

Curriculum Vitae

Dr. PREM NATH

Professor

**Computer Science and Engineering Department,
H. N. B. Garhwal University (A Central University),
Srinagar-246174, Uttarakhand, India**

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Personal Details:

Date of Birth: 7th May 1978

Sex: Male

Father's Name: (Late) Shri Rambriksha Sahu

Marital Status: Married

Nationality: Indian

Permanent Address: Vill. Hafua Jiwan, P.O.-Tariya Lachhiram,
Distt. Kushinagar-274409, **U.P.**, India

TECHNICAL QUALIFICATIONS:

- B.E.** (Computer Science and Engineering) from G. B. Pant Engineering College (H.N.B. Garhwal University)-Uttarakhand, India with **72.48%** marks in 2000.
- Ph.D.(Computer Science and Engineering)** from **Indian Institute of Technology (ISM)**, Dhanbad, Jharkhand (India), 10 Oct 2013.

Thesis Title: Study and Development of Efficient Mobility Management Schemes for Communication Networks

OTHER ACADEMIC QUALIFICATIONS:

- Intermediate from U.P. Board in 1995 with 69.6% marks.
- High School from U.P. Board in 1993 with 72.83% marks.

AREAS OF INTEREST: Wireless Communication, Automata Theory, Intellectual Property Rights (IPRs), P2P Networks

EMPLOYMENT DETAILS:

S. No.	Period		Position Held	Organization	Nature of work
	From	To			
1.	06/07/2023	Present	Professor	Computer Science and Engineering Department, H. N. B. Garhwal University (A Central University), Srinagar, Uttarakhand	Teaching, Research, Administrative Work
2.	06/07/2020	05/07/2023	Associate Professor	Computer Science and Engineering Department, H. N. B. Garhwal University (A Central University), Srinagar, Uttarakhand	Teaching, Research, Administrative Work

3.	29/03/2016	05/07/2020	Associate Professor	Computer Engineering Department, Mizoram University (A Central University), Aizawl, Mizoram	Teaching, Research, Administrative Work
4.	22/09/2003	28/03/2016	Examiner of Patents & Designs And Assistant Controller of Patents & Designs	The Patent Office (Under the Ministry of Commerce & Industry), CP-2, Sector-5, Salt Lake, Kolkata-700091	Granting of Patents and Examination of Patents Applications as per the Patent Act in the field of Computer Science & Engineering and Communication Technology
5.	16/08/2000	30/08/2002	Lecturer in Computer Science & Engineering Department	Dehradun Institute of Technology, Mussoorie-Diversion Road, Village: Makkawala, P.O. Bhagwantput, Dehradun (Uttarakhand), India	Teaching (Computer Science & Engineering Subjects), Supervising Labs, Projects

PROFESSIONAL ACTIVITIES:

S. No.	Activity	Details of the activity	Duration	
			From	To
1.	Research Paper Review	As a reviewer for the journal IET Networks	April 2012	Present
2.	Research Paper Review	As a reviewer for the journal of Network and Computer Application (JNCA)	March 2013	Present
3.	Grant of Patents and Examination of Patent Applications filed Nationally and Internationally	I have worked as Assistant Controller of Patents & Designs and Examiner of Patents and Designs (Gazetted Group 'A'), at the Patent Office, CP-2, Salt Lake City, Sector-V, Kolkata-700091, West Bengal. My work was granting patents based on examination of technical advancement (new inventions) as well as the legal aspect (The Patent Act 1970 as amended in 2005). I have examined more than 3000 patent applications. I was involved in granting and examination of new inventions related to following technical fields in order to ascertain patentability: • Computer Applications • Algorithm and Data Structure Design • Database management • Language Processing engaged • Storage Media • Telecommunications • Wireless Communications • Other Fields where General Purpose Computers or related technologies are used	Sept 2003	March 2016

TRAINING/SEMINAR ATTENDED:

