

CV of **Bhabajit Baruah**

Name: **Bhabajit Baruah**

Designation: **Assistant Professor**

Address for Communication (office): **AICTE-IDEA Lab, 2nd Floor, Administrative Block,
GIMT-Guwahati, N/H-37, Hatkhawapara, Azara,
Guwahati-781017, Assam**

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Email: **bhabajit_me@gimt-guwahati.ac.in**

Sex: **Male**

Date of Birth: **06/05/1988**

Educational Qualifications:

Sl. No.	Examination Passed	Year of passing	Board / Council /University	Grades/ Divisions/ Rank	Specialization
1	HSLC/10 th Std.	2005	SEBA	1 st	N/A
2	HSSLC/10+2 Std.	2007	AHSEC	1 st	N/A
3	Degree (B.E)	2011	GAUHATI UNIVERSITY	1 st (Honors)	Mechanical Engineering
4	Master's Degree (M.E)	2013	GAUHATI UNIVERSITY	1 st (Honors)	Mechanical Engineering
5	Ph. D. (Please Specify)	Pursuing	ASSAM SCIENCE & TECHNOLOGY UNIVERSITY	N/A	Additive Manufacturing

Languages known (Read, Write & Speak):

Sl. No.	Language	Read	Write	Speak
1	English	√	√	√
2	Assamese	√	√	√
3	Hindi	√	√	√
4	Bengali	√	√	√

Academic/ Administrative Experience:

Institution	Designation	Date of joining	Date of resignation	Duration
<i>Girijananda Chowdhury Institute of Management and Technology, Guwahati</i>	<i>Assistant Professor</i>	<i>1st August, 2012</i>	-----	<i>Working till date</i>
<i>College Of Aeronautical Engineering, Borjhar</i>	<i>Lecturer</i>	<i>1st December, 2011</i>	<i>31st May, 2012</i>	<i>6 months</i>
<i>Assam Institute Of Technology, Guwahati</i>	<i>Lecturer</i>	<i>1st August, 2011</i>	<i>31st July, 2012</i>	<i>1 year</i>

List of Publications:

(i) Research Papers/Article/Conference proceedings published:

Sl. No.	Title with Page Nos.	Journal /Conference	ISSN/ ISBN No.	Whether peer reviewed, Impact Factor if any	No. of Co-author	Whether you are the main author	Whether listed by UGC, if yes, serial no.
<i>1.</i>	<i>“Design of Smart Gate for Roadside Residence” Proc. National Conference on Recent Science and Technology (NCRASST 2018)</i>	<i>Conference</i>	<i>ISBN 978-81-908910-9-7</i>	<i>Peer Reviewed</i>	<i>2</i>	<i>No</i>	<i>N/A</i>

(ii) Chapters published in the books:

Sl. No.	Title with Page Nos.	Book Title & Editor publisher (International Publisher/ National Publisher/ Other Local Publisher)	ISSN/ ISBN No.	Whether peer reviewed	No. of Co-author	Whether you are the main author
<i>1.</i>	<i>Title: Sustainable Development Goals in Context to BRICS Countries Page No.: 13-22</i>	<i>Book Title: Solar Energy Editors: Dr. Himanshu Tyagi, Dr. Prodyut R. Chakraborty, Dr. Satvasheel Powar, Prof. Avinash Kumar Agarwal Publisher: Springer, Singapore</i>	<i>Online ISBN 978-981-15-0675-8 Print ISBN 978-981-15-0674-1</i>	<i>Yes</i>	<i>1</i>	<i>Yes</i>

Research Experience:

(i) Ongoing/completed projects:

Sl. No.	Title & Discipline	Agency	Period	Type of Project Mini/Minor/ Major-(a), (b)	Grant/Amount Mobilized (in Rs.)
<i>1.</i>	<i>Title: Experimental And Numerical Simulations Of Vortices Arising Out Of High Velocity Wind Energy And Minimizing The Impact On The National Flag At Gandhi Mandap Hilltop And In Turn Trap The Wind Energy For Sustainable Development Discipline: Mechanical & Energy Engineering</i>	<i>MHRD (under TEQIP-III)</i>	<i>2019-2021</i>	<i>Major (CRS)</i>	<i>₹ 3,00,000/-</i>

- Tech Guru of AICTE-IDEA Lab, GIMT Guwahati.
- Research Experience on the field – 1 Year
- Grant of 1.1 Crore for the establishment of IDEA Lab has been received.

