

CURRICULUM VITAE

Name : **BHASKARJYOTI DAS**

Father's Name : SRI Guru Prasad Das

Present Office Address : Department of Civil Engineering
Assam Engineering College
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Permanent Address : BHASKARJYOTI DAS
C/O SRI Guru Prasad Das
Bilartari Hati
P.O. & Dist.: Barpeta
State: Assam, INDIA.

✿ Personal Information:

Date of birth : 01-01-1970
Place of birth : Barpeta,Assam
Citizenship : Indian
Gender : Male
Marital status : Married
Spouse's name : Mrs.Anita Saikia
Children : Miss Mousumi Das
Passport No : H6311006

✿ Educational Qualification:

- Class 10th (1985) - High School Leaving Certificate Examination
Barpeta Govt.Higher Secondary School-Affiliated to Board of Secondary Education:
Assam, Guwahati.
Final score: 82% (1st Div. with star marks).
- Class 12th (1987): Cotton College-Affiliated to Assam Higher Secondary Education
Council: Assam, Guwahati.
Final score: 65% (1st Div.).
- Bachelor of Engineering (B.E.) in Civil Engineering (1992)
Assam Engineering College- Affiliated to Gauhati University

Final score: 74.13% (1st Class with Honours)

➤ Master of Engineering (M.E.) in Civil Engineering, Soil Mechanics (1998)
Assam Engineering College- Affiliated to Gauhati University

Final score: 75.42% (1st Class with Honours)

➤ Ph.D Scholar enrolled in the Department of Civil Engineering under Faculty of Engineering, Gauhati University

✿ Professional Career:

➤ Worked in Public Sector Bank, Union Bank Of India, Barpeta for one and half year (1996-1997).

➤ Date of joining/date of employment for the post of Lecturer, Civil Engineering Department in Assam Engineering College, Jalukbari, Guwahati-13 as per Govt. Notification No. TEC.245/95/112, Dated the 7th Aug, 1997: **18.08.1997**.

➤ Present Teaching/Academic Position in Civil Engineering Department, Assam Engineering College, Jalukbari, Guwahati-13: **Associate Professor**.

✿ Administrative Experience:

➤ Superintendent of Hostel no.3, Assam Engineering College, Jalukbari, Guwahati-13.

➤ Prof-In-Charge of Cricket Section, Assam Engineering College, Jalukbari, Guwahati-13.

➤ Member of Anti-Ragging Committee and Anti-Ragging Squad, Assam Engineering College, Jalukbari, Guwahati-13.

➤ Prof-In-Charge of SOVIC, a social responsibility cell of A.E.C.

✿ Attended Workshop/Training Programme:

1. ISTE Short Term Course on “*Geotechnical aspects in Design of Foundation Structures -Modern Trends*” held during March 20th to April 1998 at Assam Engineering College, Jalukbari, Guwahati.
2. NPEEE Short Term Training Programme on *Geotechnical Earthquake Engineering* held at I.I.T. Guwahati from 31st May to 4th June, 2004.
3. In-house Training Programme on *Soil Testing* organised by National Institute of Technical Teachers Training and Research, Kolkata from 01.11.2004 to 05.11.2004.
4. NPEEE sponsored one week short term training course on “*Soil Dynamics and Earthquake Engineering (SDEE 2005)*” organised by Department of Civil Engineering, I.I.T., Madras from 13th to 17th June 2005.
5. Six weeks training course on *Earthquake Engineering* under National Programme for Capacity Building of Engineers in Earthquake Risk Management sponsored by Ministry Of Home Affairs, Govt. of India. held in the Deptt. of Civil Engineering, IITG in two phases from 8th May, 2006 to 24th May, 2006 and 19th June, 2006 to 7th July, 2006.
6. 2-Day National Workshop on “*Use and Deployment of Web and Video Courses for Enriching Engineering Education*” under National Programme on Technology Enhanced Learning. The workshop was a joint venture of IITs Kharagpur, Kanpur and Guwahati and was held on 20th and 21st May, 2007 at IITG.
7. In-house Training Programme on *Question banking in Civil Engineering* organised by National Institute of Technical Teachers Training and Research, Kolkata from 24.09.2007 to 28.09.2007.

