

Curriculum Vitae

Full Name	Dr. Prashant Thapliyal		
Designation	Assistant Professor		
Department	Instrumentation Engineering-USIC		
Campus	Birla		
Telephone	-		
Mobile	7830506095, 7579160677		
Email	p.thapliyal@hnbgu.ac.in pra.thapli1986@gmail.com		
Education Qualification	<ol style="list-style-type: none"> 1. B. Tech. (Instrumentation Engineering) (2008), H.N.B. Garhwal University, Srinagar (Garhwal), Uttarakhand. 2. M. Tech. (Instrumentation) (2010), NIT Kurukshetra, Kurukshetra, Haryana. 3. Ph.D. (Engineering) (2022), Dept. of Instrumentation and Applied Physics, IISc Bangalore, Bangalore, Karnataka. 		
Teaching Experience	12 Yrs	Research Experience	08 Yrs
Professional Career			
Working as an Assistant Professor in the Department of Instrumentation Engineering-USIC, H.N.B. Garhwal University, Srinagar (Garhwal), Uttarakhand, since 21 st March, 2012.			
Areas of Interest/ Specialization			
<ol style="list-style-type: none"> 1. Sensors and Industrial Instrumentation. 2. Industrial Automation. 3. To work on Sophisticated Analytical Instruments (e.g. XRD, SEM, Piezometer, Ellipsometer). 4. Vacuum Instrumentation and Thin Film Deposition. 5. Electrical and Optical Properties of $(Ta_2O_5)_{1-x}-(TiO_2)_x$ Thin Films. 			
Administrative Experience			
<ol style="list-style-type: none"> 1. Member of 'Departmental Purchase Committee'. 2. Member of 'B. Tech. Admission Committee' of School of Engineering and Technology, H.N.B. Garhwal University, Srinagar (Garhwal), in 2013-14, 2016-17, 2017-18, 2019-20, 2020-21, and 2022-23. 3. PI Incharge, JoSAA/ CSAB for 'B. Tech.-1st Year Admission' of School of Engineering and Technology, H.N.B. Garhwal University, Srinagar (Garhwal), in 2021-22. 4. Convener of 'B. Tech.-1st Year Admission Committee' of School of Engineering and Technology, H.N.B. Garhwal University, Srinagar (Garhwal), in 2023-24. 5. Member of 'Board of Studies (BoS)' of Dept. of Instrumentation Engineering, H.N.B. Garhwal University, Srinagar (Garhwal), in 2015, 2016, and 2022. 6. Member of 'School Board' of School of Engineering and Technology, H.N.B. Garhwal University, Srinagar (Garhwal), in 2019. 			

7. Member of 'PG/PhD Entrance Examination Committee' of H.N.B. Garhwal University, Srinagar (Garhwal), in 2017-18 & 2018-19.
8. Committee Member of 'End Semester Examination' of the examination centre at Chauras Campus, H.N.B. Garhwal University, Srinagar (Garhwal), in 2018-19 & 2021-22.
9. Member of 'Dr. Ambedkar Centre of Excellence (DACE)' of H.N.B. Garhwal University, Srinagar (Garhwal), in 2022-23.
10. Committee Member of 'Election of Student Union' of H.N.B. Garhwal University, Srinagar (Garhwal), in 2022-23.

Orientation/Refresher Courses Attended

1. Orientation Programme, organized by UGC-Academic Staff College, Kumaun University, Nainital, Uttarakhand, from 14th July to 10th August, 2014.
2. Refresher Course on "Disaster Management", organized by UGC-Human Resource Development Centre, Kumaun University, Nainital (Uttarakhand), from 2nd December to 23rd December, 2016.
3. Refresher Course on "Multidisciplinary Approaches to Address Environmental Issues: Emerging Trends in Physical, Biological and Social sciences", organized by Faculty Development Centre, H.N.B. Garhwal University, Srinagar (Garhwal) (Uttarakhand), from 12th September to 25th September, 2019.

