

Resume

DR. SUYASH BHARDWAJ

Official Address: Dr. Suyash Bhardwaj CSI State Student Coordinator for Uttarakhand NPTEL, SPOC for GKV UBA Coordinator, GKV Life Time Member CSI, ISCA, IAENG Senior Member UACEE, ICST, ISEIS, IUCEE Assistant Professor Department of Computer Science & Engineering Faculty of Engineering & Technology Gurukul Kangri Deemed to be University, Haridwar	Residential Address: Brahmavarchas, House Number 1-B, Gangotri Street, Vishnu Garden, P.O. Gurukul Kangri Deemed to be University, Haridwar, Uttarakhand Phone: (M) 9719580167, 7300761271 E-mail: suyash.bhardwaj@gmail.com suyash.bhardwaj@gkv.ac.in website : www.suyashbhardwaj.in
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Personal Profile

I am an enthusiastic and dedicated professional with experience in areas of Teaching and Learning in computer science. I can demonstrate a strong ability to manage different subjects varying from conceptual level to application levels. I am a proactive individual with a logical approach for challenges, and conceptual approach for problems in research areas of computer science. I perform effectively even within a demanding environment.

Objective

I am looking to explore my capabilities within the research dimensions; therefore, I am keen to find a new and suitably challenging role in a leading organisation; So that my abilities of hard work and dedication can flourish and can be used for the benefits of the organization. While working in a growing organization my knowledge, attitude of learning, adaptability, analytical approach and innovative mind can be used for a good advantage.

Experience

Teaching Experience	11 years
Research Experience	11 years
Papers Published in Journals	18
Papers presented in Conference	41
Ph. D. Students Enrolled / Awarded	2/0
Books/Chapter published	3
Patent Published/Granted	4/2
Short Term Course / Workshops Attended	47
Online Courses Completed	9
Awards and Appreciation	20
Invited Talk Delivered	38
Google Citation	230
Scopus Citation	67
Orcid id	https://orcid.org/0000-0003-3532-6847
Web of Science Page	https://www.webofscience.com/wos/author/record/HMO-5360-2023
IEEE Scholar page	https://ieeexplore.ieee.org/author/37088426561
Google Scholar Page	https://scholar.google.com/citations?user=GX7MrBMAAAAJ&hl=en

Academic Qualification

Degree	Institute/ Board	Year of Award	%age	Div
Ph. D	Gurukul Kangri University, Haridwar (Uttarakhand)	2019		
M. Tech, CSE	Shobhit University, Meerut (Uttar Pradesh)	2011	8.95 (CGPA)	I st
B. Tech, CSE	Gurukul Kangri University, Haridwar (Uttarakhand)	2008	76.6	I st
10+2	D.A.V. C.P.S., Haridwar, C.B.S.E., New Delhi	2004	65.4	I st
10 th	D.A.V. C.P.S., Haridwar, C.B.S.E., New Delhi	2002	75.4	I st

Work Experience

- Assistant Professor (Regular), Computer Science & Engineering, Faculty of Engineering and Technology, Gurukul Kangri University, From 30th July. 2012 to till date.

Subjects Taken

- System Software
- Programming in C
- Data Structures
- Computer Networks
- Software Engineering
- Computer Architecture
- Design and Analysis of Algorithms,
- Artificial Neural Network
- Theory of Computer Science,
- Automata and formal languages,
- Compiler Design and Applications,
- Advance Data Structures
- Distributed Systems
- Operating System
- Artificial Intelligence.
- Introduction to data science and design thinking

Orientation/ Refresher Course Attended

- UGC sponsored Orientation Program (OP- 29) at UGC, Academic Staff College, Kumaun University, Nainital during March 02, 2015 to March 28, 2015
- UGC sponsored Refresher Course in Information Technology at HRDC, Gurunanak Dev University, Amritsar, Punjab during June 23, 2016 to July 13, 2016.
- UGC Sponsored Refresher Course in Information and Communication Technology (MD) at HRDC, Lucknow from August 09, 2021 to August 21, 2021

Papers Published in Journals

- Published a paper on “Sanskrit a programming language” in Journal of Natural and Physical Sciences (JNPS), volume 24, No 1, 2011 pp 83-87, ISSN – 097- 3799. **[National]**
- Published a paper on “A Novel approach for optimization in Mathematical calculations using Vedic Mathematics Techniques” in Mathematical Journal of Interdisciplinary Sciences (MJIS), Vol. 1, Issue 1, July 2012, pp. 23-34. ISSN – 2278- 9561, ONLINE VERSION 2278-957X. **[National]**
- Published a paper on “Analysis of security approaches of mobile agents in adhoc Network” in International Journal of Engineering & Science Research (IJESR) Special Issue ASCOT- 2012, October 6-7, 2012 pp. 43-49, ISSN – 2277-2685. **[International]**

4. Published a paper on “A survey of E- Business Security for Mobile Multi- Agent Environment” in International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Vol 1, Issue 2, pp. 130-140, Dec- 2012, ISSN – 2319-5940. **[International]**
5. Published a paper on “Security Approaches for Mobile Multi- Agent System” in International Journal of Emerging Technology & Advanced Engineering (IJETA), Volume 2, Issue 12, December 2012, pp. 681-687 ISSN – 2250-2459, ISO 9001: 2008 Certificated Journal. **[International]**
6. Published a paper on “Energy Efficient Computing: A Green Approach” in VSRD International Journal of Computer Science and Information Technology (IJCSIT) Vol 03, Issue 01, Jan 2013, pp 19- 22, E-ISSN 2231-2471, P-ISSN 2319-2224. **[International]**
7. Published a paper on “Self Securing Mobile Adhoc Networks using Mobile Intrusion Detection System” in Interdisciplinary International Journal (IIJ), Vol 02, supplement 01, July 2013, pp 60-67, ISSN – 2279-0578. **[National]**
8. Published a paper on “A Novel Technique of Securing Mobile Adhoc Networks Using Shared Trust Model” in International Journal of Information & Computation Technology (IJICT), Vol 03, Number 9, 2013 pp 909- 916, ISSN - 0974-2239. **[International]**
9. Published a paper on “A New Design for Providing Security in Adhoc Network” in International Journal of Computer Applications (IJCA) 2014 pp 354- 359, ISSN (0975 – 8887) **[International]**
10. Published a paper on “Energy Aware Trust Based Routing Scheme for Mobile Adhoc Networks” in Journal of Basic and Applied Engineering Research (JBAER) volume 1, number 9, October, 2014 pp 105-109, ISSN 2350-0077, online ISSN 2350-0255 **[National]**
11. Published a paper on “Issues and Challenges of MANET Routing Protocols in WiMAX” in International Journal of Contemporary Research in Engineering and Technology, Vol 4. No. 1 & 2, pp. 67-72, ISSN 2250-0510 **[International]**
12. Published a paper on “Computer Ergonomics and Yoga” in Vaidika Vag Jyotih, vol 4 issue 6, 2017 pp 148-166, ISSN 2277-4351 UGC no. 40741 **[National]**
13. Published a paper on “Mitigating Wormhole attack in Wireless Mobile Adhoc Network”, in Journal of Emerging Technologies and Innovative Research (JETIR), UGC no. 63975, August 2018, Volume 5, Issue 8, pp 252-269, ISSN-2349-5162. **[International]**
14. Published a paper on “Fuzzy Rule based System to Predict Covid 19 – A deadly Virus” in International Journal of Management and Humanities (IJMH), April 2020 (UGC CARE listed) Volume 4, issue 8 pp 33-40, ISSN 2394-0913. **[International]**
15. Published a paper on “Secure co-operative neighbour-based approach for detection and prevention of black hole attack in wireless mobile ad-hoc networks” in International Journal of Wireless and Mobile Computing (IJWMC), August 2020, (Scopus Indexed) (SNIP 0.269) Volume 19, Issue 1, pp 62-72. ISSN 1741-1084, **[International]**
16. Published a paper on “Machine Learning Based Model to Combat Covid 19” in International Journal of Information Technology and Electrical Engineering (IJITEE), August 2020 (UGC CARE listed) Volume 9, issue 4 pp 33-40, ISSN 2306-708X. **[International]**.
17. Published a paper on “Recent advancement in cancer diagnosis using machine learning and deep learning techniques: A comprehensive review” in Computers in Biology and Medicine (SCIE, Scopus, UGC CARE) Volume 146, May 2022, pp 1-30, ISSN 0010-4825 [IF-4.5] **[International]**.
<https://doi.org/10.1016/j.compbimed.2022.105580>

