



Name: Dr. Manjuri Hazarika
Designation: Professor
Department: Mechanical Engineering Department
Institute: Assam Engineering College
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Educational Qualifications:

Degree	Year	University/Institute	Class	Specialization
B.E.	1990	Dibrugarh University	1st	Mechanical
M.Tech.	1996	IIT Delhi	1st	Design Engineering
Ph.D	2011	IIT Guwahati	-----	Manufacturing

Professional Qualifications:

Designations	From	To
Lecturer in Jorhat Engineering College (JEC)	26.10.90	31.10.93
Lecturer in Assam Engineering College (AEC)	1.11.93	20.11.97
Senior Lecturer in AEC	21.11.97	20.11.02
Lecturer, Selection Grade in AEC	21.11.02	31.12.05
Associate Professor in AEC	1.1.06	26.5.11
Professor in AEC	27.5.11	Till date

Publications

Books:

1. U. S. Dixit, M. Hazarika and J. P. Davim, 'A Brief History of Mechanical Engineering', Series Title: Materials Forming, Machining and Tribology, Springer International Publishing AG, Cham, Switzerland, 2017.
2. M. Hazarika and U. S. Dixit, 'Setup Planning for Machining', Springer Briefs in Applied Sciences and Technology, Springer Cham Heidelberg New York Dordrecht London, 2015.

Book Chapter:

1. Uday S. Dixit, Manjuri Hazarika and J. Paulo Davim, "History of Production and Industrial Engineering through Contributions of Stalwarts", Book Chapter in 'Manufacturing Engineering Education', Elsevier, ISBN: 9780081012475, 2018.

International Journal papers:

1. Rupam Das and Manjuri Hazarika, 'A Study on Effect of Process Parameters on Vibration of Cutting Tool in Turning Operation', *Journal of Physics, IOP Conf. Series:1240*, pp. 1–10, 2019.
2. N. Saha, D. Talukdar, K. Upadhaya, C. Barbhuiya, M. Hazarika, 'An Experimental Study on Burr Formation in Turning', *International Journal of Innovative Research in Science, Engineering and Technology*, Vol. 5, pp. 3215–3222, 2016.
3. M. Hazarika, U. S. Dixit and S. Deb, 'A method for fine tuning the membership grades assigned by experts: an application to burr height estimation in drilling', *Journal of Manufacturing Technology Research*, Vol. 4, pp. 75–87, 2012.
4. M. Hazarika, S. Deb, U. S. Dixit and J. P. Davim, 'A Fuzzy Set Based Setup Planning System with Ability for Online Learning', *IMechE Part B: Journal of Engineering Manufacture*, Vol. 225, pp. 247–263, 2010.
5. M. Hazarika, U. S. Dixit and S. Deb, 'Effect of datum surface roughness on parallelism and perpendicularity tolerances in milling of prismatic parts', *IMechE Part B: Journal of Engineering Manufacture*, Vol. 224, pp. 1377–1388, 2010.
6. M. Hazarika, U. S. Dixit and S. Deb, 'A setup planning methodology for prismatic parts considering fixturing aspects', *International Journal of Advanced Manufacturing Technology*, Vol. 51, pp. 1099–1199, 2010.

International Conference papers:

1. Rupam Das and Manjuri Hazarika, 'A Study on Effect of Process Parameters on Vibration of Cutting Tool in Turning Operation', *Proc. of 2nd International Conference on New Frontiers in Engineering, Science & Technology NFEST 2019*, February 18th – 22nd, NIT Kurukshetra, Haryana, India, 2019.