1. Training at **IPTI, Nagpur** in the field of Patent and Design examination Jan 2004.
2. Training at **The Japan Patent Office (JPO), Tokyo, Japan** in the field of “Computer Programs” in March, 2007 sponsored by World Intellectual Property Organization (**WIPO**).
3. Training at The Patent Offices in collaboration with many foreign bodies like, European Patent Office, US Patent and Trade Marks Office, etc. 2009.
4. Seminar at Patent Office, Mumbai in the field of “Patent Examination and prior art Searching” 26-27 Oct, 2010 with Delegates from **Japan Patent Office (JPO)**, Tokyo, Japan.
5. Seminar at Patent Office, Chennai in the field of “Patent Examination and prior art Searching” March, 2011 with Delegates from **United States Patents and Trade Marks Office (USPTO)**, United States.
6. Regional Workshop on the Nice, Vienna and Locarno Classification Systems organized by the World Intellectual Property Organization (WIPO) in cooperation with the **Intellectual Property Office of the Philippines (IPOPHL)**, Manila, Nov 18 to 22, 2013.
7. Training on International Patent Classification (IPC), 22-24 Sept 2014, The Patent Office, Kolkata, India organized by World Intellectual Property Organization (**WIPO**).

RESEARCH AND TEACHING EXPERIENCE:

Research: 14 Years

UG&PG: 9 Years

PATENT APPLICATIONS FILED:

1. Application No.: **202311032943**

Title: System and Method Congestion Aware Data Transmission in Mobile and Constrained IoT Network

Inventors: Aastha Maheshwari, Dr Rajesh K Yadav, and **Dr Prem Nath**

TOTAL NUMBER OF PUBLICATIONS

- (a) Research Papers (Journal/Conference/Book Chapters): 36 (**18 SCI**)
- (b) Books: 03

PAPER PUBLICATIONS:

1. Rajiv K. Mishra, Rajesh K. Yadav, and Prem Nath, “Integration of Blockchain and IPFS: healthcare data management & sharing for IoT Environment”, Multimedia Tools and Applications (ISSN: 1573-7721), Springer, Published on 17th September 2024, DOI: <https://doi.org/10.1007/s11042-024-20092-3>, **SCI IF-2.577**.
2. Rajiv K. Mishra, Rajesh K. Yadav, and **Prem Nath**, “Access Control Models and Frameworks for the IoT Environment: Review, Challenges, and Future Direction”, Wireless Personal Communication (eISSN-1572-834X), Springer, Published on 1st October 2024, Vo 138, pp. 1671-1701, DOI: <https://doi.org/10.1007/s11277-024-11568-4>, **SCI IF-2.017**.
3. Rajiv K. Mishra, Rajesh K. Yadav, and **Prem Nath**, “Blockchain Driven Access control architecture for the internet of things”, Multimedia Tools and Applications (ISSN: 1573-7721), Springer, Published on 3rd March 2023, Vol. 82(20), pp. 1-25, DOI: <https://doi.org/10.1007/s11042-023-14881-5>, **SCI IF-2.577**.

