

APARNA ROY



PERSONAL DETAILS

Date of Birth: 30. 10. 1978
Nationality: Indian
Sex: Female
Email: aparnait@gmail.com
Contact address: Department of Civil Engineering
University Institute of Technology, Golapbag(N),
Burdwan- 713104
Residence: Laxmipur-I, Burdwan-713101
Mobile: 09434468526

PRESENT STATUS

Assistant Professor & In charge,
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
Registered for Doctoral program (Ph.D.) in Civil engineering Department at Indian
Institute of Science and Technology, Shibpur, Howrah in 2014.

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 EXPERIENCE

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 B.E. final year students of UIT,BU.

RESEARCH INTEREST AREA

Bidirectional seismic interaction, Soil-structure interaction, Soil dynamics, Soil
stabilization.

PUBLICATIONS
(Candidate
previously named as
Aparna Mandal upto
2002)

Journals:

1. 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.
2. 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.
3. Roy A and Roy R. (2015). "Seismic Behavior of Elevated Water Tanks with Shaft Stagings: Effect of Biaxial Interaction and Ground Motion Characteristics", **Advances in Structural Engineering, Springer**, 1205-1215.
4. Roy A. (2014). "Soil Stabilization using Rice Husk Ash and Cement", **International Journal of Civil Engineering Research**, ISSN 2278-3652, 5(1), 49-54.
5. 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, 373-378.
2. Roy A. and Roy R. (2014). "Seismic Behaviour of R/C Elevated Water tanks with Shaft Staging: Effect of Biaxial Interaction and Ground Motion Characteristics", **Structural Engineering Convention, (SEC-2014)**, Dec. 22-24, 2014, IIT Delhi, New Delhi, 1205-1215.
3. 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, T.N., 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, 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, I,I,T.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. AICTE recognized Short Term Course on “Managing Yourself”, 03.10.2016 to 7.10.2016, NITTTR, Chandigarh.
2. AICTE recognized Short Term Course on “Advances in Modern Management Practices”, 12.10.2015 to 16.10.2015, NITTTR, Chandigarh.
3. Management Development Programme on “Total Quality Management in technical and Higher Education”, 05.08.2013 to 09.08.2013, UIT, BU.
4. Staff Development Programme on “Soft Computing”, 01.07-2013 to 05.07.2013, UIT, BU.
5. Workshop on “Training and Facilitation: Essential Skills”, 29.06.2013, British council.

**ADMINISTRATIVE
RESPONSIBILITIES**

1. **In-Charge, Civil Engg**, University Institute of Technology, B.U.
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.
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.
9. Member, Girls’ Hostel supervision Committee, UIT, BU.
10. Member, Placement Cell (as In charge-CE), UIT, BU.
11. Member, Planning Cell (as In charge-CE), UIT, BU.
12. Member, Academic Affairs and Research (as In charge-CE), UIT, BU.
13. Member, Administrative Cell (as In charge-CE), UIT, BU.
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.

**MEMBER OF
EXTERNAL BODY**

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. Moderator, M. Tech papers of Civil Engineering, Narula Institute of Technology, Agarpara, Kolkata-109.