2. M. Gogoi and M. Hazarika, 'A Green Process Planning system', *Proc. of 5th International & 26th All India Manufacturing Technology, Design and Research Conference*, December 12th–14th, IIT Guwahati, Assam, India, 2014.
3. P. Saikia and M. Hazarika, 'An Experimental Study on Green Machining', *Proc. of 5th International & 26th All India Manufacturing Technology, Design and Research Conference*, December 12th–14th, IIT Guwahati, Assam, India, 2014.
4. M. Hazarika, U. S. Dixit and S. Deb, 'A method for fine tuning the membership grades assigned by experts: an application to burr height estimation in drilling', *Proc. of the 3rd International & 24th All India Manufacturing Technology, Design and Research Conference*, A.U. College of Engineering, Visakhapatnam, 2010.
5. M. Hazarika, S. Deb and D. K. Biswal, 'An Expert System Based Computer-Aided Process Planning Methodology for Setup Planning of Machined Prismatic Parts', *Competitive Manufacturing–Proceedings of the 2nd International & 23rd All India Manufacturing Technology, Design and Research Conference*, pp. 1049–1054, IIT Madras, Chennai, 2008.

National Conference papers:

1. Souvik D Roy, Dhiraj Rabha, Mahmoodul Hasan, Manjuri Hazarika, "Study and Analysis of a Solar Power System", National Conference for Students on Advances in Mechanical Engineering (NCSAME), Assam Engineering College, Guwahati, 6th March, 2020.
2. Arabinda Baruah, Pranjit Konwar, Iftiqur Alam, Imsusenba, Manjuri Hazarika, "Prediction of Surface Roughness in Milling", Research Conclave'19, Students' Academic Board, I I T Guwahati, 14-17 March, 2019.
3. Anubhav Goswami, Anamitra Phukan, Abhishek Goswami, Manjuri Hazarika, "Prediction of Surface Roughness in Milling Using Regression Analysis", Research Conclave'18, Students' Academic Board, I I T Guwahati, 8-11 March, 2018.
4. A. Goswami, M. Hazarika, "A Review of Rural Electrification in Assam Using Solar Energy Through Decentralized Distributed Generation (DDG)", National Conference on Non-conventional Energy: Harvesting Technology and its Challenges, Assam Engineering College, Guwahati ,17-18 October, 2017.
5. A. Goswami, A. Phukan, A. Borah, M. Hazarika, "Solar Energy Utilization in Raj Bhawan and Bijulee Bhawan, Guwahati: A Case Study", National Exhibition & Conference on New and Renewable Energy, ADBU Journal of Engineering Technology (AJET), 6-7 October, 2017.
6. B. Sarma, K. Borah, B. Saikia, A. Dhar, M. Hazarika, 'An Experimental Study on Burr Formation in Miilling', All India Seminar on Recent Trends in Mechanical Engineering, pp. 22–26, The Institution of Engineers (India), Assam State Centre, Guwahati, 21–22 October, 2016.
7. B. Sarma, A. Dhar, B. Saikia, K. Borah, 'An Experimental Study on Burr Formation in Drilling', 2nd Mechanical Engineering Graduate Research Symposium 2015 (MEGRES 2015), Indian Institute of Technology Bombay, Mumbai, 21st March, 2015.
8. M. Hazarika, K.S. Shishodia and G.S. Sekhon, 'A Study on abrasive jet machining of glass', *Proc. of the 10th ISME Conference on Mechanical Engineering*, New Delhi, 1996.

Awards/Prizes:

1. Vinod Kumar Memorial Cash Prize by the Applied Mechanics Society, Department of Applied Mechanics, IIT Delhi for obtaining the highest CGPA in M. Tech. (Design Engineering) in 1996.
2. Special Cash Prize by the Applied Mechanics Society, Department of Applied Mechanics, IIT Delhi for M. Tech. project work which culminated in the development of equipment in 1996.

Invited Lecture delivered:

1. 'Computer Aided Process Planning', Symposium on Machining, 20th August 2014, Assam Don Bosco University, Guwahati.
2. 'Computer Aided Process Planning and Green Machining', Symposium on Computer Aided Manufacturing, 29th September 2015, Assam Don Bosco University, Guwahati.

