

Curriculum Vitae

1. Name/Address: **Dr. Bhagya Sindhu Tewari**

Associate Professor

G.B. Pant Institute of Engineering and Technology,
Pauri Garhwal. Uttarakhand- India

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2. (a) Educational qualifications:

Ph.D. (Major-Physics and Minor- Computer Science) (2008): G.B. Pant University of Ag. & Technology Pantnagar India. Thesis title “Influence of the third dimension on the electronic spectra and out-of-plane transport behaviour in bilayered high T_c cuprates in normal state”

M.Sc. (Physics) (2004): G.B. Pant University of Ag.& Technology Pantnagar India, with first division and secured first position in M.Sc. Physics 2004 batch of university.

B.Sc. (Physics, Chemistry and Mathematics) (2002): Kumaun University, Nainital, India with first division.

CSIR NET qualified in Physical Sciences (AIR 11) and **JEST** quantified in Physics (AIR 236) in 2006.

Advance Graduate Course (Statistical and Condensed Matter Physics)-(2008) from Indian Institute of Science, Bangalore India.

2 (b) Research Specialization: (Theoretical Condensed Matter Physics)

Theoretical modelling and computer simulation of the electronic spectra, transport, magnetic and superconducting properties of strongly correlated systems such as high T_c superconductors within the framework of many body field theoretical approach, and also currently involved in the theory and modelling of quantum transport in nano-structured superconducting -quantum dot tunnel junctions (**Annexure 1**).

3. Teaching/Research experience (14 Years):

Associate Professor (Dec 2019–till now): At the department of Applied Science and Humanities (Physics), G.B. Pant Institute of Engineering and Technology, Pauri Garhwal India.

Associate Professor (Jan 2017– Dec 2019): At the department of Physics, University of Petroleum and Energy Studies (UPES), Dehradun India.

Assistant Professor (July 2010–Dec 2016): At the department of Physics, University of Petroleum and Energy Studies (UPES), Dehradun India.

Senior Lecturer (Aug 2009–June 2010): At the department of Physics, Tula’s Institute, Dehradun India.

Lecturer (Dec 2008– July 2009): - At the department of Physics, SIET Greater Noida, India.

Junior Research Fellow (2005 - 2007): at department of Physics, G.B. Pant University of Ag.& Technology Pantnagar India in Department of Science and Technology (DST) project entitled “**Spectral properties of underdoped cuprates.**”

4. Research Papers/Books Published/Reviewer for : (details Annexure-II)

- (a) Refereed Journals- 19 (+ 04 are in under review/under preparation):
- (b) Book/Book Chapter published - 5 (+3 under preparation)
- (c) Total Research Papers including Contributions in Conferences/Symposia-20
- (d) Reviewed articles for SCI journals

5. Participation/Organization in FDP/ Refresher Courses/Workshop etc. (details Annexure-III)

- (a) Participation in - 11
- (b) Organization –04

6. Honours/Awards/Scholarships received

1. Recipient of “**Him Jyoti Scholarship**” from Governor of Uttarakhand during 2003-04.
2. Recipient of “**Junior Research Fellowship**” from Department of Science Technology (DST), New Delhi during Aug 05, 2005 to March 31, 2007.
3. Recipient of “**International Travel Award**” from University of California, Davis USA to participate in Cargese Summer School held at University of Paris –Sud, Orsay France
4. Ph.D. thesis is selected for “**Best Thesis Award**” category at 53-rd DAE, SSPS held at Bhabha Atomic Research Centre, Mumbai during 16-20 Dec. 2008.
5. Recipient of “**International Travel Award**” support from Department of Science Technology (DST), New Delhi to participate in Workshop held at University of Bremen Germany during Sep 2012.
6. Recipient of “**Teacher of the year 2021**” award at Uttarakhand Technical University, Dehradun by Chief Minister of Uttarakhand on 05 Sep 2021.

7. Other Academic Services

- External resource person for BOS meeting of Applied science at BTKIT Dwarahat (2017).
- Delivered an expert talk as resource person in Virtual Workshop on “**Lectures and Virtual Practical Demonstration**”, organized by Department of Physics, School of Sciences, Uttarakhand Open University, Haldwani (Nainital), Uttarakhand, India during 07- 19 July 2020.
- External resource person for BOS meeting of Applied Science at BTKIT Dwarahat (2020).

