


## BRIEF PROFILE

	<b>Name</b>	<b>Prof. B S Rawat</b>
	<b>Designation</b>	<b>Professor &amp; Head</b>
	<b>Area</b>	<b>Physics</b>
	<b>Email</b>	<b>hodphysics@uttaranchaluniversity.ac.in</b>
	<b>Contact No.</b>	<b>8077479595</b>
<b>Professional Experience</b>	<ul style="list-style-type: none"> <li>• More than 15 years of Teaching &amp; Research experience</li> <li>• Working as Professor. &amp; Head in the Department of Physics at Uttarakhand University, Dehradun, UK.</li> <li>• Five years of teaching experience in the Department of Physics, H.N.B. Garhwal University (A- Central University) Srinagar Garhwal .</li> <li>• Work in Research Projects sponsored by DST and MNRE.</li> </ul>	
<b>Education Qualification</b>	<ul style="list-style-type: none"> <li>• Ph.D, HNB Garhwal University (Central University) Srinagar Garhwal, Uttarakhand, India</li> <li>• M.Sc. Physics, HNB Garhwal University (Central University) Srinagar Garhwal, Uttarakhand, India</li> </ul>	
<b>Area of Research</b>	<b>“Energetics” of renewable energy systems</b>	
<b>Current Research, If any</b>	<b>Fluorescence spectroscopy, thin film, dye doped-polymers , Solar energy</b>	
<b>Publications:</b> <ul style="list-style-type: none"> <li>• <b>Articles in Journals (only Scopus/SCI)</b></li> </ul>	<ul style="list-style-type: none"> <li>• N Fatima, V. Kumar, <b>B S Rawat</b>, K K Jaiswal, (2019), “Enhancing algal biomass production and nutrients removal from municipal wastewater via a novel mini photocatalytic bioreactor”. Biointerface research in applied chemistry. Vol. (1): 4714-4720.</li> <li>• <b>B.S.Rawat</b>, P.Negi, P.C. Pant* and G. C. Joshi, (2018),” Evaluation of Energy Yield Ratio (EYR), Energy Payback Period (EPBP) and GHG-emission Mitigation of Soar Home Lighting PV-Systems of 37 Wp Modules in India”, International Journal of Renewable Energy Research. Vol 8 (1): 459-465. ISSN 1309-0127, Impact factor 0.897, DOI: 10.1002/er.1770</li> <li>• Poonam Negi, <b>B S Rawat</b> and D.S.Negi, (2017),” Phytochemical Analysis and Antifeedant Activity of Caesalpinia decapetala”. Asian Journal of Chemistry, Vol 30 (1), pp-103-106. Publisher:Chemic Publishing Co. ISSN:0970-7077</li> <li>• Poonam Negi, <b>B S Rawat</b> and D.S.Negi, (2016),”Antifeedant Constituents from Leucaena leucocephala” Journal of Applied Pharmaceutical Science. 6(12): 28-31. ISSN 2231-3354 Open science publishers</li> <li>• Pramod Singh, <b>B. S. Rawat</b>, Jagmohan S. Negi, M. S. M. Rawat, Geeta Joshi nee Pant, G. C. Joshi, K. Thapliyal (2013) “Solvatochromic and single crystal studies of 3-(4bromophenyl) 5-phenyl-4,5-dihydro-1H-pyrazole-1-carbaldehyde” Spectrochimica Acta Part A: Molecular and Biomolecular spectroscopy, Vol. 107, p 213-217. (ISSN-1386-1425, Impact factor 2.098).Elsevier.</li> <li>• Pramod Singh, Jagmohan S. Negi, B. S. Rawat, M. S. M. Rawat, Geeta Joshi nee Pant, G. C. Joshi (2011) “Solvent Dependent Fluorescence Study of 5-Phenyl-3-[(E)-2-Phenylvinyl]- 4, 5-Dihydro-1H-Pyrazole-1-Carbaldehyde” Acta Chimica Slovaca, Vol.4 (2), p-136–144.(ISSN:1318-0207, Impact factor 1.328) The Journal of Slovak University of Technology in Bratislava</li> <li>• Geeta joshi nee pant, Pramod, <b>B.S.Rawat</b>, M.S.M Rawat and G.C.Joshi (2011) “Synthesis, characterization and fluorescence studies of 3, 5-diaryl substituted 2-pyrazolines”Spectrochimica Acta Part A: Molecular and Biomolecular spectroscopy, Vol.78, p-1075-1079. (ISSN-1386-1425, Impact factor 2.098). Elsevier.</li> <li>• <b>B.S.Rawat</b>, P.C. Pant* and G. C. Joshi, (2010) “Energetics study of a natural</li> </ul>	