18. Published a paper on “Digital Transformation for Rural Empowerment: Exploring ICT in E- Governance and Development” in Mukta Shabd Journal UGC CARE LIST GROUP – I JOURNAL Volume XII, Issue 6, JUNE 2023, pp 1709-1722, ISSN 2347-3150. [IF- 4.6] [**National**]. DOI:10.0014.MSJ.2023.V12I06.0086781.1144073.
19. Published a paper on “Optimized Diagnosis of Central Nervous System (CNS) Cancer Using Gene Expression Microarray & Machine Learning (ML) Methods” in European Chemical Bulletin, Scopus Indexed, Volume -12 , issue-10 : pp 9757-9771, ISSN 2063-5346. [**International**] doi: 10.48047/ecb/2023.12.10.690

Election Duties served

- Acted as Presiding officer in the Village Panchayat election 2015 at 191, junior high school, latifpur, khubbanpur, Haridwar, Uttarakhand on 27/ 12/ 15.
- Acted as IT expert in Lok Sabha election 2019 during the month of March and April 2019.
- Worked as IT and Data Expert in Covid 19 duty at CMO, Haridwar in month of April, May and June 2020.
- Worked in Lok Sabha Elections as Trainer for Civigil App in Feb 2022 and worked as team member for Civigil App.

Awards

1. Awarded with Active SPOC Award for Jan- June 2018 at NPTEL SPOC Felicitation Workshop at IIT Kanpur Outreach Centre Noida on the date 21 July 2018.
2. Awarded with Top Performing Mentor Award for Jan- June 2018 at NPTEL SPOC Felicitation Workshop at IIT Kanpur Outreach Centre Noida on the date 21 July 2018.
3. Awarded with Active SPOC Award for July – Dec 2018 at NPTEL SPOC Felicitation Workshop at IIT Kanpur, Kanpur, U. P. on the date 30 January 2019.
4. Awarded with Mentor Award for July - Dec 2018 at NPTEL SPOC Felicitation Workshop at IIT Kanpur, Kanpur, U. P. on the date 30 January 2019.
5. Awarded with Active SPOC Award for Jan – June 2019 at NPTEL SPOC Felicitation workshop at IIT Kanpur, Kanpur, U.P. on the date 03, August 2019.
6. Awarded with Mentor Award for Jan- June 2019 at NPTEL SPOC Felicitation workshop at IIT Kanpur, Kanpur, U.P. on the date 03, August 2019.
7. Awarded with Outstanding performance Award for exemplary contribution in Haridwar Literature Festival organized by Antah Pravah Society, Haridwar in association with Gurukula Kangri Vihwavidyalaya, Haridwar on 19, January 2020.
8. Awarded with Active SPOC Award for July -Dec 2019 at NPTEL SPOC Felicitation Workshop at IIT Kanpur Outreach Centre Noida on the date 01, February 2020.
9. Awarded with Top Performing Mentor Award for July-Dec 2019 at NPTEL SPOC Felicitation workshop at IIT Kanpur Outreach Centre Noida on the date 01, February 2020.
10. Awarded with Active SPOC Award for Jan- Apr 2020 in online mode in May 2020 by National program on technology enhanced learning, NPTEL, Govt. of India.
11. Awarded with Mentor Award for Jan- Apr 2020 in online mode in May 2020 by National program on technology enhanced learning, NPTEL, Govt. of India.
12. Awarded with Mentor Award for Jan- Dec 2020 in Online mode in Jan 2021 by National program on technology enhanced learning, NPTEL, Govt. of India.
13. Awarded with Certificate of Appreciation from Texas Instruments and AICTE for Course in TI Embedded System Design using MSP 430 MCU MOOC and for fostering the ecosystem bridging Government, Academia and Industry on 14 March 2021.
14. Awarded with Certificate of Appreciation from E & ICT Academy, IIT Kanpur for organising the first round of SMART HACKS 2021 on 21 October 2021
15. Awarded by Certified Microsoft Innovative Educator Award by Microsoft on 24 December 2021 in online mode.

16. Awarded with Primary Evaluator Award from Ministry of Education, Ministry of Information and Broadcasting, Ministry of MSME Govt. of India for exceptional contribution as a Primary evaluator in Toycathon 2021, on 25 Dec 2021 in online mode.
17. Awarded with Active SPOC Award for Jan- Apr 2022 Sessions on July 16, 2022 by National program on technology enhanced learning, NPTEL, Govt. of India.
18. Awarded with Active Mentor Award for Jan – Apr 2022 Session at NPTEL SPOC Felicitation workshop at IIT Kanpur, Kanpur, U.P. on the date on July 16, 2022 by National program on technology enhanced learning, NPTEL, Govt. of India.
19. Awarded with Active SPOC Award for July- Dec 2022 Sessions at NPTEL SPOC Felicitation workshop at IIT Kanpur, Kanpur, U.P. on the date on Feb 19, 2023 by National program on technology enhanced learning, NPTEL, Govt. of India.
20. Awarded with Best Teacher Award by Motherhood University, Roorkee on the occasion of Teachers felicitation program 2023 on 30 April 2023.
21. Awarded with Active SPOC Award for Jan- Apr 2023 Session at NPTEL SPOC Felicitation workshop at IIT Kanpur, Kanpur, U.P. on the date on July 1, 2023 by National program on technology enhanced learning, NPTEL, Govt. of India.
22. Awarded with Active Mentor Award for Jan – Apr 2023 Session at NPTEL SPOC Felicitation workshop at IIT Kanpur, Kanpur, U.P. on the date July 1, 2023 by National program on technology enhanced learning, NPTEL, Govt. of India.

