/wp-content/uploads/Volume_X/June_2019/Study-of-Interface-Layer-and-Device-fabrication-of-Organic-Solar-Cells.pdf
- xii. Impletation of Swachh Bharat Mission through Students’ participation
Sumita Srivastava
 Ruminations, Vol. 9, No 2, December (2018) 274-280. ISSN-2229-6751
- xiii. Investigations On Calculation of Heat of Formation for Multi-element AB₅-type Hydrogen Storage Alloy
 Kuldeep Panwar, **Sumita Srivastava**
 International Journal of Hydrogen Energy 43 (2018) 11079-11084
 ISSN:0360-3199, Impact Factor 8.1, Cite Score 13.5
<https://doi.org/10.1016/j.ijhydene.2018.04.213>
- xiv. Study of Interface Layer and Fabrication of Perovskite Solar Cell (PSC)
 Sandhya Negi, Md. Aatif, J. P. Tiwari, **Sumita Srivastava**
 Student Journal of Physics, Vol. 7, No. 3, Jul-Sep. 2018, PP 114-118.
 ISSN:2319-3166
<https://www.iopb.res.in/~sjp/73final/4.pdf>

- xv. Study of Thermoluminescence Property of Himalayan Stones for Nuclear Radiation Measurement
Manish Joshi, Pradeep Narayan, **Sumita Srivastava**
Student Journal of Physics, Vol. 7, No. 2, Apr-Jun. 2018, PP 82-88.
ISSN:**2319-3166**
<https://www.iopb.res.in/~sjp/72final/5.pdf>
- xvi. Nuclear Radiation Measurement using Thermoluminescence Technique
Shashank Kumar, Pradeep Narayan, **Sumita Srivastava**
Student Journal of Physics, Vol. 7, No. 2, Apr-Jun. 2018, PP 75-8.
ISSN:**2319-3166**
<https://www.iopb.res.in/~sjp/72final/4.pdf>
- xvii. Electricity Generation through Human Power via Piezoelectric Effect
Ankit Singh Rana and **Sumita Srivastava**
ESSENCE Int. J. Env. Rehab. Conserv. IX 2 (2018): 23—27. ISSN:**0975-6272**
https://essence-journal.com/wp-content/uploads/Volume_IX/December_2018/Electricity-Generation-through-Human-Power-via-Piezoelectric-Effect.pdf
- xviii. Study on Selection of Salt for Solar Pond and Electricity Production through Salt Water
Jyoti Negi, **Sumita Srivastava**
International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 5 Issue IX, September 2017, pp 313-319
ISSN: **2321-9653**; IC Value: 45.98; SJ Impact Factor:7.894.
Available at www.ijraset.com
<https://www.ijraset.com/files/serve.php?FID=9823>
[10.22214/ijraset.2017.9046](https://doi.org/10.22214/ijraset.2017.9046)
- xix. Study on Transmission of Audio Signal using Laser Communication System
Ekta Badoni, **Sumita Srivastava**
International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 5 Issue VIII, August 2017, pp 709-714
ISSN: **2321-9653**; IC Value: 45.98; SJ Impact Factor: 7.894.
Available at www.ijraset.com
[10.22214/ijraset.2017.8102](https://doi.org/10.22214/ijraset.2017.8102)
<https://www.ijraset.com/files/serve.php?FID=9382>
- xx. Renewable energy options in Uttarakhand state of India
Kuldeep Panwar and **Sumita Srivastava**
Invertis Journal of Renewable Energy
Volume : 7, Issue : 1, Year 2017, Page 41-44, ISSN: **2454-7611**
IC Value: 74.87; SJ Impact Factor:6.2,
DOI:10.5958/2454-7611.2017.00006.6
<https://www.indianjournals.com/ijor.aspx?target=ijor:ijre&volume=7&issue=1&article=006>
- xxi. Investigations on Microstructures of Ball-milled MmNi₅ Hydrogen Storage Alloy
Sumita Srivastava, Kuldeep Panwar
Materials Research Bulletin 73 (2016) 284–289.

- ISSN: **0025-5408** (Impact factor 5.3)
<https://doi.org/10.1016/j.materresbull.2015.09.021>
- xxii. Effect of transition metals on ball-milled MmNi₅ hydrogen storage alloy
Sumita Srivastava, Kuldeep Panwar
 Materials for Renewable and Sustainable Energy 4 (2015)19
 ISSN: **2194-1459** (Peer-reviewed open access) Impact factor 3.6
<https://link.springer.com/article/10.1007/s40243-015-0062-9>
- xxiii. Iron substituted AB₅-type MH electrode
Sumita srivastava, R.K.Upadhyaya
 Bulletin of Material science 36 Issue 7, (2013) pp 1267-1274
 ISSN: **0973-7669** (Impact factor 1.9)
<https://link.springer.com/article/10.1007/s12034-013-0608-3>
- xxiv. Effect of Secondary Phases on Hydrogenation Behaviour of LaNi₅ – Hydrogen Storage Alloy
Sumita Srivastava
 Glimpses, vol. 2, No. 2, Supplementary Edition December (2012) 17-25
 ISSN-**2250-0561**
- xxv. Modifications in AB₅-Type Hydrogen Storage Materials for Optimized Hydrogenation Properties
Sumita Srivastava
 Glimpses, vol. 2, No. 2, Supplementary Edition December (2012) 44-52
 ISSN-**225**
- xxvi. Investigations of AB₅-type hydrogen storage materials with enhanced hydrogen storage capacity
Sumita Srivastava and R.K. Upadhyaya
 Int. J. Hydrogen Energy 36(2011) 7114-7121
 ISSN:**0360-3199**, Impact Factor 8.1, Cite Score 13.5
<https://doi.org/10.1016/j.ijhydene.2011.02.111>
- xxvii. Investigations of AB₅-type negative electrode for nickel-metal hydride cell with regard to electrochemical and microstructural characteristics
Sumita Srivastava and R.K. Upadhyaya
 J. Power Sources 195(2010)2996-300, ISSN:**0378-7753** (Impact factor-8.1)
<https://doi.org/10.1016/j.jpowsour.2009.11.070>
- xxviii. Investigations on synthesis, characterization and hydrogenation behavior of hydrogen storage alloys, Mm_{1-x}Ca_xNi_{5-y-z}Al_yFe_z (x = 0, 0.05, 0.1, 0.2, 0.3; y = 0, 0.1; z = 0, 0.1)
Sumita Srivastava and R.K.Upadhyaya
 Int. J. Hydrogen Energy 32(2007) 4195-4201
 ISSN:**0360-3199**, Impact Factor 8.1
<https://doi.org/10.1016/j.ijhydene.2007.06.011>
- xxix. On the development of AB_{4.9}-Type alloys (A=Mm,La,Ti; B=ni, Co,Al,Mn,Mo) for Ni-MH batteries
 D.J. Davidson, **S. Srivastava**, S.S.Sai Raman, P.K. Shukla, O.N. Srivastava
 Transactions of the SAEST (Society for Advancement of Electrochemical Science and Technology) 36 (1-2) 2002, pp. 59-63.
https://www.researchgate.net/publication/285145039_On_the_development_of_AB_49-Type_alloys_AMmLaTi_Bni_CoAlMnMo_for_Ni-MH_batteries

