

**BIO DATA
OF
Dr. KALYAN KALITA**



1. Name: Dr. Kalyan Kalita

2. Father's name Mr. Hari Kanta Kalita

3. Address:

a) Permanent : Vill. & P.O.: Rampur
Dist.: Kamrup, Assam, India

b) Residential : House No. 1,
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c) Office & Mailing :
Industrial and Production Engineering
(Attached to Mechanical Engineering Department)
Assam Engineering College
Jalukbari, Guwahati, Assam – 781 013

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4. Designation: Professor

5. Institute: Assam Engineering College

6. Department: Industrial and Production Engineering (Mechanical Engg. Dept.)

7. Date of birth: 01/03/1960

8a. Educational Qualifications:

Degree	Year	University/Institute	Class	Specialization
B.E.	1986	Gauhati University	I	Mechanical Engg
M.Tech.	1991	Indian Institute of Technology, Kharagpur (IITKGP)	8.1 CGPA	Machine Design (Mechanical Engineering)
Ph.D	2002	Indian Institute of Technology, Guwahati (IIT G)	---	CFD

8b. Research Degree:

Degree	Title of the Thesis	Date of Award	University/ Institute
PhD	Predictions of Turbulent Plane Plume in Quiescent Ambience and Turbulent Plane Jet in Cross flow	27 th May, 2002	IIT, Guwahati

9. Professional Experience:

Designation	Department	Date of Joining		Regular /3(f)/ Adhoc/ 3 (I)	Scale of Pay with AGP, Rs.
		from	To		
Lecturer	Mechanical, AEC	07/03/1987	18/11/1988	Adhoc-3(I)	1125-50-1375- EB-60-1975
Lecturer	Mechanical, AEC	19/11/1988	18/11/1996	Regular	2200-75-2800-100-4000
Lecturer, (Senior grade)	Mechanical, AEC	19/11/1996	18/11/2001	Regular	10000-325-15200
Selection Grade Lecturer	Mechanical, AEC	19/11/2001	16/06/2003	Regular	12000-420-22400 (5CPC
Assistant Professor	Mechanical, AEC	17/06/2003	31/12/2005	Regular	12000-420-22400 (5CPC)
Associate Professor (Asst. Prof. is Re-designated)	Mechanical, AEC	01/01/2006	16/03/2017	Regular	37,400 – 67,000, AGP Rs. 9,000/-
Professor	IPE Dept. (Attached with Mechanical engineering Dept.)	17/03/2017	Till date	4(d)	37,400 – 67,000, AGP Rs. 10000/-

10. Publications:**i. International Journal papers: 8**

Sl. No.	Title of the Articles	Name of the International Journal	Volume of the Journal & page nos.	Co-Author(s)
1	Computation of Turbulent Plane Plume Using the $k-\epsilon-t'^2-\gamma$ Model	Applied Mathematical modeling	Vol.24, Year of Publication 2000, pp 818-826,	Prof. Anupam Dewan, IITG Prof. Anoop Dass, IITG
2	Prediction of Turbulent Plane Jet in crossflow	Numerical Heat transfer- part A	Vol.41, Year of Publication 2002, pp 101-111	Prof. Anupam Dewan, IITG Prof. Anoop Dass, IITG
3	Comparison of Three Buoyancy Extended Version of the $k-\epsilon-t'^2$ Model in predicting Turbulent plane plume	Applied Mathematical modeling	Vol. 28, Year of Publication 2004, pp 241-254	Prof. Anupam Dewan, IITG Prof. Anoop Dass, IITG
4	An experimental study of noise pollution in Gauhati University campus, Guwahati, Assam, India,	International journal of environmental sciences	Volume 3, No 5, PP- 1776- 1784, April-2013	Mr. Bhabananda Phukan
5	Steady State Characteristics of Finite Hydrodynamic Porous Oil Journal Bearing Under Turbulent Regime	International Advanced Research Journal in Science, Engineering and Technology	Volume 2, Issue 12, PP 143-147, December 2015,	Mrs. Kasturi Saikia,
6	“Analysis of ambient air quality in guwahati city – a case study”	International journal of engineering sciences & research technology	Issn: 2277-9655 , vol-5 (3), pp 436-443, april-2016	Mrs. Mitali gohain
7	“Emission Inventory of Vehicular Pollutants of Assam and Its Trend Analysis”	Modern Environmental Science and Engineering (ISSN 2333-2581),	Volume 2, No. 6, pp. 365-373, Academic Star Publishing Company, New York, NY 10024, June 2016	Gautam Dutta,
8	Assessment of Traffic Noise in Guwahati City, India.	International Research Journal of Engineering and Technology.	Vol. 04, Issue 04, April 2017	Mr. Sayeedul Islam