- Expert member of the selection committee for JRF in DST-SERB funded project at UPES on 20 June 2020.
- Delivered an expert talk as resource person in FDP on “**Advantages of New education policy in the Indian context**”, organized by Department of Applied Sciences, BTKIT Uttarakhand, India during 21-25 Oct 2020.
- External expert for Departmental Consultative Committee meeting of Applied Sciences at University of Petroleum and Energy Studies, Dehradun on 29 September 2021.
- Expert member in Sub-Committee of Academic Council meeting at University of Petroleum and Energy Studies, Dehradun held on 06 October, 2021.

8. Administrative Responsibilities

- President of student union (Math) at PNG PG College Ramnagar during 2001-02.
- Wing Counselor of Chitranjan Bhawan II during 2003-04 at G B Pant University, Pantnagar.
- Hostel Captain (Table-Tennis) in Chitranjan Bhawan II during 2003-04 at G B Pant University, Pantnagar.
- Hostel Captain (Badminton) in Shastri Bhawan during 2005-06 at G B Pant University, Pantnagar.
- Student Incharge of departmental co-curricular activities of physics department at G B Pant University, Pantnagar.
- Lab in-charge of Physics Lab during session 2010-11 at UPES Dehradun
- Course coordinator of B.Tech GSE II year from July 01, 2011 to June 30, 2012 at UPES Dehradun.
- Course coordinator of B.Tech FSE I year from July 01, 2012 to June 30, 2015 at UPES Dehradun.
- Organizer of Science- Olympiad for B.Tech students for session 2015-16 at UPES Dehradun.
- Organizer of Science- Engineering connect for B.Tech students for session 2016-17 at UPES Dehradun.
- Organizer of PHYSIC-O-PEDIA under IGNITE, a technical festival held at UPES Dehradun during 2017-18.
- Group Head for Engineering Branches at Physics department at UPES Dehradun from July 2015 to Dec 2019.
- Coordinator of time table and load distribution committee at physics department, UPES Dehradun from July 2015 to Dec 2019.

DECLARATION

I certify that the information given above is correct to the best of my knowledge.

Bhagya Sindhu Tewari

Annexure-I

Brief Research Statement and Rennovations

Currently, I am actively involved in the research activities with special emphasis on theoretical modeling and numerical computation of the electronic properties of Strongly Correlated Systems such as High T_c cuprate Superconductors and low dimensional materials where electronic correlations play a dominant role. I have also involved in the teaching of physics courses at GBPIET Pauri. A high light of research activities carried out is presented below:

Spectral properties of layered high T_c Superconductors:

The recent Angle Resolved Photoemission Spectroscopic (ARPES) measurements point a mark difference in the electronic spectra of single layer ($\text{Bi}_2\text{Sr}_2\text{CuO}_{6+x}$), bilayer ($\text{YBa}_2\text{CuO}_{7-x}$, $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$) as well as trilayer cuprates ($\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+x}$) in underdoped, optimal doped and overdoped regimes. The ARPES electronic spectrum of doped $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ showed a bilayer splitting and broadening in electronic spectral function at $(\pi, 0)$ point of the Brillouin zone in normal state, while in the superconducting state the ARPES electronic spectra becomes sharp and a peak-dip-hump line shape is observed. In the single layer cuprates, the spectral function remains suppressed at Fermi level without any bilayer splitting effects in underdoped regime. To explain the above observed spectral features of doped cuprates we have attempted theoretical studies within the frame works of the extended t-J and Hubbard models by including next nearest neighbor hopping (t'), second nearest neighbour hopping (t'') and three site exchange interaction terms that dominant in CuO_2 planes along with the inter unit cell couplings between CuO_2 planes as well as strong electronic correlations. The many body Green's function equations of motion approach within Hubbard self-energy approximation, higher order decoupling of equations of motion approach, as well as semi-classical approximation have been employed to obtain the expressions of electronic spectral function, the density of states and other spectral properties in underdoped, optimal doped as well as overdoped regimes. On the basis of numerical analysis of our theoretically obtained spectral function and density of states as a function of doping and other parameters of model Hamiltonian, we found a good correspondence with the existing ARPES measurements in doped high T_c cuprates in normal as well as superconducting states.

Transport behaviour of layered high-T_c cuprates:

Further, the influence of intra cell coupling and inter unit cell resonant tunnling is also studied within the frame work of tight-binding Hubbard model relevant for high temperature cuprate superconductors having double layer of copper-oxygen planes per unit cell. By employing Green's function equation of motion technique, we have attempted theoretical analyses of c-axis conductivity within Kubo formalism in layered cuprates having two layer per unit cell by including the contributions of inter unit cell resonant tunneling along with strong electronic correlations.

