



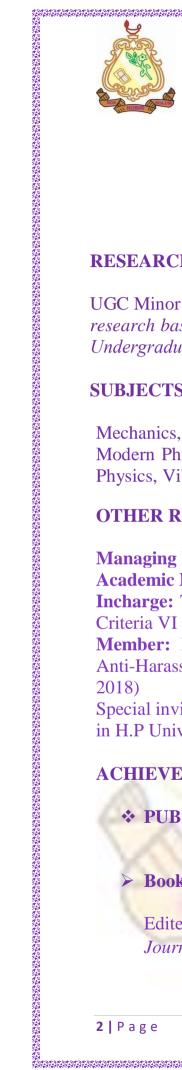


Dr. Sapna Sharma Associate Professor Email:<u>sapna.kaistha2208@gmail.com</u> Official Email:sapna.sharma@stbedescollege1.onmicrosoft.com Mobile No:8219665839

EDUCATIONAL QUALIFICATIONS: M.Sc. (Gold Medal), M.Phil. (Gold Medal), Ph.D., PG Diploma in MCMIS

Sr.	Degree	Subject	College/University	Year of Passing
No.				
1	B.Sc.	Physics	RKMV, Shimla	1987
2	M.Sc.	Physics	Himachal Pradesh University	1989
3	M.Phil.	Physics	Himachal Pradesh University	1990
4	P G Diploma	MIS& MC	Maastricht School of Management, The Netherlands	1999
5	Ph.D.	Physics	Himachal Pradesh University	2014
6	Specialization	Physics	Himachal Pradesh University	Condensed Matter Physics/ Physics Education Research

TOTAL TEACHING EXPERIENCE: 30 Years Teaching Experience at St. Bede's College: 30 years



RESEARCH EXPERIENCE: Major/Minor Project:

UGC Minor Research Project (March 2010- August 2011) titled 'Effectiveness of research based instructional strategies in teaching Solid State Physics course at Undergraduate level: An Empirical Study'.

SUBJECTS TAUGHT

Mechanics, Thermal & Statistical Physics, Computational Physics, Elements of Modern Physics, Quantum Mechanics, Solid state Physics, Nuclear & Particle Physics, Vibrations & Waves, Optics

OTHER RESPONSIBILITIES

Managing Editor: Journal of Research: The Bede Athenaeum Academic Monitor (Science) Incharge: Time Table Committee (Science), Research Promotion Cell, NAAC Criteria VI Member: IQAC, RUSA Committee, Prospectus Committee, PTA, Women Anti-Harassment Cell, Admission Committee, NSS program Officer (2014-2018) Special invitee in BOS of H.P. University; Examiner, Evaluator and Paper setter

in H.P University Examination; Invigilator in University final examination.

ACHIEVEMENTS

* PUBLICATIONS

Books Edited

Edited the special issue on Physics Education Research of the journal: Journal of Research: The Bede Athenaeum Volume 3, No. (1) 2012



- <page-header><image><text><section-header><list-item><list-item><list-item><list-item><list-item><list-item><list-item>



- <image><image><text><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item>



- <image><image><text><text><text><section-header><section-header><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item>



Tracker software to Study Flywheel Experiment' in Annual Convention of IAPT at Bangalore in October 2008

Participation in Conferences and Seminars

A. Refresher and Orientation Courses

- i. 4-Week Orientation Programme organised by Academic Staff College, H.P. University from 09-04-2001 to 05-05-2001.
- ii. 3-week 'Refresher Course in Computer' conducted by Academic Staff College, H.P. University from 17-4-1995 to 6-5-1995
- iii. 3-week 'Refresher Course in Computational Physics' conducted by Academic Staff College, H.P. University from 18th May 1992 to June 6th,1992.

