



**Barnali Ghosh**

**ASSOCIATE PROFESSOR**

**DEPARTMENT OF CIVIL  
ENGINEERING**

## PROFILE

- Dedicated & Committed Faculty in Department of CIVIL ENGINEERING, with 18 years of experience in teaching UG & PG Students.
- Subjects Handled: Basic and Applied Geotechnical Engineering, Strength Of Materials, Structural Engineering, Engineering Mechanics, advanced Foundation Design, Ground Improvement Techniques etc.
- Skills: Conversant with Geotechnical finite element softwares like Geo-Studio, Plaxis etc. Good communication skills.

## CONTACT & LINKS

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[barnalighosh08@gmail.com](mailto:barnalighosh08@gmail.com)

**Linkedin**  
<https://www.linkedin.com/in/barnali-ghosh-41847423>

## EDUCATIONAL QUALIFICATIONS

B.E(Civil Engineering)- Tripura Engineering College ( Currently NIT Agartala)  
M.Tech (Soil Mechanics & Foundation Engineering)- Jadavpur University, Kolkata.  
Ph.D ( Persuing) – VTU, Belgaum

## PROFESSIONAL EXPERIENCE

Teaching Experience: 18 years  
Industry Experience:1year  
Total: 19 years

## INSTITUTION/DEPARTMENT RESPONSIBILITIES

- Part of Departmental NBA Accreditation Team
- Department Time Table Co-ordinator
- Department Internship and Seminar Co-ordinator
- Event Organiser for Department Level
- Facilitator for various events and activities

## RESEARCH AREA/SPECIALISATION/ RESEARCH GRANTS/ PROJECTS IF ANY

**Specialization:** Geotechnical Engineering, Geotechnical Earthquake Engineering.  
**Research Interest:** Geotechnical Earthquake Engineering, Earthen Dam, Finite Element Analysis.

## ACHIEVEMENTS/ACCOMPLISHMENTS/AWARDS/RECOGNITION/GUEST LECTURES DELIVERED

- Got best paper (silver) award at International Conference on Multidisciplinary Technologies & Challenges in Industry 4.0 held at **EAST POINT COLLEGE OF ENGINEERING AND TECHNOLOGY** on September 18-19, 2020.
- Completed 5 **NPTEL faculty development courses**  
Accreditation and outcome based Learning with 93% marks.  
Environmental Geotechnics with 62% marks  
Maintenance and Repair of concrete Structures with 86% marks  
Natural Hazards with 95% marks  
Engineering Seismology with 72% marks
- Department coordinator at International Conference on Multidisciplinary Technologies & Challenges in Industry 4.0 held at **EAST POINT COLLEGE OF ENGINEERING AND TECHNOLOGY** on September 18-19, 2020.
- Department coordinator at National Conference on Cost Effective Civil Engineering Practices for Rural and Urban Infrastructural DevelopmentIn held at **EAST POINT COLLEGE OF ENGINEERING AND TECHNOLOGY** on January 8-9, 2021.

## PUBLICATIONS/PATENTS/BOOKS

1. “Seismic Response study on Kaswati Dam” with Dr S. K. Prasad 'Virtual Conference on Disaster Risk Reduction-Civil Engineering for a Disaster Resilient Society' conducted by **NITK** during 15-20 March 2021. Paper Selected for publication in **Springer book Chapter**.
2. “Seismic Response Analysis of Fatehghadh Dam Using Plaxis” with Dr S. K. Prasad the International Conference on Multidisciplinary Technologies & Challenges in Industry 4.0 held at **EAST POINT COLLEGE OF ENGINEERING AND TECHNOLOGY** on September 18-19, 2020.
3. “ Seismic response analysis of Earth Dam using PLAXIS” with Dr S. K. Prasad at Indian Geotechnical Conference held at **SVNIT SURAT** on December 19-21, 2019 ( Paper no TH5-54). Paper Selected for publication in **Springer book Chapter**.
4. “FINITE ELEMENT ANALYSIS OF EARTH DAMS UNDER SEISMIC CONDITION” with Dr S. K. Prasad at Indian Geotechnical Conference held at **IIT Madras** on December 15-17, 2016 (Paper no 191)
5. “SLOPE STABILITY ANALYSIS BY FINITE ELEMENT APPROACH” with Dr S. K. Prasad at “International Conference on Infrastructural Development for Environmental Conservation and Sustenance” (INDECES 15), ACE, HOSUR 28-30 OCT 2015.
6. “Performance of rock – fill dams during Earthquake” with Dr S. K. Prasad at Indian Geotechnical Conference held at **IIT Delhi** on December 13-15, 2012( Paper no 831)
7. “ Evaluation of strength properties of GGBS based Geopolymer Concrete” with Srinisha K at “International Journal of Creative research Thoughts, Volume 8Issue 9, September 2020.”
8. “ Engineering and Agricultural Properties of Black Cotton and Red Sandy Soil” at “AMC Indian Journal Of Civil Engineering “ ISSUE NUMBER :2, JULY – DECEMBER 2019
9. “ STABILITY ANALYSIS OF SLOPES AND SEISMIC ANALYSIS OF EARTHEN DAM USING GEO STUDIO” WITH Ravi Chandra at “ International Journal of Trend in research and Development” Vol 3(4), Pages 424- 428 July – August 2016
10. “ SEEPAGE ANALYSIS AND SEISMIC BEHAVIOUR OF EARTHFILL DAM USING GEO STUDIO” with Pavan N at “International Journal of Civil and Structural Engineering Research”, Volume 4, Issue 1, pg 342-346, April 2016.
11. “IMPROVEMENT OF SOIL CHARACTERISTICS USING JUTE GEO-TEXTILE” with Dr V Ramesh and Rajarajeswari B Bibhuti, July2014 at “Internatio

## ASSOCIATION WITH PROFESSIONAL BODIES

- Life-time Member of Computer Society of India, Bangalore

nal Journal of Science, Engineering and Technology Research”.

12. “EXTRACTION OF BROMELAIN FROM PINEAPPLE WASTE” with Dr N. Lakshminarasimaiah and Rajarajeswari B Bibhuti June 2014 at “International Journal of Scientific and Engineering Research, Volume 5 Issue 6, June 2014.”
13. “ Photocatalytic Degradation Studies of Textile Industrial Effluent Using Nano Tungstate” with Lalana G C January 2021 at “ International Journal of Scientific Research in Civil Engineering” 2021 IJSRCE Volume 7 Issue 1 ISSN : 2456-6667
14. “ Flexural Strength of Geopolymer Concrete Beam Using GGBS” with Prince Kumar Giri at “ International Journal of Scientific Research in Civil Engineering” 2021 IJSRCE Volume 7 Issue 1 ISSN : 2456-6667

## PROFESSIONAL COURSES COMPLETED

- Completed one week online short term course on “FUNDAMENTALS OF CORROSION SCIENCE AND TECHNOLOGY” organized by **IIT INDORE** from 09 to 14 September, 2020.
- Completed 5 days online workshop on “Computational Geomechanics – theory and applications to Earthquake Engineering” organized by **NIT WARANGAL** during 24<sup>th</sup> to 28<sup>th</sup> August, 2020.