| | |
|---|---|
| **Name** | **Dr. Shyamal Ghosh**  |
| **Designation** | Assistant Professor |
| **Academic Qualification** | PhD ,2019, IIEST, Shibpur, W.B., India.<br>M. E (Structural Engineering), 2012, BESU, Shibpur, W.B., India.<br>B.Tech. (Civil Engineering), 2010, Jalpaiguri Govt. Engineering College, W.B., India. |
| **Areas of Interest** | Structural Dynamics and Earthquake Engineering,<br>Reliability Analysis,<br>Structural Engineering,<br>Finite Element Analysis |
| **Work Experience** | Teaching : 1 year.<br>Research: 3 years in IIEST, Shibpur, W.B as SRF in a DST project. |
| **Teachings** | i) Advanced Structural Analysis<br>ii) Structural Dynamics and Earthquake Engineering<br>iii) Finite Element Analysis<br>iv) Design of R.C. Structures<br>v) Design of Steel Structures<br>vi) Structural Analysis<br>vii) Concrete Technology<br>viii) Mechanics of Solids |
| **List of Publications** | **Journal paper:**<br>1. Ghosh, Shyamal, Roy, A., and Chakraborty, S., "Support vector Ghosh, Shyamal, Atin Roy, and Subrata Chakraborty. "Support vector regression-based metamodeling for seismic reliability analysis of structures." *Applied Mathematical Modelling;* 64 (2018): 584-602.<br>2. Ghosh, S., Roy, A. and Chakraborty, S., "Kriging metamodeling-based monte carlo simulation for improved seismic fragility analysis of structures", *Journal of Earthquake Engineering*, (2019). |

| | |
|---|---|
| | 3. Ghosh, Shyamal., Chakraborty, S., "Simulation Based Efficient Seismic Fragility Analysis of Existing Structures", *Earthq and Struct;* 12(2017)569-581.<br>4. Ghosh, Shyamal, Swarup Ghosh, and Subrata Chakraborty. "Seismic reliability analysis of reinforced concrete bridge pier using efficient response surface method–based simulation." *Advances in Structural Engineering* (2018).<br>5. Ghosh, S., Ghosh, Shyamal., and Chakraborty, S. (2017). "Seismic fragility analysis in the probabilistic performance-based earthquake engineering framework: an overview," Int. J. Adv. Eng. Sci Appl. Math., Online https://doi.org/10.1007/s12572-017-0200-y.<br>6. Goswami, S., Ghosh, S., Chakraborty, S., "Reliability analysis of structures by iterative improved response surface method", *Structural Safety*; 60 (2016) 56–66.<br>**Book Chapter:**<br>1. Ghosh, Shyamal., Mitra, S., Ghosh, S. and Chakraborty, S., "Seismic Reliability Analysis in the Framework of Metamodelling Based Monte Carlo Simulation", IGI Global (2017).<br>**Conference papers:**<br>1. Ghosh, S., Ghosh, Shyamal., and Chakraborty, S., "Generation of Seismic Hazard Curve and Synthetic Ground Motion for the North Eastern Region of India for Performance Based Seismic Risk Assessment", the 6th Asia-Pacific Symp. on Structural Reliability and Its Appl, May 28-30, 2016, Shanghai, China.<br>2. Mukherjee, S., Ghosh, Shyamal., Ghosh, S., and Chakraborty, S., "Analytical seismic fragility analysis of existing building frame in the northeast India", Struct Eng Conv, CSIR-SERC, Chennai, INDIA. 21-23 Dec 2016.<br>3. Ghosh, S., Ghosh, Shyamal., Chakraborty, S., "Non-linear seismic response of structures under recorded, simulated and synthetic accelerograms for North Eastern region of India, 15th Symp on Earthq Engg, IIT Roorkee, Dec. 11-13, 2014, India.<br>4. Sarkar P.K.,Ghosh Shyamal., Chakraborty S., "An efficient responses surface method for seismic fragility analysis of existing building frame", 15th Symp on Earthq Eng, IIT Roorkee, Dec.11-13,2014, India. |
| **Award** | Prof. Amiya K Basu research award in structural dynamics |
| **Office Address** | Department of Civil Engineering, Cooch Behar Government Engineering College, Harinchawra, Ghughumari, Coochbehar, West Bengal 736170 |
| **Contacts** | **gh13shyamal@gmail.com** |