4. Aastha Maheshwari, Rajesh K. Yadav, **Prem Nath**, “Congestion Aware Data Transmission in Mobile and Constrained IoT Network”, *Wireless Personal Communication (eISSN-1572-834X)*, **Springer**, Published on 29th March 2023, Vol. 130, pp. 2121–2136. DOI: <https://doi.org/10.1007/s11277-023-10374-8>, **SCI IF-2.017**.
5. Rajiv K. Mishra, Rajesh K. Yadav, and **Prem Nath**, “Secure IoT Data Management and Sharing Architecture for Information Security Using Cryptographic Technique”, *Journal of Intelligent and Fuzzy Systems (ISSN-1064-1246)*, Published on 2nd Dec 2023, Vol. 45, pp. 10951-10966, DOI: <https://doi.org/10.3233/jifs-232483>, **SCI IF-1.7**.
6. Arvind Rawat, Sudhanshu Maurya, Prem Nath, Suraj Panwar, “Low Energy Based Optimization for IoT Applications Using Super Nodes in Sensor Network”, *JOURNAL OF NANO- AND ELECTRONIC PHYSICS (ISSN: 2077-6772)*, Published on 30th Aug 2023, Vol. 15 No 4, pp. 04028-04022, DOI: [https://doi.org/10.21272/jnep.15\(4\).04028](https://doi.org/10.21272/jnep.15(4).04028), Scopus Indexed.
7. Aastha Maheshwari, Rajesh K. Yadav, **Prem Nath**, “Data Congestion Control Using Offloading in IoT Network”, *Wireless Personal Communication (eISSN-1572-834X)*, **Springer**, Published on 12 March 2022, Vol. 15, pp. 2147–2166, DOI: <https://doi.org/10.1007/s11277-022-09649-3>, **SCI IF-2.017**.
8. Sanjeev Kumar Singh, Chiranjeev Kumar, **Prem Nath**, “Resource-Cardinality Based Scheme to Reduce Resource Lookup Cost in Structured P2P Networks”, *Wireless Personal Communication (eISSN-1572-834X)*, **Springer**, Published online 9th May 2022, Vol. 125, pp. 3351–3377, DOI: <https://doi.org/10.1007/s11277-022-09714-x>, **SCI IF-2.017**.
9. Arvind Rawat, **Prem Nath** and Suraj Singh Panwar, “A REVIEW ON ENERGY EFFICIENT LEACH PROTOCOL FOR WIRELESS SENSOR NETWORKS”, *JOURNAL OF EAST CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY (ISSN: 1006-3080)*, Vol. 65(3), pp. 743-756, Published on 30 Aug, 2022, DOI: 10.5281/ZENODO.7034912, Elsevier Scopus
10. Rajesh K. Yadav, Aastha Maheshwari, **Prem Nath**, “**Data Congestion Prediction in Sensors Based IoT Network**”, *Journal of Scientific & Industrial Research (ISBN: 0975-1084)*, Vol. 80(12), December 2021, pp. 1091-1095, DOI: 10.56042/jsir.v80i12.52658 , **SCI IF: 0.555**.
11. Sanjeev Kumar Singh, Chiranjeev Kumar, **Prem Nath**, “**Analysis and modeling the effects of mobility, Churn rate, node’s life span, intermittent bandwidth and stabilization cost of finger table in structured mobile P2P networks**”, *Wireless Networks (eISSN-1572-8196)*, **Springer**, Published on 19 Nov 2020, Vol 27, pp. 1049-1062, DOI: <https://doi.org/10.1007/s11276-020-02493-y>, **SCI IF-2.701**.
12. Mahendra Singh, Chiranjeev Kumar, **Prem Nath**, “**Finger Forwarding Scheme to Reduce Lookup Cost in Structured P2P Networks**”, *Wireless Personal Communication (eISSN-1572-834X)*, **Springer**, Published online 17th May 2020, vol. 114, pp. 2263-2281, DOI: <https://doi.org/10.1007/s11277-020-07475-z>, **SCI IF-2.017**.
13. Mahendra Singh, Chiranjeev Kumar, **Prem Nath**, “**Local P2P Group (LPG) Communication in Structured Mobile P2P Network**”, *Journal of Ambient Intelligence and Humanized Computing (eISSN-1868-5145)*, **Springer**, Published on 7th Sept. 2019, vol. 11, pp. 3005-3019, DOI: <https://doi.org/10.1007/s12652-019-01442-8>, **SCI IF-3.662**.
14. Mahendra Singh, Chiranjeev Kumar, **Prem Nath**, “**Mobility Pattern Based Chord (MP-Chord) for Enhanced Lookup Performance in Mobile P2P Networks**”, **Wireless Personal**

Communication (eISSN-1572-834X), Vol-109(3), pp. 1971-1985, Springer, Published online 16th Aug 2019, DOI: 10.1007/s11277-019-06663-w, SCI IF-2.017.

