

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
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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.

PERSONAL DETAILS

Father's Name : Mr. Jatin Chandra Bhuyan
Mother's Name : Mrs. Runa Barua
Date of Birth : 30th 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

High School & Higher Secondary

Level	Name of the Institution	Board/Council / University	Year of Passing	Marks obtained	Division/Class
Class X	P.R.Govt.H.S.& M.P School,Goalpara	SEBA	2003	465 (77.50%)	I
Class XII	Goalpara College,Goalpara	AHSEC	2005	310 (62%)	I

Bachelor of Engineering (B.E)

Branch: Industrial & Production Engineering

Assam Engineering College, Guwahati-13, Assam

University: Gauhati University (GU)

B.E Percentage: 72.63 % [**First Class Second Position**]

Year of passing B.E: 2010

Masters of Engineering (M.E)

Branch: Mechanical Engineering (Specialization in Production & Industrial Engineering)

Jorhat Engineering College, Jorhat-07, Assam

University: Dibrugarh University (DU)

M.E Percentage: 81.70 % [**First Class Second Position**]

Year of passing M.E: 2014

Ph.D (Completed)

Branch: Mechanical Engineering

Assam Engineering College, Guwahati-13, Assam

University: Gauhati University (GU)

Research field: Manufacturing and Materials Science

Year of completion: 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)
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MS Office - Word, Excel, Power Point, Photoshop, Operating Systems (Windows 98, Windows XP, Windows Vista, Linux), MS- Project, Diploma in Computer Application & Maintenance.
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TRAINING / PROJECTS UNDERTAKEN

- 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 6th semester. (The training has done in the fields of **thermal Power plant and study of total productive maintenance.**)
- Undertaken a project on **Multiple Criteria Decision Making under Multi Expert System: A case study for family car selection** as B.E, 7th semester academic curriculum.
- Undertaken a project on **Computer Aided Multiple Criteria Decision Making Using Analytic Hierarchy Process** as B.E, 8th 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.**”
- Undertaken M.E mini project on “**Comparative Study of Location Selection Methods for Establishing Healthcare Facility**” as M.E, 3rd semester academic curriculum.
- Undertaken M.E main project on “**Facility Location Selection, Analysis and Design of Layout for Establishing A Health Care Facility**” as M.E, 4th semester academic curriculum.

ACHIEVEMENTS AND EXTRA-CURRICULAR ACTIVITIES

- 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 1st 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 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.**
- 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, Assam.**
- Appointed as **Assembly Level Master Trainer** by **District Election Commissioner, Kamrup Metropolitan for Lok Sabha Election 2024.**
- Appointed as member in **purchasing committee** in Assam Engineering College.

PUBLICATIONS: 26

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

INTERNATIONAL JOURNALS

- 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, “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., 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., 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

- 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

- Bhuyan.,M., et.al., “Design and Fabrication of A Flood Proof House to Overcome the Flood Hazards in Rural Areas of Assam, India”, proc. 3rd 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. 2nd 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. 1st 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

- 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 Mechanical Engineering Deptt., Assam Engineering College, on 6th, March, 2020, pp.28-29.
- Bhuyan.,M., et.al., “Computer Aided Analysis to evaluate an Efficient Optimization Technique for getting Optimum Solution”, 6th 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 30th 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 29th -30th, 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 4th 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 29th to 31st 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 18th and 19th 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 9th and 10th 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 19th and 20th February, 2010 pp 339-344.

BOOK CHAPTERS

- 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.
- 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”, 2nd 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:

(13 years 5 months of Teaching Experience, 4 years 6 months of Industrial Experience and 6 years of Research Experience)

- I worked as a **Lecturer [on contractual basis] in Production & Industrial Engineering Department, Assam Engineering College, Jalukbari, Guwahati-13 from August/2010 to July/2012.**
- I worked as an **Inventory Supervisor** for Saj Food Products Pvt. Limited from **July/2010 to July/2012.**
- I also worked as **Guest Lecturer in Mechanical Engineering Department, Jorhat Engineering College, Jorhat-07 from August/2012 to May/2013.**
- Worked as a proctor in **CAT 2010, 2011** held in Assam Engineering College, Jalukbari, Guwahati-13.
- I worked as an **Assistant Professor [on contractual basis] in Production & Industrial Engineering Department, Assam Engineering College, Jalukbari, Guwahati-13 from January/2014 to till date.**
- I worked as a **Stock Supervisor** for Swaraj Beverages Pvt. Limited from **May/2014 to September/2016.**
- **Doing research on Aluminum Alloy Development** since September, 2016 to June, 2022.

Conferences/Workshop/Seminar attended till now

- **National Conference on Emerging Trends and Applications in Computer Science** (NCETACS) held in St. Anthony's College Shillong, Meghalaya on 9th and 10th April, 2010.
- **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.
- **MSME-AEC MEET-2016 for enhancing Institute-Industry Interaction** organized by the Department of Mechanical Engineering, AEC, Guwahati-13 on 12 May/2016 sponsored by AICTE-NEQIP.
- **All India Seminar on Recent Trends in Mechanical Engineering** organized under the aegis of Mechanical Engineering Division Board, IEI held on 21st to 22nd October, 2016 at The Institution of Engineers (India), Assam State Centre, Panbazar, Guwahati-1.
- 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.
- TEQIP III sponsored workshop on **Engineering Research: Patent & Non Patent Literature Search** organized by Assam Engineering College on 24 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 23rd February/2018.
- 1st International Conference on Smart Villages and Rural Development, organized by the University of Melbourne, Australia and Assam Engineering College on December 12-14, 2018.
- 2nd International Conference on Smart Villages and Rural Development, organized by the University of Melbourne, Australia and Assam Engineering College on December 2-4, 2019.
- 6th National Conference on Energy Efficient Mechanical Systems Design and Manufacturing, organized by Mechanical Engineering Department, PSG College and Technology, Coimbatore, on 30th April, 2019.
- Two Day National Conference on Emerging Trends in Energy and Electrical Systems, 2019, organized by Electrical Engineering Deptt., Assam Engineering College, on 29th -30th, March, 2019.
- National Conference for Students on Advances in Mechanical Engineering, organized by organized by Mechanical Engineering Deptt., Assam Engineering College, on 6th, March, 2020.

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: 24/02/2024