


## Curriculum Vitae

<b>Full Name</b>	Don Biswas			
<b>Designation</b>	Assistant Professor			
<b>Department</b>	University Science Instrumentation Centre			
<b>Campus</b>	Chauras, HNB Garhwal University			
<b>Telephone</b>	01370-267888			
<b>Mobile</b>	8477809490			
<b>Email</b>	<a href="mailto:donusic06@gmail.com">donusic06@gmail.com</a> <a href="mailto:d.biswas@hnbgu.ac.in">d.biswas@hnbgu.ac.in</a>			
<b>Education Qualification</b>	B. Tech. (2008), Kalyani University (Electronics & Instrumentation Engg.) M.Tech.(2010), Calcutta University (Instrumentation & Control Engg.) Ph. D. pursuing from Jadavpur University			
<b>Teaching Experience</b>	10 Years	<b>Research Experience</b>	3 Years	
<b>Areas of Interest/ Specialization</b>				
<ol style="list-style-type: none"> <li>1. Perovskite type crystals.</li> <li>2. BCZT and NKN ceramics.</li> <li>3. Electrical Measurements and Instruments.</li> <li>4. Power Electronics.</li> <li>5. Signals and Systems.</li> <li>6. Power Plant Engineering.</li> </ol>				
Practical knowledge: <ol style="list-style-type: none"> <li>1. DC sputtering system, RF sputtering system.</li> <li>2. SEM (Scanning Electron Microscopy).</li> <li>3. ICPMS.</li> <li>4. LCR Meter.</li> <li>5. XRD (X-ray diffraction).</li> <li>6. P- E loop tracer.</li> </ol>				
<b>Administrative Experience:</b>				
<ol style="list-style-type: none"> <li>1. Member of Departmental Purchase Committee.</li> <li>2. Member of the B. Tech. Admission Committee, H.N.B. Garhwal University, Srinagar (Garhwal).</li> <li>3. Member of the B. Tech. JOSSA Admission Committee, H.N.B. Garhwal University, Srinagar (Garhwal).</li> <li>4. Member of the B. Ed. Admission Committee, H.N.B. Garhwal University, Srinagar (Garhwal), from jan 2018- july 2018.</li> <li>5. Member of the P.G. Admission Committee, H.N.B. Garhwal University, Srinagar (Garhwal), from jan 2019- july 2020.</li> <li>6. Member of the Ph. D. Admission Committee, H.N.B. Garhwal University, Srinagar (Garhwal), from jan 2019- july 2020.</li> <li>7. Member of the board of studies (BoS) (meeting held on 26-02-2019), Instrumentation Engg. – USIC, H.N.B. Garhwal University, Srinagar (Garhwal).</li> </ol>				

**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 NITTTR 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, HNBGU, Uttarakhand, 28-29 May, 2017.
7. Attended one month Induction training Program organized by FDC, HNBGU, 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, HNBGU, Uttarakhand, 25-31 July, 2019.
10. Attended a short term training program on “Dimensions of Qualitative Research”, organized by FDC, HNBGU, 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 15<sup>th</sup> june, 2020- 19<sup>th</sup> 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 22<sup>th</sup> june, 2020- 26<sup>th</sup> 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 1<sup>st</sup> july 2020- 6<sup>th</sup> 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 20<sup>th</sup> Aug., 2020- 24<sup>th</sup> Aug., 2020.

**In the Proceedings of Conferences/ Seminars**

1. Four band slotted microstrip antenna, K. Kumar, A. Bahuguna, D. Biswas, State level conference on Imagineering, Tula’s Institute, Dehradun, Uttarakhand, 25<sup>th</sup> October, 2018.
2. Piezoelectric properties of lead free  $Ba_{1-x}Ca_xZr_{0.1}Ti_{0.9}O_3$  ( $x = 0.15$ ) ceramics with different sintering temperature, D. Biswas, P. Sharma and N. S. Panwar, International conference on Material Science and Applications (ICMSAA-2019), Physics Department, HNBGU, Uttarakhand, 25-27 Nov, 2019.

**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.

### Best Peer-Reviewed Publications 2012 onwards (up to 10) Journals:

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, Published by Taylor & Francis. (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 physicomechanical, biodegradable and thermal properties” *Materials Research Express*, Vol. **06** (04), pp. 1-23, 2019 Published by IOP Publishing Ltd. (SCI Indexed)
3. **D. Biswas**, G. S. Kathait, P. Thapliyal, V. Rohilla, S. Singh & J. Negi “Converse piezoelectric properties of K and Na-modified ( $\text{Na}_{1-x}\text{K}_x$ )  $\text{NbO}_3$  lead free ceramics for  $x=0.08$  and  $0.17$ ” *Ferroelectrics*, Vol. **550**, pp. 228–232, 2019, Published by Taylor & Francis. (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 published by AJOL Nijeria. (Scopus Indexed)
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, Published by Taylor & Francis. (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, Published by Elsevier. (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, Published by International Institute for the Science of Sintering. (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, Published by Agricultural Research Communication Centre (SCI Indexed)
9. **D. Biswas**, N. S. Panwar and 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, Published by Taylor & Francis. (SCI Indexed)
10. **D. Biswas**, P. Sharma and 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. **572**, accepted, 2020, Published by Taylor & Francis. (SCI Indexed)
11. D. Das, **D. Biswas**, A. Kr. Hazarika et al., "CuO Nanoparticles Decorated MIP-based Electrode for Sensitive Determination of Gallic Acid in Green Tea," in *IEEE Sensors Journal*, <http://dx.doi.org/10.1109/JSEN.2020.3036663> (IF- 3.076) (SCI Indexed)
12. A. K. Gautam, R. S. Negi, S. Kumar, **D. Biswas** and S. Rawat, The Seasonal and Morphological Analysis of Airborne  $\text{PM}_{10}$  and  $\text{PM}_{2.5}$  in Srinagar Garhwal (Himalaya Region), India, *IJEP* 40 (11): 1154-1163 (2020).

### 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.