	<p>convection solar crop dryer” International Journal of Ambient Energy, Vol.30 (4), p 193-198. (ISSN: 0143-0750, Impact factor 0.27, H-Index 12). Taylor &amp; Francis</p> <ul style="list-style-type: none"> <li>• Pramod Singh, Bipen Rawat, <b>B.S.Rawat</b>, Geeta joshi nee pant, M.S.M Rawat and G.C.Joshi (2014),”Synthesis of Centrifugal chromatographic separation and fluorescence study of a 2-pyrozolene.” Journal of Indian Chemical Society, Vol 91, p-1555-1560. (ISSN- 0019-4522) Impact factor 0.173. The Society, Calcutta, India (UGC No: <b>230</b>).</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Articles in Refereed Journals:</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>25</b></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Books edited/Chapter contributed/ Books authored</b></li> </ul>	<ul style="list-style-type: none"> <li>• G.C. Joshi and B S Rawat (2016). “An Overview of Energy Payback Period and Greenhouse Gas Mitigation Scenario of Photovoltaic Home Lighting Systems for Different Locations in Uttarakhand”. Energy Resources Development, Harvesting and Management. 139-153</li> <li>• B S Rawat, P C Pant, P. Negi and B Ramola (2020). Energetics and GHG Emission Mitigation Potential Estimation of Solar Water Heating System in India. Intecopen, <a href="http://dx.doi.org/10.5772/intechopen.89938">http://dx.doi.org/10.5772/intechopen.89938</a></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Conferences/Seminars/Workshops/ FDP/MDP attended</b></li> </ul>	<ul style="list-style-type: none"> <li>• One week Faculty Development Programme on Advanced Research &amp; Statistical Techniques Organized by Uttaranchal College of Applied &amp; Life Sciences (UCALS), Uttaranchal University, Dehradun, UK, 22-28 February 2019.</li> <li>• two days workshop on Research Practices and Design for Professionals Organized by Department of Food Technology, Uttaranchal College of Applied &amp; Life Sciences (UCALS), Uttaranchal University, Dehradun, UK, 8-9 February 2019.</li> <li>• one week Faculty Development Programme on Innovative Techniques and Magnitude of Teaching Methodology in Higher Education Organized by Law college Uttaranchal University, Dehradun, UK, 16-22 July, 2018</li> <li>• one week Faculty Development Programme on “Research Methodology”, Organized by Dept of Computer Science &amp; Engineering, UIT, Uttaranchal University, Dehradun, UK, 4-9 Dec 2017</li> <li>• One Day Seminar on “Intellectual Property Rights ” 7<sup>th</sup> Dec 2017, Organized by UCALS In association with UCOST, Uttaranchal University, Dehradun, UK.,</li> <li>• Workshop on “Yoga for Improving Performance”, 3-5 April, 2017, UCALS, Uttaranchal University, Dehradun, UK.,</li> <li>• National Conference on Recent Advances in Science &amp; Technology, 27-28 Feb. 2107, UCALS, Uttaranchal University, Dehradun, UK.</li> <li>• National Conference on Alternate Energy Resources, Environment Protection and Global Economic Growth. Sep 9-10, 2016, DIT, Dehradun (UK).</li> <li>• International conference on Innovative Trends in Engineering Science and Technology, March 18-19, 2016, UIT, Dehradun, UK, India,</li> <li>• National Symposium on “Biofuel: Indian Scenario. 29 April, 2016, UIT, Dehradun, Uttarakhand (UK).</li> <li>• Physics Olympiad Exposure Camp -2010 Organized by Homi Bhabha Centre for Science Education, TIFR, and Mumbai.</li> <li>• 2<sup>nd</sup> Rashtriya Yuva Vaigyanik Sammelan-2010 Organized by Vijnana Bharati, Doon University and UCOST.</li> <li>• 4<sup>th</sup> Uttarakhand State Science and Technology Congress (2009), Organized by U-COST Uttarakhand and GBPUAT on 10-12 November at Pantnagar (UK).</li> <li>• National Seminar on Recent Trends in Renewable Energy Sources and Technologies (PREST) and workshop on Solar Photovoltaic Systems, 26-28<sup>th</sup> March (2008).</li> <li>• 3<sup>rd</sup> Uttarakhand State Science and Technology Congress (2008), Organized by U-COST Uttarakhand and IIT Roorkee on 10-11 November at Roorkee (UK).</li> <li>• National Workshop on Solid State Nuclear Track Detectors, (2007), Organized by nuclear track society of India (NWSSNTD) and deptt. of Physics, swami shukdevanand (P.G.) college, Shahjahanpur (U.P.)</li> <li>• 2<sup>nd</sup> Uttarakhand State Science and Technology Congress (2007), Organized by U-COST Uttarakhand and Kumaun University on 15-18 November at Nainital (UK).</li> <li>• Participated in Workshop on Physics from atom to Galaxy-theoretical and technical status, (2006), Organized by department of Physics, HNBGU.</li> </ul>

