

# Curriculum Vitae

## DR. MANASH BHUYAN

**Current/Corresponding Address:**

Manash Bhuyan  
C/O, Kanti Das,  
Deauripara (part-II), Azara.  
P.O- Azara, Dist.- Kamrup,  
Assam.  
Pin- 781017

**Permanent Address:**

Manash Bhuyan  
S/O, Jatin Chandra Bhuyan  
Vill- Bir Chilarai Path, Tilapara  
P.O & Dist: Goalpara. Pin: 783101.  
Assam.  
Contact No : +91-8876202818  
e-mail ID : manash800@gmail.com

### OBJECTIVE

- Intend to build a career in a high-tech environment with committed and dedicated people.
- Willing to work in challenging, research oriented and creative environment where I can make significant value addition as a key player.
- To generate experimental and design processes / techniques in the field of management, materials science, manufacturing science and non-traditional optimization to develop, create and apply advanced systems that contribute to modern industrial and production systems.

### PERSONAL DETAILS

**Father's Name** : Mr. Jatin Chandra Bhuyan  
**Mother's Name** : Mrs. Runa Barua  
**Date of Birth** : 30<sup>th</sup> November, 1987  
**Sex** : Male  
**Nationality** : Indian  
**Category** : OBC  
**Religion** : Hinduism  
**Language Known** : Assamese, English, Hindi and Bengali.  
**Pan Card no.** : ASSPB9087G  
**SBI Bank Account no.** : 30401245080 , SBI Assam Engineering College Branch.  
**Contact No** : +91-8876202818  
**e-mail ID** : manash800@gmail.com, manash.ip@aec.ac.in

## ACADEMIC DETAILS

Level	Name of the School/ College/Department / Institution	Board/ Council/ University	Year of Passing / Completion	Percentage obtained (%)	Division/ Class	Remarks
Class X	P.R.Govt.H.S.& M.P School, Goalpara	SEBA	2003	77.50	I	-
Class XII	Goalpara College, Goalpara	AHSEC	2005	62	I	-
B.E	Department of Industrial & Production Engineering, Assam Engineering College	Gauhati University	2010	72.63	I	<b>Secured First class Second Position</b>
M.E	Department of Mechanical Engineering, Jorhat Engineering College <b>[Specialization in Industrial &amp; Production Engineering]</b>	Dibrugarh University	2014	81.70	I	<b>Secured First class Second Position</b>
PhD	Department of Mechanical Engineering, Assam Engineering College <b>[Area of Research: Aluminium Alloy Development under Manufacturing and Materials Science]</b>	Gauhati University	2023	-	-	-

### Software Skills (Programming languages / Operating Systems / Application Packages, etc.)

C-language, AutoCAD, CAD/CAM, System Dynamics software – ( STELLA 10.0.2, VENSIM), Statistical software – (JMP 7)
MS Office - Word, Excel, Power Point, Photoshop, Operating Systems (Windows 98, Windows XP, Windows Vista, Linux), MS- Project, Diploma in Computer Application & Maintenance.

## RESEARCH AREA / INTEREST AND TECHNICAL EXPOSURE

Industrial Engineering	Production Engineering
<ul style="list-style-type: none"> <li>Non-traditional Optimization processes such as Ant Colony Optimization, Genetic Algorithm, Particle Swarm Optimization and Artificial Neural Networking.</li> <li>Supply Chain Management.</li> <li>Decision Technology.</li> <li>System Reliability.</li> <li>Quality Engineering.</li> <li>Operation Research.</li> <li>Industrial Engineering and Management.</li> <li>Project Management.</li> <li>Material Management.</li> <li>Marketing Management.</li> <li>System Dynamics and Modeling.</li> </ul>	<ul style="list-style-type: none"> <li>Steels and Aluminium Alloys.</li> <li>Advanced Materials and Manufacturing Science.</li> <li>Micro-alloying.</li> <li>Casting processes and techniques.</li> <li>Welding processes and techniques.</li> <li>Microstructural Evolution.</li> <li>Heat Treatments and Precipitation kinetics.</li> <li>Mechanical characterization and Material Testing.</li> <li>Wear study.</li> </ul>