Participation/ Invited Talk in Conferences/Symposiums/Short Term Courses/ Workshops/Training Programs

1. Attended a Workshop on "Intellectual Property Rights & Patent Awareness", held at H.N.B. Garhwal University, Chauras Campus, Srinagar (Garhwal), jointly organized by H.N.B. Garhwal University and Uttarakhand Council of Science and Technology (UCOST), Dehradun, and supported by Technology Information, Forecasting & Assessment Council (TIFAC), Dept. of Science & Technology, Govt. of India, New Delhi, on 28th March, 2012.
2. Attended Short Term Course on "PCB Layout, Fabrication and Testing", conducted by Electronics Service Centre, NITTTR, Chandigarh (U.T.), from 14th January to 18th January, 2013.
3. Attended National Conference on "Recent Advances in Material Science (NCRAMS-13)", organized by Dept. of Physics, H.N.B. Garhwal University, Srinagar (Garhwal), on 26th & 27th October, 2013.
4. Attended a Workshop on NMEICT Awareness "Recent Trends in Education System", organized by Dept. of Computer Science & Engineering, National Institute of Technology, Uttarakhand, on 29th & 30th November, 2014.
5. Attended a Workshop on "Materials Characterization by SEM, TEM, XRD & EBSD", organized by Dept. of Mechanical Engineering, G. B. Pant Institute of Engineering & Technology, Pauri Garhwal, Uttarakhand, on 27th & 28th October, 2017.

6. Delivered an Invited Talk entitled on “Thin Film Sample Preparation and Characterizations” in two days workshop on “Physical and Applied Sciences: with particular reference to contribution to Indian Scientists”, held at Dept. of Physics, Chauras Campus, H.N.B. Garhwal (A Central) University, Srinagar (Garhwal), on 14th & 15th March, 2018.
7. Attended online One Week Faculty Development Programme on “Open Source Tools for Research”, organized by Teaching Learning Centre, Ramanuj College, University of Delhi, Delhi, from 8th June to 14th June, 2020.
8. Attended online Short Term Course on “Nanoscience for Engineering Applications”, jointly organized by National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh and Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, from 22nd June to 26th June, 2020.
9. Attended One Week Online Short Term Course on “Sub-Micrometer Semiconductor Device to Circuit Co-Design and Modeling Techniques”, organized by Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, from 20th August to 24th August, 2020.
10. Invited talk and demonstration in “Skill Development Program on Sophisticated Research Instruments” under the scheme of Synergistic Training Program Utilizing the Scientific and Technological Infrastructure (STUTI) supported by Department of Science and Technology, Government of India, organized by Department of Chemistry, H.N.B. Garhwal University, Srinagar Garhwal in association with Banasthali Vidyapith, Rajasthan, from 12th May to 18th May, 2023.

Conferences/Symposiums/Workshops Organized

1. Organized the ‘**World IPR day**’, jointly with UCOST, Dehradun at USIC, H.N.B. Garhwal University, Srinagar (Garhwal), on 26th April, 2014.

Peer-Reviewed Publications

Journals:

1. Don Biswas, Gambheer Singh Kathait, **Prashant Thapliyal**, Vishal Rohilla & Surendra Singh, Temperature dependence of dielectric properties of sodium potassium niobate ceramics for different values of x ($\text{Na}_{1-x}\text{K}_x\text{NbO}_3$), **Ferroelectrics**, Vol. **526**, pp. 168–175, 2018.
2. Don Biswas, Gambheer Singh Kathait, **Prashant Thapliyal**, Vishal Rohilla, Surendra Singh & Jyotsana Negi, Converse piezoelectric properties of K and Na-modified ($\text{Na}_{1-x}\text{K}_x$) NbO_3 lead free ceramics for x=0.08 and 0.17, **Ferroelectrics**, Vol. **550**, pp. 228–232, 2019.
3. Gambheer Singh Kathait, **Prashant Thapliyal**, Don Biswas, Vishal Rohilla & Surendra Singh, Influence of escaping of Na & K on physical properties in lead-free $\text{Na}_{0.92}\text{K}_{0.08}\text{NbO}_3$ ceramic, **Ferroelectrics**, Vol. **551**, pp. 40–46, 2019.
4. Gambheer Singh Kathait, N. S. Panwar, **Prashant Thapliyal**, Don Biswas, Vishal Rohilla, Surendra Singh, Sintering Effect on Electrical Properties and Morphology of Lead-Free $\text{Na}_{0.92}\text{K}_{0.08}\text{NbO}_3$ Ceramics, **Science of Sintering**, Vol. **51**, pp. 421–428, 2019.