ii. International Conference papers: 4

Sl. No.	Name of Conference	Title of the Articles	Volume of the Journal & Page no.	Co-Author(s)
1	i) 4 th ISHMT-ASME Heat and Mass Transfer conference, 2000	Modeling of Turbulent Plane Plume	Conference Proceeding, 2000, Pp 495-500,	Prof. Anupam Dewan, IITG Prof. Anoop Dass, IITG
2	ii) 2 nd Int. conf.on Theoretical, Applied, Comp. and Exp. Mechanics, IIT Kharagpur, 2002	Numerical Study of Turbulent Plane Jets in Weak Crossflow	Conference Proceeding, 2002 (CD version)	Prof. Anupam Dewan, IITG Prof. Anoop Dass, IITG
3	iii) Symposium on Heat & Mass Transfer, IITG, 2003	Numerical Study of Turbulent Plane Jets in Strong Crossflow	Conference Proceeding, 2003 (CD version)	Prof. Anupam Dewan, IITG Prof. Anoop Dass, IITG
4	The international symposium on “ <i>Aspects of Mechanical Engineering and Technology for Industry</i> ” NERIST, Nirjuli-791109, Itanagar, Arunachal Pradesh, India.	An Investigation of Effectiveness of Mesua Ferrea L. Seed Cake as a Binder in Briquettes made from Rice Straw, Teak and Banana Leaves	Symposium proceedings Vol. II, ISBN: 978-93-83842-96-4, EXCEL INDIA PUBLISHERS, New Delhi-110067	Dr. D. K. Bora Mr. M. Saikia, Mr. B. Bikash, Mr. B. Sham

iii. National Conference papers: 6

Sl. No.	Name of Conference	Title of the Articles	Volume of the Journal & Page no.	Co-Author(s)
1	Proceedings of the 5th National Conference on Wind Engineering - 2009	Experimental and numerical simulation of the axisymmetric dry microburst	PP-194-197	K.K.Das, A.K.Ghosh,
2	All india seminar on “active and passive noise control” held at Guwahati on 13 & 14 th November-2009 and is published in the proceeding of the said seminar (pp 70-76).	“an experimental study To determine the sound pressure level At the foot hill of kamakhya”	Proceeding of the seminar (pp 70-76).	Mr. Sayeedul Islam

3	National Seminar on Petroleum Biotechnology and Bioenergy, 3-4 March, 2017, Tezpur University	“Feasibility study of pumpkin seed oil as a viable feed stock for biodiesel production”	proceeding of the seminar	Dr. D. K. Bora Mr. Bichitra Bikash,
4	Springer Proceedings in Energy,	Physico-chemical assessment of pumpkin seed oil as a viable feed stock for biodiesel production	ISBN: 978-981 – 10-6106-6, 2017	Dr. D. K. Bora Mr. Bichitra Bikash, Mr. N.D. Choudhury
5	National Seminar on “Wind Engineering: Prospects and Challenges”	Study of Traffic Noise Level in Guwahati City, India	proceeding of the seminar 8-9 th Feb. 2018	Mr. Sayeedul Islam
6	National Conference on Non Conventional Energy Harvesting Technology and Its Challenges	Development of Estimated and projected Emission of vehicular Pollutants in Assam and its Analysis from 2007 to 2020	Conference Presentation 17-18 Nov.-2017	Mr. Gautom Dutta

11. Awards/Prizes/Felicitations: 1

Felicitates by ‘The Institute of India (India)’ as Eminent Engineer’

12. Member of Professional Institutions: 2

Si. No.	Member Type	Name of organization	Period
1	FELLOW	The Institute of India (India)	Life Time
2	Life Member	Indian Society for Technical Education	Life Time
3			

13. Member of Organizing Committee of Conference/Workshop:

Sl. No.	Name of Conferace/STC/Workshop	organization	Period	Position in Organizing Committee
1	Work shop on “Renewable Energy as a tool for Sustainable Development of Rural Areas of the N.E. India”	Assam Engineering College (MED)	18-19 May-2007	Course Coordinator
2	One Week Short Term Course on: “Introduction to Numerical Computation and Experimental Mechanics (INCEM2014)”	Assam Engineering College (MED)	9 to 13 th Dec.-2014	Course Coordinator
3	International Workshop on “Wind Engineering- Prospects and Challenges”	AssamEngineering College (MED & CED)	23 Feb. 2013	Vice-Chairman
4	National Conference on No Conventional Energy Harvesting Technology and Its Challeges	Assam Engineering College (MED & ChED)	17-18 Nov. – 2017	Program Chair
5	One Day Seminer on “Environment, Air Pollution and Noise”	Assam Engineering College (MED)	23 rd Feb.2018	Course Coordinator