## DETAILS OF TRAINING / PROJECTS / PHD

- **PhD** research carried out in Aluminium alloy development under Manufacturing and Materials Science. The PhD thesis was entitled as “**Processing and Characterization of 2XXX Series Aluminium Alloy Micro-Alloyed with Titanium**”.
- Undertaken **M.E main project** on “**Facility Location Selection, Analysis and Design of Layout for Establishing A Health Care Facility**” as M.E, 4<sup>th</sup> semester academic curriculum.
- Undertaken **M.E mini project** on “**Comparative Study of Location Selection Methods for Establishing Healthcare Facility**” as M.E, 3<sup>rd</sup> semester academic curriculum.
- Undertaken a project on **Computer Aided Multiple Criteria Decision Making Using Analytic Hierarchy Process** as B.E, 8<sup>th</sup> semester academic curriculum.
- Undertaken a project on **Multiple Criteria Decision Making under Multi Expert System: A case study for family car selection** as B.E, 7<sup>th</sup> semester academic curriculum.
- Undertaken mini project on “**Study of Management System in LPG bottling plant, Amingaon.**”
- Undertaken mini project on “**Implementation of Total Quality Management in Assam Engineering College Canteen.**”
- Undertaken mini project on “**Design of Ergonomic Blackboard for student’s comfort.**”
- Undertaken mini project on “**Biochemical Oxygen Demand (BOD) test of Assam Engineering College pond.**”
- One month **EDP (Entrepreneurship Development Programme)** training in Assam Engineering College organized by **MSME (Micro, Small & Medium Enterprise)** Govt. of India.
- In-Plant Training (of six weeks duration) at **Indian Oil Corporation, Guwahati Refinery** after 6<sup>th</sup> semester. (The training has done in the fields of **thermal Power plant and study of total productive maintenance.**)

### PUBLICATIONS: 26

(International Journal=6, National Journal=2, International/National Conference paper/Book Chapter=4+12+2)

### INTERNATIONAL JOURNALS [Total 6 publications]

- Bhuyan.,M., Borah., A, “Ageing Kinetics of Al-4.28Cu-1.60Mg Alloy Micro-Alloyed with Titanium”, Journal of Institution of Engineers (India): Series D, 2023, <https://doi.org/10.1007/s40033-023-00481-y> [SCImago Indexed].
- Bhuyan.,M., Borah., A, “Microstructure and Mechanical Properties Correlation of Al-4.28Cu-1.60Mg Alloy Micro-Alloyed with Titanium”, Journal of Materials Engineering and Performance, 2023, <https://doi.org/10.1007/s11665-023-07919-0> [SCIE Indexed].
- Bhuyan.,M., Borah., A, “Investigating the Effect of water Cooling on Hardness of 2XXX Series Al-Alloy Micro Alloyed with 0.02 and 0.04 wt% of Titanium”, Materials Today: Proceeding, 2021, Elsevier Publication, Vol. 43, Part 1, pp.689-693.
- Bhuyan.,M., Borah., A, “Microalloying Effects of various Metals on 2xxx series aluminium Alloys - A Review Paper”, International Journal of Materials Science, 2020; 1(1), pp. 49-58, **E-ISSN: 2707-823X P-ISSN: 2707-8221**.
- Bhuyan.,M., Baruah., Monoj, et.al. “*Computer Aided Analysis and Selection of Optimal Structural Diagram for 3 stage Gearbox of Lathe Headstock*”, International Journal of Soft Computing and Artificial Intelligence, Vol. 3, Issue-2, pp.45-50, 2015, IRAJ Publication.

- Bhuyan.,M., Deb.,S.K., et.al “*Multi Criteria Decision Making for Facility Location Selection: A Case Study for Establishing Healthcare Facility*”, International Journal of Manufacturing, Industrial and Management Engineering, Vol. 2, Number 1, pp.59-70, 2014, published by Delton Books.

#### **NATIONAL JOURNALS [Total 2 publications]**

- Bhuyan.,M., et.al., “A Typical Approach to Design and Analysis of Foldable Bicycle”, The IUP Journal of Mechanical Engineering, Vol. XI, Issue-01, pp. 7-27, Feb/2018, IUP Publication.
- Bhuyan.,M., “*Computer Aided Analysis and Design of Facility Layout Using Ant Colony Optimization*”, The IUP Journal of Computer Sciences, Vol. X, Issue-4, pp.28-40, 2016, IUP Publication. Accepted in **SSRN eLibrary, ELSEVIER** copyright 2018.

#### **INTERNATIONAL CONFERENCES [Total 4 publications]**

- Bhuyan.,M., et.al., “Design and Fabrication of A Flood Proof House to Overcome the Flood Hazards in Rural Areas of Assam, India”, proc. 3<sup>rd</sup> International Conference on Smart Villages and Rural Development, organized by the University of Melbourne, Australia and Assam Engineering College on December 7-8, 2020, pp.15-23.
- Bhuyan.,M., et.al., “Computer Aided Analysis to Select Optimal Rural Housing Technique for Rural Areas of Assam”, proc. 2<sup>nd</sup> International Conference on Smart Villages and Rural Development, organized by the University of Melbourne, Australia and Assam Engineering College on December 2-4, 2019, pp.97-104.
- Bhuyan.,M., et.al., “Computer Aided Design of a Multipurpose Wheelchair for Rural Areas of Assam”, proc. 1<sup>st</sup> International Conference on Smart Villages and Rural Development, organized by the University of Melbourne, Australia and Assam Engineering College on December 12-14, 2018, pp.108-114.
- Bhuyan.,M., et.al., “Computer Aided Analysis to evaluate Suitable Technique for Optimum Utilization of Renewal Energy”, proc. International Conference on renewal and Alternate Energy, organized by Assam Science and Technology University on December 4-6, 2018, pp.164-179.