- xxx. On the synthesis and characterization of some new AB₅ – type MmNi_{4.3}Al_{0.3}Mn_{0.4}, LaNi_{5-x}Si_x (x = 0.1, 0.3, 0.5) and Mg-x wt% CFMmNi_{5-y} wt% Si hydrogen storage materials
Sumita Srivastava, S.S.Sai Raman, B.K.Singh and O. N. Srivastava
 Int. J. Hydrogen Energy 25(2000) 431-440.
 ISSN:**0360-3199**, Impact Factor 8.1
[https://doi.org/10.1016/S0360-3199\(99\)00055-5](https://doi.org/10.1016/S0360-3199(99)00055-5)
- xxxii. Hydrogenation behaviour with regard to storage capacity, kinetics, stability and thermodynamic behaviour of hydrogen storage composite alloy LaNi₅/La₂Ni₇, LaNi₃ **Sumita Srivastava** and O. N. Srivastava
 J. Alloys and Comps. 290 (1-2) (1999) 250-256.
 ISSN: 0925-8388 Impact factor 5.8, Cite Score 11.1
[https://doi.org/10.1016/S0925-8388\(99\)00196-6](https://doi.org/10.1016/S0925-8388(99)00196-6)
- xxxiii. Synthesis, characterization and hydrogenation behaviour of composite hydrogen storage alloys, LaNi₅/La₂Ni₇, LaNi₃ **Sumita Srivastava** and O. N. Srivastava
 J. Alloys and Comps. 282 (1999) 197-205.
 ISSN: **0925-8388** Impact factor 5.8, Cite Score 11.1
[https://doi.org/10.1016/S0925-8388\(98\)00741-5](https://doi.org/10.1016/S0925-8388(98)00741-5) Get rights and content
- xxxiiii. Investigations on synthesis, characterization and hydrogenation behaviour of the spin and thermal - melted versions of LaNi_{5-x}Si_x (x = 0.1, 0.3, 0.5) hydrogen storage materials.
Sumita Srivastava and O. N. Srivastava
 J. Alloys and Comps. 267 (1998) 240-245
 ISSN: **0925-8388** Impact factor 5.8, Cite Score 11.1
[https://doi.org/10.1016/S0925-8388\(97\)00479-9](https://doi.org/10.1016/S0925-8388(97)00479-9)
- xxxv. Investigations on synthesis and characterization of MmNi_{4.3}Al_{0.3}Mn_{0.4} and MmNi_{4.0}Al_{0.3}Mn_{0.4}Si_{0.3}, hydrogen storage materials through thermal and spin melting processes.
Sumita Srivastava and O. N. Srivastava
 Int. J. Hydrogen Energy 23(1)(1998) 7-13
 ISSN:**0360-3199**, Impact Factor 8.1, Cite Score 13.5
[https://doi.org/10.1016/S0360-3199\(97\)00019-0](https://doi.org/10.1016/S0360-3199(97)00019-0)

FULL PAPER PUBLISHED IN CONFERENCE PROCEEDINGS

- i. Role of an Individual in Imparting Quality Education
Sumita Srivastava
 ‘Holistic Approach Towards quality Enhancement in Higher Education’ ISBN No.978-81-942288-0-6, Page 27-30, 2019.
- ii. Teaching and Learning through ICT:Free open learning resources, Simulation tools and Blog writing
 Kuldeep Panwar and **Sumita Srivastava**
 ‘Holistic Approach Towards quality Enhancement in Higher Education’ ISBN No.978-81-942288-0-6, Page 47-62, 2019.
- iii. Swachh Bharat Mission: An Approach Towards Ecofriendly System
Sumita Srivastava

- ‘Holistic Approach Towards quality Enhancement in Higher Education’ ISBN No.978-81-942288-0-6, Page 122-130, 2019.
- iv. Impact of India Solar Energy Mission on Holy City Rishikesh: A Survey
Sumita Srivastava
‘Holistic Approach Towards quality Enhancement in Higher Education’ ISBN No.978-81-942288-0-6, Page 117-121, 2019.
- v. Indian Association of Physics Teachers; A Quality Learning Platform: Experience and Contribution
Jyotsana Kala, **Sumita Srivastava**
‘Holistic Approach Towards quality Enhancement in Higher Education’ ISBN No.978-81-942288-0-6, Page 93-95, 2019.
- vi. Tailoring of AB₅-type hydrogen storage materials for utilizing hydrogen energy
Sumita Srivastava
Proceedings of the National Workshop on “Green chemistry practices in teaching, research and industry”, March 30, 2016, Pt.L.M.Govt.P.G.College, Rishikesh, Page: 111-118.
- vii. Catalytic Nanostructured AB₅-type Hydrogen Storage Alloy for harnessing Hydrogen Energy
Sumita Srivastava
Proceedings of the India International Science Festival- Young Scientists’ Meet Department of Science and Technology, Government of India – Dec 4-8, 2015
Paper Code:Green 32
- viii. Investigations on Ball-mill Technology to improve the hydrogenation behavior of MmNi₅ alloy
Sumita Srivastava
Proceedings of ‘2nd International Conference on Emerging Trends in Engineering and Technology’, Teerthanker Mahaveer University, Moradabad, April 12-13, 2013.
- ix. Investigations on the effect of additive in metal hydride electrode
Sumita Srivastava
Proceedings of ‘Academica Conference on Recent trends in research field of science, social science, humanities and application of space technology for Enhancement of Quality in Higher Education’, 2013, pp15-17.
- x. Environmental protection through green technology:Ni-MH Battery
Sumita Srivastava
Proceedings of National Conference on ‘Environmental conservation, sustainable natural resource management and strategies for regional development with reference to Uttarakhand’, DBS Post Graduate College, Dehradun,01-02 May 2011,pp 170-176.

Books

- i. Authored Book ‘Paryavaran Adhyayan aur Mulya Shiksha’ ISBN 978-93-80347-59-2, Lokmitra Prakashan Delhi India 2023.
- ii. Authored Book ‘Environment Studies and Value Education’ ISBN 978-81-19067-65-7,Pragati Prakashan Meerut India 2023.

