

## FACULTY PROFILE

<b>Faculty</b>	<b>Prof. Barnali Ghosh</b> <b>Associate Professor</b> East Point College of Engineering & Technology
	<b>Profile*</b>



	<p>Prof. Barnali Ghosh holds a Masters Degree in Soil Mechanics &amp; Foundation Engineering from Jadavpur University, Calcutta, BE degree in Civil Engineering from Tripura Engineering College ( Currently NIT Agartala). Pursuing Ph.D on “Seismic performance study of Earth Dams and Embankments”, with software application by Finite Element model analysis using Plaxis, Geo-studio.</p> <p>She has worked at Reva Institute Of Technology and Management and Sri Krishna School Of Engineering and Management and currently working as an Associate Professor in Department of Civil Engineering in East Point College Of Engineering and Technology, Bangalore.</p> <p>A dedicated, passionate teacher with 20 years of experience she has Successfully guided Sixteen M Tech scholars and has published more than 20 publications in Peer reviewed and refereed Journals, which are listed in SCOPUS indexed Journals and conferences.</p>
	<p><b>Publications</b></p> <p><b>Book Chapters</b></p> <p>1. “Seismic Response study on Kaswati Dam” , Published in “ Recent Advances in Earthquake Engineering” ( September, 2021). <b>Scopus Indexed.</b>  <a href="https://link.springer.com/chapter/10.1007/978-981-16-4617-1_22">https://link.springer.com/chapter/10.1007/978-981-16-4617-1_22</a>                  Publisher: <b>Springer Publication</b>, Year of Publication: 2021</p> <p>2. Seismic response analysis of Earth Dam using PLAXIS” Paper published in <b>Springer book Chapter</b> “Lecture Notes in Civil Engineering”, vol 138. (May, 2021). <b>Scopus Indexed.</b>  <a href="https://link.springer.com/chapter/10.1007/978-981-33-6564-3_39">https://link.springer.com/chapter/10.1007/978-981-33-6564-3_39</a>                  Publisher: <b>Springer Publication</b>, Year of Publication: 2021</p> <p>3. “ Liquefaction mitigation measures for weak subsoil of Earthen Embankments” Article in Press for publication in <b>Springer book Chapter</b> “Lecture Notes in Civil Engineering”</p>
	<p><b>Journals</b></p> <p>1. “Effects of Magnitude of Shaking and Vulnerability of Subsoil on the E xtent of Liquefaction of Earth Dam” article will be published in ”Journal of mines, metals &amp; fuels” Scopus Indexed, Informatics Publishing Limited and Books &amp; Journals Private Ltd</p>

2. “Rapid Determination of Moisture Content of soil using Microwave oven” at “AMC Indian Journal Of Civil Engineering” **Volume 6, Year 2023, Pages 7-14**
3. “Improvement of Black cotton soil using waste plastic bottle strips” at “AMC Indian Journal Of Civil Engineering” **ISSUE NUMBER :1, January – June, 2022**
4. “ Evaluation of strength properties of GGBS based Geopolymer Concrete” with Srinisha K at “International Journal of Creative research Thoughts, Volume 8 Issue 9, September 2020.”
5. “ Engineering and Agricultural Properties of Black Cotton and Red Sandy Soil” at “AMC Indian Journal Of Civil Engineering” **ISSUE NUMBER :2, JULY – DECEMBER 2019**
6. “ 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
7. “ 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
8. “Stability Analysis of Slopes and Seismic Analysis of Earthen Dams using Geo Studio” with Dr S. K. Prasad and Mr. Ravi Chandra at “International Journal of trend in research and development”, vol3 (4), July-Aug 2016.
9. “Seepage Analysis and Seismic Behavior of Earth Dam Using Geo-studio” with Dr S. K. Prasad and Mr. PAVAN N at “International journal of civil and structural engineering research”vol -4, issue 1, April 2016.
10. “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.”
11. “IMPROVEMENT OF SOIL CHARACTERISTICS USING JUTE GEO-TEXTILE” with Dr V Ramesh and Rajarajeswari B Bibhuti, July 2014 at “International Journal of Science, Engineering and Technology Research”.

#### **Conferences**

1. “ Seismic response study on Chang Dam” at Jnana Chilume conference, June 2022, Jain University.
2. “Evaluation of Seismic Response of Fujinuma Dam “with Dr S. K. Prasad the International Conference on Civil Engineering Trends and Challenges for Sustainability (CTCS-2021) on November 2021.
3. Presented a paper titled “Seismic Response Study on Kaswati Dam” in the 'Virtual Conference on Disaster Risk Reduction- Civil Engineering for a Disaster Resilient Society' conducted during 15-20 March 2021 at NITK.
4. Presented a paper at ICRAES-2022 at Ramaiah Institute of Technology conducted during 13-14 October 2022

5. “Seismic Response Analysis of Fatehgadh 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.
6. “FINITE ELEMENT ANALYSIS OF EARTH DAMS UNDER SEISMIC CONDITION” with Dr S. K. Prasad at Indian Geotechnical Conference, IIT Madras on December 2016(paper no – 191).
7. “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.
8. “Performance of rockfill dams during Earthquake” with Dr S. K. Prasad at Indian Geotechnical Conference held at IIT Delhi on December 13-15, 2012( Paper no 831)

#### **Achievements / Awards / Recognitions**

- Won the 1<sup>st</sup> prize on Quiz ( Cash prize of 4500/-) in three Day Online Training Programme on “Fundamentals of Disaster Management” organized by Research Studio, Department of Civil Engineering, VVCE and National Institute of Disaster Management, Ministry of Home Affairs, Government of India, New Delhi (15 Sep 2021 to 17 Sep2021)
- Best paper: 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
- Received grant of 6000/- from KSCST for UG students project titled “Utilisation of Microwave Oven for Rapid Water Content Determination of Soil” (2022)

#### **NPTEL Certification Course Completed**

- Accreditation and outcome based Learning with 93% marks. ( 11 weeks)
- Environmental Geotechnics with 62% marks( 12 weeks)
- Maintenance and Repair of concrete Structures with 86% marks( 12 weeks)
- Natural Hazards with 95% marks( 8 weeks)
- Introduction to Engineering Seismology with 72% marks( 12 weeks)
- Environmental Geotechnics with 62% marks( 12 weeks)
- Rural water resources Management with 82% marks ( 12 weeks)