15. Sanjeev Singh, Chiranjeev Kumar, **Prem Nath**, “Local Contribution (LC) and Trustworthiness Factors to Induce Fairness in P2P Networks”, **Wireless Personal Communication (eISSN-1572-834X), Springer, 2019, Vol. 107, pp-303-323, DOI: <https://doi.org/10.1007/s11277-019-06256-7>, SCI IF-2.017.**
16. **Prem Nath**, “A Survey over Mechanisms for Reducing Free Riding Behaviour in Structured P2P Networks”, **Science & Technology Journal (ISSN: 2321-3388), Vol. 5, Issue II, July 2017, pp. 110-115, published by Mizoram University (A Central University), DOI: <http://doi.org/10.22232/stj.2017.02.07>**
17. **Prem Nath**, “Context-Sensitive Grammars and Linear Bounded Automata”, **International Journal of Computer Network and Information Security (IJCNIS), Vol. 1, pp. 61-66, Jan 2016, published by Modern Education and Computer Science (MECS) Publisher, Hong Kong, DOI: 10.5815/ijcnis.2016.01.08, Scopus Indexed**
18. **PremNath and Chiranjeev Kumar**, “Location Management in IPv4 Networks for Fixed Mobility Pattern Users”, **Wireless Personal Communications (eISSN-1572-834X), 2015, Vol. 85, pp. 987-1008, DOI: <https://doi.org/10.1007/s11277-015-2821-4>, Springer, SCI IF-2.017.**
19. **Prem Nath and Chiranjeev Kumar**, “Adaptive Mobility Anchor Point (AMAP) to Reduce Regional Registration and Packets Delivery Costs”, **Computers and Electrical Engineering (ISSN- 0045-7906), Vol. 40, pp. 1329-1343, May 2014, <https://doi.org/10.1016/j.compeleceng.2013.12.005>, Elsevier, SCI IF-4.152.**
20. **Prem Nath and Chiranjeev Kumar**, “Mobility Agent Based on Activity Rate of User and Adaptive Paging for Location Management in Wireless Communication”, **Transactions on Emerging Telecommunications Technologies (eISSN-2161-3915) formerly known as European Transactions on Telecommunications (ETT), July 2014, Vol. 25, pp. 723-735, DOI: <https://doi.org/10.1002/ett.2602>, Wiley (John Wiley & Sons), SCI IF-3.31.**
21. **Prem Nath and Chiranjeev Kumar**, “Mobility Management Scheme for Fixed Mobility Pattern Mobile Users in IPv4 Networks”, **The Computer Journal (eISSN-1460-2067), 2014, Vol. 57, No. 12, pp. 1893-1911, DOI: <https://doi.org/10.1093/comjnl/bxt135>, Oxford University Press, SCI IF-1.762.**
22. **Prem Nath and Chiranjeev Kumar**, “Hybrid Scheme with Adaptive Replication and Mobility Anchoring Point (MAP) in Wireless Networks”, **Wireless Personal Communications (WPC), Vol. 72, No. 1, pp. 597-621, Aug 2013, DOI: 10.1007/S11277-013-1032-0 , Springer, SCI IF-2.017.**
23. **Prem Nath and Chiranjeev Kumar**, “User’s Profile Replication Tree and On Demand Replica Update in Wireless Communication”, **International Journal of Computer Network and Information Security (IJCNIS), ISBN: 2074-9104, Vol. 5, No. 3, pp. 63-71, March 2013, DOI: 10.5815/ijcnis.2013.03.08, Modern Education and Computer Science (MECS) Publisher, Hong Kong, Scopus Indexed.**

24. **Prem Nath and Chiranjeev Kumar**, “Dynamic Hierarchical Location Management Scheme Based on Huffman Tree Notion for IP Networks”, **International Journal of Indian School of Mines(JISM)**, Vol. 1, pp. 15-31, August 2012, **Indian School of Mines (ISM)**, Dhanbad, India.
25. **Prem Nath, Chiranjeev Kumar, R K Yadav and Adarsh Kumar**, “Replication Strategy Using Huffman Tree like Structure”, **International Journal of Computer Science and its Applications**, Vol 2, No. 3, pp. 106-111, 2012, **Seek Digital Library**.
26. **Prem Nath and Chiranjeev Kumar**, “**Mobility** Management Using Profile Replication Based on Total Network Traffic Statistic Data”, **Journal of Information Systems and Communication**, Vol. 3, No. 1, pp. 359-363, 2012, **Bioinfo Publications**.

INTERNATIONAL CONFERENCE AND BOOK CHAPTERS:

Year 2011

1. **Prem Nath and Chiranjeev Kumar**, “*Improved Handover in Hierarchical Mobility Management for Mobile IPv4 Networks*”, Abstract published in the *13th International Conference of the International Academy of Physical Sciences (CONIPAS XIII)*, held at UPES Dehradun, India, 14-16 June 2011, pp. 298.

