

BIO-DATA

1. NAME : **DR. PLABON KAKOTI**

2. FATHER'S NAME : Late Mohini Prasad Kakoti

3. DATE OF BIRTH : 5th September 1963

4. ADDRESS:

a) Permanent : Lane: G, Milan Nagar
Dibrugarh – 786 003, Assam, India

b) Residential : B- 404, Subham Enclave, Lakhimi Nagar
Hatigaon Road, Guwahatin – 781 038

c) Office & Mailing : Professor
Mechanical Engineering Department
Assam Engineering College
Jalukbari, Guwahati, Assam – 781 013
India

d) Phone Number : 94350 91413 (M), 9678555701 (M)

e) Email : plabonk@gmail.com

5. PRESENT POSITION HELD : Professor
Mechanical Engineering Department
Assam Engineering College
Jalukbari, Guwahati, Assam – 781 013
India

6. EARLIER POSITIONS HELD:

1. Lecturer, Mechanical Engineering Department, Assam Engineering College, Guwahati – 781 013 (March 1987 to December 1987)
2. Assistant Engineer, Operations Division, Namrup Thermal Power Station, Assam State Electricity Board, Namrup (December 1987 to December 1988)
3. Lecturer, Mechanical Engineering Department, Jorhat Engineering College, Jorhat – 785 007 (December 1988 to August 2005)
4. Associate Professor, Mechanical Engineering Department, Jorhat Engineering College, Jorhat – 785 007 (August 2005 to January 2013)
5. Associate Professor, Mechanical Engineering Department, Assam Engineering College, Jalukbari (February 2013 to December 2014)
6. Officer on Special Duty, Directorate of Technical Education, Government of Assam (January 2013 to January 2016)

7. AREAS OF INTEREST : Quality Engineering, Total Quality Management, Machine Design, Industrial Engineering and Management

8. COURSES TAUGHT :

UG Level:

1. Machine Design
2. Statistical Quality Control
3. Total Quality Management
4. Industrial Organization
5. Power Plant Engineering
6. Engineering Mechanics
7. Quality Engineering

PG Level

1. Quality Engineering (ME)
2. Total Quality Management (ME)
3. Project Management (ME)
4. Value Engineering (MBA)
5. Technology Management (MBA)
6. Strategic Technology Management (MBA)
7. Computer Assisted Management (MCA)

8. EDUCATIONAL PROFILE:

Examination	Institution/Board/University	Year	% of Marks		Division/Class	Remarks	
High School Leaving Certificate Examination	Dibrugarh Govt. Boys' H.S. School/ Board of Secondary Education, Assam	1978	74.47		1 st Division	Letter Marks in Mathematics & Advanced Mathematics	
Pre-University (Science) Examination	Cotton College/ Gauhati University	1981	71.11		1 st Division		
B.E. (Mechanical Engineering)	Assam Engineering College/ Gauhati University	1986	1 st Semester	62.00	Overall % = 73.64	1 st Class	Awarded Honours by University
			2 nd Semester	59.92			
			3 rd Semester	64.09			
			4 th Semester	67.82			
			5 th Semester	74.58			
			6 th Semester	73.92			
			7 th Semester	75.50			
			8 th Semester	74.73			
M. Tech. (Industrial Engineering & Management)	Indian Institute of Technology, Kharagpur	1992	1 st Semester	8.20	CGPA = 8.86	No System of Awarding Class or Division	
			2 nd Semester	8.79			
			3 rd Semester	9.15			
			Thesis : 'Rehabilitation Measures: A Sick Industrial Unit' Guide : Dr. M. K. Kolay, IIT, Kharagpur				
Ph.D.	Tezpur University	2006	Title of Thesis: <i>Implementing Total Quality Management (TQM) Principles in Tea Industry: Investigation & Critical Analysis</i> Guided by: Dr. (Late) Madhab Chandra Bora, Tezpur University Dr. Parimal Bakul Barua, Jorhat Engineering College				

9. INVOLVEMENT IN OTHER ACTIVITIES:

Academic:

- 1) Served as a Member of Syllabus Preparation Committee in the Preparation of the Syllabus for the UG Course in Mechanical Engineering, Tezpur University
- 2) Involved as an active member in the Process of Concept Development, Design and Initiation of the PG Course in Production & Industrial Engineering in Jorhat Engineering College, Assam
- 3) Constantly involved as an Examiner/Setter of State Public Service Commission
- 4) Constantly involved as an External Examiner of Agricultural Engineering Courses of Assam Agricultural University
- 5) Involved as Assistant Coordinator of PG Course of Jorhat Engineering College
- 6) Acted as Assistant Coordinator of ISTE Sponsored STTP at Jorhat Engineering College
- 7) Guided more than 100+ UG Projects on various problems on Mechanical Engineering
- 8) Guided 20+ PG (M. Tech.) level projects on Production & Industrial Engineering
- 9) Involved as a Visiting Faculty in Business Administration Department of Tezpur University
- 10) Involved as External Examiner in PG and UG Project Examination at Assam Engineering College, GIMT, Guwahati
- 11) Involved as Member, Technical Support Group of Assam State Higher Education Council under RUSA (Rastriya Uchchattar Siksha Abhijan)
- 12) Member of BOS, Mechanical Engineering of Assam DonBosCo University, Assam
- 13) Member of BOS, Mechanical Engineering of Kaziranga University, Assam
- 14) Coordinator of NBA of Mechanical Engineering Departmental of Assam Engineering College since 2019

Non- Academic:

- 1) Served as Training and Placement Office of Jorhat Engineering College for 4 years
- 2) Acted several times as Chairman of Selection Committee for selecting Technical Research Assistants in Regional Research Laboratory, Jorhat under CSIR
- 3) Acted several times as Member of Selection Committee for selecting Technical Personals in Grade III, IV & V in Regional Research Laboratory, Jorhat under CSIR and Institutions under Directorate of Technical Education, Assam
- 4) Served as External Expert Member of Selection Committee for Internal Promotion of Technical Employees of Regional Research Laboratory, Jorhat under CSIR
- 5) Served as Field Assistant in the Socio-Economic Survey of the Plain Tribes off Assam under *Development Alternatives*, New Delhi for a period of three months
- 6) Conducted In-House Training Programmes on Quality & Productivity Management in Oil India Limited & Oil & Natural Gas Corporation Limited
- 7) Served as Superintendent of a Boys' Hostel of Jorhat Engineering College for the period August 1993 to January 2013
- 8) Served as Secretary, Jorhat Engineering College Bus Service for last nine years
- 9) Guided the Project Team in the development of the present Web-Site of Jorhat Engineering College
- 10) Conducted State Level Engineering Admission Test (CEE) as Member Secretary under Directorate of Technical Education in 2017

10. COMPUTER PROFICIENCY: Working experience in Windows environment, MS Office, Visual Basic, Object-oriented Programming with C++

11. MEMBERSHIPS:

Member, Technical Support Group (TSG) of Assam State Higher Education Council (ASHEC) under RUSA (Rastriya Ucchattar Siksha Abhijan)

Life Member, Indian Society of Technical Education, New Delhi

Member, Institution of Engineers (India), Kolkata

Life Member, Indian Association of Productivity, Quality & Reliability (IAPQR), Kolkata

Life Member, People for Animals, New Delhi

12. SHORT TERM COURSES ATTENDED:

1. MHRD, Government of India sponsored course on- *Robotic Systems: Design & Applications* , Mechanical Engineering Department, IIT, Kharagpur, 21-26 August, 1989
2. Bureau of Indian Standard (BIS) imparted Course on *Indian Standards*, Organized by Jorhat Engineering College, 12-15 September 1994
3. ISTE/AICTE Sponsored Course on – *Quality, Quality Management* – Recent Trends, at Jorhat Engineering College, 17-28 July 2000
4. AICTE Sponsored Course on - *Entrepreneurship Awareness and Quality Improvement*, Organized by Nodal Centre for Entrepreneurship and Management Development, HRHPOWIET at Jorhat Engineering College, 9-14 April, 2001
5. MHRD, Government of India Sponsored Course on '*Educational Technology*' by Technical Teachers' Training Institute, Eastern Region, Kolkata, 21-25 May, 2001
6. MHRD, Government of India Sponsored Course on- '*Awareness Programme on Intellectual Property Rights & Patents for Capacity Building*'- Organized by IIT, Guwahati, 15-17 September 2006