Appreciation

1. Appreciated for the contribution as Member, Organizing Committee in the National Seminar on Innovations and Applications in Engineering & Applied Sciences (IAEAS- 2011), held on 9th- 10th Nov, 2011 at Faculty of Engineering and Technology, Gurukula Kangri Vishwavidhyalaya, Haridwar.
2. Appreciated for the contribution as Member of Accommodation Committee in the International Conference on “Green Technologies for Environmental Rehabilitation (GTER-2012), held on Feb 11- 13, 2012, at Faculty of Engineering and Technology, Gurukula Kangri University, Haridwar.
3. Appreciated for the contribution as Convener of Press, Media & Photography Committee in the Workshop on Scientific Computing: Theory and Practices (SCTP-2012), held on 8th -13th, Oct 2012, at Faculty of Engineering and Technology, Gurukula Kangri University, Haridwar.
4. Appreciated for the contribution as Member of Accommodation Committee in the National Conference on “Progress in Electronics & Allied Sciences” (PEAS-2012), held on 3rd -4th, Nov 2012, at Faculty of Engineering and Technology, Gurukula Kangri University, Haridwar.
5. Appreciated for the contribution as Member of Publication and Communication Committee in the National Conference on “Progress in Electronics & Allied Sciences” (PEAS-2012), held on November 3-4, 2012, at Faculty of Engineering and Technology, Gurukula Kangri University, Haridwar.
6. Appreciated for the contribution as Convener Publication & Communication Committee in National Conference on “Emerging Trends in Engineering & Sciences” (ETES-2013) organized by Department of Mechanical Engineering, Faculty of Engineering and Technology, GurukulKangri University, Haridwar during November 9- 10, 2013.
7. Appreciated for the contribution as Member Publication Committee in National Seminar on “Mental Health Challenges & Remedial Approaches” (MHCRA-2014) organized by Department of Psychology, GurukulKangri University, Haridwar during February 15-16, 2014.
8. Appreciated for the contribution as Member Publication and Accommodation Committee in National Symposium on “Instrumentation” (NSI -39) organized by Instrumentation Society of India, Department of Instrumentation, Indian Institute of Science, Bangalore -560012 & Faculty of Engineering & Technology, Gurukul Kangri University, Haridwar during October 15-17, 2014.

9. Appreciated for the contribution as Convener Printing Committee and Member Executive Committee in the Haridwar Literature Festival 2018 jointly organized by Gurukula Kangri Deemed to be University and ANTAH Pravah Society, Haridwar during December 14-16, 2018.
10. Appreciated for the contribution as Member organizing committee for the Foundation Day of Gurukula Kangri University, Haridwar during 03-04 April 2019.
11. Appreciated for the contribution as Member, organizing committee of student induction program organized by Faculty of Engineering and Technology, Gurukula Kangri (Deemed to be University), Haridwar from 15-25 November, 2022.

Workshops/Short Term Course Attended

1. The Condensed courses on “Ayurvedic Massages and Panchakarma, Naturopathy”, conducted by CSRAM, during the year 2006 to 2007.
2. A Short-Term Course on “Advanced Antenna Engineering Through Experimentation” conducted by the Educational Television department of NITTTR, Chandigarh at Gurukula Kangri Deemed to be University, Haridwar during February 9-20, 2009.
3. National Workshop on “Teaching Methods in Yoga” conducted by Department of Human Consciousness & Yogic Science, Gurukul Kangri Deemed to be University, Haridwar (Uttarakhand) during March 12- 13, 2011.
4. Staff Development Program on “Teaching Methods and Pedagogy for Successful Technical Educators” at SDIMT, Haridwar during July 2 - 8, 2012. [**One Week**]
5. Author Workshop on “How to Write for and Get Published in Scientific Journals and Publish Manuscripts” conducted by Springer in collaboration with the Delhi University Library System, held at Conference Centre, University of Delhi, Delhi on August 23, 2012.
6. Workshop on “IBM RAD SOFTWARE” organized and held at Faculty of Engineering and Technology, Gurukula Kangri Deemed to be University, Haridwar during Oct 10 – 13, 2012.
7. Workshop on “Paper Conversion” organized by Multi-Disciplinary Training Centre, Khadi & Village Industries Commission, Ministry of Micro, Small & Medium Enterprises, Govt of India held at Faculty of Engineering and Technology, Gurukula Kangri Deemed to be University, Haridwar during March 16 – 25, 2013. [**10 days**]
8. Workshop on “Future of Science: Scientific Spirituality” organized by Department of Scientific Spirituality, Dev Sanskriti Deemed to be University, Haridwar on April 27, 2013.
9. IEEE workshop on “Computational Intelligence : Theories, Application and Future Directions”, sponsored by IEEE Computational Intelligence Society & Department of Science & Technology, Govt of India organized by Indian Institute of Technology, Kanpur, India held on July 14, 2013.
10. QIP Short Term Course on “Intelligent Informatics” conducted by Indian Institute of Technology, Kanpur during July 15-19, 2013 at IIT, Kanpur, U. P. [**One Week**]
11. Faculty Development Programme on “Cloud Computing, Big Data and Business Intelligence” Conducted by Tata Consultancy Services (TCS) at Faculty of Engineering & Technology, Gurukul Kangri Vishwavidyalaya, Haridwar on August 13, 2013.
12. Digital India Week organized by faculty of management studies and computer society of India, Haridwar chapter on July 07, 2015.
13. One-week AICTE recognized Short Term Course on “MATLAB Programming” conducted by Electronics and Communication Engineering Department from September 14-18, 2015 at NITTTR, Chandigarh. [**One Week**]
14. Workshop and Training on “Big Data Analytics” sponsored by Department of Science & Technology (DST), Govt. of India and organized by IIT, Roorkee during Apr 01- 10, 2016 [**10 days**]

15. International Workshop on Innovative Techniques in Yoga Skill Development organized by Department of Human Consciousness and Yogic Science, GKV on October 07, 2016.
16. Faculty Development Program on “Teaching and Soft Skills”, Organized by Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya, Haridwar during 03-04 October 2018.
17. National Workshop on Research Methodology organized by Department of Yogic Science, GKV on December 14-24, 2018. **[10 days]**
18. National workshop on Tech4Seva at IIT Delhi during the dates 10-12, August 2019.
19. National Workshop on "UBA Orientation" at IIT Roorkee on 28 September 2019.
20. NIRD&PR sponsored National workshop of “Management Development Program on Rural Development Leadership” organized by NIRD& PR, Guwahati in collaboration with RCI, Unnat Bharat Abhiyan, IIT Roorkee & Uttarakhand Institute of Rural Development & Panchayati Raj, Rudrapur at Continuing Education Center, IIT Roorkee during 03-06, February 2020.
21. Udbhava's 3 Days Online seminar on Survive and Thrive: Strategies to navigate career and personal wellbeing amid COVID-19 from 17th to 19th of May, 2020.
22. National workshop on “Modern Methods for Remote Teaching – Learning Practices” organized by Faculty of Engineering & Technology in association with Swayam-NPTEL committee, Gurukula Kangri Deemed to be University, Haridwar on May 25, 2020.
23. National workshop on “Application of Artificial Intelligence in Present Scenario” organized by Faculty of Engineering & Technology in association with Swayam-NPTEL committee, Gurukula Kangri Deemed to be University, Haridwar on May 27, 2020.
24. Leadership Talk with Dr. Nilesh N Oak, Expert (Indian Civilization & History) with Dr. Abhay Jere (Chief Innovation Officer- MHRD Innovation Cell, Govt. of India) in Live session by MHRD's Innovation Cell 30th May 2020.
25. National Level Online Quiz on “HOW TO SAVE ENVIRONMENT” Organised by Department of Mechanical Engineering, Graphic Era Deemed to be University, Dehradun (India) on 05 June, 2020
26. NIRDPR sponsored one-week Online Training on “Managing Change in Rural Development in Post Covid 19 Era” Conducted by NIRD&PR -NERC, Guwahati from 22 June 2020 to 27 June 2020. **[One Week]**
27. One week Online Short-Term Course on “Blockchain and Machine Learning” organized by Department of Computer Science & Engineering, Faculty of Engineering & Technology, Gurukula Kangri Deemed to be University from 29 June 2020 to 03 July, 2020. **[One Week]**
28. TEQIP-III Sponsored one-week Online Faculty Development Program on “Cyber Security” organized by College of Engineering Roorkee, Haridwar from 13 July 2020 to 17 July 2020. **[One Week]**
29. National E-Workshop on "Use of Artificial Intelligence in National Education Policy" organized by Computer Science & Engineering Department, Women Institute of Technology, Dehradun on 17-18 August, 2020.
30. AICTE Training and Learning (ATAL) Academy Online FDP on "Leadership & Excellence" from 14 September 2020 to 18 September 2020 organized by Faculty of Engineering & Technology, Gurukula Kangri Deemed to be University, Haridwar. **[One Week]**
31. AICTE Training and Learning (ATAL) Academy Online Faculty Development Program on "Design Thinking" from 12 October 2020 to 16 October 2020 organized by University College of Engineering(A), Jawaharlal Nehru Technological University, Kakinada, Andhra Pradesh. **[One Week]**
32. AICTE Training and Learning (ATAL) Academy Online Faculty Development Program on "Design Thinking" from 21 dec 2020 to 25 dec 2020 organized by Amity Centre for Entrepreneurship Development, Amity University, Noida, Uttar Pradesh. **[One Week]**