Reviewer of International/National Conferences:

1. Reviewed research papers for 3rd International Conference on Smart Village and Rural Development (COSVARD), organized as online Webinar on 7th – 8th December, 2020.
2. Reviewed research papers for Online National Conference on Research and Developments in Material Processing, Modelling and Characterization 2020 (RDMPMC 2020) on 25th – 26th August organized at NIT Jamshedpur
3. Reviewed research papers for 2nd International Conference on Smart Village and Rural Development (COSVARD) held in 2nd –4th December, 2019 at Administrative Staff College, Khanapara, Guwahati.
4. Reviewed research papers for International Conference on Recent Innovations and Developments in Mechanical Engineering held in November 8–10, 2018 in NIT Meghalaya, Shillong, India.
5. Reviewed research papers of 3^{0th} National Convention of Production Engineers (NCPR 15) organized by The Institution of Engineers (India), Tripura State Centre in 2015.
6. Reviewed research papers for 5th International & 26th All India Manufacturing Technology, Design and Research (AIMTDR) Conference held in December 12th –14th, 2014 in IIT Guwahati.
7. Reviewed research papers for International Conference on Computational Methods in Manufacturing (ICM2011) held in December 15th –16th, 2011 in IIT Guwahati.

Reviewer of International/National Journals:

Reviewed research paper for the International Journal of Machining and Machinability of Materials, InderScience Publishers in October 2015.

Member of Professional Institutions:

1. Fellow of The Institution of Engineers (India)
2. Life member of ISTE (Indian Society for Technical Education)

Interviewer/Examiner

1. Member of the Selection Committee for faculty selection in Mechanical Engineering Dept, NIT Silchar on 12.2.2021 and 13.2.2021.
2. Acted as an external Examiner for assessing final year project viva-voce examinations of 8th semester mechanical engineering students of JEC on 8.8.2020 and 9.8.2020.
3. Member of the 'Panel of Jury' for 'Sanskar: Manuhe Manuhor Babe', a scheme for scientific/research articles to spread awareness on COVID19, organised by Assam Science Technology and Environment Council (ASTECC), department of Science & Technology, Govt of Assam on 14.7.2020.
4. Member of the Selection Committee for faculty selection in Mechanical Engineering Dept, NIT Silchar on 14/11/2019.
5. Member of the Selection Committee for faculty selection in Mechanical Engineering Dept, NIT Silchar during June 24 – 25, 2019.
6. Member of the Selection Committee for faculty selection in Mechanical Engineering Dept, NIT Silchar during June 7 – 8, 2018.
7. Acted as Examiner for assessing final year project viva-voce and viva-voce examinations for different subjects in Tezpur University, Girijananda Institute of Management and Technology and Regional Institute of Science and Technology.

Member of Organizing Committee of Conference/Workshop:

1. Joint Coordinator of the Webinar on Professional Ethics organized by ME depts, AEC and JEC on 5th November, 2020.
2. Coordinator of the Induction Program 2019 held in Assam Engineering College, Guwahati on 1st –21st August, 2019.
3. TEQIP-III Coordinator for Mechanical Engineering Department, AEC.
4. Organizing Coordinator of the two weeks faculty development program (FDP) on Recent Advancement in Welding and Allied Processes held in Assam Engineering College, Guwahati from 13th –24th August, 2018.
5. Organizing Coordinator of the four days Hands-On Workshop on Fundamentals of MATLAB held in Assam Engineering College, Guwahati from 3rd –6th April, 2018.
6. Organizing Coordinator of the one day seminar on Environment, Air Pollution and Noise held in Assam Engineering College, Guwahati on 23rd February 2018.

7. In Editorial Board of the two days National Conference on Non Conventional Energy: Harvesting Technology and Its Challenges held in Assam Engineering College, Guwahati on 17th–18th November, 2017.
8. In Editorial Board of International Workshop on Wind Engineering-Prospects and Challenges held in Assam Engineering College, Guwahati on 23rd February 2013.
9. In organizing committee of International Conference on Computational Methods in Manufacturing (ICM2011) held in December 15th –16th, 2011 in IIT Guwahati.