#### **NATIONAL CONFERENCES [Total 12 publications]**

- Bhuyan.,M., et.al., “Pedal Powered Washing Machine”, 3rd National Conference on Recent Advances in Science and Technology, 2020, organized by Assam Science and Technology University on May 17-19, 2020, proc. in Press.
- Bhuyan.,M., et.al., “Design of Cold Rolling Machine”, 3rd National Conference on Recent Advances in Science and Technology, 2020, organized by Assam Science and Technology University on May 17-19, 2020, proc. in Press.
- Bhuyan.,M., et.al., “Design and Fabrication of a Pedal Powered Pounding Machine”, 3rd National Conference on Recent Advances in Science and Technology, 2020, organized by Assam Science and Technology University on May 17-19, 2020, proc. in Press.
- Bhuyan.,M., et.al., “Design and Fabrication of a Flood Proof House to Overcome the Flood Hazards in Assam, India”, in abstract booklet of National Conference for Students on Advances in Mechanical Engineering, organized by organized by Mechanical Engineering Deptt., Assam Engineering College, on 6<sup>th</sup>, March, 2020, pp.28-29.
- Bhuyan.,M., et.al., “Computer Aided Analysis to evaluate an Efficient Optimization Technique for getting Optimum Solution”, 6<sup>th</sup> National Conference on Energy Efficient Mechanical Systems Design and Manufacturing, organized by Mechanical Engineering Department, PSG College and

Technology, Coimbatore and Department of Mechanical Engineering, Assam Engineering College, Guwahati-13 , on 30<sup>th</sup> April, 2019, proc. in Press.

- Bhuyan.,M., et.al., “Computer Aided Analysis to evaluate a Suitable Lighting System for Optimum Consumption of Energy”, proc. Two Day National Conference on Emerging Trends in Energy and Electrical Systems, 2019, organized by Electrical Engineering Deptt., Assam Engineering College, on 29<sup>th</sup> -30<sup>th</sup>, March, 2019, pp.114-118.
- Bhuyan.,M., et.al., “*Renewable Energy Utilizations in India- Issues and Challenges*”, proc. of National Conference on Non Conventional Energy: Harvesting Technology and Its Challenges (NCEHTC-2017), jointly organized by Department of Chemical Engineering and Department of Mechanical Engineering, Assam Engineering College, Guwahati-13 on 17-18 Nov/2017, sponsored by AICTE under NEQIP.
- Bhuyan.,M. and Das.,K, “*Solar Energy and its Utilization in NER*”, proc. of One Day National Seminar on Solar Energy Utilization – Opportunities and Challenges in NER, organized by Assam Engineering College, Guwahati-13 on 4<sup>th</sup> April/2015, pp. 24-25.
- Bhuyan.,M., Deb.,S.K., et.al “*Computer Aided Analysis and Design of Facility Layout for Establishing Health Care Unit Using Ant Colony Optimization*” proc. of National Conference on Industrial Engineering and Technology Management, 2014 (NCIETM-2014) organized by National Institute of Industrial Engineering (NITIE), Mumbai in association with Indian Institution of Industrial Engineering (IIIE), Navi Mumbai and National Productivity Council (NPC), New Delhi, held in NITIE, Mumbai on 29<sup>th</sup> to 31<sup>st</sup> October, 2014, pp. 182-189 published by Excel India Publishers, New Delhi.
- Bhuyan.,M., Deb.,S.K., et.al “*Optimal Precision Measuring Instrument Selection Using Analytical Hierarchy Process*” proc. of National conference on Recent Trends in Manufacturing Science and Technology (RTMST-2013) held in NITTTR, Kolkata on 18<sup>th</sup> and 19<sup>th</sup> April, 2013 pp. 306-315.
- Bhuyan.,M., Deb.,S.K., et.al “ *Computer Aided Multi-Criteria Decision Making Using Analytical Hierarchy Process*” proc. of National Conference on Emerging Trends and Applications in Computer Science (NCETACS) held in St. Anthony’s College Shillong, Meghalaya on 9<sup>th</sup> and 10<sup>th</sup> April, 2010 pp 05-09.
- Bhuyan.,M., Deb.,S.K., et.al “*Multi-criteria decision making for family car Selection under multiple expert system*” proc. of National conference on Recent Advances in Manufacturing Technology and Management (RAMTM) held in Jadavpur University, Kolkata on 19<sup>th</sup> and 20<sup>th</sup> February, 2010 pp 339-344.

