

DR. APARNA ROY



PERSONAL DETAILS

Date of Birth: 30. 10. 1978
Nationality: Indian
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Contact address: Department of Civil Engineering
University Institute of Technology, Golapbag(N),
Burdwan- 713104
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PRESENT STATUS

Assistant Professor, Department of Civil Engineering,
University Institute of Technology,
The University of Burdwan

ACADEMIC QUALIFICATION

Madhyamik Examination in 1994 from WBBSE
Higher Secondary Examination in 1996 from WBCHSE
B.E. in Civil Engineering from Jadavpur University in 2000
M.E. in Civil Engineering (specialization *Soil Mechanics and Foundation Engg*) from
Bengal Engineering College (D.U.), Howrah in 2002
Ph.D. in Civil Engineering from Indian Institute of Science and Technology, Shibpur,
Howrah in 2020.

TEACHING EXPERIENCE

Lecturer (Part-time) at M.B.C. Institute of Engineering & Technology, Burdwan from
July, 2003 to July, 2005
Lecturer at Kalna Polytechnic, Kalna, Burdwan from July, 2005 to April, 2009.
Assistant Professor in Civil Engg. at University Institute of Technology, University of
Burdwan from April, 2009 to till date.

RESEARCH

Project Associate in a project titled 'Soil-Structure interaction in Dynamic Behavior of
Elevated Tanks' funded by W.B.D.S.T. at Department of Applied Mechanics at Bengal
Engineering College (D.U.), Howrah from April'2002 to Sept'2002.
Project guide in the project 'Soil stabilization using Rice Husk Ash and Cement' with the
final year students of UIT, BU.

PUBLICATIONS (previously named as Aparna Mandal upto 2004)

Journals:

- Roy, R., Roy, A. and Bhattacharya, G. (2020). "Estimating seismic response of RC piers under uni-directional and bi-directional shaking: A mechanics-based approach", **Journal of Structural Engineering, ASCE**, 146(7), 04020113.
- Roy, R., Roy, A. and Bhattacharya, G. (2020). "Discussion on 'Combination rules used to account for orthogonal seismic effects: State-of-the-art review' by Jianze Wang, Henry V. Burton, and Kaoshan Dai", **Journal of Structural Engineering, ASCE**, 146(8), 07020011.
- Roy, A., Santra, A. and Roy, R. (2018). "Estimating seismic response under bidirectional shaking per uni-directional analysis: identification of preferred angle of incidence", **Soil Dynamics and Earthquake Engineering, Elsevier**, 106, 163-181.

4. Roy, A., Bhattachatya, G. and Roy, R. (2017). "Maximum credible damage of RC bridge pier under bi-directional seismic excitation for all incidence angles", **Engineering Structures, Elsevier**, 152, 251-273.
5. Roy, A. and Roy, R. (2015). "Seismic behavior of R/C elevated water tanks with shaft stagings: Effect of biaxial interaction and ground motion characteristics", **Advances in Structural Engineering, Springer**, 2(36), 1205-1215. *Presented in Structural Engineering Convention, (SEC-2014), Dec. 22-24, 2014, IIT Delhi.*
6. Roy, A. (2014). "Soil stabilization using rice husk ash and cement", **International Journal of Civil Engineering Research**, ISSN 2278-3652, 5(1), 49-54.
7. Dutta, S., Mandal, A. and Dutta, S.C. (2004) "Soil-structure interaction in dynamic behavior of elevated tanks with alternate frame staging configurations", **Journal of Sound and Vibration, Elsevier**, 277, 825-853.

Conferences:

