


Curriculum Vitae

Full Name	Don Biswas		
Designation	Assistant Professor		
Department	University Science Instrumentation Centre		
Campus	Srinagar, HNB Garhwal University		
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Education Qualification	B. Tech. (2008), Kalyani University (Electronics & Instrumentation Engg.) M.Tech.(2010), Calcutta University (Instrumentation & Control Engg.) Ph. D. pursuing from Jadavpur University		
Teaching Experience	10 Years	Research Experience	3 Years
Areas of Interest/ Specialization			
<ol style="list-style-type: none"> 1. Perovskite type crystals. 2. BCZT and NKN ceramics. 3. Characterization of materials. 			
Subject Knowledge			
<ol style="list-style-type: none"> 1. Electrical Measurements and Instruments. 2. Power Electronics. 3. Signals and Systems. 4. Industrial Drives. 5. Basic Electrical Engineering 			
Instrument knowledge			
<ol style="list-style-type: none"> 1. DC sputtering system, RF sputtering system. 2. SEM (Scanning Electron Microscopy). 3. ICPMS. 4. LCR Meter. 5. XRD (X-ray diffraction). 6. P- E loop tracer. 			
Award/Honours			
<ol style="list-style-type: none"> 1. Gate Scholarship (2008-2010). 2. Young scientist award (2021) from VDGGOOD society. 			
Administrative Experience			
<ol style="list-style-type: none"> 1. Member of Departmental Purchase Committee. 2. Member of the B. Tech. Admission Committee, H.N.B. Garhwal University, Srinagar (Garhwal). 3. Member of the B. Tech. JOSSA Admission Committee, H.N.B. Garhwal University, Srinagar (Garhwal). 4. Member of the B. Ed. Admission Committee, H.N.B. Garhwal University, Srinagar (Garhwal), from jan 2018- july 2018. 5. Member of the P.G. Admission Committee, H.N.B. Garhwal University, Srinagar (Garhwal), from jan 2019- july 2020. 6. Member of the Ph. D. Admission Committee, H.N.B. Garhwal University, Srinagar (Garhwal), from july 2019- july 2020. 7. Member of the board of studies (BoS) (meeting held on 26-02-2019), Instrumentation Engg. – USIC, H.N.B. Garhwal University, Srinagar (Garhwal). 8. Member of the B. Tech. examination Committee, H.N.B. Garhwal University, Srinagar 			

(Garhwal).

Conference/Symposium/Workshop/Invited lecture Attended/Delivered during last eight years (2012-2020)

1. Attended short term course on “PCB Layout, Fabrication and Testing” from 14-01-2013 to 18-01-2013, organized by NITTTTR Chandigarh, India.
2. Attended Conference on “Recent Advances in Material Science (NCRAMS-13)”, organized by Dept. of Physics, H.N.B. Garhwal University, Srinagar (Garhwal), 26-27 October, 2013.
3. Attended Orientation Course organized by Academic Staff College, Jadavpur University, Kolkata, 04 Aug. - 01 Sept., 2014.
4. Attended a Workshop on NMEICT Awareness “Recent Trends in Education System”, organized by National Institute of Technology, Uttarakhand, on 29-30 November, 2014.
5. Attended Refresher Course on “Disaster Management” organized by UGC-HRDC, Kamaun University, Nainital (Uttarakhand) from 02 – 23 Dec, 2016.
6. Attended two day training program on “Ethics & Values in Public Governance”, organized by Academic Activity Centre, HNBSGU, Uttarakhand, 28-29 May, 2017.
7. Attended one month Induction training Program organized by FDC, HNBSGU, Uttarakhand, 01-30 June, 2018.
8. Presented a Invited talk on the topic ferroelectrics in “International Conference on Aerosol, Air Quality and Climate Change”, organized by Dept. of Physics, H.N.B. Garhwal University, Srinagar (Garhwal), 21-23 October, 2018.
9. Attended a Short term training Program on Data Analysis Awareness “Computational Techniques in Research Methodology for Science and Social Sciences”, organized by FDC, HNBSGU, Uttarakhand, 25-31 July, 2019.
10. Attended a short term training program on “Dimensions of Qualitative Research”, organized by FDC, HNBSGU, Uttarakhand, 21-27 Aug., 2019.
11. Attended a short term training program on “Nanotechnology for electronic and photonic devices (Nanodev 2020)” organized by Punjab Engg. College, Chandigarh, during 15th june, 2020- 19th june, 2020.
12. Attended online lecture series on “Academic Leadership in Higher education during and after Covid- 19 pandemic” organized by HNB Garhwal university, Srinagar Garhwal, during 22th june, 2020- 26th june, 2020.
13. Attended a short term training program on “Pedagogical Training for Teachers on Tools for Online Teaching Learning and Evaluation” organized by Swami Ramanand Teerth Marathwada University, Nanded, during 1st july 2020- 6th july, 2020.
14. Attended a short term course on “Sub-micrometer Semiconductor Device to Circuit Co-Design and Modeling Techniques” organized by NIT Jhalandar, Punjab, during 20th Aug., 2020- 24th Aug., 2020.