33. AICTE Training and Learning (ATAL) Academy Online FDP on "Academic Leadership and Management of Technical Education" from 17 May 2021 to 21 May 2021 organized by Faculty of Engineering & Technology, Gurukula Kangri Deemed to be University, Haridwar. [**One Week**]
34. AICTE Training and Learning (ATAL) Academy Online FDP on "Online Teaching and Learning Technologies" from 14 June 2021 to 18 June 2021 organized by Motilal Nehru National Institute of Technology, Allahabad. [**One Week**]
35. AICTE Training and Learning (ATAL) Academy Online FDP on "Design Thinking" from 21 June 2021 to 25 June 2021 organized by Bharati Vidyapeeth College of Engineering, New Delhi [**One Week**]
36. AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Artificial Intelligence for Speech and Bio-Signal Processing" from 20 Sep 2021 to 24 Sep 2021 organized by Indian Institute of Information Technology Dharwad [**One Week**].
37. Second NDLI user awareness SESSION held on Sept. 25, 2021 organized by the NDLI Club of Gurukul Kangri Vishwavidyalaya. [**One Day**]
38. AICTE QIP sponsored Online STC on Intelligent Nanophotonics from 04 oct 2021 to 09 oct 2021 conducted by Computer Science and Engineering Department, NITTTR, Chandigarh. [**One Week**]
39. National Workshop on "Awareness of Recent Developments in Computer Science" held on Oct. 11, 2021 organized by the NDLI Club of Gurukul Kangri Vishwavidyalaya. [**One Day**]
40. National Workshop on "Mechanical Energy Storage" held on Oct. 18, 2021 organized by the NDLI Club of Gurukul Kangri Vishwavidyalaya [**One Day**]
41. National Workshop on "Research Methodology, Publication & Ethics" (RMPE-2022) organized by Department of Physics & IQAC, GK(DU), Haridwar in Collaboration with Uttarakhand Science Education & Research Center (USERC) from 25 March, 2022 to 30 March, 2022. [**One Week**]
42. National Workshop on "Tech4Seva at Regional Level" organized by Regional Coordinating Institute, Unnat Bharat Abhiyan, Indian Institute of Technology Roorkee on July 30, 2022 [**One Day**]
43. National Workshop on "Data Analytic and Learning" organized by Department of Information Science & Engineering, JSS Science and Technology University, Mysuru from 05 September 2022 to 10 September 2022 in online mode. [**One Week**]
44. Professional Development workshop on "Digital Creativity skills" as a part of Adobe Academic Essentials Program on 26 November 2022 in online mode [**One Day**]
45. National workshop on "Disaster Awareness and Training Program on A Primary /Secondary Education Interventions" Organized by Regional Coordinating Institute (RCI), Unnat Bharat Abhiyan (UBA) and South Asia Alliance of Disaster Research Institutes – Young Professional Platform (SAADRI-YPP) Indian Institute of Technology Roorkee on 28 January, 2023 [**One Day**]
46. Faculty development program on "Artificial Intelligence, Machine Learning and Interdisciplinary Approach for Natural Language Processing" organised by Roorkee Institute of Technology from 9 February 2023 to 14 February 2023. [**One Week**]
47. Faculty Development program on "Research Methodology and Communication" organized by Faculty of Science, Motherhood University, Roorkee and ISCA: Haridwar Chapter from 23 March 2023 to 28 March 2023. [**One Week**]

Online Courses Attended

1. Successfully completed "Basic Image Classification with TensorFlow" an online non-credit course authorized by Rhyme and offered through Coursera on 20 May 2020.

2. Successfully completed the module "1.4 How to get involved" of Researcher Academy Course offered by Elsevier on Thursday 21 May, 2020.
3. Successfully completed the module "3.3 How to peer review a review article" of Researcher Academy Course offered by Elsevier on Thursday 21 May, 2020.
4. Successfully completed the module "Funding Hacks for Researchers" of Researcher Academy Course offered by Elsevier on Thursday 21 May, 2020.
5. Successfully completed "Self Awareness and the Effective Leader" an online non-credit course authorized by Rice University and offered through Coursera on 13 June 2020.
6. Successfully completed "Facial Expression Recognition with Keras" an online non-credit course authorized by Rhyme and offered through Coursera on 05 August 2020.
7. Successfully completed "COVID-19: What You Need to Know (CME Eligible)" an online non-credit course authorized by Osmosis and offered through Coursera on 05 October 2020.
8. Successfully completed "Create Your First Python Program" an online non-credit course authorized by Rhyme and offered through Coursera on 05 October 2020.
9. Successfully completed the module "How to prepare a proposal for a review article" of Researcher Academy Course offered by Elsevier on Saturday 03 July, 2021.