Year 2012

2. **Prem Nath & Chiranjeev Kumar**, “User Movement-Based Hierarchical Mobility Management Scheme (UM-HMIP) for IP Networks”, Published in Proc. of **3rd IEEE ICCCT-2012** held on 23-25 Nov 2012 at Motilal Nehru National Institute of Technology (MNNIT), Allahabad (U.P.)-211004, India, pp. 210-215, DOI: 10.1109/ICCCT.2012.50
3. **Prem Nath & Chiranjeev Kumar**, “Adaptive Hierarchical Mobility Management scheme(A-HMIP) for IP Networks”, **12thInternational Symposium on Communications and Information Technologies-ISCIT-2012**, 2-5 Oct 2012 held at Gold Coast Australia under the joint technical sponsorship of the IEEE Circuits and Systems Society (USA) and the joint Queensland Chapter of the IEEE Signal Processing and Communications Societies, pp. 331-336, DOI: DOI: 10.1109/ISCIT.2012.6380917

Year 2018

4. Sanjeev Kumar Singh, Chiranjeev Kumar, **Prem Nath**, “Ranking Based System to Reduce Free Riding Behavior in P2P systems”, Future of Information and Communications Conference (FICC) 2018, IEEE Sponsored International Conference, 5-6 April 2018, Singapore, published in the book *Advances in Information and Communication Networks*, Vol. 1, pp 165-177, ISBN 978-3-030-03401-6 ISBN 978-3-030-03402-3 (eBook), <https://doi.org/10.1007/978-3-030-03402-3>.
5. Mahendar Singh, Chiranjeev Kumar, **Prem Nath**, “Challenges and Protocols for P2P applications in Multi-hop Wireless Networks”, ICCMC 2018, IEEE International Conference, 15-16 Feb 2018 Proceedings of the Second International Conference on Computing Methodologies and Communication (ICCMC 2018), Surya Engineering College, IEEE Conference Record # 42656, IEEE Xplore ISBN:978-1-5386-3452-3, pp. 310-316, **Scopus Indexed**, DOI: 10.1109/ICCMC.2018.8487911

Year 2020

6. S. Kumar Brinda, N Senthil Kumar, Saia Chenkual, S T Lalruatfela, Thomas Zomuana, Zothansanga Ralte, Arindam Maitra, Analabha Basu, and **Prem Nath**, “Data Mining For Early Gastric Cancer Etiology Factors from Diet_lifestyle Characteristics”, Proc. International Conference

on Intellegente Computing and Control Systems (ICICCS 2020), Vaigai College of Engineering, 13-15 May 2020, Madurai, India, DOI: [10.1109/ICICCS48265.2020.9121142](https://doi.org/10.1109/ICICCS48265.2020.9121142)

7. Mahendar Singh, Chiranjeev Kumar, **Prem Nath**, "P2P Applications in 4G/5G Networks Using D2D Communication Based on Social Attributes of Users", Proc. of 2020 Fourth World Conference on Smart Trends in Systems, Security and Sustainability (WorldS4), IEEE Conference, 27-28 July 2020, London, UK, **ISBN:978-1-7281-6823-4**, pp. 730-738, **Scopus Indexed**, DOI: [10.1109/WorldS450073.2020.9210297](https://doi.org/10.1109/WorldS450073.2020.9210297)
8. Mahendar Singh, Prem Nath, "Effective Deployment of ICT Tools in an Academic Institute", COVID-19 Pandemic and Human Life, Book Chapter-2, Published by Pacific Books International, ISBN: 978-93-88536-69-1.