- iii. Authored Book ‘Fundamentals and Advancements in Carbon Nanotubes: Synthesis, Special Diffraction and Energetic of Carbon Nanotubes’ ISBN 978-620-4-18190-5, LAP Lambert Academic Publishing, Republic of Moldova Europe 2021.
<https://www.morebooks.de/shop-ui/shop/product/978-620-4-18190-5>
<https://www.morebooks.de/gb/search?utf8=%E2%9C%93&q=978-620-4-18190-5>
- iv. Authored Book ‘Fundamentals and Advancements in Carbon Nanotubes: Synthesis, Special Diffraction and Energetic of Carbon Nanotubes’ ISBN 978-620-4-18190-5, LAP Lambert Academic Publishing, Republic of Moldova Europe 2021 is published in 6 more languages, Russian, French, German, Italian, Spanish, Portuguese on 01 September 2021.
<https://www.morebooks.de/shop-ui/shop/product/978-620-4-05975-4>
<https://www.morebooks.de/shop-ui/shop/product/978-620-4-05973-0>
<https://www.morebooks.de/shop-ui/shop/product/978-620-4-05974-7>
<https://www.morebooks.de/shop-ui/shop/product/978-620-4-05994-5>
<https://www.morebooks.de/shop-ui/shop/product/978-620-4-05972-3>
<https://www.morebooks.de/shop-ui/shop/product/978-620-4-05971-6>
ISBN-13: 978-620-4-18190-5 (English)
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ISBN-13: 978-620-4-05974-7 (French)
ISBN-13: 978-620-4-05994-5 (Portuguese)
ISBN-13: 978-620-4-05972-3 (German)
ISBN-13: 978-620-4-05971-6 (Russian)
- v. Edited Book ‘Fit India: Holistic Health Care for Quality Life’ ISBN 978-81-7844-365-2, K.K. Publications, New Delhi 2020.
https://books.google.co.in/books?id=0cY7EAAAQBAJ&pg=PA4&lpg=PA4&dq=Fit+India:+Holistic+Health+Care+for+Quality+Life%E2%80%99+ISBN+978-81-7844-365-2,+K.K.+Publications,+New+Delhi+2020&source=bl&ots=zBMYMKppYf&sig=ACfU3U0jAapVIQlnckix4b5c5gI6iYcg0Q&hl=en&sa=X&ved=2ahUKEwiKl_qemYv8AhWvRmwGHfGxBE4Q6AF6BAgHEAM#v=onepage&q=Fit%20India%3A%20Holistic%20Health%20Care%20for%20Quality%20Life%E2%80%99%20ISBN%20978-81-7844-365-2%2C%20K.K.%20Publications%2C%20New%20Delhi%202020&f=false
- vi. Edited Book ‘Holistic Approach Towards quality Enhancement in Higher Education’ ISBN 978-81-942288-0-6, Shri Vidyasagar Publications Meerut 2019.

Chapter in Books

- i. Green hydrogen as future energy source in India
Sumita Srivastava
Futuristic Trends in Chemical, Material Sciences & Nano Technology
IIP Series 2024 Volume 3, Book 23, Part 3, Chapter 1, pp 151-164.
E-ISBN: 978-93-5747-532-7

- ii. Progress and potential of green energy production: a solution to climate change in Uttarakhand
Sumita srivastava
 Climate Change : Issues and Challenges (Eds: D.C. Goswami, Aruna P. Sutradhar, Anil Pal) Samaya Sakshya, Dehradun 2024 pp127-135.
 ISBN 978=81-19743-11-7
- iii. Correlation between the elementary particles and evolution of the universe
Sumita Srivastava
 ‘Contemporary Advances in Biological, Chemical, and Physical Sciences’
 Eds. Sheerin Masroor et al., Bhumi Publishers, India, 2023 pp 163-168.
 ISBN: 978-93-88901-27-7 (e-book)
<https://www.bhumipublishing.com/book/>
- iv. Hydrogen: A Clean, Green and Sustainable Future Energy Source
Sumita Srivastava
 ‘Environment and Development:Issues, Challenges and Measures’ Eds. D.C. Goswami and Anil Pal, HSRA Publications, Bangalore, India, 2023 pp 15-21.
 ISBN: 978-93-5506-423-3.
- v. Theoretical modeling on hydrogenation characteristics of ball-milled AB₅-type hydrogen storage nanomaterials
 Kuldeep Panwar, **Sumita Srivastava**
 ‘Materials Science and Technologies:Materials Science Future Aspects’ Eds. K.Awasthi et al. , Nova Science Publishers, INC. USA, 2022 pp 17-38.
 ISBN: 978-8-88697-008-1 (e book)
<https://novapublishers.com/shop/materials-science-future-aspects/>
- vi. AB₅-type metal hydrides to serve the society as energy material: Development in last decade
 Kuldeep Panwar, **Sumita Srivastava**
 ‘Versatile solicitations of material science in diverse science fields’ Eds. M.Tripathi et al. , Nova Science Publishers, INC. USA, 2021 pp 139-154.
 ISBN:978-1-53619-798-3 (e book)
<https://novapublishers.com/shop/versatile-solicitations-of-materials-science-in-diverse-science-fields/>
- vii. Harnessing renewable energy from natural resources of Himalaya.
 Kuldeep Panwar, **Sumita Srivastava**
 ‘Geology and natural resources of Himalaya’ Eds. R.A.singh and P.K.singh, ISBN 978-93-83247-95-0, 2021, Page 339-345. ASR Publications, Lucknow.
- viii. Programming for stress free, active and healthy life
 Kuldeep Panwar, **Sumita Srivastava**
 ‘Fit India : Holistic Health Care for Quality Life’ Ed. S. Srivastava, ISBN 978-81-7844-365-2, 2020, Page 75-82.KK publications, New Delhi.
<https://books.google.co.in/books?id=0cY7EAAAQBAJ&pg=PA4&lpg=PA4&dq=Fit+India:+Holistic+Health+Care+for+Quality+Life%E2%80%99+ISBN+978-81-7844-365->