Electronic transport through superconducting quantum dots nano junctions:

Superconducting quantum dot (SQD) is a hybrid of two different physical worlds. It consists of a quantum dot, which is basically a device that allows us to store and manipulate single electrons and superconducting leads, where superconductivity is a quantum phenomena with trillions of electrons acting together in the form of condensate. Such a combination leads to a rich playground where many physical phenomena can be observed and tested in controllable manner. These include quantum phase transitions, Kondo physics, exotic quasi-particles or changing the direction of the current just by manipulating the superconducting phase. Moreover, because SQDs are basically a tunable Josephson junctions, they have a tremendous potential for real world applications.

I am also involved in the theoretical analysis of the many body effects on the electronic conductance through a nanoscopic superconducting quantum dot junction where there is a coupling between the single particle states at the quantum dot and two particle (bound pairs of electrons) states around the Fermi level in superconducting electrodes (source and drains). Initially we have assumed s-wave symmetry of superconducting order parameter which may be extended later for a d-wave symmetry as observed in high temperature cuprate superconductors. To understand the physics of Josephson's supercurrent through such junctions we have included the contribution of quantum many body effects: competing single particle and Josephson Cooper pairs tunneling, on dots Coulomb interaction as well as level energy on the dots as a function of the temperature of the junction. We have employed Green's function technique to obtain the expression of the supercurrent across the S-QD-S junction. As of now, we have analysed numerically the theoretically obtained Josephson's current and electronic spectra of Cooper pairs and compare the results in the light of existing experimental results available for such superconducting quantum dots junctions.

I would like to continue my research activities on the theoretical modeling of the electronic properties of strongly correlated low dimensional systems such as high temperature cuprate superconductors and quantum transport across nanostructured superconducting quantum dot tunnel junction using many body field theoretical and computational technique :the frontal area of computational condensed matter physics wherein I have published research papers in reputed international Journals (**Annexure-II**)

Annexure-II

(a) List of Research Publications in Journals:

1. **B.S. Tewari**, Ajay and R. Kishore
Influence of three site exchange interaction on the spectral properties of layered high T_c cuprate superconductors; **Physica C** **468**, 237 (2008)
2. **B.S. Tewari**, A. Dhyani and Ajay
Influence of inter cell resonant tunneling on the out-of-plane electronic transport behavior in layered high T_c cuprates; **Eur. Phys. J. B** **66**, 67 (2008)
3. A. Dhyani, **B.S. Tewari**, Ajay
Study of the Josephson Supercurrent through Nanoscopic Superconducting-Quantum Dot Tunnel Junction; **Physica E** **41**, 1179 (2009)
4. A. Dhyani, **B.S. Tewari** and Ajay
Interplay of the single particle and Josephson Cooper pair tunneling on supercurrent across the superconducting quantum dot junction, **Physica E** **42**, 162 (2009)
5. Ajay, **B.S. Tewari** and Govind
Influence of Intra and inter unit cell couplings on the electronic spectra in bilayer high T_c cuprates; **Journal of Modern Physics**, **2**, 759 (2011)
6. **B.S. Tewari**, A. Dhyani, S.K. Joshi Kailash Pandey and Santosh Dubey,
Study of magnetic property of Sn doped Ni-Zn-Fe nanoparticles; **Conference Papers in Science**, vol. **2014**, Article ID 816970, 5 pages, 2014. doi:10.1155/2014/816970.
7. Santosh Dubey, **B.S. Tewari** and S.K. Joshi,
On the Issue of Radiation-Induced Instability in Binary Solid Solutions; **Conference Papers in Science**, vol. **2014**, Article ID 849241, 5 pages, 2014. doi:10.1155/2014/849241.
8. S. K. Joshi, **B. S. Tewari**, Rajeev Gupta and Santosh Dubey,
Opto-Thermal Characterisation of Neodymium -doped Zinc Phosphate Glasse; **International Journal of Science, Technology & Management**, **4**, 1 (2015).
9. A. Dhyani, Rajendra Kumar, **B.S. Tewari**, Ajay
Tunable Josephson supercurrent through a two level quantum dot superconductor tunnel junction; **Journal of Computational Electronics**, **14**, 139 (2015)
10. A. Dhyani, P.S.Rawat, **B.S. Tewari**,
Spectral density of Cooper pairs in two level quantum dot–superconductors Josephson junction; **Physica C** **528**, 1 (2016)
11. A. Dhyani, P. Dua, A.K. Chawla and **B.S. Tewari**,
Effect of Coulomb Blockade on Josephson Super Current Across Superconductor/Quantum Dot/Superconductor Nano Junction; **Journal of Pure and Applied Science & Technology** **8(2)**, 9 (2018)