(ii) Invited lectures/Participation & presentation of Papers at International/National/State/University level Conference/Seminar etc.:

Sl. No.	Title of Invited Lecture/ Paper presented	Title of Conference/ Seminar etc. with date	Organised by	Whether International/ National/ State/ University level
1.	<i>Invited to deliver Lecture for Plenary Discussion on Energy as a New Development Horizon</i>	<i>Title: BRICS YEA Summit at Moscow, Russia Date: 3rd – 6th Oct 2018</i>	<i>BRICS Russia</i>	<i>International</i>
2.	<i>Design of Smart Gate for Roadside Residence</i>	<i>National Conference on Recent Science and Technology (NCRAS 2018)</i>	<i>Assam Science and Technology University, Assam</i>	<i>National</i>

Membership of Professional bodies: **ISTE**

Other Information:

Career Advancement:

- Designated as **Tech Guru of AICTE-IDEA Lab, GIMT-Guwahati** after Successfully Completing a 7-Day FDP on **Advance IDEA Lab FDP on Smart Manufacturing** organized by AKGEC, Ghaziabad under the banner of IDEA Lab from 1st – 7th December, 2021.

Interaction with the outside World:

- Lifetime Member of the **Indian Society for Technical Education (ISTE)**.
- Invited every year as **Expert** to review submissions received under the **INSPIRE MANAK scheme of Department of Science and Technology (DST), Government of India, being facilitated by National Innovation Foundation-India (NIF)**.
- Acted as **Observer** for various examinations of National importance such as UGC-NET, NEET, DUET, CUET, etc. conducted by **National Testing Agency (NTA)** every year.
- Invited as **External Examiners** in various Technical Colleges of Assam.

Acheivement:

- Invited as a Resource Person and Represented India for the **BRICS International Conference at Youth Energy Agency Summit in accordance with the Russian Energy Week Summit held in Moscow, Russia** in the year 2018.

Confidential Work:

- Assam Science & Technology University and Gauhati University had entrusted upon me the confidential related works such as *Paper Setter, Moderator, Tabulator, Examiner, Scrutinizer*, etc. work from time to time.

Trainings Imparted:

- Imparted 1-Day Hands-on-Training for the Event *Introduction to 3D Printing & 3D Scanning* at AICTE-IDEA Lab, GIMT-Guwahati on 21st December, 2022.
- Imparted 6-Day Hands-on-Training for the Event *Skilling Programme on Application of CAD in 3D Printing & 3D Scanning* at AICTE-IDEA Lab, GIMT-Guwahati from 19th – 24th December, 2022.
- Imparted 1-Day Hands-on-Training for the Event *Alumni Tour of IDEA Lab* at AICTE-IDEA Lab, GIMT-Guwahati on 10th December, 2022.
- Imparted 6-Day Hands-on-Training for the Event *Skilling Programme on Application of CAD in 3D Printing & 3D Scanning* at AICTE-IDEA Lab, GIMT-Guwahati from 28th November – 3rd December, 2022.
- Imparted 6-Day Hands-on-Training for the Event *Skilling Programme on Application of CAD in 3D Printing & 3D Scanning* at AICTE-IDEA Lab, GIMT-Guwahati from 21st – 26th November, 2022.
- Imparted 6-Day Hands-on-Training for the Event *Skilling Programme on Application of CAD in 3D Printing & 3D Scanning* at AICTE-IDEA Lab, GIMT-Guwahati from 14th – 19th November, 2022.
- Imparted 6-Day Hands-on-Training for the Event *Skilling Programme on Application of CAD in 3D Printing & 3D Scanning* at AICTE-IDEA Lab, GIMT-Guwahati from 7th – 12th November, 2022.
- Imparted 6-Day Hands-on-Training for the Event *Skilling Programme on Application of CAD in 3D Printing & 3D Scanning* at AICTE-IDEA Lab, GIMT-Guwahati from 31st October – 5th November, 2022.
- Imparted 6-Day Hands-on-Training for the Event *Skilling Programme on Application of CAD in 3D Printing & 3D Scanning* at AICTE-IDEA Lab, GIMT-Guwahati from 17th – 22nd October, 2022.
- Imparted 5-Day Hands-on-Training for the Event *Skilling Programme on Application of CAD in 3D Printing & 3D Scanning* at AICTE-IDEA Lab, GIMT-Guwahati from 11th – 15th October, 2022.
- Imparted 5-Day Hands-on-Training for the Event *Application of CAD in 3D Printing & 3D Scanning* at AICTE-IDEA Lab, GIMT-Guwahati from 20th – 24th September, 2022.