7. MHRD, Government of India Sponsored Course on '*Advances in Manufacturing*' at NITTR, Kolkata, 14-25 January, 2013
8. AICTE Sponsored Course on '*Introduction to Numerical, Computational & Experimental Mechanics (INCEM 2014)*', Mechanical Engineering Department, Assam Engineering College, 9-13 December 2014
9. AICTE Sponsored Course on '*Recent Trends in Power Engineering & Management*', Electrical Engineering Department, Assam Engineering College, 19-23, January 2015
10. Govt. of Assam sponsored *Workshop on Smart Villages*, organized by University of Melbourne, Australia and AEC during Dec 4- 7, 2017
11. Govt. of Assam sponsored *Workshop on Construction Management*, organized by University of Melbourne, Australia and AEC during 27 November to 2nd December 2017
12. TEQIP III sponsored FDP on *Non-Convention on Non-Conventional Energy* organized by AEC during 17 November to 18th November 2017
13. TEQIP III AICTE Sponsored FDP on *Education Technology* organized by IIT, Kharagpur, July 3-7, 2018
14. TEQIP III sponsored FDP on *Integration of Smart Grid and Renewable Energy Sources* organized by AEC during Nov 26-30, 2018
15. TEQIP III sponsored FDP on *Research Methodology & Pedagogy in Teaching Learning* organized by ASTU and Chemical Engg, AEC during May 20-31, 2019

13. INDUSTRIAL EXPERIENCE:

Organization : Namrup Thermal Power Station, Assam State Electricity Board

Position Held : a) Assistant Engineer, Operations Division
b) Assistant Engineer, T&T Division

Duration : 1 year (December 1987 to December 1988)

Nature of Job : a) Operation of 30 MW BHEL Make Steam Turbine
b) Operation of 15 MW BHEL Make Waste Heat Turbine

14. ADMINISTRATIVE EXPERIENCE:

a) Office Administration:

Served as *Officer on Special Duty* at *Directorate of Technical Education, Government of Assam* (January 2013 to January 2016) and involved in:

- i) Project Preparation of 21 New Polytechnic Institutions of Assam and 4 New Engineering Colleges of the State
- ii) Course and Syllabus Preparation of 6 Community Polytechnic Institutions of the State
- iii) Coordinating Tie -up activities of Government of Assam and Curtin University, Australia
- iv) Coordinating various State Level Entrance Examinations like CEE (Combined Entrance Examination), PAT (Polytechnic Admission Test), JLEE (Joint Lateral Entrance Examination), JMEE (Joint MCA Entrance Examination) and Recruitment Examinations

b) Student Administration:

Served as Superintendent of a Boys' Hostel of Jorhat Engineering College for the period August 1993 to January 2013

15. DETAILS OF PUBLICATIONS/ CONFERENCE PAPERS/SEMINAR PAPERS:

1. '*New Industrial Policy – Role of Engineers*' – State Level Seminar on NIP – Role of Engineers, Assam Oil Division, Digboi, September 1994