Post Graduate Thesis guided:

1. ‘A Study on Effect of Process Parameters on Power Consumption in Turning Operation’, Debajit Talukdar, 2019.
2. ‘A Study on Effect of Process Parameters on Vibration of Cutting Tool in Turning Operation’, Rupam Das, 2018.
3. ‘A Framework for Green Machining using Analytical Hierarchy Process’, Joobar Islam Siddiquee, 2016.
4. ‘An Experimental Study on Green Machining’, Palash Saikia, 2014.
5. ‘A Green Process Planning Expert System for Machining of Prismatic Parts’, Mousumi Gogoi, 2012.

Visiting Scholar

Visited University of Melbourne (UoM), Australia as a visiting academic scholar for a period of seven weeks from 29th April to 16th June, 2019, sponsored as a member in a collaborative project on Smart Villages between Govt. of Assam and the University of Melbourne.

Total Short Term Course (STC)/Faculty Development Program (FDP) attended:

Sl No.	Title of the Course	Organizer	Course Duration
1	Vibration Control	IIT Bombay (QIP)	27 th June – 1 st July, 1994 (One week)
2	Quality Management-Recent Trends	Jorhat Engineering College (QIP)	17 th – 28 th July, 2000 (Two weeks)
3	Design and Manufacturing of Composite Materials	IIT Guwahati (QIP)	6 th –10 th December, 2004 (One week)
4	Microteaching	NITTTR, Guwahati	13 th –17 th December, 2004 (One week)
5	Finite Element Analysis & Identification in Rotor Bearing	IIT Guwahati (QIP)	20 th –24 th December, 2004 (One week)
6	Fuels and Combustion Technology	IIT Guwahati (QIP)	5 th –9 th December, 2005 (One week)

7	Computer Aided Design and Manufacturing	IIT Guwahati (QIP)	12 th –16 th December, 2005 (One week)
8	Advanced Processing of Composite Materials	IIT Roorkee (QIP)	24 th –28 th July, 2006 (One week)
9	Rapid Product Development	IIT Guwahati (QIP)	11 th –15 th December, 2006 (One week)
10	Advanced Engineering Polymers	IIT Guwahati (QIP)	3 rd –7 th December, 2007 (One week)
11	Introduction to Micro-Manufacturing Technologies	IIT Guwahati (QIP)	24 th –28 th February, 2008 (One week)
12	Introduction to Linear Elastic Fracture mechanics	IIT Guwahati (QIP)	3 rd –7 th March, 2008 (One week)
13	Applications of Lasers in Manufacturing	IIT Guwahati (QIP)	24 th –28 th June, 2013 (One week)
14	Advanced Machining and Finishing Processes	IIT Guwahati (TEQIP)	15 th –16 th December, 2014 (Two days)
15	Introduction to Numerical, Computational and Experimental Mechanics	AEC Guwahati (NEQIP)	9 th –13 th December, 2014 (One week)
16	Recent Trends in Power Engineering and Management	AEC Guwahati (NEQIP)	19 th –23 th January, 2015 (One week)
17	Environmental Impact Assessment: A Tool for Sustainable Development	AEC Guwahati (NEQIP)	9 th –13 th February, 2015 (One week)
18	Advances in Renewable Energy and its Applications	AEC Guwahati (NEQIP)	7 th –11 th March, 2016 (One week)
19	Faculty Induction Workshop	IIT Kharagpur (TEQIP-III)	3 rd July – 7 th July, 2018 (One week)
20	Modeling of Engineering Systems	NITTTR, Kolkata	16 th July – 20 th July, 2018 (One week)
21	Recent Advancement in Welding and Allied Processes	Mechanical Engg Dept, AEC & PSG College of Technology, Coimbatore (TEQIP-III)	13 th –24 th August, 2018 (Two weeks)
22	Green Technology for Sustainable Development	Chemical Engg Dept, AEC	17 th Dec – 21 st Dec, 2018 (One week)
23	Industrial & Fire Safety Engineering	Civil Engg Dept, AEC	4 th – 8 th November, 2019 (One week)
24	3D Printing	Dept of Mechanical Engineering, AEC	25 th – 29 th November, 2019 (One week)
25	Quality and Quality Engineering	Dept of Mechanical Engineering, AEC	3 rd – 7 th December, 2019 (One week)