	<ul style="list-style-type: none"> <li>• International Seminar on Forests, Forest Products and Services; Research, Development and Challenges Ahead (2006), Organized by Department of Forestry, HNB Garhwal University, Srinagar, Garhwal, Uttarakhand.</li> <li>• National Seminar on Rural Technologies to be held at Bhopal (2006), Organized by Vijnana Bharti Madhya Pradesh, Bhopal.</li> <li>• National Seminar on Recent Trends in Renewable Energy Sources and Technologies (PREST) and workshop on Solar Photovoltaic Systems, 26-28<sup>th</sup> March, 2006, HNBGU Srinagar Garhwal (UK).</li> <li>• Participated in Physics of Solar Energy “International Year of Physics (IYP) - 2005” Organized by MNES and ASSCP-BHEL, Gurgaon, Haryana.</li> <li>• Training Program on “Photovoltaic System Design, Operation, Maintenance and Repair of Solar PV Systems”, (2005) at Solar Energy Center, Ministry of Non-conventional Energy Sources, Govt. of India, New Delhi.</li> <li>• Asia Pacific Drying Conference-2005 (ADC-2005) to be held at Science city, Kolkata, organized by Central Mechanical Engineering Research Institute.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Any extra-curricular activities</b></li> </ul>	<ul style="list-style-type: none"> <li>• Member of CRC and DRC committees</li> <li>• Member of academic review committee, SALS.</li> <li>• Member of Proctorial board, SALS.</li> <li>• Member of examination committee, SALS.</li> <li>• Working as a member of flying squad, UU.</li> <li>• Working as a member secretary in the committee of Board of Studies of Physics Department, SALS, UU.</li> <li>• Member of Discipline &amp; Anti- Ragging Committee, SALS.</li> <li>• Member of research and development committee, SALS.</li> <li>• Member of Advisory Committee in the “National Workshop on research practices and design for professionals”, organized by Department of Food Technology, UCALS, UU, India, 8-9 Feb 2019.</li> <li>• Convener in the Workshop on “MATLAB and its Applications” organized by Department of Physics, UCALS, Uttarakhand University Dehradun, UK, India, 13-14, September 2018</li> <li>• Member of Organizing Committee in the “International Conference on New Horizon in Green Chemistry &amp; Technology” organized by UCALS, Uttarakhand University Dehradun, UK, India, 27-28, November 2018.</li> <li>• Co-Convener in the “National Conference on Recent Advances in Science &amp; Technology” organized by Department of Chemistry, Uttarakhand University, Dehradun, UK, India, 27-28 Feb 2017.</li> <li>• Member of Organizing Committee in the “National Seminar on New Horizons in theoretical and experimental Physics (NHTEP-2015)”, organized by Deptt of Physics, Gov. (PG) College Gopeshwar, Chamoli, Garhwal, UK 19-20 Feb, 2015.</li> <li>• Member of Organizing Committee in the National Workshop on “Concept of Physics, Popular Lectures, Demons and Low Cost Experiments”-2 organized by Deptt of Physics, Gov. Degree College Joshimath, Chamoli, Garhwal, UK 21-22 February 2015.</li> <li>• Member of Organizing Committee in the National Seminar on “Recent trends in micro and macro Physics (NSRTMMP-2011)”, organized by Deptt of Physics, Gov. (PG) College Gopeshwar, Chamoli, Garhwal, UK, 12-13 october-2011.</li> <li>• Member of Organizing Committee in the National Seminar on “Recent Trends in Renewable Energy Sources and Technologies (PREST) and workshop on Solar Photovoltaic Systems”, Deptt of Physics, HNBGU, Srinagar Garhwal, UK, 26-28<sup>th</sup> March 2008, UK, India.</li> </ul>