8. Short-term course on “*Computer Aided Traffic Engineering Analysis and Design*” held at IIT Guwahati,organised by Deptt.of Civil Engineering during 24 – 28 November,2008 under QIP,AICTE Sponsored Short-Term Course.
9. National Workshop on “*Use and Deployment of Web and Video Courses for Enriching Engineering Education*” under National Programme on Technology Enhanced Learning.The workshop was a joint venture of IIT Guwahati,IIT Kharagpur and IIT Kanpur and was held on 23rd and 24th August,2009 at IITG.
10. One –day long Workshop entitled “*Sensitization Workshop for Development of Location Specific R & D and Demonstrative Projects for SC/ST Domonated Locations*” , organised by College Development Council,Gauhati University,Assam and Assam Science Technology and Environment Council (ASTEC) AT Gauhati University.
11. One-day National Workshop on “*Ground Improvement Techniques with reference to North Eastern Region*” on 13th Oct,2012 organised by IGS,Guwahati Chapter (NE) in association with Department of Civil Engineering,Assam Engineering College.
12. National Workshop on “*Assessment & Mitigation in Liquefaction Hazards for Seismic Microzonation*” organised by The Indian Society of Eartquake Technology,in association with Dept.of Eartquake Engg.& Centre of Excellence in Disaster Mitigation and Management , IIT Roorkee on Nov.27 – 28,2015.
13. “*Faculty Induction Workshop*” organised by Continuing Education Cell,IIT Kharagpur from 3rd to 7th July 2018 under TEQIP III.

☼ **TEACHING EXPERIENCE AT UNDER GRADUATE LEVEL AND POST GRADUATE LEVEL (Since 1997):-**

The following courses have been taught since 1997 in The U.G.Programme (Civil) and M.E. Programme (Soil Mech.& Foundation Engg.).

➤ **Subjects Taught And Their Course Content In Brief- U.G.Programme (Civil)**

1. Building Materials and Surveying
2. Strength of Materials
3. Fluid Mechanics
4. Elements of Civil Engineering
5. Estimation and Valuation
6. Geotechnical Engineering
7. Transportation Engineering
8. Ground Improvement Technique
9. Environmental Geotechnical Engineering

➤ **Subjects Taught And Their Course Content In Brief- P.G.Programme (Soil Mech.& Foundation Engg.)**

1. Development of Soil Mechanics
2. Geotechnical Exploration and In-situ Testing
3. Earth and Rockfill Dam

☼ List of Research Papers /Publications:

1. “A Laboratory Study on CBR and Permeability properties of Sub-base materials using Polypropylene fibre as additive.” CESDOC 2016, AEC.
2. “PRACTICAL APPLICATION OF SOIL-CEMENT STABILISATION WITH REFERENCE TO GUWAHATI CITY” at 50TH INDIAN GEOTECHNICAL CONFERENCE, 17TH – 19TH DECEMBER 2015, PUNE, MAHARASHTRA, INDIA.
Bhaskarjyoti Das, Associate Professor, Department of Civil Engineering, Assam Engineering College, Guwahati-13.
3. “A study on correlation of some basic engineering properties of soils with easily determined soil parameters” at INDIAN GEOTECHNICAL CONFERENCE IGC-2010.
Bhaskarjyoti Das, Associate Professor, Department of Civil Engineering, Assam Engineering College, Guwahati-13.
4. “A COMPARATIVE LABORATORY STUDY ABOUT THE EFFECT OF POLYPROPYLENE FIBRE, FLY-ASH AND LIME ON CBR AND PERMEABILITY PROPERTIES OF SUB-BASE MATERIAL”; Indian Geotechnical Conference IGC 2016, 15-17 December 2016, IIT Madras, Chennai, India.
Bhaskarjyoti Das, Associate Professor, Department of Civil Engineering, Assam Engineering College, Guwahati-13, Tinku Kalita, M.E. Student.
5. “LABORATORY STUDY OF SOIL-CEMENT STABILISATION WITH REFERENCE TO GUWAHATI CITY” at International conference on Geo-Engineering and Climate change Technologies for Sustainable Environmental Management, GCCT-2015, October 9-11, 2015, MNNIT Allahabad, India.
6. “The effect of Polypropylene fibre and lime on CBR and Permeability properties of granular Sub-base material”. International Journal of Innovative Research in Science, Engineering and Technology, Vol.6, Issue 6, June 2017.
7. “Effect of fly-ash on strength behavior of clayey soil”. International Research Journal of Engineering and Technology (IRJET), Vol.04, Issue: 07 July -2017.
8. “A Study on the Relationship between Relative Density and Relative Compaction of Granular Soil”, IGS Conference.
Poly Buragohain and Bhaskarjyoti Das
9. A Laboratory study on effect of agricultural waste material on stabilization of soil: AICTE-NEQIP sponsored 2-day national conference-2018 (AICTE’18), Tezpur University.