14. Post Graduate Thesis guided: 11

Sl.No	Student Name	Title of the Project	Year	Co-Guide
1	Mr. Gautam Barman	An Experimental Study of Temperature Distribution for Different Types of Fin Profiles	2007	
2	Sayedul Islam	An Experimental Study to Determine the Sound Pressure Level at the Foot Hill of Kamakhya	2008	
3	Mr. Pallav Gogoi	Detection of Fluoride in Ground Water of Guwahati by LASER	2014	
4	Miss Banita Tumungpi	Feasibility Study to Establish a Jute Industry in the Dhubri District of Assam	2011	
5	Mr. Soumyabrata Bhattacharjee	Numerical Analysis for Laminar Flow Past a Flat Plate	2012	
6	Mr. Bhabananda Phukan	An Experimental Study of Noise Level in Gauhati University Campus	2012	
7	Miss Mitali Gohain	An Experimental Study of the Ambient Air Quality and Analysis of Air Pollutants in Guwahati City	2014	

8	Mr. Dhanjit Das	Numerical Computation of 2-D Incompressible Flow in the Primitive Variable Form by SIMPLE Algorithm inside a Lid Driven cavity	2014	Mr. Jitul Baruah
9	Miss Kasturi Saikia	Steady State Characteristics of Finite Hydrodynamic Porous Oil Journal Bearing Under Turbulence Regime	2015	
10	Miss Dimple Duarah	Steady State Characteristics of Finite Hydrodynamic Porous Oil Journal Bearing With and Without Velocity Slip Under Turbulence Regime	2016	
11	Mr. Aaqib Javed	Effects of Operating Parameters on the Efficiency of Gas Turbine – A Case Study	2017	Dr. p. Kakoti

15. PhD Thesis guided: 2

Sl. No	Degree	Name of the Student	Title of the Thesis	Date of Award	University/Institute
1	PhD	Mr. Gautam Dutta	Estimation of Vehicular Emission Inventories of Assam and Air Quality Prediction along the N.H. 37 in Kaziranga National Park Due to Vehicular Traffic.	01.09.2017	Gauhati University
2	PhD	Md. Sayeedul Islam	Noise Level Assessment: A Case Study in the City of Guwahati, Assam, India	03.07.2018	Gauhati University

16. Interaction with Outside World

i. Joint venture with National Level organization/University: Academic

Sl. No	organization	Particulars	Period	Remarks
1	National Institute of Technology, Mizoram	External Faculty	August-2015	
2	Scholar's Institute of technology & Management, Guwahati – 35	Guest Faculty	Sept. – Nov.'2016	
3	Assam Science and Technology University, Guwahati	Guest Faculty	August- Nov.-2016	
4	Royal School of Engineering, Guwahati	External Examiner	May-2015	
4	North Eastern Regional Institute of Science & Technology (NERIST) Itanagar, AP	Paper setter, NERIST Entrance Test	2016	
5	North Eastern Regional Institute of Science & Technology (NERIST) Itanagar, AP	PhD. Thesis Evaluator	2018	

ii. Joint venture with National Level organization/University: Administrative

Sl. No	organization	Particulars	Period	Remarks
1	AICTE	Expert to Visit Institute, RIST, Meghalaya	March-2018	
2	AICTE	Expert Verification Committee member (EVC)	April-2017	
3	Principal Accountant General (Audit), Assam	Member of State Audit Advisory Board	2 years wef 26/10/2009	Nominated by AG (Audit), Assam
4	Principal Accountant General (Audit), Assam	Member of State Audit Advisory Board	2 years wef 25/04/2012	Nominated by AG (Audit), Assam
5	Election Commission of India	Presiding Officer in polling stations for various Lok sabha and Vidhan Sabha Elections.		
6	MHRD, Statistic Division	In the Project "All India survey of Higher Education	2014-15 2015-16	
7	Assam Public Service Commission	Subject Expert for recruitment of Asst. Prof. for Govt. Engg. Colleges	July-2016	Nominated by Govt. of Assam
8	Gauhati University	Member of Faculty of Engineering		

iii. Government of Assam: Administrative

Sl. No	organization	Particulars	Period	Remarks
1	Directorate of Technical Education, Govt. of Assam	Chairperson, Counseling & Admission to State Engg. Colleges	For the yr. 2018	
1	Directorate of Technical Education, Govt. of Assam	Counseling Duty for Admission in to Engineering colleges of Assam	1 week	
2	Directorate of Technical Education, Govt. of Assam	Zonal officer for PAT	2 days	
3	Directorate of Technical Education, Govt. of Assam	Selection Committee members for the post of Instructor etc.	Feb.'2005	Nominated by Govt. of Assam
4	Golaghat Engineering College	Finalization of requirements of Books, equipment etc.	6/3/2018 On wards	Nominated by Govt. of Assam