- Imparted 5-Day Hands-on-Training for the Event ***Fundamentals of CAD in 3D Printing & Reverse Engineering through 3D Scanning*** at AICTE-IDEA Lab, GIMT-Guwahati from 20th – 24th September, 2022.
- Imparted 1-Day Hands-on-Training for the Event ***Student Induction Program: Familiarization of 3D Printer*** at AICTE-IDEA Lab, GIMT-Guwahati on 16th September, 2022.
- Imparted 1-Day Hands-on-Training for the Event ***Student Induction Program: Familiarization of 3D Scanner*** at AICTE-IDEA Lab, GIMT-Guwahati on 14th September, 2022.
- Imparted 1-Day Hands-on-Training for the Event ***Student Induction Program: Familiarization of 3D Printer*** at AICTE-IDEA Lab, GIMT-Guwahati on 13th September, 2022.
- Imparted 1-Day Hands-on-Training for the Event ***Student Induction Program: Familiarization of 3D Scanner*** at AICTE-IDEA Lab, GIMT-Guwahati on 12th September, 2022.
- Imparted 1-Day Hands-on-Training for the Event ***Alumni Tour of IDEA Lab*** at AICTE-IDEA Lab, GIMT-Guwahati on 10th September, 2022.
- Imparted 12-Day Hands-on-Training for the Event ***Internship Program on PCB Fabrication, 3D Printing & 3D Scanning*** at AICTE-IDEA Lab, GIMT-Guwahati from 9th – 20th September, 2022.
- Imparted 1-Day Hands-on-Training for the Event ***Open Day for School Students: Familiarization of IDEA Lab*** at AICTE-IDEA Lab, GIMT-Guwahati on 5th September, 2022.
- Imparted 15-Day Hands-on-Training for the Event ***Internship Program on 3D Printing & Scanning*** at AICTE-IDEA Lab, GIMT-Guwahati from 30th August – 13th September, 2022.
- Imparted 5-Day Hands-on-Training for the Event ***Skilling Program on PCB Fabrication, 3D Printing and 3D Scanning*** at AICTE-IDEA Lab, GIMT-Guwahati from 22nd – 26th August, 2022.
- Imparted 2-Day Hands-on-Training for the Event ***Introduction to GIMT AICTE IDEA Lab*** at AICTE-IDEA Lab, GIMT-Guwahati from 24th – 25th June, 2022.

Workshops/Seminars Organized:

- Coordinated and organized the 5-Day Webinar series on Machine ***Learning for Engineering Applications*** at Girijananda Chowdhury Institute of Management & Technology, Azara, funded by ***TEQIP-III*** in the year 2020.
- Coordinator of the Webinar on ***Student Entrepreneurship*** organized by the Department of Mechanical Engineering, Girijananda Chowdhury Institute of Management & Technology, Azara, in the year 2020.
- **Hosted and organized Smart India Hackathon** at Girijananda Chowdhury Institute of Management & Technology, Azara, **supported by the Ministry of Tribal Affairs** in the year 2018.