Patent Granted

1. Patent no. 2021103609 "An Apparatus and a Method for Wirelessly Charging Multiple Electronic Devices" as Australian Innovation Patent registered in the Register of Patents on 28 July 2021.
2. Patent no. 2021105103 "Wireless Charging Device with Built-In Power Backup" as Australian Innovation Patent filed on 08/08/2021 registered in the Register of Patents on 13 April 2022.
3. Patent no. 02311021605 A "IOT based system in Car to avoid collision on National highway" as Indian Patent registered in the Official Journal of the Patent Office, Issue No. 19/2023 Friday Date: 12/05/2023 with filed on 26/03/2023 Published on 12/05/2023

Patent Applied

1. Patent no. 359381-001 "Laptop with Roll-Able Mobile Charging Tray" as Indian Design patent filed on 25/02/2022.

Books/ Book Chapters Published

1. "Forecast & Prediction of Covid19 using Machine Learning" in Data Science for Covid 19, in 2020 Published by Academic Press, Elsevier. ISBN - 978-0-12-824536-1
<https://www.sciencedirect.com/science/article/pii/B9780128245361000277>
2. "Handbook of Unix – A practical Approach" in 2021 published by Satyam Publishing House, Mohan Garden, Uttam Nagar, New Delhi -110059, ISBN 978-81-953249-6-5.
https://www.amazon.in/Handbook-UNIX-Practical-Nishant-Kumar/dp/B09NF472BF/ref=sr_1_1?crid=3VNIKNUHSPBQN&keywords=Handbook+of+Unix+%E2%80%93+A+practical+Approach&qid=1687542621&prefix=handbook+of+unix+a+practical+approach%2C243&sr=8-1
3. "10 Amazing Stories of Design Thinking that Shaped the Future" in June 2023 published by Amazon Kindle, ISBN 978-93-5906-723-0.

https://www.amazon.in/Amazing-Stories-Design-Thinking-Shaped-ebook/dp/B0C8KBRNB9/ref=sr_1_1?crid=2FVC00NA16L7J&keywords=10+Amazing+Stories+of+Design+Thinking+that+Shaped+the+Future&qid=1687542689&srefix=10+amazing+stories+of+design+thinking+that+shaped+the+future%2Caps%2C238&sr=8-1

Papers Presented in National/ International Conferences

1. Presented a paper entitled “Some Heuristic Approaches for Dynamic Load Balancing in Distributed Systems” in 2nd National Conference on “Global Trends and Innovations in Computer Applications and Informatics”, organized by School of Computer Engineering and Information Technology, Shobhit University, Meerut on 9th and 10th April, 2011. [**National**]
2. Presented a paper entitled “Aeronautics in Vedas (Vedo me VimanShastra)” in National Seminar on “Vedic Studies & Information Technology- 2011” at Dev Sanskriti Vishwavidyalaya, Gayatrikunj, Shantikunj, Haridwar during 23rd-24th August, 2011. [**National**]
3. Presented a paper entitled “Science and Technology in Vedas” in National Seminar on “Vedic Studies & Information Technology- 2011” at Dev Sanskriti Vishwavidyalaya, Gayatrikunj, Shantikunj, Haridwar during 23rd-24 August, 2011. [**National**]
4. Presented a paper entitled “Sanskrit as a Programming Language” in National Seminar on “Innovations & Applications in Engineering and Applied Sciences” at faculty of Engineering and Technology, Gurukul Kangri Vishwavidyalaya, Haridwar during November 9 – 10, 2011. [**National**]
5. Presented a paper entitled “Vedic Mathematics” in National Seminar on “Innovations & Applications in Engineering and Applied Sciences” at faculty of Engineering and Technology, Gurukul Kangri Vishwavidyalaya, Haridwar during November 9 – 10, 2011. [**National**]
6. Presented a paper entitled “Green Buildings: A Vedic Approach” in International Conference on “Green Technologies for Environmental Rehabilitation” at Faculty of Engineering and Technology, Gurukul Kangri Deemed to be University, Haridwar during February 11 – 13, 2012. [**International**]
7. Presented a paper entitled “Green Computing for Greener Organization” in International Conference on “Green Technologies for Environmental Rehabilitation” at Faculty of Engineering and Technology, Gurukul Kangri Deemed to be University, Haridwar during February 11 – 13, 2012. [**International**]
8. Presented a paper entitled “Analysis of Security Approaches and Mobile Agents in Ad Hoc Networks” in National Conference on “Advanced & Sustainable Computing Techniques” (ASCOT-2012) at Quantum Global Campus, Roorkee, Uttarakhand on October 6 – 7, 2012. [**National**]
9. Presented a paper entitled “Analysis of Fault Tolerance Protocol in Mobile Multi Agent Environment” in National Conference on “Emerging Trends in Information Technology” (NCETIT-2012) at Institute of Management Studies, Ghaziabad on November 24, 2012. [**National**]
10. Presented a paper entitled “Analysis of Different Intrusion Systems in Adhoc Network” in **International** Conference on “Artificial Intelligence and Soft Computing” (AISC-2012) at Department of Computer Engineering, Indian Institute of Technology (BHU) Varanasi, with IEEE, UP Chapter on, December 7- 9, 2012. [**International**]
11. Presented a paper entitled “Self-Securing Mobile Adhoc Networks using Mobile Intrusion Detection System” in National Conference on “Emerging Trends in Computational Research & Development” (ETCRD-2013) at Dev Sanskriti Vishwavidyalaya, Gayatrikunj, Shantikunj, Haridwar during 7th-8th September, 2013. [**National**]
12. Presented a paper entitled “A Novel Technique of Securing Mobile Adhoc Networks Using Shared Trust Model” in International Conference on Advancement in Computing Sciences, Information Techniques & Emerging E-Learning Technologies (ACSITEET - 2013) organized by Krishi Sanskriti, at Jawaharlal Nehru University (JNU), New Delhi – 110067 during October 5-6, 2013. [**International**]

13. Presented a paper entitled “Shared Trust Based Mobile Adhoc Routing” in National Conference on “Emerging Trends in Engineering & Sciences” (ETES-2013) organized by Department of Mechanical Engineering, Faculty of Engineering and Technology, Gurukul Kangri University, Haridwar during 9th – 10th November, 2013. [**National**]
14. Presented a paper entitled “A New Architecture of Intrusion Detection Systems in Adhoc Networks” in International Conference on “Reinventing Management Strategy: The Design for Future (IC- RMS 2013)” sponsored by Indian Council of Social Science Research (ICSSR) organized by Institute of Management Studies, Ghaziabad on 30th, November 2013. [**International**]
15. Presented a paper entitled “A new design for providing security in Adhoc Networks”, in International Conference on Advances in Computer Engineering and Applications (ICACEA- 2014) organized by Department of Computer Science & Engineering, IMS Engineering College, Ghaziabad, U. P. on 15 February, 2014. [**International**]
16. Presented a paper entitled “Effects of Computers on Mental Health” in National Seminar on “Mental Health Challenges & Remedial Approaches” (MHCRA-2014) organized by Department of Psychology, Gurukul Kangri University, Haridwar during February 15-16, 2014. [**National**]
17. Presented a paper entitled “Security Issues in Mobile Agent based E-Commerce Systems” in National Conference on “Emerging Opportunities and Challenges in Indian Business” organized by COER school of Management, College of Engineering Roorkee (COER) on February 21-22, 2014. [**National**]
18. Presented a paper entitled “Evaluating Search Engine on Query Keyword Matching System” in 4th National Conference on “Recent Trends in Advanced Computing Electronics and Information Technology” CICON -14 organized by Faculty of Electronics, Informatics and Computer Engineering, Shobhit University, Meerut on March 2, 2014. [**National**]
19. Presented a paper entitled “Issues and Challenges in routing protocols in WiMAX” in 4th National Conference on “Recent Trends in Advanced Computing Electronics and Information Technology” CICON -14 organized by Faculty of Electronics, Informatics and Computer Engineering, Shobhit University, Meerut on March 2, 2014. [**National**]
20. Presented a paper entitled “Energy Aware Trust Based Routing Scheme for Mobile Adhoc Networks” in 3rd International Conference on “Innovative Approach in Applied Physical, Mathematical/ Statistical, Chemical Sciences and Emerging Energy Technology for Sustainable Development” (APMSCSET-2014) organized by Social Welfare Foundation in association with Krishi Sanskriti on 27th and 28th September, 2014 at Jawaharlal Nehru University, New Delhi. [**International**]
21. Presented a paper entitled “Security Issues in Mobile Adhoc Networks” in Regional Symposium on “Technovations for Inclusive Human Development” organized by ISCA, Haridwar Chapter at Faculty of Engineering & Technology, Gurukul Kangri University, Haridwar on October 12, 2014. [**National**]
22. Presented a paper entitled “Trust Based Secure Routing for Mobile Adhoc Networks” in National Symposium on “Instrumentation” (NSI -39) organized by Instrumentation Society of India, Department of Instrumentation, Indian Institute of Science, Bangalore -560012 & Faculty of Engineering & Technology, Gurukul Kangri University, Haridwar during October 15-17, 2014. [**National**]
23. Presented a paper entitled “Security Issues in Manet: Challenges and Solutions” in 10th National Conference on “Emerging Paradigms of Information and Communication Technologies & its Impact on Society (EPICTIS-2014)” organized by Institute of Technology & Science, Mohan Nagar, Ghaziabad during November 07-08, 2014. [**National**]
24. Presented a paper entitled “Self-Securing Mobile Adhoc Network using distributed Trust Model” in 2nd international conference on Innovation and Creativity Management: Future for Sustainable Development (ICM 2014) organized by IMS, Ghaziabad, U. P. on November 29, 2014. [**International**]