### **BOOK CHAPTERS [Total 2 publications]**

- Bhuyan.,M., et.al., “A Study on the Effect of Micro-alloying of Titanium in 2XXX Al-alloy”, Advances in Mechanical Engineering- Lecture Notes in Mechanical Engineering, Springer Nature, Singapore, pp.385-396, 2020, [https://doi.org/10.1007/978-981-15-0124-1\\_34](https://doi.org/10.1007/978-981-15-0124-1_34).
- Bhuyan.,M., et.al., “Investigating the Effect of Furnace Cooling on Hardness of 2XXX Series Al-Alloy Micro Alloyed with 0.04 wt% of Titanium”, 2<sup>nd</sup> National Conference on Recent Advances in Science and Technology, 2019, organized by Assam Science and Technology University on May 15-17, 2019, Advances in Science and Technology, Vol.2, pp. 156-160, McGraw Hill Publication, published in 2020.

## EXPERIENCES:

**Teaching Experience: 13 years 5 months**

**Industry Experience: 4 years 6 months**

**Research Experience: 6 years**

### Professional Experience

- At present, I am working as an **Assistant Professor [Regular through APSC]** in **Industrial & Production Engineering Department, Assam Engineering College, Jalukbari, Guwahati-13** from **26<sup>th</sup> July/2024 till date.**
- I worked as an **Assistant Professor [on contractual basis]** in **Industrial & Production Engineering Department, Assam Engineering College, Jalukbari, Guwahati-13** from **January/2014 to 25<sup>th</sup> July/2024..**
- I also worked as **Part time Lecturer** in **Mechanical Engineering Department, Jorhat Engineering College, Jorhat-07** from **August/2012 to May/2013.**
- I worked as a **Guest Faculty** in **Industrial & Production Engineering Department, Assam Engineering College, Jalukbari, Guwahati-13** from **August/2010 to July/2012.**

### Teaching & Thesis / Project Supervising Experience

Subjects taught in B.Tech level till now		Types of Thesis/ Projects / Internships supervised in B.Tech / M.Tech level	
Sl.No	Subjects	Sl.No	Projects / Internships
1	Manufacturing Processes	1	Internship I [Social]
2	Plant Layout & Material Handling	2	Internship II [Academic]
3	Ergonomics & Work Design	3	Internship III [Industry]
4	Supply Chain Management	4	B.Tech Project I
5	Industrial Engg. & Operations Research	5	B.Tech Project II
6	Computer Aided Design & Manufacturing	6	M.Tech Mini Project and Main Project
7	Production, Planning and Control	7	PhD Thesis Supervised
8	Material Management		
9	Engineering Graphics and Machine Drawing		
10	Project Planning and Appraisal		
11	Total Quality Management		
12	Industrial Marketing Management		
13	Materials Science		

### Industry Experience

- I worked as an **Inventory Supervisor** for **Saj Food Products Pvt. Limited** from **July/2010 to July/2012.**
- I worked as a **Stock Supervisor** for **Swaraj Beverages Pvt. Limited** from **May/2014 to September/2016.**

### Research Experience

- Carried out **research on Aluminum Alloy Development** since September, 2016 to June, 2022.
- Reviewer of Springer **Journal – Journal of Intelligent manufacturing** and **Journal of the Institution of Engineers (India): Series C.**

## ENGAGEMENTS IN DEPARTMENTAL ACTIVITIES / INSTITUTIONAL ACTIVITIES

### Departmental Activities

- **MIS Coordinator** of Mechanical Engineering Department, Assam Engineering College under TEQIP III.
- Actively associated with **NBA works for Mechanical Engineering Department**, Assam Engineering College.
- Serving as one of the **Super Administrators of the ERP system** implemented in Assam Engineering College from 2018.
- **Co-Principal Investigator in a TEQIP III funded CRS project** of one year duration under Assam Science and Technology University from September, 2019.
- Appointed as **NBA coordinator** for the Department of **Industrial & Production Engineering**.
- Appointed as member in **Departmental Research Committee** under **Department of Mechanical Engineering** in Assam Engineering College.
- Conduct **one week FDP as a course coordinator on Quality and Quality Control** organized by Department of Mechanical Engineering, Assam Engineering College held on 18<sup>th</sup> to 24<sup>th</sup> January/2024.

### Institutional Activities

- Appointed as member in **Academic Review Committee** to review course curriculum of B.Tech level in line with **NEP 2020** under Assam Science and Technology University (ASTU).
- Appointed as member in **Vetting Committee** to vet seven DPR on Legacy Waste Management of seven ULBs under **Municipal Administration, Government of Assam**.
- Appointed as member in **purchasing committee** in Assam Engineering College.
- Appointed as **Institute Nodal Officer** of Standard Club in Assam Engineering College under Bureau of Indian Standards, GOI.
- Appointed as coordinator in **Start-up activity, Institute's Innovation Council** in Assam Engineering College.
- Appointed as member in **Academic Cell** in Assam Engineering College.