[2,+K.K.+Publications,+New+Delhi+2020&source=bl&ots=zBMYMKppYf&sig=ACFu3U0jAapVIQlnckix4b5c5gI6iYcg0Q&hl=en&sa=X&ved=2ahUKEwiKl_qemYv8AhWvRmwGHfGxBE4Q6AF6BAgHEAM#v=onepage&q=Fit%20India%3A%20Holistic%20Health%20Care%20for%20Quality%20Life%E2%80%99%20ISBN%20978-81-7844-365-2%2C%20K.K.%20Publications%2C%20New%20Delhi%202020&f=false](https://www.kkpublications.com/new-delhi/2020&source=bl&ots=zBMYMKppYf&sig=ACFu3U0jAapVIQlnckix4b5c5gI6iYcg0Q&hl=en&sa=X&ved=2ahUKEwiKl_qemYv8AhWvRmwGHfGxBE4Q6AF6BAgHEAM#v=onepage&q=Fit%20India%3A%20Holistic%20Health%20Care%20for%20Quality%20Life%E2%80%99%20ISBN%20978-81-7844-365-2%2C%20K.K.%20Publications%2C%20New%20Delhi%202020&f=false)

- ix. Rural development with renewable energy
Sumita Srivastava
'Science and technology application in rural areas' Ed. M.Thapliyal, ISBN 978-81-944874-0-1, 2020, Page 61-69, UCOST and TI Pvt.Ltd. Dehradun.
<https://www.ucost.in/blog/book-entitled-st-applications-in-rural-areas-released-at-ucost-dehradun/>
- x. 'Bio-hydrogen production : current scenario and future prospects'
Sumita Srivastava, Prashant Anthwal, Tribhuwan Chandra and Ashish Thapliyal, In 'Biofuels Production' (eds. Vikash Babu et al.) John Wiley and Sons 2013, P 309-319. ISBN; 978-1-1186-3450-9
<https://www.wiley.com/en-us/Biofuels+Production-p-9781118835739>
- xi. 'Carbon Nanotubes and Nano-Biotechnology,
Sumita Srivastava in 'Himalayan Aquatic biodiversity conservation & new tools in biotechnology' (eds. J.P.Bhatt et al.)
TransMedia Publication, Media House, Bhandari Bagh, Srinagar (Garhwal)pp138-150, 2011
<https://www.nhbs.com/himalayan-aquatic-biodiversity-conservation-and-new-tools-in-biotechnology-book>

11- PRESENTATIONS IN SEMINARS/ CONFERENCES/ WORKSHOPS:

- i. Delivered an **invited talk** on “**NAAC PROCESS**” on 25 September 2024 in FDP on “Empowering Faculty for NAAC Accreditation: Strategies for Institutional Success”, organized by Government Degree College, Chinyalisaur Uttarkashi.
- ii. Delivered an **invited talk** on “**Greener Economy : Economic Diversification through Energy Transition**” on 02-03 May 2024 in National Seminar on “Sustainable Development: Bridging Economic and Environmental Sustainability in Hilly Regions”, organized by Government PG College, Raipur Dehradun.
- iii. Delivered an **invited talk** on “**INTELLECTUAL PROPERTY RIGHTS (IPR)**” on 21 March 2024 in National Seminar on “Intellectual Property Rights”, organized by Government Post Graduate College, New Tehri, Uttarakhand.
- iv. **Chaired the technical session** in National Seminar on “Climate Change:Issues and Challenges” 05-06 March 2024, organized by Deptt of Geography, Sri Dev Suman Uttarakhand University, Rishikesh Campus, Dehradun.
- v. **Chaired the technical session** in National Workshop on “Popularization of Science through Low Cost-Effective Experiments in Physics” 26-27 February 2024, organized by Deptt of Physics, Government Post Graduate College, Doiwala, Dehradun.

- vi. Delivered an **invited talk** on “National Hydrogen Mission of India” on 17-18 January 2023 in National Seminar on “Advancements and Strategies for Sustainable Development and Environment Protection”, organized by Netaji Subhash Chandra Bose Government Degree College, Lucknow.
- vii. Delivered an online lecture on “NAAC Seven Criteria” as **resource person** in Workshop on “NAAC Accreditation Framework” on 3rd January 2023, organized by Government Degree College, Vedikhal (Pauri Garhwal).
<https://youtu.be/TmZ5XbSjuSA>
- viii. Delivered a lecture as **resource person** in Workshop on “NAAC PROCESS UNDERSTANDING” on 30th November 2022, organized by Government Degree College, Barkot (Uttarkashi).
- ix. Delivered an online lecture as **resource person** in Workshop on “NAAC PROCESS” on 18th November 2022, organized by Government Degree College, Barkot (Uttarkashi).
<https://youtu.be/T0EvOqllhVk>
- x. Delivered three lectures as **resource person** in Workshop on “NAAC PROCESS” on 28-30th September 2022, organized by IQAC, Government Degree College, Nainbagh (Tehri Garhwal).
- xi. Delivered an online lecture as **resource person** in Workshop on “National Education Policy (NEP 2020) Policy Implementation and Strategies” on 10th August 2022, organized by Government Degree College, Narendranagar (Tehri Garhwal).
<https://youtu.be/uhvfrOXKSFA>
- xii. Delivered a lecture as **resource person** in Workshop on National Education Policy (NEP 2020) Policy Implementation and Strategies on 3rd August 2022, organized by Sri Dev Suman Uttarakhand University, PLMS Campus Rishikesh.
- xiii. Delivered as **speaker** a lecture on “Kinetic theory of gases” on 26th June, 2022 in the National Lecture Series in Physics (NLSP-2022) held during June 21-30, 2022 and organized by Indian association of Physics Teachers RC-4 Uttar Pradesh.
<https://youtu.be/ModAqHyI5T8>
- xiv. **Invited talk** entitled “Hydrogen energy for sustainable future” on 28th February, 2022 in National webinar on Integrated approach in science and technology for a sustainable future, organized by Govt. Degree College Narendranagar, Tehri Garhwal.
<https://youtu.be/FpDNJbMxd7k>
- xv. Presented research paper on “On structural model of AB₅-type multi-element hydrogen storage alloy” in online 27th International Conference of International Academy of Physical Sciences on Hydrogen Energy and Nano Materials, organized by Department of Physics, Institute of Science, Banaras Hindu University, Varanasi, India on October 26-28, 2021.

