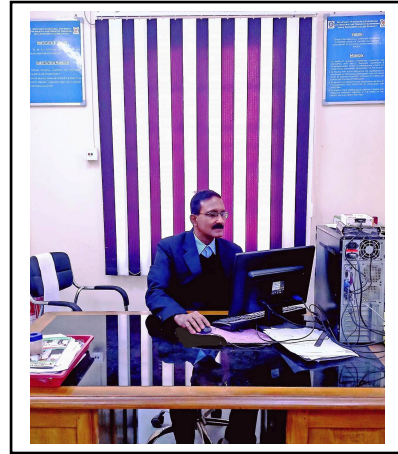


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### Educational Qualifications:

Degree	Year	University/Institute	Class	Specialization
Bachelor of Engineering	1975-1981	Dibrugarh University	I	Mechanical Engineering
Master of Technology	1983-1985	I.I.T, Kharagpur	-	Industrial Management
Ph. D	1997-2001	I.I.T, Kharagpur	-	Mechanical Engineering
B. E. thesis: “Performance of a Spark Ignition engine using methanol blends”. (Supervisor: Prof. D. J. Bhattacharyya)				
M. Tech. thesis: “Demand forecasting of specialty films and papers using Delphi technique” (Supervisor: Prof. Sadananda Sahu, Dept. of Industrial & Systems Engg.)				
Ph. D thesis: “On strategies and decision systems for multi sensor based tool condition monitoring in face milling. (Supervisors: Dr. S. Paul and Prof. A. B. Chattopadhyay, Dept. of Mechanical Engg.)				

### Professional Experience:

Designations	From	To
Honorary Lecturer at Jorhat Engg College	16.01.1981	30.06.1981
Assistant Engineer at Bongaigaon Thermal Power Station (BTPS) at Salekati under ASEB	07.07.1981	30.09.1981
Lecturer at Jorhat Engg College	03.10.1981	04.12.1989
Asstt. Profesor at Assam Engg College	05.12.1989	19.08.2005
Workshop I/C at Assam Engg College	15. 12. 1989	02.01.1990
Professor at Assam Engg College	20.08.2005	Till date
HOD, Mech. Engg. Assam Engg College	01.03.2007	Till date
Member, CCS and Faculty of Engg, Gauhati University	2001	2017
Member of BOS (ME & IPE), ASTU	Oct 2018	Till date

## Publications

1	Integrated Fuzzy AHP and Fuzzy TOPSIS methods for multi objective optimization of electro discharge machining process,	Soft Computing, <a href="http://doi.org/10.1007/s00500-018-3173-2">http://doi.org/10.1007/s00500-018-3173-2</a> Springer 31 March 2018	T Roy, R K Dutta (AEC)
2	The efficacy of BPNN with delta bar delta learning in predicting the wear of carbide inserts in face milling	International Journal of Advanced Manufacturing Technology, Vol.31, 2006, pg.434-442	R K Dutta, Dept of Mech Engg, AEC, Guwahati S Paul, A B Chattopadhyay IITKGP
3	Assessment of machining features for Tool condition monitoring in face milling using artificial neural network	I Mech E. Proceedings of Inst of Engineers, Vol.241 Part B, 2000 pg.535-546.	R K Dutta, Dept of Mech Engg, AEC, Guwahati G Kiron, TCS, India S Paul, A B Chattopadhyay IITKGP
4	Fuzzy controlled BPNN for Tool condition in face milling	International Journal of Production Research, Vol.38, No.13, 2000, pg.2989-3010	R K Dutta, Dept of Mech Engg, AEC, Guwahati S Paul, A B Chattopadhyay IITKGP
5	Applicability of modified BP algorithm in Tool condition monitoring for faster convergence	Journal of Material processing Technology, Elsevier, 1998, pg.299-309	R K Dutta, Dept of Mech Engg, AEC, Guwahati S Paul, A B Chattopadhyay IITKGP
6	Stochastic inventory modeling and simulation for materials requirement planning: A case study	Industrial Engineering Journal, Vol.XXVI No.5, May 1997	R K Dutta, Asstt. Prof. Mechanical Engg, AEC, Jalukbari