12. Harshita Gangwar, Virendra Singh, **B. S. Tewari**, Himanshu Gupta, L.P.Purohit
Study of zinc doped tellurite glasses using XRD, UV-Vis and FTIR; **Materials Today: Proc. 17, 329 (2019)**.
13. **B.S. Tewari**, M. Tewari, A.Dhyani, Ajay
Study of inter-band pair transfer and density of states on isotope effect in TTF[Ni (dmit)₂]₂ organic superconductor; **Physica C 571, 1353591 (2019)**.
14. A.Dhyani, P. Mandal, P.S. Rawat, **B.S. Tewari**
Electronic and Cooper pair tunneling signatures in the electronic spectra of superconductors coupled to quantum dot nano-junction: **Physica C 571, 1353673 (2020)**.
15. P. Mandal, **B.S. Tewari**
Near-Field Manipulation And Metallic Cavity Assisted High Surface Enhanced Raman Scattering Detection: **AIP Conference proceeding 2265, 30689 (2020)**.
16. Mukesh Kumar, M.S. Goyat, R. Chandra, R.K. Tiwari, **B.S. Tewari**
Influence of SiC thin films thickness on the electrical properties of Pd/SiC thin films for hydrogen gas sensor; **Vacuum 182, 109750 (2020)**.
17. **B.S. Tewari**, M. Ahlawat, A.Dhyani, Ajay
Influence of interlayer coupling and pseudo gap on isotope effect in high T_c layered cuprate superconductors; **Physica C 587, 1353895 (2021)**.
18. **B.S. Tewari**, P.Mandal, and A. Dhyani
Optical transmission through MDM plasmonic tri-layer consisting of T and L shape periodic structures; **TUSCI , 15(1), 530 (2021)**.
19. P.Mandal and **B.S. Tewari**
Progress in surface enhanced Raman scattering molecular sensing: a review; **Surface and interfaces, 28, 101655 (2021)**.
20. **B.S. Tewari**, P.S. Rawat, K. Pandey and A. Dhyani
Spectral Density of Cooper Pairs in T- shaped Double Quantum Dots –Superconductor Josephson Junction **(manuscript submitted 2021)**.
21. **B.S. Tewari**, Ajay and A. Dhyani
Pseudogap features in the electronic spectra of doped high T_c cuprate, **(manuscript under preparation 2021)**.
22. **B.S. Tewari**, T. Bagarti, and A. Dhyani
Current reversal in a many particle flashing ratchet, **(manuscript under preparation 2022)**.
23. M.S. Goyat, **B.S. Tewari** et al.,
Toughening assessing thermo-mechanical behavior of epoxy nano-composite reinforced with mesoporous silica; **(manuscript under preparation 2022)**.

(b) Books/Book Chapter authored

S.N.	Title with page no.	Book/Chapter	Publisher	Publication Year	National/International publisher
1	Study of Sn doped Ni-Zn ferrites	Book	LAP Germany	2012	International
2	Plane, Circularly and Elliptically polarized light (217-233)	Book Chapter (Optics)	Uttarakhand Open University, Haldwani, Uttarakhand	2018	National
3	Optical activity (234-250)	Book Chapter (Optics)	Uttarakhand Open University, Haldwani, Uttarakhand	2018	National
4	Four-Vector formalism of Maxwell's Equations	Book Chapter (Electrodynamics)	Uttarakhand Open University, Haldwani, Uttarakhand	2020	National
5	M-Type hexagonal ferrite for microwave absorption applications	Book Chapter (Ferrite nanostructured magnetic materials)	Elsevier	2021	International
6	Quantum information processes: Role of quantum logic gates	Book Chapter	CRC press	2022 (under process)	International

(c) Research Contributions in Conferences and Seminars:

1. Ajay, **B.S. Tewari**, Govind and S.K. Joshi,
Electronic spectra of bilayer high T_c cuprates: role of intra and interunit cell couplings, Presented at **International Workshop on the Physics of Mesoscopic and Disordered Materials (MESODIS)**, held at , **Physics Department IIT-Kanpur**, Dec. 04-08 (2006)