1. Mukherjee, D. and Roy, A. (2017). "Soil stabilization using rice husk ash and lime", **Proceeding of International Conference on Modelling, computing and Technological innovations (ICMCTI-2017)**, March 23-25, 2017, University Institute of Technology, The University of Burdwan, India, 373-378.
2. Roy, A. (2013). "Soil stabilization using rice husk ash", **Proceeding of International Conference on Recent Trends in Engineering and Technology, (ICRTET-2013)**, March 15-16, 2013, Kodaikanal, India, 07-13.
4. Dutta, S., Mandal, A. and Dutta, S.C. (2002). "Effect of lengthening lateral period due to suit flexibility on elastic response of elevated tanks", **Proceeding of National Seminar on Role of IT in Fire and Disaster Management**, December 26-28, 2002, IPS Academy, Indore, 58-66.
5. Mandal, A., Dutta, S., and Dutta, S.C. (2002). "Assessing seismic torsional vulnerability of shaft -supported elevated tanks", **Proceedings of 12th Symposium on Earthquake Engineering (SEE 2002)**, December 16-18, 2002, IIT Roorkee, Roorkee.
6. Mandal, A. and Dutta, S.C. (2002). "Effect of soil structure interaction on dynamic characteristics of elevated tanks with alternate staging configuration", **Proceedings on National Seminar on Recent Challenges in Civil Engineering (RCCE-2002)**, June 21-22, 2002, Hyderabad, 207-223.
7. Mandal A., Dutta S., Dutta S.C. and Maitra D. (2002). "Effect of soil-structure interaction on dynamic characteristics of elevated tank with annual ring-type foundation", **Proceeding of National Seminar on Role of IT in Fire and Disaster Management**, February 23-24, 2002, IES, IPS Academy, Indore, 98-113.

COURSES ATTENT

1. UGC sponsored Faculty Induction Programme, 03.08.2020 to 10.09.2020, Human Resource Development Centre (HRDC), Jawaharlal Nehru Technological University Hyderabad.
2. AICTE recognized Short Term Course on "Managing Yourself", 03.10.2016 to 07.10.2016, NITTTR, Chandigarh.
3. AICTE recognized Short Term Course on "Advances in Modern Management Practices", 12.10.2015 to 16.10.2015, NITTTR, Chandigarh.
4. Management Development Programme on "Total Quality Management in technical and Higher Education", 05.08.2013 to 09.08.2013, UIT, BU.
5. Staff Development Programme on "Soft Computing", 01.07-2013 to 05.07.2013, UIT, BU.
6. Workshop on "Training and Facilitation: Essential Skills", 29.06.2013, British Council.

**ADMINISTRATIVE
RESPON-
SIBILITIES**

1. **In-Charge, Civil Engg**, University Institute of Technology, B.U. from April, 2012 to July, 2019.
2. **Nodal Officer**, Civil Construction & Environmental Unit, TEQIP Phase-II (Govt. of India) at UIT (BU).
3. Internal member of Moderation Board, BE Odd/Even semester Examination, UIT, BU.
4. Member, Faculty Council of UG Studies in Engineering and Technology (as In charge-CE), UIT, BU, April, 2012 to July, 2019.
5. Member, Faculty Council of PG Studies in Engineering and Technology, UIT, BU.
6. Member, Disciplinary Committee, UIT, BU.
7. Member, Formation of Rules and Regulations for Hostels, UIT, BU.
8. Member, Budget Committee (as In charge-CE), UIT, BU, April, 2012 to July, 2019.
9. Member, Girls' Hostel supervision Committee, UIT, BU.
10. Member, Placement Cell (as In charge-CE), UIT, BU, April, 2012 to July, 2019.
11. Member, Planning Cell (as In charge-CE), UIT, BU, April, 2012 to July, 2019.
12. Member, Academic Affairs and Research (as In charge-CE), UIT, BU, April, 2012 to July, 2019.
13. Member, Administrative Cell (as In charge-CE), UIT, BU, April, 2012 to July, 2019.
14. Organizer, FSD on Sensing, Computing and Control-Jan 20-15, 2014, UIT, BU.
15. Organizer, International Conference on Modelling, computing and Technological innovations (ICMCTI-2017), March 23-25, 2017, UIT, BU.
16. Member, Advisory Board, FOCUS, Departmental Magazine, UIT, BU.

External Member:

1. Member, Course Committee, Lifelong Learning, UIT, BU.
2. Member, Building committee, Balagarh Bijoy Krishna Mahavidyalaya, Hoogly, The University of Burdwan.
3. Member, Selection Committee, Recruitment of Chief Engineer (Contract), Burdwan Development Authority, Purba Bardhaman.
4. Member, Selection Committee, Recruitment of SAE (contract), Burdwan Development Authority, Purba Bardhaman.
5. Member, Selection Committee, Renewal and New enlistment of Licensed building surveyor (LBS)/ Structural Engineers/ Geo-technical Engineers and Structural Reviewers for the Burdwan Development Authority, Purba Bardhaman.
6. Moderator, M. Tech papers of Civil Engineering, Narula Institute of Technology, Agarpara, Kolkata-109.

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