### Conference papers

1	FABRICATION OF TREATED AND UNTREATED COCONUT FIBRE REINFORCED EPOXY BASED COMPOSITES OF DIFFERENT FIBRE CONTENT AND COMPARISON OF THEIR TENSILE AND FLEXURAL STRENGTHS	International Conference on Recent Developments in Mechanical Engineering ICRAME 2020 07-09 February 2020, NIT Silchar, India	<i>U. Deka, M. Bhuyan, C. Borah I, S. Kakoti, R.K.Dutta</i>
2	Taguchi Grey relational based multi objective optimization of process parameters on the emission and fuel consumption characteristics of a VCR petrol engine	7 <sup>th</sup> international conference on materials processing and characterization (ICMPC 17-19 March 2017	A Pathak (RSET) P K Choudhury (AEC) R K Dutta (AEC)
3	Effect of process parameters on the fuel consumption characteristics of a VCR engine using Taguchi's design of experiment	International conference on Emerging Global trends in Engineering and Technology <b>Organized by</b> : Don Bosco College of Engineering & Technology, Assam Don Bosco University <b>Venue</b> : Don Bosco College of Engineering & Technology <b>Date</b> : 7-8 March 2014 <b>Published in</b> : Proceeding (ABSTRACTS) <b>Abstract Code</b> : OP4009 <b>Page No</b> : 61	Apurba Pathak, Prasanta Kr Choudhury, R K Dutta (MED, AEC)
4	Effect of process parameters on the exhaust emissions from a VCR petrol engine using Taguchi's DOE	International conference on Green Energy & Smart Materials through Science (GESM), Technology and Management <b>Jointly organized by</b> :Gauhati University, University of South Africa And Synergy for Energy Challenges and Opportunities for Energy Resources in North East (SECONE)	A Pathak, P K Choudhury, R K Dutta (MED, AEC)
5	Multi sensor based tool condition monitoring in face milling	19th AIMTDR conference 2000	R K Dutta, S Paul, A B Chattopadhyay,

<b>Memberships</b>	<b>Organization</b>
Life composite member	Inst. of Engrs. India
Life member	ISTE
Life member	Indian Inst. of Industrial Engg.

#### **Member of Organizing Committee of Conference/Workshop:**

Adviser for WEBINAR ON EMERGING TECHNOLOGIES IN BIOFUEL PRODUCTION (ETBP-2020) TIME (3PM to 6 PM) ON (26th – 27th August 2020)
Patron, NEQIP Short term course: <i>Introduction to Numerical, Computational and experimental Mechanics</i> , Department of Mech Engg, AEC, 9-13 Dec 2014
Working President, <i>National conference on non- conventional energy – harvesting technology and challenges</i> , Jointly by Chemical Engg and Mech Engg AEC, 17-18 Nov 2017
Coordinator, <i>Recent Advancement in Welding and allied processes</i> , Mech Engg Department, AEC, 13-24 Aug 2018

#### **Short term courses attended**

<b>Serial No</b>	<b>Title of the Course</b>	<b>Organizer</b>	<b>Sponsoring Agency</b>	<b>Course Duration</b>
1	Project Management	MEDAEC	TEQIP III	Feb 3 - 7, 2020
2	Recent trends in green energy utilization	MED AEC	DO	FB10-14, 2020
3	Recent trends in renewable energy utilization technologies	IITG	TEQIP	8-12 MAY 2019
4				
5	FACULTY INDICATION WORKSHOP	Continuing Education Cell, IIT KHARAGPUR	IIT Kharagpur	3-7 July 2018
6	Use & Deployment of NPTEL courses	Center for educational technology	IITG and Royal Group of Inst.	29-30 April 2013
7	Use and deployment of video courses for enriching technical education	Center for educational technology	IITG	4-5 Nov 2011
8	Recent advances in intelligent materials and application	ME Dept	IITG	14-18 Dec 2010
9	Developing tools for bio medical instrumentation	QIP/AICTE short term course	IITG	20-24 Sept 2010