➤ Some published paper guided and contributed by me :

* Duarah, A., Kashyap, A., Katuwal, K., Sarma, M., Borah, S., Chakrabarty, R. (2017) “Determination of Blackspot on National Highway-37(New NH-27), Assam”, *International Journal of Innovative Research in Science, Engineering and Technology*, Volume 6, Issue 4.

☼ LIST OF PROJECTS/THESIS/DISSERTATIONS SUPERVISED:-

➤ B.E. (UG) Students: 7th Semester - Completed

(Some Projects of 7th Semester Students guided and contributed by me):

1. "TRAFFIC VOLUME AND ACCIDENT ANALYSIS ON BASISTHA CHARIALI JUNCTION, GUWAHATI" (July 2016 –December 2016).
2. "CORRELATION BETWEEN CBR, COMPACTION AND PLASTIC PROPERTIES OF SOIL"-20.12.2008.
3. "STUDY OF TRAFFIC VOLUME AND SUGGESTIVE MITIGATION MEASURES FOR TRAFFIC CONGESTION IN GUWAHATI CITY"-2013-2017.
4. "TRAFFIC VOLUME AND ACCIDENT ANALYSIS ON BASISTHA CHARIALI JUNCTION, GUWAHATI"-2016-17.
5. "EFFECT OF GRAIN SIZE ON C.B.R.VALUE"-2009-2010.
6. "CORRELATION BETWEEN UNDRAINED SHEAR STRENGTH AND WATER CONTENT OF FINE GRAINED SOIL"-2011-2012.
7. "A STUDY ON EFFECT OF SAND CONTENT ON MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT OF FINE GRAINED SOIL"-2010-2014.
8. "TRAFFIC ACCIDENTS IN GREATER GUWAHATI –CAUSES AND PREVENTIVE MEASURES"-2015-16.

➤ **B.E. (UG) Students: 8th Semester- Completed**

(Some Projects of 8th Semester Students guided and contributed by me):

1. "DETAILED PROJECT REPORT OF THE ROAD FROM AEC HOSTEL-3 TO SAT MILE"-2016-17.
2. "PREPARATION OF DPR OF ROAD FROM HOSTEL-3 TO AEC UNION BUILDING"-2015.
3. "WIDENING OF ROAD STRETCH FROM JALUKBARI INTERCEPTION TO ASSAM ENGINEERING COLLEGE"2016-17.
4. "WIDENING OF ASSAM ENGINEERING COLLEGE ROAD"-2017.

➤ **Master Degree Students- Completed**

1. "A STUDY ON SOIL-CEMENT STABILISATION & ITS PRACTICAL APPLICATIONS" – JOYJEET BARMAN, Roll No: CE-13/02.
2. "CORRELATION BETWEEN ENGINEERING PROPERTIES AND INDEX PROPERTIES OF SOIL"-KAMPI SONOWAL, Roll No: CE-05/02
3. "A STUDY ON ENGINEERING BEHAVIOUR OF SOIL REINFORCED WITH PLASTIC WASTES"-JITU RAJ KALITA, Roll No: CE-13/03
4. "SOIL CONSERVATION: BIOLOGICAL AND AGRONOMIC MEASURES OF EROSION CONTROL"-3rd Sem Topic-DEVAYANI BORUAH, Roll No: CE-15/05.
5. "STUDY ON FINITE ELEMENT ANALYSIS OF PRECAST REINFORCED CONCRETE HOLLOW RIGID PAVEMENT"- Final Sem Topic-DEVAYANI BORUAH, Roll No: CE-15/05.
6. "A LABORATORY STUDY ON SUB-GRADE CHARACTERISTICS OF SAND-FLY ASH-LIME COMPOSITE"-JASMINA SAIKIA, Roll No: CE-14/15.
7. "THE STUDY OF COMBINED EFFECT OF HUMAN HAIR AND LIME ON CBR PROPERTIES OF SUBGRADE SOIL USED FOR THE DEVELOPMENT OF RAILWAY GOODS CIRCULATING AREA, PHASE-I AT AZARA"-KAMAL JEET SARMA, Roll No: CE-13/17.