5. **Prashant Thapliyal**, Alok S. Kandari, Vijendra Lingwal, N. S. Panwar, and G. Mohan Rao, Annealing temperature-dependent structural and electrical properties of $(\text{Ta}_2\text{O}_5)_{1-x}-(\text{TiO}_2)_x$ thin films, $x \leq 0.11$, **Ceramics International**, Vol. **47**, pp. 12066–12071, 2021.
6. **Prashant Thapliyal**, N. S. Panwar, and G. Mohan Rao, Influence of post-deposition annealing on electrical and optical properties of $(\text{Ta}_2\text{O}_5)_{1-x}-(\text{TiO}_2)_x$ thin films, $x \leq 0.08$, **Ceramics International**, Vol. **47**, pp. 16746–16751, 2021.
7. **Prashant Thapliyal**, N. S. Panwar, and G. Mohan Rao, Electrical and optical properties of $(\text{Ta}_2\text{O}_5)_{1-x}-(\text{TiO}_2)_x$ films, $x = 0.035$, prepared by sputtering of ceramic and mosaic (Ta, Ti) metal targets, **Journal of Applied Physics**, Vol. **130**, pp. 035304–035304-13, 2021.
8. Jaspal Singh Chauhan, Deepti Semwal, Mamta Nainwal, Neha Badola, **Prashant Thapliyal**, Investigation of microplastic pollution in river Alaknanda stretch of Uttarakhand, **Environment, Development and Sustainability**, Vol. **23**, pp. 16819–16833, 2021.
9. **Prashant Thapliyal**, N. S. Panwar, and G. Mohan Rao, Optical properties and current conduction in annealed $(\text{Ta}_2\text{O}_5)_{0.94}-(\text{TiO}_2)_{0.06}$ thin films, **Superlattices and Microstructures**, Vol. **158**, pp. 107008–107008-9, 2021.
10. Don Biswas, **Prashant Thapliyal**, Prolay Sharma, and N. S. Panwar, Annealing Temperature-Dependent Structural, Optical, and Electrical Properties of $[(\text{Ba}_{1-z}\text{Ca}_z)(\text{Zr}_{0.1}\text{Ti}_{0.9})\text{O}_3]$, ($z = 0.155$), Films, **ECS Journal of Solid State Science and Technology**, Vol. **12**, pp. 023011–023011-8, 2023.
11. Surendra Singh, Don Biswas, A.S. Bahuguna, **Prashant Thapliyal**, Vishal Rohilla, G.S. Kathait, N.S. Panwar & Prolay Sharma, Composition-Dependent Dielectric and Piezoelectric Properties of $\text{Na}_{1-z}\text{K}_z\text{NbO}_3$ Ceramics, **Indian Journal of Pure & Applied Physics**, Vol. **61**, pp. 335-342, 2023.
12. Don Biswas, Surendra Singh, **Prashant Thapliyal**, Vishal Rohilla, G.S. Kathait, A.S. Bahuguna, Prolay Sharma, and N.S. Panwar, Impedance Spectroscopy and AC Conductivity Analysis of $(\text{Ba}_{1-k}\text{Ca}_k)(\text{Zr}_{0.1}\text{Ti}_{0.9})\text{O}_3$, ($0.140 \leq k \leq 0.160$), Ceramics, **ECS Advances**, Vol. **2**, pp. 042001-042001-9, 2023.
13. Surendra Singh, Don Biswas, **Prashant Thapliyal**, Vishal Rohilla, G.S. Kathait, N.S. Panwar, Dielectric and structural properties of double-sintered $(\text{Na}_{1-x}\text{K}_x)\text{NbO}_3$, ($0.460 \leq x \leq 0.485$) ceramics, **Ceramics International**, Vol. **50**, pp. 7930-7935, 2024.

In the Proceedings of Conferences:

1. **Prashant Thapliyal**, Alok S. Kandari, Vijendra Lingwal, N. S. Panwar, and G. Mohan Rao, Post Deposition Annealing Dependent Structural and C–V Characteristics of $(\text{Ta}_2\text{O}_5)_{0.965}-(\text{TiO}_2)_{0.035}$ Thin Films, in International Conference on “Advances in Materials Processing & Manufacturing Applications”, *Materials Today: Proceedings*, 44 (2021) 3946–3950.

Book/Chapter in Edited Book:

1. **Prashant Thapliyal**, Alok S. Kandari, Vijendra Lingwal, N. S. Panwar, and G. Mohan Rao, Annealing Temperature Dependent Optical Properties of $(\text{Ta}_2\text{O}_5)_{0.965}-(\text{TiO}_2)_{0.035}$ Thin Films”, *Algorithms for Intelligent Systems: Proceedings of Integrated Intelligence Enable Networks & Computing*, Springer, 2021.