- xvi. Delivered **expert lecture** entitled “CBCS system in New Education Policy” in a workshop on Construction and execution of Professional Courses in National Education Policy 2020, organized by Sri Dev Suman Uttarakhand University, Badshahithaul on 23.10.2021.
- xvii. Presented research paper on "Enhancement in hydrogenation properties of ball-milled AB₅-type hydrogen storage alloy through catalyst" in online 3rd International Conference on Recent Advances in Fundamental and Applied Sciences organized by Lovely Professional University Panjab on 25-26 June 2021.
- xviii. Delivered **invited talk** on the topic “Renewable energy technology” in the International webinar entitled “Recent technological advancements and innovation in science”, held on Feb 26-27 and March 05-06, 2021 and organized by KLDVA PG College, Roorkee, Uttarakhand.
- xix. Delivered **invited talk** on the topic “Theoretical modeling on hydrogenation characteristics of hydrogen storage material” in the International webinar entitled “Padmashree Prof. O.N.Srivastava Student Group-second tea club seminar”, held on Feb 28, 2021 and organized by Department of physics, BHU Varanasi.
- xx. Delivered **invited talk as** eminent speaker on the topic “New education policy:compatibility within and outside” in the National webinar entitled “New education policy 2020:challenges and possibilities”, held on 01.09.2020 and organized by Veerangana Avantibai Government Degree College, Atrauli, Aligarh (UP).
- xxi. Presented paper “Internet and Social Media in context to Intellectual Property Right” in National Seminar on Intellectual Property Rights (IPR) Laws:Concepts, Applications and Issues on February 29, 2020 in MM PG College, Modinagar, Ghaziabad.
- xxii. Presented paper “On the Role of Catalyst in Hydrogenation Behaviour of AB₅-type Nanostructured Hydrogen Storage Alloy” in International Conference on Interdisciplinary Research for Sustainable Development:Innovation and Opportunities on February 14-16, 2020 in Vardhman College, Bijnor, UP.
- xxiii. Presented paper “Bio-Informatics:Applications through Physical Science” in National Seminar on Bio-Informatics:Concepts, Applications & Skill Development on February 8, 2020 in MM PG College, Modinagar, Ghaziabad.
- xxiv. Presented paper “On the prediction of hydrogenation properties of AB₅-type hydrogen storage alloy” in National Seminar on Recent Trends in Interdisciplinary Research on January 31, 2020 in MM PG College, Modinagar, Ghaziabad.
- xxv. Presented paper ‘Harnessing renewable energy from natural resources of Himalayas’ in National Conference on “Geology and Natural Resources of Himalayas” on November 25-26, 2019 in PLMS Govt. PG College, Rishikesh.
- xxvi. Presented paper “On Calculation of Heat of Formation for Multi-elemental AB₅-type Hydrogen Storage Alloy” in National Seminar on Emerging Trends and Future Challenges in Science (ETFCS-2019) on 27-28 February 2019 in SGRR PG College, Dehradun.
- xxvii. Presented paper on “ Theoretical model on the correlation of thermodynamic and structural properties of LaNi₅-type hydrogen storage alloy” in XXXII Annual IAPT

- Convention 2017 and National Symposium on Recent Trends in Physics at different scales, October 29-31, 2017, Gurukul kangri Vishwavidyalaya, Haridwar.
- xxviii. Presented paper on “Renewable Energy Options in Himalayan Ecology” in Three day’s National Seminar on “Crop diversity and Entrepreneurship development in Himalayan environment”, 29th September -1st October 2016, RCU Govt.P.G.College, Uttarkashi.
- xxix. Presented paper on “Tailoring of AB₅-Type Hydrogen Storage Material for utilizing Hydrogen Energy” National Workshop on Green Chemistry Practices in Teaching Research and Industry, 30 March 2016, Pt.L.M.S.Govt.P.G.College, Rishikesh.
- xxx. Presented paper on ‘Catalytic Nanostructured AB₅-type Hydrogen Storage Alloy for harnessing Hydrogen Energy’ India International Science Festival- Young Scientists’ Meet, Department of Science and Technology, Government of India – Dec 4-8, 2015, IIT Delhi. (Paper Code:Green 32)
- xxxi. Presented paper on ‘Optimization of ball–milling parameters to synthesize nanocrystalline MmNi₅ hydrogen storage alloy”. National Seminar on New Horizons In Theoretical And Experimental Physics (NHTEP-2015), Govt. Post Graduate College, Gopeshwar, Chamoli, Uttarakhand, February 19-20, 2015
- xxxii. Presented an Invited Lecture on ‘Key factors of a good research proposal’, Workshop on “Developing Ideas, Writing projects and Research Management” November 30, 2013, Pt.L.M.S.Govt.P.G.College, Rishikesh, Dehradun
- xxxiii. Presented paper on “Investigations on Ball-mill Technology to improve the hydrogenation behavior of MmNi₅ alloy” in 2nd International Conference on Emerging Trends in Engineering and Technology’, Teerthanker Mahaveer University, Moradabad, April 12-13, 2013.
- xxxiv. Presented paper on “Investigation on the ball-milled MmNi₅ Hydrogen storage alloy’ in National Conference on Recent Trends in Interdisciplinary Research and Astrophysics Space Science (NCRTIRASS-2012), M.B.Govt.P.G.College, Haldwani, Nanital, 3-4 November, 2012.
- xxxv. Presented paper on “Investigations on the effect of additive in metal hydride electrode” in Academica Conference , Govt.P.G.College, Gopeshwar, 14-16 March 2012.
- xxxvi. Presented paper on “Hydrogen storage material with enhanced hydrogen storage capacity” in 3rd National Seminar on Recent Trends in Advancement of Mathematical and Physical Sciences, D.N.College, Meerut, 5-6 February, 2011
- xxxvii. Presented paper on “Hydrogen Energy System:An answer to non-conventional energy” in International Conference on Cooling the Earth, G.B.Pant University ,Pantnagar, 15-17 November,2010
- xxxviii. Presented paper on “Applications of Carbon nanotubules in biotechnology” in National Conference on Advances in Biotechnology, Govt.P.G.College, Uttarkashi, 17-18 March 2010
- xxxix. Presented paper on “Investigations on MmNi₅-type Negative Electrode for Nickel-Metal Hydride Cell with Regard to electrochemical and Microstructural Characteristics” in 3rd Uttarakhand Science & Technology Congress 10-11 November, 2008, IIT Roorkee.