In the Proceedings of Conferences/ Seminars

1. K. Kumar, A. Bahuguna, **D. Biswas**, Four band slotted microstrip antenna, State level conference on Imagineering, Tula’s Institute, Dehradun, Uttarakhand, 25th October, 2018.
2. **D. Biswas**, P. Sharma, N. S. Panwar, Piezoelectric properties of lead free $Ba_{1-x}Ca_xZr_{0.1}Ti_{0.9}O_3$ ($x = 0.150$) ceramics with different sintering temperature, International conference on Material Science and Applications (ICMSAA-2019), Physics Department, H. N. B. Garhwal University, Uttarakhand, 25-27 Nov, 2019.
3. V. Rohilla, **D. Biswas**, P. Thapliyal, G. S. Kathait, Recent Trends in Solar Energy Conversion Techniques, National Conference on “Recent Advancements in Natural Products Chemistry and Nanotechnology”(RANPCN-2019), Department of chemistry, H. N. B. Garhwal University, 9-10, September 2019.
4. V. Rohilla, **D. Biswas**, P. Thapliyal, G. S. Kathait, S. Singh, Estimation of some essential, non essential toxic and toxic elements in some Indian Black Tea sold in market by ICP-MS and their risk assessment, International Conference on Material Science and Applications (ICMSAA-19), Department of Physics, H. N. B. Garhwal University, 25-27, November, 2019.
5. **D. Biswas**, P. Sharma, N. S. Panwar, Electrical and optical properties of lead free $Ba_{1-x}Ca_xZr_{0.1}Ti_{0.9}O_3$ ($x = 0.150$) ceramics, international-conference-on-innovative-research-in-applied-science-engineering, RIT, Roorkee, 20-21, Feb., 2021.

Conference/Symposium/Workshop Organized during last eight years (2012-2020)

1. Organized the 'World IPR day', jointly with UCOST, Dehradun at USIC Department, HNB Garhwal University, Srinagar (Garhwal), April 26, 2014.

