

Name: Dr. Manjuri Hazarika

Designation: Associate Professor

Institute: Assam Engineering College

Department: Mechanical Engineering Department

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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	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.

International Journal papers:

1. 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.
2. 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.
3. 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.
4. 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.
5. 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. 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.
2. 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.
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', *Proc. of the 3rd International & 24th All India Manufacturing Technology, Design and Research Conference*, A.U. College of Engineering, Visakhapatnam, 2010.
4. 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. B. Sarma, K. Borah, B. Saikia, A. Dhar, M. Hazarika, 'An Experimental Study on Burr Formation in Milling', *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.
2. 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.

3. 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 5th International & 26th All India Manufacturing Technology, Design and Research (AIMTDR) Conference held in December 12th –14th, 2014 in IIT Guwahati.
2. Reviewed research papers for International Conference on Computational Methods in Manufacturing (ICMM2011) held in December 15th –16th, 2011 in IIT Guwahati.
3. Reviewed research papers of 30th National Convention of Production Engineers (NCPR 15) organized by The Institution of Engineers (India), Tripura State Centre in 2015.

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)

Member of Organizing Committee of Conference/Workshop:

1. International Conference on Computational Methods in Manufacturing (ICMM2011) held in December 15th –16th, 2011 in IIT Guwahati.
2. International Workshop on Wind Engineering- Prospects and Challenges held in Assam Engineering College, Guwahati on 23rd February 2013.

Post Graduate Thesis guided:

1. 'A Green Process Planning Expert System for Machining of Prismatic Parts', Mousumi Gogoi, 2012.
2. 'An Experimental Study on Green Machining', Palash Saikia, 2014.
3. 'A Framework for Green Machining using Analytical Hierarchy Process', Joobar Islam Siddiquee, 2016.

Total Short Term Course (STC) attended:

Serial 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 in	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)

Total Conference/Workshop/Seminar attended:

Serial 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	2nd International & 23rd 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)