PARTICIPATION IN SEMINARS/ CONFERENCES/ WORKSHOPS:

- i. Attended NAAC Hand holding Workshop in Dev Sanskriti University Haridwar on 25-26 February 2023, organized by Higher Education Department Uttarakhand.
- ii. Attended NAAC Workshop in DIT University Dehradun on 07-08 December 2022, organized by Higher Education Department Uttarakhand.
- iii. Participated in workshop on Professional Advancement Program for Indian Women Researchers in STEM during 2-3 June 2022 and organized by Doon University dehradun and SERB New Delhi.
- iv. Participated as a member of academic support group in Asian Physics Olympiad (23-31 May 2022) organized by IAPT at Graphic Era Hill University Dehradun.
- v. Attended the virtual lecture on ‘Why we should study stars?’ organized by Punarvasu, the astronomy club of Dolphin (PG) Institute of Biomedical and Natural Sciences, Dehradun on 21st May 2021.
- vi. Participated in national webinar on “आजादी का अमृत महोत्सव–स्वतंत्र भारत में आत्मनिर्भरता के सौपान” held on 19.03.2021 and organized by Pt.L.M.S. Government P.G.College, Rishikesh, Dehradun (Uttarakhand).
- vii. Participated in “COVID -19 Pandemic General Awareness Quiz” held on 05.12.2020 and organized by Government Degree College, Thatur, Tehri Garhwal (Uttarakhand).
- viii. Participated in the International webinar entitled “Science behind covid-19 and its prevention”, held on 17.10.2020 and organized by Pt.L.M.S. Government P.G.College, Rishikesh, Dehradun (Uttarakhand).
- ix. Participated in the webinar entitled “Psychological impact of online education on students and teachers”, held on 03.10.2020 and organized by Pt.L.M.S. Government P.G.College, Rishikesh, Dehradun (Uttarakhand).
- x. Participated in the webinar entitled “Quality assessment of online education during covid-19 pandemic”, held on 23.09.2020 and organized by Pt.L.M.S. Government P.G.College, Rishikesh, Dehradun (Uttarakhand).
- xi. Participated in the National webinar entitled “Scenario of higher education in relation to national education policy 2020”, held on 13.09.2020 and organized by Sanatan Dharm College, Muzaffarnagar (UP).
- xii. Participated in online lecture entitled “Raising the research visibility of your institute”, held on 05.09.2020 and organized by InPods Ed-Tech.
- xiii. Participated in the National webinar entitled “राष्ट्रीय शिक्षा नीति 2020:प्रासंगिकता एवं कार्यान्वयन”, held on 29.08.2020 and organized by Mahatma Gandhi Central University Bihar.
- xiv. Participated in the International webinar entitled “Biodiversity conservation through environmental education for sustainable development”, held on 29.07.2020 and organized by Government PG College, Maldevta Raipur, Dehradun (Uttarakhand).
- xv. Participated in the International e-seminar entitled “Academic writing: things to know,”, held on 17.07.2020 and organized by Government PG College, Maldevta Raipur, Dehradun (Uttarakhand).

- xvi. Participated in the National webinar entitled “वर्तमान परिदृश्य में भारतीय साहित्य, मीडिया एवं सिनेमा की उपादेयता व संभावनाएँ”, held on 17.06.2020 and organized by RR PG College, Amethi (UP).
- xvii. Attended one day workshop on “Intellectual Property Rights (IPR)” on 20th December 2019 and organized by PLMS Govt.P.G.College, Rishikesh and MIT Dhalwala Rishikesh.
- xviii. Active participation in Conference on ‘New Education Policy and Quality Upgradation in Higher education’ on 28-29 September 2019 in Doon University.
- xix. Attended workshop on “Job orientation and empowerment” on 22.08.2019 and organized by PLMS Govt.P.G.College, Rishikesh.
- xx. Attended Workshop on ‘NAAC Accreditation’ on 28 December 2018 in Govt.P.G.College, Kotdwar, organized by RUSA Uttarakhand.
- xxi. Attended Workshop on ‘NAAC Accreditation’ on 28 August 2018 in Doon University, organized by RUSA Uttarakhand.
- xxii. Attended and organized quiz program in Brain Awareness Workshop 2017, at Pt.L.M.S.Govt.P.G.College, Rishikesh, On April 22, 2017.
- xxiii. Attended and organized quiz program in Brain Awareness Programme 2015, Pt.L.M.S.Govt.P.G.College, Rishikesh, April 27, 2015.
- xxiv. Attended International Upanishads Conference, November 29-30, 2014, Rishikesh
- xxv. Attended National seminar on role of RTI in social empowerment ,Govt.P.G.College, Uttarkashi, 18 November, 2010.
- xxvi. Attended Regional Seminar on “Intellectual Property and Innovation Management in Knowledge Era” sponsored by NRDC, New Delhi and UCOST, Dehradun 31st July 2009, Uttarkashi
- xxvii. Attended 28th All India Conference of Linguists
2-4 November, 2006
Banaras Hindu University, Varanasi
- xxviii. Attended National Seminar on Tourism and Himalayan Bio-Diversity
4-5 March, 2005
Govt.P.G.College, Uttarkashi
- xxix. Attended Seminar on Higher Education in Uttaranchal
27 February, 2001, Pt. L.M.S. Govt.P.G.College, Rishikesh

12- TEACHING EXPERIENCE:

25 years experience of UG and PG teaching

13- ADMINISTRATIVE EXPERIENCE

- i. Working as **Principal** of Radhey Hari Government Post Graduate College Kashipur, Udham Singh Nagar, Uttarakhand since 14 November 2024.
- ii. Worked as **Principal** of Government Degree College Nainbagh, Tehri Garhwal Uttarakhand since 06 August 2022 to 13 November 2024. College got NAAC B+ grade under my supervision and leadership.
- iii. Worked as **Principal** of Government Degree College Pokhri Quili, Uttarakhand since 10 December 2019 to 22 September 2021.

- iv. Worked as **Head of Department** since March 2019 to December 2019 in Govt. PG College Rishikesh.
- v. Worked as **Head of Department** since 2004 to 2014 in Govt. PG College Uttarkashi.
- vi. Several administrative, academic, co-curricular and extra-curricular activities are being organized in my supervision.

14- ONLINE COURSE/FDP/ORIENTATION/REFRESHERCOURSES/ TRAINING PROGRAMS

- i. Completed 12-week online course on “Computational Material Physics” organized by Ghent University, Belgium, between July- October 2021.
- ii. Completed Two week online FDP program on ‘Developing online courses for SWAYAM’ 21 June to 05 July 2021. Organized by UOU, Haldwani and CEMCA New Delhi.
- iii. Completed Three month online course on ‘Basics of Quantum Mechanics’ 15 August 2019 to 18 Nov 2019, from IIT Kanpur.
- iv. Completed Three month online course on “Physics of Semiconductors’ 15 August 2017 to 20 Nov 2017, from IIT Kanpur.
- v. Completed Two month online course on “Learning Physics through Simple Experiments’ 20 Sept 2016 to 20 Nov 2016, from IIT Kanpur.
- vi. Orientation Course in Natural Sciences
16.07.2001 to 10.08.2001
ASC, JNU, New Delhi
- vii. Refresher Course in Physics
07.02.2005 to 26.02.2005
CPDHE, University of Delhi, Delhi
- viii. 8th Refresher Course in Women's Studies
Jan 17 to Feb 06, 2007
ASC, Banaras Hindu University, Varanasi
- ix. Refresher Course in Physics and Electronics
Jan 09 to Jan 30, 2008
CPDHE, University of Delhi, Delhi

15. Participation in Corporate Life:

- i. Participated as convener/member in several affiliation panel of Sri Dev Suman Uttarakhand University, Badshahithaul, New Tehri.
- ii. Participated as subject expert in Interview boards for selection of Assistant Professor.
- iii. Member Principal in affiliation panel of Maya College of Agriculture & Technology, Selakui Chakrata on 16 May 2023.
- iv. Participation as Special Guest in annual function of GDC Chinyalisaur on 12 May 2023.