26	Psychology in Education	Dept of Electronics and Telecommunication Engineering, AEC	27 th Jan 2019 – 1 st Feb, 2020 (One week)
27	Project Management	Dept of Mechanical Engineering, AEC	3 rd – 7 th February, 2020 (One week)
28	Recent Trends in Green Energy Utilisation	Dept of Mechanical Engineering, AEC	10 th – 14 th February, 2020 (One week)

Total Conference/Workshop/Seminar attended:

SI No	Title	Organizer	Course Duration
1	Regional Workshop on Technical Manpower Scenario in NE India	Institute of Applied Manpower Research, New Delhi	7 th –8 th March, 2002 (Two days)
2	Women Managers in Higher Education	Gauhati University, Guwahati	27 th –31 st March, 2007 (One week)
3	2 nd International & 23 rd AIMTDR Conference	IIT Madras, Chennai	15 th –17 th December, 2008 (Three days)
4	Regional Seminar Cum Workshop on Pedagogy	Assam Engineering College, Guwahati	4 th April, 2013 (One day)
5	5 th International & 26 th AIMTDR Conference	IIT Guwahati	12 th –14 th December, 2014 (Three days)
6	Solar Energy Utilization- Opportunities & Challenges in NER	Assam Engineering College, Guwahati	4 th April 2015 (One day)
7	Green Energy-Prospects and Challenges	Assam Science and Technology University	26 th –27 th April, 2016 (Two days)
8	MSME-AEC Meet-2016	AEC Guwahati (NEQIP)	12 th May 2016 (One day)
9	Recent Trends in Mechanical Engineering	The Institution of Engineers (India), Assam State Centre	21 st –22 nd October, 2016 (Two days)
10	Workshop on Pedagogy	AEC Guwahati (AICTE-NEQIP)	5 th –6 th May, 2017 (Two days)
11	Non Conventional Energy: Harvesting Technology and Its Challenges	Department of Chemical & Mechanical Engineering, AEC, Guwahati, (NEQIP)	17 th –18 th November, 2017 (Two days)
12	Creativity in Design and Innovation at the Grass Root Level	Department of Mechanical Engineering, AEC (TEQIP-III)	17 th February, 2018 (One day)

13	Environment, Air Pollution and Noise	Department of Mechanical Engineering, AEC (TEQIP-III)	23 rd February, 2018 (One day)
14	Research Conclave-18	IIT Guwahati	8 th –11 th March. 2018 (Four days)
15	International Conference on New Frontiers in Engineering, Science & Technology: NFEST 2019	NIT Kurukshetra	18 th –22 nd February, 2019 (Five days)
16	2 nd International Conference on Smart Village and Rural Development COSVARD 2019	University of Melbourne and AEC (TEQIP-III)	2 nd – 4 th December 2019 (Three days)
17	Webinar on Building Resilience and Emotional Well Being for adapting to the new normal	Department of Mechanical Engineering, AEC (TEQIP-III)	26 th August, 2020
18	Webinar on Emerging Technologies in Biofuel Production	Department of Mechanical Engineering, AEC (TEQIP-III)	26 th – 27 th August, 2020
19	Webinar on Professional Ethics	Departments of Mechanical Engineering, AEC, JEC and Vivekananda Civil Service Academy, Ghy (TEQIP-III)	5 th November, 2020
20	3 rd International Conference on Smart Village and Rural Development COSVARD 2020	University of Melbourne and AEC	7 th – 8 th December, 2020