## ENGAGEMENTS IN STATE LEVEL ACTIVITIES / NATIONAL LEVEL ACTIVITIES

### State Level Activities

- **Co-Principal Investigator in a TEQIP III funded CRS project** of one year duration under Assam Science and Technology University from September, 2019.
- Appointed as **academic expert** to upgrade the course curriculum of B.Tech and Diploma level in line with **NEP 2020** for the Department of **Industrial & Production Engineering** under Directorate of Technical Education, **Government of Assam**.

- Appointed as member in **Academic Review Committee** to review course curriculum of B.Tech level in line with **NEP 2020** under Assam Science and Technology University (ASTU).
- Appointed as member in **Vetting Committee** to vet seven DPR on Legacy Waste Management of seven ULBs under **Municipal Administration, Government of Assam**.

### National Level Activities

- Worked as a proctor in **CAT 2010, 2011** held in Assam Engineering College, Jalukbari, Guwahati-13.
- Appointed as member in **Project Monitoring Committee** for the project “**Building safe and affordable bamboo-based bio-composite boats**” under **NECTAR, DST, Government of India**.
- Appointed as **Assembly Level Master Trainer, EVM Commissioning Officer and Receiving Officer** by **District Election Commissioner, Kamrup Metropolitan** for **Lok Sabha Election 2024**.
- Appointed as **invigilator** in various state and national level exams such as **NEET, UGC-NET, TET, CTET, CEE, CAT, etc.**
- Contributing Ideas for the Vision towards realizing the vision of **Viksit Bharat by 2047**.

### ACHIEVEMENTS

- Junior Diploma PRT-III holder from **Modern Art Academy of Goalpara under Sarba Bharatiya Sangeet Sanskriti parishad, Kolkata in Art**.
- District level **Middle School Scholarship** holder.
- Active member of the Robotics Club of Assam Engineering College.
- Organizer of 1<sup>st</sup> all Assam Science Day held in Assam Engineering college.
- Participated in state level Mathelatics competition and Mathematics Olympiad.
- Reviewer of Springer **Journal – Journal of Intelligent manufacturing and Journal of the Institution of Engineers (India): Series C**.
- **MIS Coordinator** of Mechanical Engineering Department, Assam Engineering College under TEQIP III.
- Actively associated with **NBA works for Mechanical Engineering Department**, Assam Engineering College.
- Serving as one of the **Super Administrators of the ERP system** implemented in Assam Engineering College from 2018.
- **Co-Principal Investigator in a TEQIP III funded CRS project** of one year duration under Assam Science and Technology University from September, 2019.
- Serve as a **NBA trainer** and invited as **Resource person** in the **Technical Institutes/Colleges**.
- Appointed as **NBA coordinator** for the Department of **Industrial & Production Engineering**.
- Appointed as **academic expert** to upgrade the course curriculum of B.Tech and Diploma level in line with **NEP 2020** for the Department of **Industrial & Production Engineering** under Directorate of Technical Education, **Government of Assam**.



- Appointed as member in **Academic Review Committee** to review course curriculum of B.Tech level in line with **NEP 2020** under Assam Science and Technology University (ASTU).
- Appointed as member in **Project Monitoring Committee** for the project “Building safe and affordable bamboo-based bio-composite boats” under **NECTAR, DST, Government of India**.
- Appointed as member in **Vetting Committee** to vet seven DPR on Legacy Waste Management of seven ULBs under **Municipal Administration, Government of Assam**.
- Appointed as **Assembly Level Master Trainer, EVM Commissioning Officer and Receiving Officer** by **District Election Commissioner, Kamrup Metropolitan** for **Lok Sabha Election 2024**.
- Appointed as member in **purchasing committee** in **Assam Engineering College**.
- Appointed as **Institute Nodal Officer** of Standard Club in Assam Engineering College under Bureau of Indian Standards, GOI.
- Appointed as coordinator in **Start-up activity, Institute’s Innovation Council** in **Assam Engineering College**.
- Appointed as member in **Academic Cell** in **Assam Engineering College**.
- Appointed as member in **Departmental Research Committee** under **Department of Mechanical Engineering** in **Assam Engineering College**.
- Contributing Ideas for the Vision towards realizing the vision of **Viksit Bharat by 2047**.
- Conduct **one week FDP as a course coordinator** on **Quality and Quality Control** organized by Department of Mechanical Engineering, Assam Engineering College held on 18<sup>th</sup> to 24<sup>th</sup> January/2024.