SCI Indexed Publications

1. **D. Biswas**, G. S. Kathait, P. Thapliyal, V. Rohilla & S. 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. (IF- 0.699) (SCI Indexed)
2. T. Singh, B. Gangil, A. Patnaik, **D. Biswas**, G. Fekete "Agriculture waste reinforced corn starch based biocomposites: Effect of rice husk/walnut shell on physicochemical, biodegradable and thermal properties", *Materials Research Express*, Vol. **06** (04), pp. 1-23, 2019. (IF- 1.92) (SCI Indexed)
3. **D. Biswas**, G. S. Kathait, P. Thapliyal, V. Rohilla, S. Singh & J. 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. (IF- 0.699) (SCI Indexed)
4. **D. Biswas et al** "Microcontroller based data acquisition system using error reduction technique", *International Journal of Engineering, Science and Technology*, Vol. **11**, No. 3, pp. 40-48, 2019. (IF- 0.50) (UGC Listed)
5. G. S. Kathait, **D. Biswas**, P. Thapliyal, V. Rohilla & S. 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. (IF- 0.699) (SCI Indexed)
6. T. Singh, B. Gangil, B. Singh, S. K. Verma, **D. Biswas**, G. Fekete "Natural-synthetic fiber reinforced homogeneous and functionally graded vinylester composites: Effect of bagasse-Kevlar hybridization on wear behavior", *J. Mater Res Technology*, Vol. **8**, No. 6, pp. 5961- 5971, 2019. (IF- 5.32) (SCI Indexed)
7. G. S. Kathait, N. S. Panwar, **D. Biswas**, P. Thapliyal, V. Rohilla & S. 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**, 2019. (IF- 1.12) (SCI Indexed)
8. V. Rohilla, G. S. Kathait, **D. Biswas**, P. Thapliyal, & B. Rohilla "Estimation of Heavy Metals in some Indian Black Tea Leaves by Inductively Coupled Plasma Mass Spectrometer (ICPMS) and associated Health Risks", *Indian Journal of Agricultural Research*, Vol. **A-5429**, pp. 1-6, 2020. (IF- 0.35) (SCI Indexed)
9. **D. Biswas**, N. S. Panwar, P. Sharma "Converse piezoelectric properties of lead free $\text{Ba}_{1-x}\text{Ca}_x\text{Zr}_{0.1}\text{Ti}_{0.9}\text{O}_3$ ($x = 0.055$) ceramics using double sintered method", *Ferroelectrics*, Vol. **568:1**, pp. 95–103, 2020. (IF- 0.699) (SCI Indexed)
10. V. Rohilla, **D. Biswas**, P. Thapliyal, G. S. Kathait, S. Singh "Estimation of some essential, non essential toxic and toxic elements in some Indian black tea sold in market by 'ICP-MS' and their risk assessment", *Applied Innovative Research CSIR-NISCAIR*, Vol. **2**, pp. 226-230, 2020. (UGC Listed)
11. D. Das, **D. Biswas**, A. K. Hazarika, S. Sabhapondit, R. B. Roy, B. Tudu, R. Bandyopadhyay "CuO Nanoparticles Decorated MIP-based Electrode for Sensitive Determination of Gallic Acid in Green Tea", *IEEE Sensors Journal*, Vol. **21**, No. 5, pp. 5687 – 5694, 2021. (IF- 3.360) (SCI Indexed)
12. A. K. Gautam, R. S. Negi, S. Kumar, **D. Biswas** and S. Rawat "The Seasonal and Morphological Analysis of Airborne PM_{10} and $\text{PM}_{2.5}$ in Srinagar Garhwal (Himalaya Region)", India, *IJEP*, vol. **40 (11)**: 1154-1163 (2020). (UGC Listed)
13. **D. Biswas**, P. Sharma, N. S. Panwar "Dielectric properties of $\text{Na}_{1-x}\text{K}_x\text{NbO}_3$ (NKN) ($0.160 \leq x \leq 0.200$) ceramics synthesized by double sintered method", *Ferroelectrics*, Vol. **571**, pp. 214–229, 2021. (IF- 0.699) (SCI Indexed)
14. **D. Biswas**, P. Sharma, N. S. Panwar "Structural and electrical properties of lead free $\text{Na}_{1-x}\text{K}_x\text{NbO}_3$ ($0.160 \leq x \leq 0.200$) ceramics", *Ceramics International*, Vol. **47**, pp. 13814–13819, 2021. (IF- 4.570) (SCI Indexed)
15. **D. Biswas**, P. Sharma, N. S. Panwar "Composition dependent electrical properties of ($\text{Ba}_{1-x}\text{Ca}_x\text{Zr}_{0.1}\text{Ti}_{0.9}$) O_3 ceramics, near morphotropic phase boundary ($0.140 \leq x \leq 0.160$)", *ECS Journal of Solid State Science and Technology*, Vol. **10**, pp. 033002, 2021. (IF- 2.070) (SCI Indexed)
16. J. Negi, **D. Biswas**, N. S. Panwar "Piezoelectric Properties of Ta (≤ 5 (mole)%) Doped in $\text{Na}_{0.685}\text{K}_{0.315}\text{NbO}_3$ ", *IJPAP*, Vol. **59**, pp. 740–743, 2021. (IF- 0.923) (SCI Indexed)
17. **D. Biswas**, P. Sharma, N. S. Panwar "Effect of sintering on the piezoelectric

properties and microstructure of lead free ($\text{Ba}_{1-x}\text{Ca}_x\text{Zr}_{0.1}\text{Ti}_{0.9}\text{O}_3$) ($x = 0.065$) ceramics”, *Science of Sintering*, Vol. **52**, issue **2**, 2022. (IF- 1.175) (SCI Indexed)

Book Chapter

1. S. kumar, **D. Biswas**, B. Gangil “Asbestos free braking pads by using organic fiber based reinforced composites for automotive industries”, *Automotive Tribology*, Springer Nature Singapore Pte Ltd., Oct. 2019.
2. V. Rohilla, R. C. Rohilla, P. Thapliyal, **D. Biswas**, G. S. Kathait, “Photovoltaic Power System with Battery Backup and Grid-Connection to Reduce Grid Dependency During Peak Demand Hours and Power Cuts” *Techno-Societal*, Jun. 2021.