

CV of DR. SANDIP BORDOLOI

Name: Dr. Sandip Bordoloi

Designation: Associate Professor and HoD (i/c)

Department of Electrical Engineering

Address for Communication: (office) : HoD Room, Room No R-106

Department of Electrical Engineering

Mobile No.: +91 9957430428

WA No: +91 9957430428

Email: hod_ee[at]gimt-guwahati.ac.in

Gender: Male

Date of Birth:

Educational Qualifications:

Sl. No.	Examination Passed	Year of passing	Board / Council / University	Specialization
1	HSLC/10 th Std.	2002	SEBA	-
2	HSSLC/10+2 Std.	2004	AHSEC	Science
3	Degree (B.E)	2008	Gauhati University	Instrumentation Engineering
4	Master's Degree M.Tech	2010	Tezpur University	Bioelectronics
5	Ph. D. (Please Specify)	2015	Assam Don Bosco University	Electrical and Electronics

Languages known: Assamese, English, Hindi

(Read, Write & Speak)

Academic/ Administrative Experience:

1. 12+ years of Teaching/ Research and Administrative Experience

2. 5+ years of Experience as HoD(i/c)
3. Coordinators and Members of different bodies at Institute level

List of Publications:

1. Development of a Multiple Sensor Based Instrumentation System for Degradation Measurement of Lubricating Oil. *Sandip Bordoloi and Rashmi Rekha Roy*; 2021 2nd International Conference for Emerging Technology (INCET); Belgaum, India. May 21-23, 2021;
DOI: 10.1109/INCET51464.2021.9456320
2. Simulation and Analysis of Green House Based Agri-Voltaic System Using Energy 3D Software
Sandip Bordoloi; *ADBU-Journal of Engineering Technology*;
Link: <https://journals.dbuniversity.ac.in/ojs/index.php/AJET/article/view/2542/pdf>
3. Mathematical Analysis of Dispersion with optical power of a Bare, Bent and Tapered Multimode Optical fibre sensor using 3 term Sellmeier equation; *S. Bordoloi*; 2020 International Conference on Computational Performance Evaluation (ComPE);
DOI-10.1109/ComPE49325.2020.9199991
4. Mathematical and Experimental analysis of degradation of lubricating oil in four stroke Motorbikes *S. Bordoloi*; *Journal of Automation and Automobile Engineering*
5. A Study on Effect of Temperature on Lubricating Oil Using Bare and Bent Optical Fibre Sensor: A Theoretical and Experimental Approach *Sandip Bordoloi and Shakuntala Laskar*
International Journal of Computer Sciences and Engineering
6. Development of an instrumentation system for measurement of degradation of lubricating oil using optical fiber sensor
Shakuntala Laskar and Sandip Bordoloi; *Optical Fiber Technology*
7. Application of Bare, Tapered and Bent Multimode Optical Fibre Refractometer for Measuring the Concentration of Glucose Solution; *Prerana Baruah and Sandip Bordoloi*; *AJET*
8. Microcontroller-based instrumentation system for measurement of refractive index of liquid using bare, tapered and bent fibre as sensor. *Shakuntala Laskar and Sandip Bordoloi*; *IET Optoelectronics*
9. Monitoring of Moisture in Transformer Oil Using Optical Fiber as Sensor.
Shakuntala Laskar and Sandip Bordoloi; *Journal of Photonics*

10. Transformer oil moisture monitoring instrumentation system using optical fibre sensor.
Sandip Bordoloi, Shakuntala Laskar and Durlav Hazarika; Indian Journal of Science and Technology
11. Direct electrochemistry of cytochrome P450 monooxygenase from *Aspergillus terreus* immobilized on MWCNT-NF/PEI modified glassy carbon electrode.
PreetyVatsyayan, Mitun Chakraborty, Sandip Bordoloi and Pranab Goswami; Electroanalytical Chemistry
12. Large catalase based bioelectrode for biosensor applications,
PreetyVatsyayan, Sandip Bordoloi and Pranab Goswami; Biophysical Chemistry
13. Fabrication Of Carbon Nanotube-Based Cholesterol Oxidase Bioelectrode For Biosensor And Biofuel Cell Application.;*Sandip Bordoloi, Madhuri Das and Pranab Goswami; ICANN 2009*

Research Experience:

- Doctoral thesis guided : 02 ongoing PhD students under ASTU
- Research & Consultancy Projects:

SI No.	Title & Discipline	Agency	Period
1	Development of optical fibre sensor to measure degradation and breakdown of non-polar hydrocarbon oil; Instrumentation	ASTEC	2018-2021
2	Smart water quality monitoring system with reference to DeeporBeel using IoT and Artificial Intelligence	TEQIP III	2019-21
3	Development of a Handheld Chlorophyll meter for determination of chlorophyll content index for agricultural purpose	TEQIP III	2019-21
4	Detection and classification of cancer cell	TEQIP III	2019-21

Membership of Professional bodies: ISTE, IAENG

Award, Fellowship & Recognition: NEC Scholarship holder for the year 2008-2009, 2009-2010

Date: 4-Jan-23



(Sandip Bordoloi)