#### PROJECTS / THESIS SUPERVISED AND ONGOING TILL NOW

- B.Tech project supervised: Total 26 no.s of project supervised.
- IGNOU BSc Minor project supervised: 1 (one)
- M.Tech project supervised: Total 3 no.s of project supervised.
- PhD supervised as Co-guide: Total 3 no.s [ongoing (Notification not released yet)].

#### SPONSORED RESEARCH PROJECT COMPLETED TILL NOW

- Sponsored research project completed: 1 (one) sponsored research project completed as **Co-Principal Investigator**.

Sl. No.	Title of the project	Nature of project	Funding agency	Project Duration (from & to)	Total grant (in Rupees)
1	Investigation of the Effect of Trace Addition of Titanium on 2xxx Series Aluminium Alloy	Collaborative Research Scheme under Assam Science and Technology University	TEQIP III	01/07/2019 to 31/12/2020	2,99,993.00

## SHORT TERM COURSE (STC) / FACULTY DEVELOPMENT PROGRAMME

### (FDP) / TRAINING ATTENDED TILL NOW

#### [TOTAL 20 ATTENDED TILL NOW]

- Completed FDP on **Recent Advances in Structural Engineering and Material Science** organized by Civil Engineering Department, Jorhat Engineering College held on 25<sup>th</sup> June/2024 to 29<sup>th</sup> June/2024.
- Completed FDP on **Geo – Informatics in Disaster Management** organized by Civil Engineering Department, Jorhat Engineering College held on 18<sup>th</sup> June/2024 to 22<sup>nd</sup> June/2024.
- Completed FDP on **Entrepreneurship Development** organized by Assam Science and Technology University with financial assistance of North Eastern Council, Shillong and in association with Indian Institute of Entrepreneurship held on 28<sup>th</sup> February/2024 to 3<sup>rd</sup> March/2024.
- Completed FDP on **Safety and Risk Analysis** organized by Department of Chemical Engineering, Assam Engineering College held on 19<sup>th</sup> February/2024 to 23<sup>rd</sup> February/2024.
- Completed FDP on **Outcome Based Education** organized by Department of Electrical Engineering, Assam Engineering College held on 5<sup>th</sup> to 9<sup>th</sup> February/2024.
- Completed FDP on **Quality and Quality Control** organized by Department of Mechanical Engineering, Assam Engineering College held on 18<sup>th</sup> to 24<sup>th</sup> January/2024.
- Completed FDP on **Sustainable Environment: An Engineering Perspective** organized by Department of Civil Engineering, Assam Engineering College held on 8<sup>th</sup> to 13<sup>th</sup> January/2024.
- Completed FDP on **NEP 2020: Plan for Implementation** organized by NITTTR, Kolkata and Assam Engineering College held on 11<sup>th</sup> December/2023 to 15<sup>th</sup> December/2023.
- Completed training on **ECBC Rules & Compliance Procedure organized by** Assam State Designated Agency in association with Department of Mechanical Engineering, Assam Engineering College with the support of Bureau of Energy Efficiency, Ministry of Power, Govt. of India held on 16<sup>th</sup> to 17<sup>th</sup> December/2022.
- Completed FDP on **NBA Accreditation Processes** organized by Scholars Institute of Technology and Management held on 16<sup>th</sup> December/2023 to 17<sup>th</sup> December/2021.
- Completed STC on **Material Characterization and Tribology** organized by Assam Science and Technology University in association with Department of Mechanical Engineering, Assam Engineering College under TEQIP III held on 2<sup>nd</sup> to 6<sup>th</sup> March/2020.
- Completed FDP on **Recent Trends in Green Energy Utilization** organized by Department of Mechanical Engineering, Assam Engineering College under TEQIP III held on 10<sup>th</sup> to 14<sup>th</sup> February/2020.
- Completed FDP on **Project Management** organized by Department of Mechanical Engineering, Assam Engineering College under TEQIP III held on 3<sup>rd</sup> to 7<sup>th</sup> February/2020.
- Completed FDP on **Quality and Quality Engineering** organized by Department of Mechanical Engineering, Assam Engineering College under TEQIP III held on 3<sup>rd</sup> to 7<sup>th</sup> December/2019.