8. "INFLUENCE OF GRAIN SIZE CHARACTERISTICS ON COMPRESSION BEHAVIOUR OF SOILS"-Mriganka Shekher Saikia, GU Registration NO-003295 of 2008-09.
9. "A COMPARATIVE LABORATORY STUDY ON CBR AND PERMEABILITY PROPERTIES OF SUB-BASE MATERIALS USING LIME AND POLYPROPYLENE FIBRES AS ADDITIVE"-TINKU KALITA, Roll No: CE-14/02.
10. "A STUDY ON PREDICTION ON CBR USING PLASTICITY AND GRADATION CHARACTERISTICS OF SOIL"-Bhargobi Chetia, Roll No: CE-11/25.
11. "A LABORATORY STUDY ON EFFECT OF AGRICULTURAL WASTE MATERIALS ON STABILIZATION OF SOIL"-Uttam Doley, Roll No: CE-16/15.
12. "A LABORATORY STUDY ON SOIL STABILIZATION USING BAGASSE ASH-LIME COMPOSITE"-Stuty Rekha Das, Roll No: CE-16/13.
13. "SOIL STRUCTURE INTERACTION ANALYSIS OF A HOLLOW RIGID PAVEMENT"-Partha Pratim Deka, Roll No: CE-16/05.
14. "WORK PROGRESS ON NATIONAL HIGHWAYS CONSTRUCTION PROJECTS IN INDIA, UP TO JUNE 2017"-M.E.3rd Sem Project by Uttam Doley, Roll No: CE-16/15.
15. "A STUDY ON SOIL CEMENT STABILIZATION"- M.E.3rd Sem Project by Partha Pratim Deka, Roll No: CE-16/05.
16. "A STUDY ON PERPETUAL PAVEMENT"- M.E.3rd Sem Project by Stuty Rekha Das, Roll No: CE-16/13.
17. "EXPERIMENTAL STUDY OF STABILIZATION OF SOIL BY USING POWDERED GLASS AND CEMENT AS BASE MATERIAL"-Rejaul Karim, Roll No: CE-15/07.

➤ **Master Degree Students- In Progress**

1. 'Laboratory Evaluation of Cement Stabilised and Modified Base Course Layer Treated with Nano Particles': Raja Sarkar, Roll No: CE/17/13.
2. 'Analysis of Soil Nailing using software': Bijoy Saikia, Roll No: CE/17/01.
3. 'Soil stabilisation using waste plastics as low cost method': Moumita Deka, Roll No: CE/17/06.
4. 'Soil stabilisation using Scrap Tire Rubber as a Low Cost Method': Goutam Moyong, Roll No: CE/17/14.

#Area of Specialisation: Geotechnical Engineering

☞ **Current Areas of Research Interests/Research Experience:**

- Soil Exploration
- Slope Stability Analysis
- Earth and Rockfill Dam study
- Ground Improvement Technique
- Alternate Pavement
- Highway Geometric Design
- Accident analysis and Road Safety
- Intelligent Transportation System

☞ MEMBER / OFFICE BEARER OF PROFESSIONAL BODIES/TECHNICAL COMMITTEES:-

- Life member of the INDIAN GEOTECHNICAL SOCIETY w.e.f. 4th January,2005 which is affiliated to INTERNATIONAL SOCIETY FOR SOIL MECHANICS AND GEOTECHNICAL ENGINEERING , my membership number is LM-2259.
- Life member of the INDIAN ROAD CONGRESS w.e.f. the year 2014, my membership number is LM-40547.
- Member as Technical Expert of State Technical Agency (STA), Prime Minister Gram Sadak Yojana (PMGSY). STA is involved in the scrutiny of Detailed Project Reports and Monitoring as per requirement for the roads being proposed to be taken up by the Assam State Public Works Department under PMGSY scheme, MoRD, Govt. of India.
- Nominated from Assam Engineering College as Technical Expert of the Panchayat & Rural Development ,Assam for carrying out field tests of the EBS Technology for confirmation and performance evaluation of the same and to derive specifications and standards for rural roads including methodology, design codes and standards for the technology.
- Life member of the Assam Engineering College Alumni Association, my membership number is 93-BE-1993.

