

## Mr. Manash Hazarika

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### Education

Degree	Year	University
M.E.	2003	Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal
B.E.	1999	Gauhati University

### Teaching Experience

Working as a faculty member in Mechanical Engineering since 2007

### Field of Specialization

- \* Advanced Production Systems
- \* Cellular Manufacturing
- \* Soft Computing Techniques

### Experience

Working for more than 11 years, since joining as a Lecturer in Mechanical Engineering Department of Assam Engineering College in October, 2007.

### Conference Papers Published (4)

Title of the paper	Conference	Year	Role	Vol Number-Page Name
Determination of accuracy of winding deformation method using kNN based classifier used for 3 MVA transformer	International Conference on Electrical, Electronics, Materials and Applied Science	2018	Corresponding-author	DOI: 10.1063/1.5032051
Application of Genetic Algorithm	IEEE, International	2017	Corresponding-author	DOI:

in Generalized Machine Cell Formation Problem	Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017)				10.1109/ICECDS.2017.8389770
Formation of machine-part cells using assignment allocation algorithm	IEEE International Conference on Advances in Mechanical, Industrial, Automation and Management Systems (AMIAMS-2017)	2017	Co-author	DOI:	10.1109/AMIAMS.2017.8069213
Machine-part cell formation for maximum grouping efficacy based on genetic algorithm	2015 IEEE Workshop on Computational Intelligence: Theories, Applications and Future Directions (WCI)	2015	Corresponding-author	DOI:	10.1109/WCI.2015.7495521

**Journal Papers Published (4)**

<b>Title of the paper</b>	<b>Journal of publication</b>	<b>Year</b>	<b>Role</b>	<b>Vol Number-Page Name</b>
Machine Cell Formation with Alternative Routings based on Genetic Algorithm	Procedia Computer Science	2018	Corresponding-author	133 (2018) 357–367
A Heuristic Approach for Machine Cell Formation Problems with Alternative Routings	Procedia Computer Science	2018	Corresponding-author	89 (2016) 228 – 242
Genetic Algorithm approach for Machine Cell Formation with Alternative	Materials today: proceedings	2017	Corresponding-author	5 (2018) 1766–1775

## Routings

A heuristic approach based on Euclidean distance matrix for the machine-part cell formation problem Materials today: 2017 Corresponding-author 4 (2017) 1442–1451

### Conference/Workshop/Seminar attended (3)

Title of the paper	Journal of publication	Year	Role
Application of Genetic Algorithm in Generalized Machine Cell Formation Problem	IEEE, International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017), SKR Engineering College, Tamil Nadu, India	2017	Corresponding-author
A heuristic approach based on Euclidean distance matrix for the machine-part cell formation problem.	5th International Conference on Materials Processing and Characterization (ICMPC 2016), Hyderabad.	2016	Corresponding-author
Machine-Part Formation for Grouping Efficacy Based on Genetic Algorithm	2015 IEEE Workshop on Computational Intelligence: Theories, Applications and Future Directions (WCI), IIT Kanpur	2015	Corresponding-author

### Total Short Term Course (STC) attended (13)

Serial No	Title of the Course	Organizer	Sponsoring Agency	Course Duration
1.	Recent Advances in Welding and Allied Processes	AEC Guwahati	TEQIP III	13th to 24th August, 2018 (two weeks)
2	State-of the-art Computational Tools & Recent Advances in Materials, Energy and Environmental Engineering	IIT Guwahati	TEQIP	9th to 20th July, 2018 (two weeks)
3.	Faculty Induction Workshop	IIT Kharagpur	TEQIP III	3rd to 7th July, 2018 (One week)
4.	Recent Advancement of IIT, Guwahati	AICTE		14th to 18th

	Intelligent Materials and Its Applications		Sponsored QIP	Dec., 2010 (One week)
5.	Rotors Supported on Hydrodynamic Bearings	IIT, Guwahati	AICTE Sponsored QIP	6th to 10th Dec., 2010 (One week)
6.	Advances in Biofuel Research	IIT, Guwahati	AICTE Sponsored QIP	29th Nov. to 3rd Dec., 2010 (One week)
7.	Research in Engineering Education	NITTTR, Kolkata	MHRD, Govt. of India	of 28th June to 2nd July, 2010 (One week)
8.	Materials Mgt. and Purchase Procedure	NITTTR, Kolkata	MHRD, Govt. of India	of 21st to 25th June, 2010 (One week)
9.	Mechanical Engineering Education	IIT, Guwahati	AICTE Sponsored QIP	7th to 11th Dec., 2009 (One week)
10.	Energy Crisis, Wastage & New Sources	Dibrugarh Polytechnic, Lahowal	AICTE, MHRD, Govt of India	18th to 22nd June, 2008 (One week)
11.	Introduction to Micro-Manufacturing Technologies	IIT, Guwahati	AICTE Sponsored QIP	24th to 28th Feb., 2008 (One week)
12.	Power Hydraulics & Pneumatics	NITTTR, Guwahati Extension centre	MHRD, Govt. of India	of 21st to 25th Jan., 2008 (One week)
13.	Development of Staff Training Program	NITTTR, Guwahati Extension centre	MHRD, Govt. of India	of 23rd to 27th July, 2007 (one week)

### Reviewer of International/National Conferences (2)

Serial No	Title of the Conference	Year
1.	7 <sup>th</sup> International & 28 <sup>th</sup> All India Manufacturing Technology, Design and Research (AIMTDR) Conference 2018. Dec 13-15, 2018, College	2018

of Engineering Guindy, Anna University, Chennai, India.

2. 2015 IEEE Workshop on Computational Intelligence: Theories, Applications and Future Directions (WCI). Dec 14-17, 2015, IIT Kanpur 2015

### Awards

Awarded By	Award Name	Year
MHRD	GATE FELLOWSHIP for ME	2001