25. Presented a paper entitled “Advances in Communication Technologies Leading to Mitigating Behaviour of Indian Youth” in National Seminar on Science and Religion organized by UGC- Academic Staff College, Kumaun University, Nainital during march 20-21, 2015. [**National**]
26. Presented a paper entitled “Detection and Avoidance of Black-hole Attack” in National Conference on Science & Technology for Indigenous Development in India Organised by The Indian Science Congress Association: Haridwar Chapter and Faculty of Engineering & Technology, Gurukul Kangri Deemed to be University, Haridwar 249 404, Uttarakhand during September 28-30, 2015. [**National**]
27. Presented a paper entitled “Yogic Management of Computer-Generated Ailments” in National Seminar on World Peace & Harmony through Yoga organized by Department of Human Consciousness & Yogic Science, Gurukula Kangri Deemed to be University, Haridwar & Patanjali Yogadham Trust, Jwalapur from 02-03, April 2016. [**National**]
28. Presented a paper entitled “Yogic lifestyle for Engineers” in National Seminar on Yoga, Naturopathy & Holistic Health organized by Govt. Degree College Banbasa, UOU Haldwani & International Society for Holistic Dentistry on August 27-28, 2016. [**National**]
29. Presented a paper entitled “Computer Applications for Society” in 48th All India Oriental Conference held at Uttarakhand Sanskrit University, Haridwar (Uttarakhand) from 12 – 14 November 2016. [**National**]
30. Presented a paper entitled “Yogic Treatment of Computer Vision Syndrome in Professionals” in National Seminar on Innovative Trends for Professional Skill Development in Yogic Science organized by the department of Human Consciousness and Yogic Science Department during March 27 - 28, 2017. [**National**]
31. Presented a paper entitled “Healthy Life style for Engineers” in National Seminar on Healthy Lifestyle: A vision for Uttarakhand organized by Arogya Bharati, Uttarakhand in collaboration with AYUSH Uttarakhand on 13 November 2018. [**National**]
32. Presented a paper entitled “Challenges and opportunities of research in Computer Science” in National Conference on Challenges and Opportunities in Research and Development in Pharmaceutical & Biological Science (CORDPBS-2019), organized by ITS Haridwar in association with IPGA Uttarakhand, at IDPL Guest House, Virbhadra, Rishikesh on November 07, 2019. [**National**]
33. Presented a paper entitled “Role of ICT in Rural Development” in 107th Indian Science Congress on Science and Technology for Rural Development organized by University of Agricultural Sciences, Bangalore, Karnataka during 03-07 January, 2020. [**National**]
34. Presented a paper entitled “Importance of computer literacy for development of society” in Haridwar Literature Festival 2020 jointly organized by Gurukula Kangri Deemed to be University, Haridwar and Antah Pravah Society during January 10-12, 2020. [**National**]
35. Presented a paper entitled “Information and Communication Technology (ICT) for Rural Development” in National conference on Science and Technology for Rural Development organized by ISCA Haridwar Chapter during February 15-16, 2020. [**National**]
36. Presented a paper entitled “Potato Leaf Diseases Detection Using Deep Learning” in IEEE 4th International Conference on Intelligent Computing and Control Systems (ICICCS), organized by Vaigai College of Engineering during 13-15 May 2020 at Madurai, India. IEEE Xplore Part Number: CFP20K74-ART, ISBN: 978-1-7281-4876-2, PP- 461- 466 [**International**] [**Full length Paper**] [**Scopus Indexed**]
37. Presented a paper entitled “Artificial Intelligence in information Management” in two day online international conference 2021 on latest trends in business management organized by sunshine group of institutions, Rajkot. during 29-30 Sep 2021. ISBN : 978-93-5495-286-9 PP- 84-89 [**International**][**Full length paper**]
38. Presented a paper entitled “Yogic Management of Computer Related illness” in three day online International Conference on Indian Traditional Yoga System Theory and Practice organized by Department of Yogic Science,

Gurukula Kangri (Deemed to be University), Haridwar Sponsored by Ministry of AYUSH, Govt. of India, New Delhi from 24 to 26 May, 2022. **[Abstract]**

39. Presented a paper entitled “Machine Learning for Healthcare- A Review” in the two day international conference on Current and Future Challenges of Human Health Solution with AI, Pharmaceuticals and Indian Medicine” organized by Department of Pharmaceutical Sciences, Gurukula Kangri (Deemed to be University), Haridwar in association with PRISAL Foundation held during 10 to 11 July, 2022 **[Abstract]**
40. Presented a paper entitled “Recent Advancement in Pancreatic Cancer Diagnosis using Machine Learning – Based Methods – A Systematic Review” in International Conference on Advances and Application of Artificial Intelligence and Machine Learning held on 16-17 September 2022 at Sharda University, Greater Noida, Uttar Pradesh. **[Full Length paper]**
41. Presented a paper entitled “Issues and Challenges in MANET Routing Protocols” in International Conference organized by the Department of Botany & Microbiology, Gurukula Kangri (Deemed to be University), Haridwar on 7-8 December, 2022. **[Abstract]**
42. Presented a paper entitled “Trends in Machine Learning Techniques for Plant Disease Detection” in National Conference on Science and Technology for All (NCSTA) organized by The Indian Science Congress Association: Haridwar Chapter on 19 March, 2023. **[Abstract]**
43. Presented a paper entitled “The Role of Vedic Science & Engineering in Promoting Ethical and Sustainable Artificial Intelligence” in National conference on Knowledge, Cultural Traditions & Practices of India organized by Gurukula Kangri Deemed to be University, Haridwar on 29 March 2023. **[Abstract]**