☞ LIST OF CONSULTANCY PROJECTS (COMPLETED):-

Since its inception the Civil Engineering Department apart from providing engineering education, has also been providing technical services to various organizations/clients. A list of few of the works carried out by the Civil Engineering Department and involved by me is provided below:

1. Stability Analysis of Flood Protection Embankment for Proposed NEIFREM (ADB) Project at Dibrugarh, Assam.
2. Geotechnical Investigation for proposed North eastern integrated flood and river erosion management (NEIFREM) project at project sites of Pasighat, Roing, Miao and Daporijog in Arunachal Pradesh.
3. State Technical Agency (STA), Prime Minister Gram Sadak Yojana (PMGSY). STA is involved in the scrutiny of Detailed Project Reports and Monitoring as per requirement for the roads being proposed to be taken up by the Assam State Public Works Department under PMGSY scheme, MoRD, Govt. of India,
4. Authorized institute for vetting of Structural Design and Drawings as well as Geotechnical Reports for Guwahati Municipal Corporation and Guwahati Urban Development Authority (GMDA).
5. Detailed Geotechnical investigation for Microzonation of Guwahati, DST, GoI,
6. Detailed soil investigation report of proposed Nalbari Engineering College, Government of Assam.
7. Detailed soil investigation report of proposed Udalguri Engineering College, Government of Assam.

8. Detailed soil investigation report of proposed Nagaon Engineering College, Government of Assam.
9. Geotechnical and Geological investigation at Tenga Dam, NEEPCO, Arunachal Pradesh.
10. Geotechnical and Geological investigation at Bishom Dam, NEEPCO, Arunachal Pradesh.
11. Geotechnical investigation of proposed 100 bedded hospital at Naharlagun, Arunachal Pradesh tested on behalf of HSCC (India) Ltd.
12. Geotechnical Investigation for proposed 1st CNG station at Dibrugarh Town, Assam tested on behalf of Assam Gas Company Limited (AGCL), Duliajan
13. Field compaction test for 132/33 kV substation at Seppa, Arunachal Pradesh on behalf of POWERGRID.
14. Field compaction test for 132/33 kV substation at Pasighat, Arunachal Pradesh on behalf of POWERGRID.
15. Geotechnical investigation for proposed multistoried Building at Haflong tested on behalf of Executive Engineer (Agri), Dima Hassao Division, Haflong.
16. Determination of Bearing Capacity of Soil at AGCL Industrial Area, Duliajan, Assam.
17. Geotechnical investigation for proposed development of Integrated Check Post at Dawki (Meghalaya) along Indo-Bangladesh Border tested on behalf of RITES Limited.
18. Geotechnical Investigation for Sewage Treatment Plant, Assam Rifles at Jorhat, Assam, Tested on behalf of NPCC, GoI Enterprise.
19. Geotechnical Investigations for MR-Accommodation for 3 Workshop, Assam Rifles Rifles at Jorhat, Assam, Tested on behalf of NPCC, GoI Enterprise.
20. Slope stability analysis of site located at Devkota Nagar, West BOragaon, Maligaon, Guwahati for Mr Rabi Sapkota
21. Geotechnical investigation for the construction of proposed Pragjyoti Textile Park at Sipajhar, Darrang, Assam
22. Stability analysis of B/Dyke along L/B of river Brahmaputra from Dhing to Hilloikhunda (Extension of embankment from Pabahakati to Kasasila hill) at Morigaon, Assam.
23. Geotechnical testing for clients. Clients include
 - a. IOCL.
 - b. Bharat Electronics Limited,
 - c. AGE B/R-I, Narengi
 - d. NHIDCL
 - e. Brahmaputra Board
 - f. HSCC (India) Ltd.
 - g. N.F.Railway
 - h. PMO, DRDO, MoRD
 - i. AGE, B/R-I(P)(AF), Hasimara
 - j. AGM, Shilling Airport
 - k. STUP Consultants Private Limited.

- l. Airport Authority of India
- m. Public Works Department, Govt. of Assam
- n. Water Resource Department, Govt, of Assam
- o. National Highway Authority of India
- p. NEEPCO
- q. OIL
- r. NPCC
- s. L & T Ltd
- t. Vishal Infrastructure Limited.

☼ LIST OF SPONSORED RESEARCH PROJECTS (COMPLETED):-

➤ MODERNISATION OF TRANSPORTATION ENGINEERING LABORATORY UNDER THE MODERNIZATION and REMOVAL of OBSOLESCENCE SCHEME (MODROBS) for the year 2011-12.

☼ COUNTRIES VISITED: - U.S.A., THAILAND, BHUTAN.

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