2. *'Development of a Software for Control Chart for Variables (QCVAR)'* – Industrial Engineering Journal, Indian Institute of Industrial Engineering, August, 1995
3. *'Journey of Quality'* –National Conference on Quality Management, PSG College of Engineering, Coimbatore, May 1994
4. *'Use of Indigenous Technology for Development'*, Regional Research Laboratory, Jorhat, September, 1995
5. *'Factors Affecting Performance of Indian Small Scale Industries'*- State Level Seminar on 'Indian Small Scale Industries in Global Scenario', Organized by Institution of Engineers (India) held at Oil India Limited, Duliajan, September 2002
6. *'Supply Chain Connectivity for Achieving World Class Manufacturing Systems'*- National Conference on Advanced Manufacturing Systems, Jadavpur University, March 2003
7. *'A Study on Energy Consumption in Tea Processing- Need for its Optimization'*- National Conference on 'Energy Management to meet the Challenges of Energy Requirements' (NCEM-2004), Kumaraguru College of Technology, Coimbatore, 15-17 July 2004
8. *'Non- Process Factors Affecting Quality of Made Tea'*- National Conference on 'Quality Improvement in Food Processing: Role of Science & Technology (NCQIFP)'- Indian Association for Productivity, Quality & Reliability, Kolkata, January 2007
9. *'Processing Factors Affecting Quality of Made Tea'*- National Conference on 'Quality Improvement in Food Processing: Role of Science & Technology (NCQIFP)'- Indian Association for Productivity, Quality & Reliability, Kolkata, January 2007
10. *'Sickness in Indian Scale Scale Industries- The Quality Factor'*- UGC Sponsored All India Seminar on 'Emerging Trends of Small and Medium Enterprises in Generating Employment in NER' , September 27-28, 2008, CKB Commerce College, Jorhat
11. *'New Industrial Revolution to Save Planet Earth – The Need of the Hour'*- All India Seminar on 'Carbon Management for Sustainable Environment', 16/11/2013 at Oil India Limited, Duliajan
12. Bhuyan M, Deb S.K., Kakoti P, "Multi Criteria Decision Making for Facility Location Selection: A Case Study for Establishing Healthcare Facility", International Journal of Manufacturing, Industrial & Management Engineering Volume 2, Number 1 (2014), pp.59-70
13. Hazarika D P, Kakoti P, Deb S K; *"Energy Recovery from the Waste Air Available in the Withering Trough under Tea Manufacturing Process"*; Souvenir Cum Technical Volume, All India Seminar on Recent Trends in Mechanical Engineering, Organised by The Institution of Engineers (India) Assam State Centre, 21-22 October, 2016, Page 66—69
14. Dutta A.K., Kakoti P, Deb S K; *"Identifying Cost Factors of Black Tea Manufacturing using Pareto and Ishikawa Diagram"* "; Souvenir Cum Technical Volume, All India Seminar on Recent Trends in Mechanical Engineering, Organised by The Institution of Engineers (India) Assam State Centre, 21-22 October, 2016, Page 95-100
15. Kakoti P, Barua P B, Deb S K; *"Development of a Performance Index for the Energy Management (SPIENG) of Tea Gardens using System Dynamics Causal Model"*, Souvenir, National conference on Non-conventional Energy: Harvesting Technology and its Challenges, Assam Engineering College, Guwahati ,17-18 October, 2017; , Page 6—17
16. Deb S K , Kakoti P; *"Opportunities on Energy Research under Smart City Initiation"*, Souvenir, National conference on Non-conventional Energy: Harvesting Technology and its Challenges, Assam Engineering College, Guwahati ,17-18 October, 2017; , Page 18-21
17. Kakoti P, Phukan A, Hazarika US, Hazariak R, Goswami TC, "An Analysis of Defects in Diesel Locomotives using Pareto Principle: A case study", 6th National Conference on Energy Efficient Mechanical Systems Design and Manufacturing (EMSDM 2019), 30th April 2019, PSG College of Technology
18. Dey Abhijit, Kakoti Plabon, "Development of an Index for Ranking of Electrodes in Shielded Metal Arc Welding Process", 2nd National Conference on Recent Advances in Science and Technology (NCRASST 2019), May 15 - 17, 2019, ASTU, Guwahati
19. Desringdi Maibangsa,&.Plabon Kakoti (2020), Development of an index for ranking of cement based on its quality characteristics. National Conference for Students "Advances in Mechanical Engineering", AEC, Guwahati-781013

20. Iqbal Mustaffa Jamal Choudhury, BarunBipllabGogoi&PlabonKakoti (2020), Utilization of rain water for producing electricity using nominal cost set up. National Conference for Students “*Advances in Mechanical Engineering*”, AEC, Guwahati-781013.
21. **P Kakoti** et al., An Analysis of Defects in Diesel locomotives using Pareto Principle: A case study. 6th National Conference on Energy Efficient Mechanical Systems Design and Manufacturing held at PSG college of Technology, Coimbatore, 2019

16. R & D PROJECTS UNDERTAKEN:

A.

- a) Title : Investigation of Factors Affecting Quality of Made Tea and Development of a Schedule for Implementation of Total Quality Management in Tea Gardens of Assam
- b) Responsibility : Investigator
- c) Sponsored by : Institution of Engineers (India)
- d) Completion Date : July 2007

B.

- a) Title : Development of an Actuator for Shedding Mechanism of Looms
- b) Responsibility : Co –Investigator
- c) Sponsored by : NPIU-MHRD
- d) Completion Date : April 2020

C.

- a) Title : Development of an Index for Ranking of Cement
- b) Responsibility : Investigator
- c) Sponsored by : TEQIP III, ASTU
- d) Completion date : September 2020

18. OTHER INTERESTS : Recitation, Table Tennis

I hereby declare that all the above information are true to the best of my knowledge and belief

(Dr. Plabon Kakoti)

Dated: Guwahati, the 9th December 2021