Year 2021

9. Sanjeev Kumar Singh, Chiranjeev Kumar, **Prem Nath**, "Replication Scheme for Structured P2P System Applications in Wireless Mesh Networks (WMNs)", 2021 Asian Conference on Innovation in Technology (ASIANCON), 2021, pp. 1-7, DOI: [10.1109/ASIANCON51346.2021.9544948](https://doi.org/10.1109/ASIANCON51346.2021.9544948), e-**ISBN:978-1-7281-8402-9**
10. R. K. Mishra, R. K. Yadav and **Prem Nath**, "Blockchain-Based Decentralized Authorization Technique for Data Sharing in the Internet of Things," *2021 5th International Conference on Information Systems and Computer Networks (ISCON)*, Mathura, India, 2021, pp. 1-6, **ISBN:978-1-6654-4787-4**, DOI: [10.1109/ISCON52037.2021.9702297](https://doi.org/10.1109/ISCON52037.2021.9702297).

BOOKS PUBLISHED:

1. Dr R. B. Patel and **Prem Nath**, **Fundamental of Computing and C Programming**, India Tech Publishing Company Pvt., New Delhi, 1st Edition 2006, **ISBN 81-89897-00-4**
2. Dr R. B. Patel and **Prem Nath**, **Automata, Theory and Formal Languages**, Umesh Publication, Delhi, 2nd Edition 2008, **ISBN: 81-88114-53-7**
3. Dr R. B. Patel and **Prem Nath**, **Automata, Theory of Computation (With Formal Languages)**, Khanna Book Publishing Company PVT. LTD. Delhi, India, **ISBN: 978-93-80016-52-8**

Link for Google Scholar: <https://scholar.google.com/citations?authuser=1&user=xtPHMU8AAAAJ>

Link for Research Gate: https://www.researchgate.net/profile/Prem_Nath8

You tube E-Learning Videos:

1. <https://www.youtube.com/watch?v=kMI78ID4djg&t=1458s>
2. <https://www.youtube.com/watch?v=GCTSZzeFZIs&t=2493s>
3. https://www.youtube.com/watch?v=UVCQ2hg182k&list=PLmuMgyy0IPprwmlusyGzTZF_Cs1HoZmRL&index=40

RESEARCH GUIDANCE:

S. No.	Name of Scholar	Title	Institution/University	Status
1.	Dr. Sanjeev Kumar Singh	Development of Fair and Efficient Resource Discovery Schemes for P2P Networks	IIT(ISM), Dhanbad	13/01/2023 Awarded (Reg. No. 2016DR1067 dated

				04/02/16)
2.	Dr. Mahendra Singh	Study and Development of Efficient Resource Management Schemes for Structured P2P Networks	IIT(ISM), Dhanbad	13/01/2023 Awarded (Reg. No. 2015DR1192 dated 11/09/15)
3.	Dr. Aastha Maheshwari	Data Congestion Handling in Sensors Enabled Internet of Things	Delhi Technological University (DTU), New Delhi	08/04/2024 Awarded (Reg. No. 2K18/PHD/CO/502 dated 12/07/2021)
4.	Dr. Rajiv Kumar Mishra	Blockchain-Based Access Management Framework for Internet of Things (IoT)	Delhi Technological University (DTU), New Delhi	25/10/2024 Awarded (Reg. No. 2K18/PHD/CO/501 dated 23/02/2021)

EXPERT TALK/SESSION CHAIRED:

1. Invited Talk over “**Microwave Frequency and Its Applications in Communication**”, National Workshop on “Emerging Trends in High Frequency Devices Communication Technology”, Organized by Department of Electronics & Communication Engineering, Mizoram University, Aizawl, Mizoram, 25-29 March 2019.
2. Expert talk over “**Indian Patent System and Patenting in Biological Sciences**”, National Conference Organized by Department of Biotechnology, Mizoram University and Indian Chapter of Asian PGPR Society of Sustainable Agriculture, 11-12 May 2018.
3. Invited Talk over “**Frequency Spectrum and Applications**”, National Workshop on “Electromagnetic, Microwaves, and Antenna”, Organized by Department of Electronics & Communication Engineering, Mizoram University, 21-25 Aug 2017.
4. Chaired a technical session titled “**Advances in Communications**”, at 3rd IEEE International Conference on Recent Advances in Information Technology (RAIT-2016), organized by Department of Computer Science and Engineering, Indian Institute of Technology (ISM), Dhanbad, India, 3-5 March 2016.
5. Invited Talk over “**Patenting and Similarity Search**” at National Workshop on Ethics in Research and Preventing Plagiarism (ERPP 2019), Department of Physics, School of Physical Sciences, Mizoram University, Aizawl, Mizoram, 3rd Oct 2019.
6. Co-Chaired a technical session Titled “**Sustainable Business Management and Information Technology**”, Organized by Department of Management, Mizoram University, Aizawl Mizoram and North Eastern Management Association (NEMA), 31st Oct 2019 to 1st Nov 2019.
7. Invited Lecture on “**Sensitization Workshop on Intellectual Property Rights and Patents**”, at one day Workshop on Intellectual Property Rights and Patents on 14th Nov 2019, Technology Enabling Centre, Mizoram University, Aizawl, Mizoram.
8. Invited Discussion on “**Role of Hindi for National Integration**”, Telecasted by **Doordarshan, Aizawl, Mizoram** Dated 14th Sept. 2019.
9. Invited Lecture on “**Intellectual Property Rights and Patenting System in India**”, at TQIP-III, FDP on “Tool and Scientific Communications for Research Article and Proposal Writing”, 19-23