B. Attended Workshops/ Seminars / Webinars/FDP

- i. Two Weeks Online /Orientation Program on Features, Applications and Uses of Moodle LMS organized by Department of Physics, Graphic Era Hill University Dehradun and IAPT from 19th September to 3rd October, 2022
- ii. Webinar on 11th July 2022 on "Revised Accreditation and Assessment Framework in Higher Educational Institutions" organized by IQAC, St. Bede's College, Shimla
- iii. Completed the course 'The story of Photoelectric Effect' (July 15 to August 17, 2021 organized by Centre for Continuing Education, IIT Kanpur
- iv. Short Term Training Programme through ICT Mode on *Numerical and Statistical Methods with SCILAB* organised by NITTTR Kolkata from 21st June to 25th June, 2021
- v. Webinar on 21st September 2020 on National Education Policy-Higher Education organized by St. Bede's College Shimla
- vi. Two-week online FDP (July 25-August 10,2020) on "Managing Online Classes and Co-Creating MOOCs 3.0" under the most coveted MHRD-sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), organized by Teaching Learning Centre

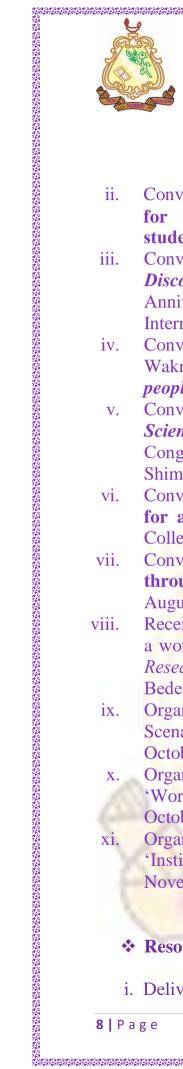


Dr. Sapna Sharma Associate Professor Department of Physics St. Bede's College, Shimla (TLC), Ramanujan College **in association with** Research Development and Services Cell, Ramanujan College, University of Delhi.

- vii. Two-week online FDP (July 25-August 10,2020) on Advanced Concepts for Developing MOOCS' **under the most coveted** MHRD-sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), **organized by** Teaching Learning Centre (TLC), Ramanujan College **in association with** Research Development and Services Cell, Ramanujan College, University of Delhi.
- viii. Two-day online FDP (4- 5August ,2020) on Online Teaching Tools organized by St. Bede's College Shimla
 - ix. A 4-day Teacher Development workshop (December 10-13, 2019) on Thermal Physics & Statistical Mechanics at Homi Bhabha Centre for Science Education, Anushaktinagar, TIFR Mumbai.
 - x. A one-week National workshop *In Silico Approach for Modeling New Materials: Methodology & Applications* (14-20 January 2019) at Department of Physics and Astronomical Science (DPAS); Central University of Himachal Pradesh (CUHP), Dharamshala
 - xi. A 3-day workshop (January 10-12, 2018) on Active Learning in Optics and Photonics and Experimental Problem Solving in Physics at Homi Bhabha Centre for Science Education, Anushaktinagar, TIFR Mumbai.
- xii. Preparatory School to the Winter College on Optics: Advanced Optical Techniques for Bio-imaging (smr3169) at the Abdus Salam Centre for Theoretical Physics (ICTP) Italy from (6-10 February 2017)
- xiii. Preparatory workshop for 46th International Physics Olympiad at Homi Bhabha Centre for Science Education TIFR as member of Academic Assessment Group from 5-12 July, 2015.
- xiv. A 2-Day Workshop on "Design and Development of Physics Curriculum for Excellence" organised by UGC- Academic Staff College, H.P. University on 25-26 March, 2007.
- xv. XXII IAPT Convention and Symposium held at Physics Department, H.P. University from 27-29 October, 2007.

C. Workshops/ Seminars Organized as a

i. Convener in the Faculty Development Program (online) on "Design and Development of MOOCs" from January1-5, 2022 at St. Bede's College Shimla