2. M.P. Singh, **B.S. Tewari** and Ajay,
Temperature and carrier density dependence of anisotropy in supercurrent density in layered cuprate superconductors, Presented at **51-th DAE, Solid State Physics Symposium** held at **Barktullah University, Bhopal**, during 26-30 Dec. (2006)
3. P.K. Pathak, **B.S. Tewari**, Ajay and R. Kishore,
Pseudogap in the electronic spectra of doped high T_c cuprate in normal state,
Oral presentation in **International Conference on Condensed Matter Physics (ICOMP-2007)** held at **University of Rajasthan**, during 25-28 Nov. (2007)
4. **B.S. Tewari**, Ajay and S.K. Joshi,
Influence of long range hoppings and three site exchange interaction on the electronic spectra of bilayer cuprate Superconductors: presented (poster) at Summer School on **“From BCS to Exotic Superconductivity”**, held at **Cargese, France**, during July 16 to 28, (2007)
5. Archana Dhyani, **B.S. Tewari**, and Ajay
Electronic Transport Behaviour through Nanoscopic Superconducting Quantum Dot Josephson Junction, presented (poster) in School on **“Low Dimensional Nanoscopic Physics”** held at **Harish Chandra Research Institute, Allahabad**, during 28 Jan to 09 Feb (2008)
6. **B.S. Tewari**
“Influence of the third dimension on the electronic spectra and out-of-plane transport behaviour in bilayered high T_c cuprates in normal state”, **Presented thesis under the category of Best Thesis Award** at **53-rd DAE, Solid State Physics Symposium** held at **BARC, Mumbai** during 16-20 Dec. (2008)
7. Archana Dhyani, **B.S. Tewari** and Ajay
Electronic Structure and Quantum Transport in nanoscale Superconducting quantum Dot junction, presented and awarded **“Best Presentation Award”** at “National Symposium on nanoscale Science and Technology”, held at **Maharaj Singh College Saharanpur**, during Feb 21-22, (2009)
8. Archana Dhyani, **B.S. Tewari** and Ajay,
Role of Josephson Cooper pair tunneling on S-Qd-S junction, Presented at **54-th DAE, Solid State Physics Symposium** held at **M.S. University of Baroda, Vadodara**, during 14-18 Dec. (2009)
9. Ajay, **B.S. Tewari** and Govind
Influence of Intra and inter unit cell couplings on the electronic spectra in bilayer high T_c cuprates, Presented at **International conference on Superconductivity and Magnetism (ICSM-2010)** held at **Antalya, Turkey**, during 25-30 April (2010)
10. A. Dhyani, **B.S. Tewari** and Ajay
Study of Josephson supercurrent across a correlated Quantum dot coupled to s -wave superconducting leads, Presented at **“SCES 2011 - Commemorating 100 Years of Superconductivity”** held at **University of Cambridge, London, UK**, during 29 Aug - 03 September (2011)
11. **B.S. Tewari** and A. Dhyani
Josephson supercurrent across S-QD-S junction, Presented at **“CECAM workshop “Graphene: From band structure to many body physics”** held at **University of Bremen, Bremen, Germany**, during 03 - 07 September (2012)
12. A. Dhyani, **B.S. Tewari** and Kailash Pandey