- Sept. 2020, organized by Dept. of Mechanical Engineering, G B Pant Institute of Engineering and Technology, Pauri (Garhwal)-246194, Uttarakhand
10. Invited Expert Talk on “National Education Policy: Implementation Strategies in Engineering and Technology Institutions”, at AICTE TQIP Short term Course, Organized By Manav Institute of Technology and Science (MIT), Gwalior, M. P. during 21-25 March 2022.
 11. Invited speaker at Webinar on “Awareness on Intellectual Property Rights (IPRs) and Patenting System in India”, Organized by Banwarilal Bhalotia College (Govt. Sponsored), Asansol, West Bengal on 17th July 2022.
 12. Invited Talk over “Introduction to Intellectual Property Rights (IPRs)”, in Short Term Course during 23-29 Sept. 2022, Organized by Mizoram University, Aizawl, Mizoram.
 13. Invited Lecture over “Technology Transfer and IPRs”, in Short Term Course on 20th Jan. 2023, Organized by Mizoram University, Aizawl, Mizoram.
 14. Invited Talk over “Introduction to Intellectual Property Rights (IPRs)”, in 7th Faculty Induction Programme on 7th July 2023, Organized by Mizoram University, Aizawl, Mizoram.
 15. Invited Talk over “Patenting System in India and Filing Patent Application”, in Summer School on Emerging Trends in Science and Technology on 7th Aug 2023, Organized by Mizoram University, Aizawl, Mizoram.
 16. Invited Talk over “Intellectual Property Rights (IPRs)”, in Refresher Course on “Entrepreneurship Development” on 7th Oct 2023, Organized by Mizoram University, Aizawl, Mizoram.
 17. Invited Talk over “Intellectual Property Rights (IPRs)”, in short term course on “Research and Publication Ethics” on 5th Oct 2023, Organized by Mizoram University, Aizawl, Mizoram.
 18. Invited Talk over “Introduction to Intellectual Property Rights (IPRs)”, in 9th Faculty Induction Programme on 15/11/2023 (14th Nov-11th Dec 23), Organized by Mizoram University, Aizawl, Mizoram.
 19. Invited Talk over “Intellectual Property Rights (IPRs)”, in 12th NEP 2020 Orientation and Sensitization Programme on 05/09/2024 (1st to 9th September 24), Organized by Mizoram University, Aizawl, Mizoram.
 20. Invited Talk over “Workshop on Intellectual Property Rights (IPRs)”, on 23/02/2024, Organized by Department of Pharmaceutical Science and IIC, H N B Garhwal University, Srinagar, Pauri Garhwal, Uttarakhand.
 21. Invited Talk over “Innovations and Intellectual Property Rights”, on 26/04/2025, Organized by Department of Pharmaceutical Science and IIC, H N B Garhwal University, Srinagar, Pauri Garhwal, Uttarakhand.
 22. Invited Talk over “Research and Development: Intellectual Property Rights (IPRs)”, in 24th NEP 2020 Orientation and Sensitization Programme on 13/03/2025 (5th to 13th March 25), Organized by Mizoram University, Aizawl, Mizoram.

(Dr Prem Nath)