- v. Convener in selection committee of Assistant Professors of Physics in Dhanauri PG College, Dhanauri Haridwar on 18 April 2023.
- vi. Expert member physics in affiliation panel of Government Degree College Thatyur on 17 March 2023.
- vii. Member Principal in affiliation panel of Doon Ghati College Doiwala on 26 December 2022.
- viii. Participation as Special Guest in National Seminar on Entrepreneurship development organized in GDC Narendranagar on 25 November 2022.
- ix. Member Principal in affiliation panel of Pronics College Bhagwanpur on 20 November 2022.
- x. Convener in selection committee of Assistant Professors of Physics in Dhanauri PG College, Dhanauri Haridwar on 23 November 2022.
- xi. Convener in selection committee of Assistant Professors of Physics in Dhanauri PG College, Dhanauri Haridwar on 19 August 2022.
- xii. Member of IAPT examination committee.
- xiii. Member of inspection committee as expert physics for affiliation extension of UG courses for year 2020-21 in Dhanauri PG College, Dhanauri Haridwar, on 18.07.2021.
- xiv. Member of inspection committee as expert physics for new affiliation of PG courses for year 2020-21 in Central Institute of Management and Technology, Roorkee, on 30.01.2021.
- xv. Member of inspection committee as expert physics for new affiliation of PG courses for year 2020-21 in Dhanauri PG College, Dhanauri Haridwar, on 26.12.2020.
- xvi. Head, Department of Physics since 2004 to 2014.
- xvii. Co-ordinator IQAC, Co-ordinator Career Advancement Scheme Screening Committee, Convener and member of various administrative, cultural and sports committees of college.
- xviii. Contribution in University Examination work .
- xix. Convener of an Innovative Project 'Intellectual Property Right Club' funded by District Innovation Fund of Rs 1.5 Lac.
- xx. Acted as 'College Officer' for 'All India Survey of Higher Education' conducted by MHRD, Govt. Of India, New Delhi to fill survey form since 2010 to 2019.
- xxi. Vice President of Indian Association of Physics teachers, Uttarakhand Zone.
- xxii. College Coordinator, NMEICT linked IT skill program 'Spoken Tutorials' of IIT Mumbai.
- xxiii. Organized several workshops, competitions like, essay, science fiction, poster, power point presentation, quiz, extempore, science exhibition etc. for physics students in the college.

16. Organization of Conferences/Seminars/Workshops:

- i. Organized Workshop on "Millets for Increasing Farmers' Income and Sustainable Livelihood" on 03 October 2024 for local farmers.
- ii. Organized Conference on "Women Professionals: क्या खोया, क्या पाया" on 14 March 2024 to celebrate International Women's Day.

- iii. Organized National Conference on “Enhancement and Sustenance of Quality in Higher Education in view of NAAC accreditation and NEP 2020” on 01 December 2023 in collaboration with Dhanori PG College, Dhanori, Haridwar.
- iv. Organized Two Days Workshop on “Organic Farming and Environment Protection” on 16-17 December 2022 in collaboration with USERC Dehradun for local farmers.
- v. Organized one day Workshop on “Sustainable Practices” under Mahatma Gandhi National Council of Rural Education on 30th November 2022.
- vi. National Conference on ‘Fit India:Holistic Health Care for Quality Life’ was organized on November 19, 2019 in Pt.L.M.S.Govt.P.G.College, Rishikesh.
- vii. National Conference on ‘Holistic Approach Towards quality Enhancement in Higher Education’ was organized on January 29-30, 2019 in Pt.L.M.S.Govt.P.G.College, Rishikesh sponsored by NAAC.
- viii. Two week Induction program was organized on teaching and Learning through ICT 09-11-2018 to 22-11-2018.
- ix. Workshop was organized for teachers on ‘Strategies for adopting Innovations’ on October 27, 2018.
- x. Seminar was organized for students on ‘Student participation in social responsibility’ on 04.10.2018.
- xi. Two social responsibility programs ‘Swachha Bharat Mission’, an approach towards eco-friendly system, and ‘Each One Teach One, Each One Help One, learning beyond boundaries, were designed and launched on 04.10.2018.
- xii. Workshop was organized for teachers on ‘Quality in curriculum development’ on July 10, 2018.
- xiii. A symposium was jointly organized with SR Asia and AIIMS Rishikesh, on June 5, 2018 on World Environment Day in AIIMS on the topic ‘Institutional partnership for maximizing effect on minimal use of plastic’ followed by Awareness and public consultancy program on ‘beat the plastic pollution’.
- xiv. Workshop was organized on “Teaching and Learning through ICT” and delivered a lecture on “E-learning Resources” on April 06, 2018 in Pt.L.M.S.Govt.P.G.College, Rishikesh.
- xv. Workshop was organized on “Electronic Components:Identification and Applications” on October 10 2015 in Pt.L.M.S.Govt.P.G.College, Rishikesh.
- xvi. Regional workshop on Intellectual Property Rights, 21-03.2014
Govt. P.G.College, Uttarkashi.

Organization of International/National Webinars:

- i. Organized as organizing secretary, state level online interaction program on “National education policy-2020: Implementation and Challenges” on 9 September 2022.
<https://youtu.be/XcxizzauwBQ>
- ii. Organized as convener National webinar entitled “लोक साहित्य: महत्व और प्रासंगिकता” , held on 20.06.2020.
- iii. Organized as convener National webinar entitled “साहित्य अनुवाद: अवसर और चुनौतियां” , held on 11.06.2020.

- iv. Organized as convener International webinar entitled “ऑनलाइन शिक्षण पद्धति: उपलब्धियां, समस्याएं और सम्भावनाएं”, held on 30.05.2020.
- v. Organized as convener International webinar entitled “कोविड-19 के दौर में पत्रकारिता”, held on 27.05.2020.
- vi. Organized as principal, International Quiz on General Hindi in May 2020.