- **Conducted *Swacchta Pakhwada* at Girijananda Chowdhury Institute of Management & Technology, Azara, in accordance with the *All India Council for Technical Education (AICTE)* in the year 2017.**
- **Hosted and organized *Smart India Hackathon* at Girijananda Chowdhury Institute of Management & Technology, Azara, supported by the *Ministry of North Eastern Region (DoNER)* in the year 2017.**
- **Coordinator of the Winter School on *Engineering Mechanics* organized by the Department of Mechanical Engineering, Girijananda Chowdhury Institute of Management & Technology, Azara, in the year 2016.**
- **Coordinator of the Winter School on *Engineering Mechanics* organized by the Department of Mechanical Engineering, Girijananda Chowdhury Institute of Management & Technology, Azara, in the year 2015.**
- **Organized a Seminar as the Programme Officer of Red Ribbon Club under Assam State AIDS Control Society on *Youth & Mental Health* on the occasion International Youth Day at Girijananda Chowdhury Institute of Management & Technology, Azara, in the year 2014.**

Workshops/FDP/Seminars Participated:

- Attended, Participated and Successfully Completed a 5-Day Online ATAL FDP on ***Design Thinking and Rapid Prototyping: An Entrepreneurship and Startup Approach*** organized by National Institute of Technology (NIT), Arunachal Pradesh from 22nd – 26th March, 2022.
- Attended, Participated and Successfully Completed a 5-Day Online ATAL FDP on ***Design Thinking and Product Development*** organized by National Institute of Technology (NIT), Arunachal Pradesh from 23rd – 27th August, 2021.
- Attended, Participated and Successfully Completed a 5-Day Online FDP on ***Inculcating Universal Human Values in Technical Education*** organized by All India Council for Technical Education (AICTE) from 26th – 30th July, 2021.
- Attended, Participated and Successfully Completed a 5-Day Online FDP on ***Inculcating Universal Human Values in Technical Education*** organized by All India Council for Technical Education (AICTE) from 12th – 16th July, 2021.
- Attended & Participated a Webinar on ***Recent Research Trends in Tribology*** organized by the Department of Mechanical Engineering, Girijananda Chowdhury Institute of Management & Technology, Azara.
- Attended & Participated a Webinar on ***Researches in Surface Engineering for Reliable Tribology*** organized by the Department of Mechanical Engineering, Girijananda Chowdhury Institute of Management & Technology, Azara.

- Attended & Participated a Webinar on ***3D Printing*** organized by the Department of Mechanical Engineering, Girijananda Chowdhury Institute of Management & Technology, Azara.
- Attended & Participated a Webinar on ***Role of Engineers in Corporate*** organized by the Department of Mechanical Engineering, Girijananda Chowdhury Institute of Management & Technology, Azara.
- Attended & Participated a Webinar on ***Entrepreneurship and its scope in the present Pandemic Situation*** organized by the Department of Mechanical Engineering, Girijananda Chowdhury Institute of Management & Technology, Azara.
- Attended & Participated a Webinar on ***Entrepreneurship and Business Development Opportunities*** organized by the Department of Mechanical Engineering, Girijananda Chowdhury Institute of Management & Technology, Azara.
- Attended & Participated a Webinar on ***Importance of Software Applications in Industries-Current an Future Scenario*** organized by the Department of Mechanical Engineering, Girijananda Chowdhury Institute of Management & Technology, Azara.
- Attended & Participated a Webinar on ***How to prepare for APSC/UPSC exam?*** organized by the Department of Mechanical Engineering, Girijananda Chowdhury Institute of Management & Technology, Azara.
- Attended & Participated a Webinar on ***Importance of GATE exam in the present competitive scenerio*** organized by the Department of Mechanical Engineering, Girijananda Chowdhury Institute of Management & Technology, Azara.
- Attended & Participated a FDP on ***Recent Trends in Green Energy Utilization*** organized by Assam Engineering College.
- Attended & Participated a FDP on ***Project Management*** organized by Assam Engineering College.
- Attended & Participated a FDP on ***Engaging Today's Learner.***
- Attended & Participated a FDP on ***ANSYS Structural & ANSYS Fluent*** organized by Assam Science and Technology University, Guwahati, under TEQIP-III.
- Attended & Participated a Workshop on ***Ecological Biodiversity*** organized at Assam State Zoo by Assam Science and Technology University, Guwahati.
- Attended & Participated a STC on ***How to write Thesis or Research Papers*** organized by NITTTR, Guwahati.
- Attended & Participated a STC on ***Design of Outcome Based Curriculum*** organized by NITTTR, Guwahati.
- Attended & Participated a National Seminar on ***Industry-Academia Collaboration: Bridging the Gap*** organized by Girijananda Chowdhury Institute of Management & Technology, Azara