17a. Total Short Term Course (STC) attended: 17

Sl. No	Name of the Course	Institution/ Organization	Date/ Month/ Year	Duration in Weeks	Sponsoring Agency
1	“Enhancement of Teaching Skills”(Technical Teachers’ Training Institute)	TTTI, Kolkata	25 th to 29 th Aug. 2003	1 week	MHRD,GoI
2	“Energy Conservation Practices”	IIT, Guwahati	12 th to 17 th July 2004	1 week	QIP, MHRD
3	“Design and Manufacturing of Composite Materials	IIT, Guwahati	6 th to 10 th Dec. 2004	1 week	QIP, MHRD
4	Non-Conventional Sources of Energy (held at National Institute of Technical Teachers’ Training and Research ,Kolkata)	(NITTTR), ,Kolkata	18 th to 22 nd July 2005	1 week	MHRD, GoI
5	Fuels and Combustion Technology	IIT, Guwahati	5 th to 9 th Dec. 2005	1 week	QIP, MHRD
6	Mechanical Engineering Education	IIT, Guwahati	7 th – 11 th Dec. 2009	1 week	AICTE, New Delhi
7	Hydroelectric Power Development	IIT, Guwahati	5 th – 9 th Dec. 2011	1 week	AICTE, New Delhi
8	Applications of Lasers in Manufacturing	IIT, Guwahati	24 th – 28 th June, 2013	1 week	AICTE, New Delhi
9	Fluid Power System	NITTTR, Kolkata	24 th – 28 th Nov. 2014	1 week	MHRD, GoI
10	Introduction To Numerical, Computational and Experimental Mechanics	AEC, Guwahati	9 th – 13 th Dec. 2014.	1 week	AICTE-NEQIP
11	Recent Trends in Power Engineering and Management	AEC, Guwahati	19 th – 23 th Jan. 2015.	1 week	AICTE-NEQIP
12	Environmental Impact Assessment: A Tool for Sustainable Development	AEC, Guwahati	9 th – 13 th Feb. 2015.	1 week	AICTE-NEQIP
13	Advances in Renewable Energy and its Applications	AEC, Guwahati	7 th – 11 th March.2016	1 week	AICTE-NEQIP
14	Noise and Vibration Control	IIT, Guwahati	4 th – 8 th Dec. 2017	1 week	SERB, India
15	TEQIP III - Faculty Induction Workshop	IIT KGP	3 RD - 7 TH JULY-2018	1 Week	
16	“Engineering Materials and Design”	IISc, Bangalore	11-22 Dec.1989	2 Weeks	MESW, GoI
17	Advances on Water Pollution Control	Assam Engineering College	20.1.1997 - 2.2.1997	2 Weeks	AICTE

17b. Total Conference/Workshop/Seminar attended: 9

Sl. No	Name of the Course	Institution/ Organization	Date/ Month/ Year	Duration in Weeks	Sponsoring Agency
1	Renewable Energy as a tool for Sustainable Development of Rural Areas of the N.E. india	Assam Engineering College (AEC), Guwahati	18 th – 19 th May 2007	2 days	RuTAG-NE (IITG)
2	“Use and Deployment of Web and Video Courses for Enriching Engineering Education”	IIT, Guwahati	23 rd – 24 th Aug. 2009	2 days	Joint venture of IITG, IIT KGP, IITK
3	Wind Disasters Problems – Challenges Ahead	RGI, Guwahati	21 & 22 Feb. 2013	2 days	Indian Society of Wind Engineering
4	Regional Seminar cum Workshop on Pedagogy	AEC, Guwahati	4 th April, 2013	1 day	IIT KGP, Under Pedagogy Project
5	National Conference on Challenges in Environmental Research	IITG	4-6 June-2015	2 days	IITG
6	Green Energy – Prospect and Challenges	ASTU, Jalukbari, Ghy.	26 th – 27 th April 2016	2 days	ASTU
7	“Cross-Cultural Analysis and Capacity Building in Construction Management Practices on Housing and Infrastructure Sectors in Assam and Australia”	AEC, Guwahati	13 th – 16 th Dec. 2016	4 days	University of Melbourne, Australia and Assam Engineering College
8	National Seminar-Wind Engineering	PCPS Girls’ poly. Guwahati	8 – 9 Feb.-2018	2 days	ISWE
9	National Workshop on “Solar Energy Application for Rural Development”	Annamalai University, Tamilnadu	11-22 Dec.1987	2 Weeks	