Participation in Conference / Webinar/ Online event

1. Participated in Webinar on “Covid 19 and Agriculture” organized by Regional Coordinating Institute, Unnat Bharat Abhiyan 2.0 & Agromet Field unit (AMFU), Department of Water Resources Development & Management, Indian Institute of Technology, Roorkee on May 16, 2020.
2. Participated in Udbhava’s 3 Days Online Seminar on Survive and Thrive: Strategies to Navigate career and personal wellbieng amid Covid 19 from 17-19 May, 2020.
3. Webinar on “Water Security in Hilly Areas” jointly organized by Regional Coordinating Institute, Unnat Bharat Abhiyan & Department of Water Resources Development & Management, Indian Institute of Technology Roorkee on May 28, 2020.
4. National Webinar on "AutoCAD" organized by Department of Mechanical Engineering, Faculty of Engineering & Technology, Gurukula Kangri Deemed to be University, Haridwar on 01-02 June, 2020.
5. National Webinar on "Challenges in MOSFET Technology" organized by Department of Electronics and Communication Technology, Faculty of Engineering & Technology, Gurukula Kangri Deemed to be University, Haridwar on 03 June, 2020.
6. National Webinar on "Effects of Fear among the organization" organized by Faculty of Engineering & Technology with joint collaboration of CAOC & Swayam Committee, Gurukula Kangri Deemed to be University, Haridwar on 09 June, 2020.
7. Webinar on “Artificial Intelligence Approach Against Covid-19 Pandemic” conducted by National Institute of Electronics & Information Technology (Ministry of Electronics & Information Technology, Government of India) an iso 9001:2015 certified organization Haridwar centre on 12 June 2020.
8. National webinar on “Role of Technology Enabled Youth in Atmnirbhar Bharat” organized by Faculty of Management Studies, Gurukula Kangri Deemed to be University, Haridwar on 09 July 2020.

9. National Webinar on "Employment and Livelihood of Migrant Workers" organized by Debraj Roy College, Golaghat, Assam on 11 July, 2020.
10. Webinar on "Decision Making" Organized by Shri Sunshine Group of Institutions (SGI), Rajkot on 01 June, 2021.
11. Participated in the Online international conference on Surya Namaskar : A wonderful gift of Devbhoomi Tradition organized by Nav yoga suryodava seva samiti in collaboration with CCRYN, ministry of AYUSH, Govt. of India and Uttarakhand Open University and with AyuRythm as the technology partner on 08 September 2021.
12. One day webinar on "COVID-19, OMICRON- A New Challenge for Humanity" organized by Regional Coordinating Institute-Unnat Bharat Abhiyan, Maharana Pratap University of Agriculture and Technology, Udaipur (Rajasthan) on 3rd February, 2022. [**One Day**]
13. Participated in the online Seminar on "Medicinal Farming with Traditional Farming for Enhancing Additional Income of Farmers" on April 12, 2022, organised by Sir Choru Ram Institute of Engineering and Technology, Chaudhary Charan Singh University, Meerut under Unnat Bharat abhiyan Scheme.
14. Participated in the online conference on "Empowering Women in Sensor Technology" (EWST'22) organized by IEEE Sensors Council Student Branch Chapter, Indian Institute of Technology Indore on December 16, 2022.
15. Participated in NPTEL E-Awareness workshop on February 02 and 06, 2023
16. Participated in National Webinar on "ChatGPT for coding" organized by the Department of Computer Science & Engineering, JIS College of Engineering in Collaboration with Zreyas Technology Pvt. Ltd. On 16 February, 2023.

Membership of Professional Bodies

1. Member and institutional representative IATUL – The International Association of University Libraries, Technical University Munich since 12 oct 2021.
2. Joint Secretary, Alumni Association of Gurukula Kangri Deemed to be University, Haridwar, from August 2020 till March 2021.
3. BOS member of IIMT University, Meerut since 01 October 2019.
4. Member "Bharat Vikas Parishad" from 01 August 2019.
5. Member "European Alliance for Innovation (EAI)" from year 2018. <https://account.eai.eu/profiles/1747897b-e70e-490e-ad4d-5eca311c9f1a>
6. Member "Indo Universal Collaboration for Engineering Education" (IUCEE) since 02 January 2019.
7. Member "International Journal of Computer Sciences and Engineering" since 04 August 2018, Member No. IJCSE-M-00126
8. Life Time Member of Computer Society of India (CSI). member ship number –11510141 from March 23, 2016
9. Senior Member of "Universal Association of Computer and Electronics Engineers (UACEE)" from March 08, 2014, membership no. SNM1009026.
10. Life Time Member of "Indian Science Congress" membership no. L22531 from August 01, 2013
11. Member "Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (ICST)".
12. Member "International Society for Environmental Information Sciences (ISEIS)",
13. Member "International Association of Engineers (IAENG)", (Member No: 142051),

Invited Talk Delivered

1. Delivered an invited lecture on "Data Structures and its Applications" on June 6, 2015 at Dev Sanskriti Vishwavidhyalya, Shanti Kunj.
2. Delivered an invited talk on "Internet and its Applications" on June 8, 2015 at Rama College of Higher Education, Kiratpur, Bijnor.
3. Delivered an Invited Lecture on "Fundamentals of Computer and Internet" in Hari Institute of Technology, Randevi (Nakur), Saharanpur. On February 19, 2017.

4. Delivered an invited talk on Programming Concepts and Implementation of C++ for BCA II year at Neelkanth Vidyapeeth on April 01, 2017.
5. Delivered an invited talk on Computer Graphics and Its Application for BCA II year at DSVV, Shantikunj on 26 April 2017.
6. Delivered an invited talk on data structures at Vidya Institute, Bhagpat Road, Meerut on 09 June, 2017
7. Delivered an invited talk on programming in c at BMIT College, Kamalpur, Garh Road, Meerut on 10 June, 2017
8. Acted as Resource Person and Chief Guest for Inaugurating New Student Chapter of CSI as CSI State Student Coordinator for Uttarakhand at Graphic Era Hill University Bhimtal Campus on September 12, 2017
9. Delivered an Invited Talk on Data Structures at DSVV, Shanti Kunj, Haridwar on November 04, 2017.
10. Delivered an Invited Lecture on “Fundamentals of Computer and Internet” in Hari Institute of Technology, Randevi (Nakur), Saharanpur. On February 19, 2018.
11. Delivered an Invited talk on C Programming at Krishna College, Gangoh, Saharanpur on July 09, 2018.
12. Delivered a talk on “NPTEL Awareness and Registration” at Faculty of Engineering & Technology, Gurukula Kangri Deemed to be University, Haridwar on 28 January, 2019.
13. Delivered a talk on “Enrolment Process in SWAYAM-NPTEL” at Faculty of Engineering & Technology, Gurukula Kangri Deemed to be University, Haridwar on November 07, 2019.
14. Delivered an invited lecture on “Plastic Free India” under UBA Scheme at JP Convent Public School Tikkampur, Sultanpur, Laksar, Haridwar on December 24, 2019.
15. Delivered an invited lecture on “Research Methodology” at SD College of Management, Muzzafarnagar, on February 08, 2020.
16. Delivered an invited talk on “NPTEL Enrolment Process” in HEC Group of Institutes, Haridwar on 18 February 2020.
17. Delivered an Invited Talk on “Deep Learning for Search Optimization” in Roorkee College of Engineering, Roorkee on 17 March 2020.
18. Delivered an Invited Talk on “Creating a Quiz in Google Classroom” in National level Online Webinar on Modern Methods for Remote Teaching- Learning Practices Organized by Faculty of Engineering & Technology, in Association with SWAYAM- NPTEL Committee, Gurukula Kangri Vishwavidyalaya, Haridwar on May 25, 2020
19. Delivered an Invited Talk on “Google Classroom and its Features” in Online Training on “Online Education & Teaching Methodologies” held on 07- 10 August 2020 Organized by Swayam Committee, Gurukula Kangri Deemed to be University, Haridwar on 08 August 2020.
20. Delivered an Invited Talk on “Design Thinking for Blockchain” in AICTE FDP on Blockchain (14- 18 dec 2020) organized by Department of Computer Science & Engineering, Faculty of engineering & Technology, Gurukula Kangri Deemed to be University on 17 December 2020.
21. Delivered an Expert Lecture in “NPTEL Awareness Workshop” organized by Faculty of Engineering & Technology, Gurukula Kangri Deemed to be University, Haridwar on 28 Jan 2021.
22. Delivered an invited talk on “Google Classroom and its services” in Dev Sanskriti Deemed to be University, Haridwar on 29 January 2021.
23. Delivered an Invited talk on “Design thinking for Research” in One-week Online Faculty Development Programme at M. B. Govt. P. G. College, Haldwani (Nainital) & Govt. Degree College, Bhatronjkan (Almora) on 30 January