- Attended & Participated a STC on *Matlab Application on Engineering* organized by NITTTR, Guwahati.
- Attended & Participated a FDP on *Advanced Gear Engineering* organized by Indian Institute of Technology, Guwahati, under TEQIP.
- Attended & Participated a FDP on *Meeting Global Challenges in Higher Technical Education* organized by Girijananda Chowdhury Institute of Management & Technology, Azara
- Attended & Participated a QIP STC on *Genetic Algorithms for Engineering Optimization* organized by Indian Institute of Technology, Guwahati.
- Attended & Participated a QIP STC on *Micro-manufacturing* organized by Indian Institute of Technology, Guwahati.
- Attended & Participated a STC on *Introduction to Numerical, Computational & Experimental Mechanics* organized by Assam Engineering College, Guwahati, under NEQIP.
- Attended & Participated Two-week ISTE Workshop on *Fluid Mechanics* organized by Institute of Technology, Kharagpur.
- Attended & Participated a QIP STC on *Application of Laser in Manufacturing* organized by Indian Institute of Technology, Guwahati.

Projects Undergone:

- Undergone Research Project on *Physical Simulation of Tornado like Vortex using Double Fan Model* for the award of the degree of Masters of Engineering.
- Undergone Research Project on *Design and Fabrication of a Modified System for Drying and Cooking of Silk Cocoons* for the award of the degree of Bachelor of Engineering.

Laboratories Developed:

- Successfully developed four Laboratories of Department of Mechanical Engineering, GIMT, viz., **Internal Combustion Engines, Material Testing, Metrology and Hydraulic Machinery Laboratory** and upgrade various other laboratories with modern equipments and instruments. Responsibilities in the development and upgradation includes preparing and finalizing the quotations, sorting the vendors, visit their site for authenticity, approve them, finalize the terms and conditions, make payments in accordance to the agreement, visit their site for pre-inspection before delivery, receive the consignment, inspect the installation and proper demonstration. Apart from Departmental Laboratories, I was also responsible for the procurement of equipments of other laboratories of Civil, Electrical and Applied Electronics & Instrumentation Departments respectively.
- Successfully developed and established the *AICTE-IDEA Lab at GIMT-Guwahati* for the Project cost amounting Rupees 1.1 Crore.

Projects Guided:

- Guided B.Tech Project on *Analyze the effect of variation on inner surface roughness for the fluid flow along the length for pipe of varying materials* for a group of the final year students of 2018-2022.
- Guided B.Tech Project on *Numerical Simulation of the impact of wind velocity on the national flag of Gandhi Mandap Hilltop* for a group of the final year students of 2017-2021.
- Guided B.Tech Project on *Numerical Simulation of the impact of wind velocity on the national flag of Gandhi Mandap Hilltop* for a group of the final year students of 2016-2020.
- Guided B.Tech Project on *Effect of various parameters on different materials for determining surface roughness through shaping operation* for a group of the final year students of 2015-2019.
- Guided B.E Project on *Design, Fabrication & Analysis of Power obtained in a Gearless Transmission System* for a group of the final year students of 2014-2018.
- Guided B.E Project on *Design, Fabrication & Testing of a Pelton Wheel for Generation of Electricity* for a group of the final year students of 2013-2017.
- Guided B.E Project on *Design & Fabrication of Whirling of Shaft* for a group of the final year students of 2013-2017.
- Guided B.E Project on *Design, Fabrication & Analysis of a Test Rig to determine Slip of Belt Drive* for a group of the final year students of 2012-2016.
- Guided B.E Project on *Design, Fabrication & Analysis of Shell & Tube Counter Flow Heat Exchanger* for a group of the final year students of 2011-2015.
- Guided B.E Project on *Design, Fabrication & Analysis of Wind Mill Water Pump* for a group of the final year students of 2010-2014.
- Guided B.E Project on *Design, Fabrication & Analysis of Pedal Powered Saw* for a group of the final year students of 2009-2013.



Scanned Signature

Name: **Bhabajit Baruah**

Date: **05/01/2023**