- Completed FDP on **3D Printing** organized by Department of Mechanical Engineering, Assam Engineering College under TEQIP III held on 25<sup>th</sup> to 29<sup>th</sup> November/2019.
- Completed FDP on **Recent Advancement in Welding and Allied Processes** organized by Department of Mechanical Engineering, Assam Engineering College in association with PSG College of Technology, Coimbatore under TEQIP III held on 13<sup>th</sup> to 24<sup>th</sup> August/2018.
- Completed STC on **Environmental Impact Assessment: A Tool for Sustainable Development** organized by Department of Chemical Engineering, Assam Engineering College sponsored by AICTE-NEQIP held on 9<sup>th</sup> to 13<sup>th</sup> February/2015.
- Completed STC on **Recent Trends in Power Engineering and Management** organized by Department of Electrical Engineering, Assam Engineering College sponsored by AICTE-NEQIP held on 19<sup>th</sup> to 23<sup>rd</sup> January/2015.
- Completed STC on **Advances in Welding and Joining Technologies** organized by Department of Mechanical Engineering, IIT, Guwahati and Knowledge Incubation Cell under the Technical Quality Improvement Programme sponsored by MHRD, Govt. of India under TEQIP held on 29<sup>th</sup> to 31<sup>st</sup> December/2014.
- Completed STC on **Introduction to Numerical, Computational and Experimental Mechanics** organized by Department of Mechanical Engineering, Assam Engineering College sponsored by AICTE-NEQIP held on 9<sup>th</sup> to 13<sup>th</sup> December/2014.

### CONFERENCES / WORKSHOP / SEMINAR ATTENDED TILL NOW [TOTAL 17 ATTENDED TILL NOW]

- Two Days Workshop on **ANSYS Solutions for Civil Engineering Applications** organized by Department of Civil Engineering, Assam Engineering College held on 15<sup>th</sup> & 16<sup>th</sup> Februry/2024.
- 3<sup>rd</sup> International Conference on **Smart Villages and Rural Development**, organized by the University of Melbourne, Australia and Assam Engineering College on December 7-8, 2020.
- 3<sup>rd</sup> National Conference on **Recent Advances in Science and Technology**, 2020, organized by Assam Science and Technology University on May 17-19, 2020.
- National Conference for Students on **Advances in Mechanical Engineering**, organized by organized by Mechanical Engineering Deptt., Assam Engineering College, on 6<sup>th</sup>, March, 2020.
- 2<sup>nd</sup> International Conference on **Smart Villages and Rural Development**, organized by the University of Melbourne, Australia and Assam Engineering College on December 2-4, 2019.
- 6<sup>th</sup> National Conference on **Energy Efficient Mechanical Systems Design and Manufacturing**, organized by Mechanical Engineering Department, PSG College and Technology, Coimbatore, on 30<sup>th</sup> April, 2019.
- Two Day National Conference on **Emerging Trends in Energy and Electrical Systems**, 2019, organized by Electrical Engineering Deptt., Assam Engineering College, on 29<sup>th</sup> -30<sup>th</sup>, March, 2019.
- 1<sup>st</sup> International Conference on **Smart Villages and Rural Development**, organized by the University of Melbourne, Australia and Assam Engineering College on December 12-14, 2018.

- International Conference on **Renewal and Alternate Energy**, organized by Assam Science and Technology University on December 4<sup>th</sup> – 6<sup>th</sup>, 2018.
- TEQIP III sponsored workshop on **Engineering Research: Patent & Non Patent Literature Search** organized by Assam Engineering College on 24<sup>th</sup> March/2018.
- TEQIP III sponsored one day seminar on **Environment, Air Pollution and Noise** organized by Department of Mechanical and Industrial & Production Engineering, Assam Engineering College on 23<sup>rd</sup> February/2018.
- Two Days workshop on **Sustainable Solid Waste Management Practices under FDP** conducted by AEC from 31 Aug/2017 to 01 Sept/2017, sponsored by AICTE under NEQIP.
- All India Seminar on **Recent Trends in Mechanical Engineering** organized under the aegis of Mechanical Engineering Division Board, IEI held on 21<sup>st</sup> to 22<sup>nd</sup> October, 2016 at The Institution of Engineers (India), Assam State Centre, Panbazar, Guwahati-1.
- **MSME-AEC MEET-2016 for enhancing Institute-Industry Interaction** organized by the Department of Mechanical Engineering, AEC, Guwahati-13 on 12<sup>th</sup> May/2016 sponsored by AICTE-NEQIP.
- National Conference on **Industrial Engineering and Technology Management**, 2014 (NCIETM-2014) organized by National Institute of Industrial Engineering (NITIE), Mumbai in association with Indian Institution of Industrial Engineering (IIIE), Navi Mumbai and National Productivity Council (NPC), New Delhi, held in NITIE, Mumbai on 29th to 31st October, 2014.
- National Conference on **Emerging Trends and Applications in Computer Science** (NCETACS) held in St. Anthony's College Shillong, Meghalaya on 9<sup>th</sup> and 10<sup>th</sup> April, 2010.
- Attended workshop on **Common Laboratory Techniques** held at Department of Zoology, Goalpara College on 22<sup>nd</sup> January/2004.
- Attended workshop on **Common Laboratory Processes** held at Department of Chemistry, Goalpara College on 29<sup>th</sup> December/2003.