2021 organized by Faculty Development Center, (PMMMNMTT, Govt. of India), H. N. B. Garhwal Central University (Srinagar) Uttarakhand

24. Delivered an Expert lecture on “Design thinking for Innovation” in Haridwar Engineering College (HEC) group of colleges, Haridwar on 18 February 2021.
25. Delivered an Expert lecture on “Design thinking for Innovation and Blockchain” in Roorkee College of Engineering, Roorkee on 09 March 2021.
26. Delivered an Invited talk on “Applications of AI in Agro- Industries” in College of Engineering Roorkee, during the One-week Faculty Development Programme (FDP) on “Scaling up agricultural & allied Sciences education and research with new methodologies on 23 March 2022.
27. Delivered an Invited talk on “Web Technologies” in Dev Sanskriti Vishwavidyalaya, Haridwar on 05 May 2022.
28. Delivered an Invited talk on “Google Tips and Tricks” in Economics Department, GKDU on 27 May 2022.
29. Delivered an invited talk on “New Education Policy” in Department of Physical Education, Gurukul Kangri Deemed to be University, Haridwar and Sports on 05 September 2022.
30. Delivered an invited talk on “Design Thinking for Innovation, Better future and Sustainable Development” in Quantum University, Roorkee on 15 September 2022.
31. Delivered an invited talk on “Audio Video Recording Tools, Screencast training and uses” in Uttarakhand Sanskrit University in online mode on 21 October 2022.
32. Delivered an Invited talk on “Deep Learning and its application” in University of Engineering & Technology, Roorkee, Haridwar on 31 October 2022.
33. Delivered an Invited Keynote address on “Innovative Thinking and Development” and acted as session chair in IEEE conference on Fourth Industrial Revolution based Technology and Practices (ICFIRTP-2022) at Quantum University, Roorkee on 23 November 2022.
34. Delivered an Invited Talk on Tips of Project Development and Android Programming in Dev Sanskriti Vishwavidyalaya, Haridwar on 03 December 2022.
35. Delivered an Invited Talk on “NPTEL Awareness and Enrolment Process” in Faculty of Engineering & Technology, Gurukula Kangri Deemed to be University Haridwar on 06 Feb, 2023.
36. Delivered Key note address on “Disaster Management using Advanced Techniques” in Rural Science Congress organized by Uttarakhand Council of Science and Technology (UCOST), dehradun on 11 Feb, 2023.
37. Delivered an Invited talk on “Data Processing using GPT” in National Workshop on Data Analytics using Advanced Mathematical Tools, organized by Faculty of Engineering & Technology, Gurukula Kangri Deemed to be University, Haridwar on 18 March, 2023.
38. Delivered an Invited talk on “Applications of Animation & Multimedia” in class B.Sc. in HEC group of Institutions, Haridwar on 28 April, 2023.
39. Delivered an Invited talk on “Web Technologies” in DSVV, Shantikunj on 04 May, 2023.
40. Delivered an Invited talk on “Artificial Intelligence” in UCOST Science and Technology Communication Program at Almora on 19 May 2023.
41. Delivered an invited talk on “Audio Video Recording Tools, Screencast training and uses” in Uttarakhand Sanskrit University in online mode on 25 May 2023.

42. Delivered an invited talk on “ICT tools for Effective Teaching” in National FDP on “Rethinking Teaching Pedagogy in Commerce and Management” held during 3-7 July, 20223 organized by Sushant University, Gurugram, India on 3 July 2023.
43. Delivered an Invited talk on “NPTEL awareness and Enrolment Process” in Student Induction Program on 24 August 2023 organized by Faculty of Engineering and Technology, Gurukula Kangri Deemed to be University, Haridwar during 22-29, august 2023.

Other duties

- Observer in Sanskrit University September 2019, 2020
- Appointed as inspector for the ICSE board Exam February 2020, 2021, 2022
- Observer in Uttarakhand Ayurved University Campus, Gurukula Kangri, Haridwar for Main Exams of BAMS batch 2016 first year and batch 2014 third year on December 08, 2017.
- Member of Expert panel in Interview for Computer Science Teacher in Ma Saraswati School
- Member of Expert Panel in Interview for computer science position in DAV Centenary Public School, Haridwar on 01 September 2022.

Ph.D. Topic

- Topic – “Secure Routing in Mobile Ad-hoc Networks”
- Summary - In this research work the existing problem of securing wireless network is addressed and the solutions for the same is presented against three major types of attacks that are Black hole Attack, Wormhole Attack and Gray Hole Attack. The solution is established under NS2 with using cooperative neighbour based detection methods to overcome the attack situations before they happen in the network.
- Date month and year of award of Ph.D. Degree – 24/04/2019

Project Work

- “Some Heuristic Approaches For Dynamic Load Balancing In Distributed Systems” – M. Tech Dissertation.
- “Implementation of Novel Indexing Technique for Web Documents Using Hierarchical Clustering” - Minor Project in M.Tech.
- “Implementation of Cryptographic Algorithms on Standalone Systems” – Major Project in B.Tech.
- “Scrabblet – A word game” - Minor Project in B.Tech.

Training Attended

1. Practical Training in Prospecta Soft Pvt. Ltd. 1005, 10th floor, JMD Regent Square, MG Road, Gurgaon – 122002 on Project Named : “Scrabblet a multiplayer word game”, Project Development Tool : Eclipse, Database : SQL Server 2000, Language : JAVA/ J2EE, O/S : Windows XP w.e.f. 9 July 2007 to 31 July 2007.
2. Practical Training in HIESYS Technologies, Dehradun during 24 july 2023 to 07 August 2023 on latest technologies.

Personal Details

Father's Name	Prof. Ishwar Bhardwaj
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Mother's Name	Mrs. Mithilesh Bhardwaj
Date of Birth	22-07-1986
Marital Status	Married
Spouse Name	Mrs. Himani Bhardwaj
Sex	Male
Languages Known	English, Hindi

Date: Tuesday, 12 September 2023

Place: Haridwar

(Dr. Suyash Bhardwaj)