- Convener in a six-day online workshop entitled 'Spreadsheets: A Tool ii. for Developing Mathematical & Computational Skills in UG students' from 15th to 20th February 2021.
- Convener in a one-day Seminar entitled 'Patterns in Nature and iii. Discoveries in Science" on 13September, 2019 to mark the 150th Anniversary of Periodic Table of Chemical Elements and to celebrate International Year of Periodic Table.
- Convener in a one day workshop in collaboration with Jaypee University iv. Waknaghat to celebrate Science Day on the theme "Science for the people and people for science" on 28 February, 2019
- Convener ina one-day National Seminar entitled 'Celebrating Indian v. Science: From Past to Future' held in collaboration with Indian Science Congress Association (ISCA) Shimla Chapter at St. Bede's College Shimla on 13September, 2018.
- Convener in a one-day workshop on the theme "Science & Technology vi. for a Sustainable Future" held on 28 February, 2018 at St. Bede's College Shimla.
- Convener in Two days National Workshop 'A Celebration of Science vii. through Stage Shows, Lectures and Panel Discussions' held on 10-11 August, 2017, at St. Bede's college Shimla
- viii. Received UGC assistance to conduct a seminar/workshop and organized a workshop cum seminar as organizing secretary on 'Physics Education Research (PER): Research Based Reforms in Physics Instructions' at St. Bede's College Shimla, May 2011
 - Organizing member in International Conference on 'Biodiversity: Current ix. Scenario & Future Strategies' held at St. Bede's College Shimla, on 6-8 October, 2016
 - Organizing member in ICSSR sponsored International Conference on х. 'Work Stress and Health: Recent Perceptions, Future Trends' held in October, 2015 at St. Bede's College Shimla
 - Organizing member in NAAC sponsored National Seminar xi. on 'Institutional Quality Improvement: Role of ICT' held on 14-15 November, 2014 at St. Bede's College Shimla

Resource Person

i. Delivered a talk on 28th July 2022, in Faculty Induction Programme

8 | Page



- <text><text><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item>



University Shimla.

- xiii. Delivered talks on MOOCs at UGC Human Resource Development Centre Himachal Pradesh University Shimla.
- xiv. Delivered talks in 3 weeks Refresher Course Academic conducted by Academic Staff College, H.P. University, Shimla, Himachal Pradesh
- xv. Delivered a talk in Iinternational Conference on Nanotechnology ALIGARH NANO-V and STEMCON16, held at Aligarh Muslim University in Aligarh, Uttar Pradesh, India during March 12-15, 2016.
- xvi. Delivered talks in 12 days In Service Course for PGT (Physics)held at Kendriya Vidyalaya Jakhoo Hills Shimla in May 2016
- xvii. Delivered talks in 12 days In Service Course for PGT (Physics)held at Kendriya Vidyalaya Chandigarh in December 2016
- xviii. Delivered a talk in National Workshop-Cum Orientation Program on "Quality Assurance in Higher Education" under Faculty Development Program in November 2013
 - xix. Delivered a talk in Zonal Convention cum Workshop on Education in Physics and Related Sciences: Structure and Delivery in Classroom for 21st Century at Guru Nanak Public School Ludhiana, Punjab in Nov. 2011

Discussant

• Special Invitee to attend the meeting of UG Board of Studies to design the syllabus and course structure under CBCS for B.Sc. Physics at Himachal Pradesh University, Shimla on June 2016.

* Member of Organisations

• Life member of Indian Association of Physics Teachers (IAPT),

- Former EC member of IAPT RC3
- Life member of Vijnana Bharati.

* Awards

• Gold Medal in M.Sc. Physics (H.P. University)

10 | Page



- Gold Medal in M.Phil. Physics (H.P. University)
- Awarded Fellowship from Govt. of Netherlands for Post Graduate Diploma in MCMIS at the Maastricht School of Management (MSM), Maastricht, (May-August)1999.
- Best Paper Presentation (oral) Award in 23rd Indian Association of Physics Teachers (IAPT) Convention held at Bangalore from 17th to 19th October 2008
- The paper 'Double Pendulum Using a PC' authored by Swathi, Deepa S and **Sapna Sharma** was selected among the best ten entries in the National Competition on Innovation in Computer Programming (NCICP) organized by the Indian Association of Physics Teachers (IAPT) and subsequently won the first Prize after presentation in the Annual Convention of IAPT held at the Centre for Development of Physics Education (CPDE), University of Rajasthan on 11 October, 2011.
- Best Paper Presentation (Poster)Award in International Conference on Biodiversity: Current Scenario & Future Strategies held at St. Bede's College, Shimla on 6th-8th Oct, 2016