### AWARDS AND PRIZES

- Secured 1<sup>st</sup> position in **Debating** in the Annual Function of P.R.Govt.H.S.& M.P School, Goalpara/ 2002.
- Secured 2<sup>nd</sup> position in **Extempore Speech** in the Annual Function of P.R.Govt.H.S.& M.P School, Goalpara/ 2002.
- Secured 2<sup>nd</sup> position in **Painting** in the Annual Function of P.R.Govt.H.S.& M.P School, Goalpara/ 2000.
- Secured 2<sup>nd</sup> position in **Recitation** in the Annual Function of P.R.Govt.H.S.& M.P School, Goalpara/ 2000.
- Secured 1<sup>st</sup> position in **Extempore Speech** in the Annual Function of P.R.Govt.H.S.& M.P School, Goalpara/ 2000.
- District level **Middle School Scholarship** holder [secured rank 5 in Goalpara District].
- Junior Diploma PRT-III holder from **Modern Art Academy of Goalpara under Sarba Bharatiya Sangeet Sanskriti parishad, Kolkata in Art.**

## OUTSIDE WORLD INTERACTIONS

- Completed FDP on **Entrepreneurship Development** organized by Assam Science and Technology University with financial assistance of North Eastern Council, Shillong and in association with Indian Institute of Entrepreneurship held on 28<sup>th</sup> February/2024 to 3<sup>rd</sup> March/2024.
- Completed FDP on **NBA Accreditation Processes** organized by Scholars Institute of Technology and Management held on 16<sup>th</sup> December/2023 to 17<sup>th</sup> December/2021.
- Reviewer of Springer **Journal – Journal of Intelligent manufacturing and Journal of the Institution of Engineers (India): Series C.**
- **Co-Principal Investigator in a TEQIP III funded CRS project** of one year duration under Assam Science and Technology University from September/ 2019 to December/ 2020.
- Serve as a **NBA trainer** and invited as **Resource person** in the **Technical Institutes/Colleges such as** Assam Donbosco University, Scholars Institute of Technology and Management, Nalbari Polytechnic and Assam Engineering Institute.
- Appointed as **academic expert** to upgrade the course curriculum of B.Tech and Diploma level in line with **NEP 2020** for the Department of **Industrial & Production Engineering** under Directorate of Technical Education, **Government of Assam.**
- Appointed as member in **Academic Review Committee** to review course curriculum of B.Tech level in line with **NEP 2020** under ASTU.
- Appointed as member in **Project Monitoring Committee** for the project “Building safe and affordable bamboo-based bio-composite boats” under **NECTAR, DST, Government of India.**
- Appointed as member in **Vetting Committee** to vet seven DPR on Legacy Waste Management of seven ULBs under **Municipal Administration, Government of Assam.**
- Appointed as **Assembly Level Master Trainer, EVM Commissioning Officer and Receiving Officer** by **District Election Commissioner, Kamrup Metropolitan** for **Lok Sabha Election 2024.**
- Appointed as **external examiner** to conduct B.Tech final year project viva-voce/ 2024 in Assam Downtown University and Assam Donbosco University.
- Appointed as **external examiner** to conduct B.Tech Practical viva-voce/ 2023 in Girijananda Chowdhury University.
- Acted as **supervisor** of B.Tech Internship II (Academic) / 2024 for six students of Golaghat Engineering College.
- IGNOU BSc Minor project supervised: 1 (one)
- All India Seminar on **Recent Trends in Mechanical Engineering** organized under the aegis of Mechanical Engineering Division Board, IEI held on 21<sup>st</sup> to 22<sup>nd</sup> October, 2016 at The Institution of Engineers (India), Assam State Centre, Panbazar, Guwahati-1.
- National Conference on **Industrial Engineering and Technology Management, 2014 (NCIETM-2014)** organized by National Institute of Industrial Engineering (NITIE), Mumbai in association with Indian

Institution of Industrial Engineering (IIIE), Navi Mumbai and National Productivity Council (NPC), New Delhi, held in NITIE, Mumbai on 29th to 31st October, 2014.

- National Conference on **Emerging Trends and Applications in Computer Science** (NCETACS) held in St. Anthony's College Shillong, Meghalaya on 9<sup>th</sup> and 10<sup>th</sup> April, 2010.

### **HOBBIES / INTERESTS**

- Sports –Cricket, Chess, Carom.
- Keenly interested in listening music and acting.
- Interested in reading novels/stories/poems and writing short stories and poems.
- Photography, traveling, cooking, painting, etc.

### **DECLARATION**

I hereby declare that the above mentioned facts and information are true to the best of my knowledge.

Place: Azara, Guwahati-17

Dr. Manash Bhuyan

Date: 30/08/2024