- Josephson Supercurrent through double level –Quantum dot, in **8 Uttarakhand State Science and Technology conference-2013** held at Doon University, Dehradun during 26-28 Dec 2013.
13. Kailash Pandey, A. Dhyani, **B.S. Tewari** and Piyush Kuchhal
Fission Barrier Height Determination of Actinides Nuclei, in **8 Uttarakhand State Science and Technology conference-2013** held at Doon University, Dehradun during 26-28 Dec 2013.
 14. Manish Dubey, N.A. Siddhqui and **B.S. Tewari**
Health Risk assessment of mobile tower radiation in India, in **8 Uttarakhand State Science and Technology conference-2013** held at Doon University, Dehradun during 26-28 Dec 2013.
 15. **B.S. Tewari**, S.K. Joshi and A.Dhyani
Spectral density and Josephson current through two level quantum dot junction coupled to superconducting leads. in **National conference on condensed matter physics and applications** held at MIT, Manipal during 27-28 March 2015.
 16. Santosh Dubey, S.K. Joshi and **B.S. Tewari**
Temporal Stiffness in Metallic Alloys under irradiation. in **CONIAPS XIX** held at Kumaun University, Nainital during 17-19 Nov 2016.
 17. A.K.Chawla, **B.S. Tewari** and Sudesh Sharma
Annealing effect on the Optical Properties of Nano-crystalline Silver films. in **International conference on Nano for Energy and Water & Indo French Workshop on Water Networking** at UPES, Dehradun during 12-24 Feb 2017.
 18. Harshita Gangwar, Virendra Singh, **B. S. Tewari**, Himanshu Gupta, L.P.Purohit
Study of zinc doped tellurite glasses using XRD, UV-Vis and FTIR. in **International Conference on Advanced Materials Energy & Environmental sustainability**.at UPES, Dehradun during 14-15 Dec 2018.
 19. P. Mandal, **B.S. Tewari**
Near-Field Manipulation And Metallic Cavity Assisted High Surface Enhanced Raman Scattering Detection. in **64th DAE Solid State Physics Symposium at IIT Jodhpur** during 18-22 Dec 2019.
 20. A. Dhyani, P Mandal, P S Rawat, **B S Tewari**
Electronic spectra of superconducting quantum dot junction: Role of electron and Cooper pair tunneling. in **64th DAE Solid State Physics Symposium at IIT Jodhpur** during 18-22 Dec 2019.

(d) Reviewed articles for journals

- Journal of Physics and Chemistry of Solids (Elsevier, I F- 3.442)
- Vacuum (Elsevier, I F- 3.627)
- Applied Physics A (Springer, I F- 1.584)
- Journal of Taibah University of Science (Taylor and Francis IF- 2.688)

Annexure-III

(a) Participation in Special Trainings:

S.N.	Programme	Duration	Organised by
1	Scientific Computing: Theory and Practices	30 Oct – 06 Nov 2006 (01 week)	G.B. Pant University of Agriculture and Technology, Pantnagar, India
2	Cargese Summer School	16-27 July 2007 (02 weeks)	University of Paris –Sud, Orsay, France
3	Advance Graduate School in Statistical and Condensed Matter Physics	16 Jan-30 April 2008 (04 months)	Indian Institute of Science, Bangalore. India
3.	Graphene: from band structure to many body physics	03-07 Sep. (2012) (01 week)	University of Bremen, Germany
4	First international Seminar on Nanotechnology in Conventional and Alternate Energy Systems	12-13 Aug 2013 (02 days)	University of Petroleum and Energy Studies, Dehradun. India
5	Basic Numerical Computation using LINUX operating Systems	17 Sep 2017 (1 day)	University of Petroleum and Energy Studies, Dehradun. India
6	Sci Lab workshop	04 May 2019 (01 day)	Indian Institute of Technology, Bombay. India
7	Modern experiments in applied physics	24-28 Feb 2020 (01 week)	NITTTR Chandigarh, India
8	Specialization in online teaching (Coursera Courses)	01May-28 June 2020 (02 months)	University of California, Irvin, USA
9	Advances in material sciences and technology	22-26 June 2020 (01 week)	University of Petroleum and Energy Studies, Dehradun. India
10	Techno-Economical and Environmental Aspects of Electrical Energy	07-18 September 2020 (02 weeks)	G.B. Pant Institute of Engineering and Technology, Pauri

	Systems for Sustainable Development”		Garhwal
11	Tools and Scientific communication for research article and proposal writing	19-23 September 2020 (01 week)	G.B. Pant Institute of Engineering and Technology, Pauri Garhwal

(b) Organization of Refresher Courses/Conference/Seminars/Workshops etc.

S.N.	Title of Conference/ Seminar etc	Date(s) of the event	Organized by	As a member of organizing/ advisory committee	Whether International/ National/ State level
1	10th Uttarakhand State Science and Technology Congress	10-12 Feb 2016	UCOST Dehradun	As a member of Organizing committee	State level
2	First international Seminar on Nanotechnology in Conventional and Alternate Energy Systems	12-13 August 2013	University of Petroleum and Energy Studies, Dehradun	As a member of Organizing committee	International
3	International conference on Advanced Materials Energy & Environmental sustainability.	14-15 Dec. (2018)	University of Petroleum and Energy Studies, Dehradun	As a member of Organizing committee	International
4	Webinar on “Bazigar Mindset for Professional Success”	9 Oct. (2020)	G.B. Pant Institute of Engineering and Technology, Pauri Garhwal	As faculty coordinator	College level