17. Environmental Consciousness and Science Popularization

Programs

- i. Organize every year plantation activity and cleanliness drive in the college and in nearby society.
- ii. Stationary items, books and clothes were donated to the children belonging to Kustha family residing in Vandemataram Kunj, Ganga Bhogpur Rishikesh with the help of students on 08 August 2019.
- iii. Organized workshop on Learning physics through Simple Experiments in IDPL Inter College and SBM Inter College on 23-04-2019 and 24-04-2019 with the help of students of Department of Physics under ‘Each One Teach One, Each One Help One, program.
- iv. Under ‘Each One Teach One, Each One Help One, program, a team of college students and teachers (Department of Physics) visited & surveyed Kushth Ashram and donated food items to every person in the Ashram for one month on 22 November 2018.
- v. Under Swachha Bharat Mission and Swachhata Hi Sewa program more than 40 activities on sanitation drive with local community and awareness on minimal use of plastic, separation of bio-degradable and non-biodegradable wastes, compost formation etc. were performed at different location of Rishikesh & Haridwar and in college premises and also in association with THDC India Ltd. Rishikesh (26-08-2018). The area covered were Shail Vihar, Fire Station, Police Station Dhalwala, Gumaniwala, Aastha Path, Suman Park, Gurudwara Colony, Shaheed park, Gumaniwal, Sarwahanagar, Vamiki Basti, Har ki Padhi Haridwar, School of Haridwar etc. Feedbacks were also collected by community.
- vi. Plantation activities were performed in college premises in association with THDC India Ltd. Rishikesh (31-08-2018).
- vii. Large Plantation Activity at Neem Beach, Tapovan, Rishikesh on 27.07.2018 and three times in college campus in collaboration with other Institutions.
- viii. Survey and Awareness program was conducted in Rishikesh on use of Renewable energy in October 2019, October 2017 and October 2016.
- ix. Invited lectures were organized every year on topics belonging to popular science.

18. Reviewer in International Journals

- i. International Journal of Hydrogen Energy
- ii. Journal of Alloys and Compounds
- iii. Surface and Coatings Technology
- iv. International journal of Renewable Energy Research
- v. International Journal of Energy Research
- vi. Materials Research Bulletin
- vii. Electrochemica Acta
- viii. International Journal of Basic and Applied Sciences

- ix. Wiley Macromolecular Symposia
- x. Journal of Energy Storage

19. E-learning Resources

- i. My recorded lectures are available on You tube channel: Playlist- Solid State Physics by Prof. Sumita Srivastava -19 videos
<https://youtu.be/y4wegi0FB7A?si=fdH8yxjTU08qt1F0>
- ii. Created a Blog on “Solid State Physics” primarily to cater the need of B.Sc. students having course on “Solid State Physics”
<https://solidstatephysicsprofsumitasrivastava.blogspot.com>
- iii. Created a Blog on “Renewable Energy and Energy Harvesting” primarily to cater the need of B.Sc. students having course on “Renewable Energy and Energy Harvesting”
<http://sumitasrivastava.blogspot.com>
- iv. My recorded lectures are available on You tube channel: Playlist- Statistical Mechanics by Prof. Sumita Srivastava -8 videos
<https://youtube.com/playlist?list=PL3NUkxXXQHiYm2EqXqA38seNNbWDCu-Lb>
- v. My recorded lectures are available on You tube channel: Playlist- Modern Physics-15 videos
<https://youtube.com/playlist?list=PL3NUkxXXQHiYKhqJqfQTpmXH8z1dC7uDX>
- vii. Lectures are available on New Education policy and NAAC preparation
https://youtube.com/playlist?list=PL3NUkxXXQHiZjf7qdpZCho_p7AVpZhWye
- viii. Lecture on energy sources
https://youtube.com/playlist?list=PL3NUkxXXQHia0F4vd3rpCK_NLgsvjiOdX
- ix. Videos on Environment Conservation Program
<https://youtube.com/playlist?list=PL3NUkxXXQHibGK8YnlgWQO7ZzNeCvJBiq>

20. Linkage and Collaborations/ Student support activities

- i. MOU was signed between Principals of Govt. PG College Purola (Prof. A.K.Tiwari), Govt. Degree College, Barkot (Prof. Vinod Kumar), Govt. Degree College, Thatyur (Prof. Pankaj Pandey), Govt. Degree College, Chinyalisaur (Prof. Prabhat Dwivedi), and Govt. Degree College, Nainbagh (Prof. Sumita Srivastava) for creating e-content. Initiative of IQAC.
- ii. MOU was signed on 15 December 2022 with Narayani Nakshatra Paudhshala Nainbagh for knowledge sharing and help in organic farming, compost pit formation, nursery preparation and fruit orchards.
- iii. MOU was signed on 09 December with Uttarakhand Organic Commodity Board Dehradun for knowledge sharing in organic farming and organic compost farming.
- iv. Created a linkage with AIIMS Rishikesh for research work of M.Sc. Final Year Student Mr.Shubham Gwari to take measurement of Electromagnetic Radiation of Heavy Electrical and Magnetic Instruments for his dissertation entitled “Measurement of Electromagnetic Radiation in Surrounding” under my supervision.

- v. Collaboration with National Physical laboratory, New Delhi for research work on M.Sc. Dissertation by two students Km. Aastha Bhatt and Km. Sandhya Negi (M.Sc.II Semester) under my supervision.
- vi. Collaborated with DRDO Lab Jodhpur for research work on M.Sc. Dissertation by two students Mr. Shashank Kumar and Mr. Maneesh Joshi (M.Sc.II Semester) under my supervision.
- vii. Every year Students are promoted to participate and present their research paper in National Seminars/ workshops.
- viii. Ten students of Physics from PG classes participated in National Physics Experiment Competition on 19.08.2018. Four students qualified for second stage. One student Shashank Kumar participated in final round and got third rank at national Level.
- ix. Every year students get selection in IIT Jam, GATE, NET JRF and JEST examinations.

21. Membership of Professional Organizations

- i. Life member of Indian Association of Physics Teachers (L5464).
- ii. Professional life member of Institute of Scholars, India (InSc20210309)

22. Social Media Links

Research Gate

- i. <https://www.researchgate.net/profile/Sumita-Srivastava>
ORCID Account
<https://orcid.org/0000-0002-1600-4335>
- ii. Google Scholar
<https://scholar.google.com/citations?user=noDNwgUAAAAJ&hl=en>
- iii. Vidwan
Vidwan-ID : 324765
<https://vidwan.inflibnet.ac.in/myprofile>
- iv. Samarth Portal Link
<http://people.samarth.edu.in/index.php/profile/user/custom-profile/UK/i0u>
- v. Scopus ID
<https://www.scopus.com/authid/detail.uri?authorId=55455763300>

Prof. (Dr.) Sumita Srivastava
November 2024