

**Mr. SOUMEN ROY**



**PERSONAL  
DETAILS**

Date of Birth: 17. 08. 1991  
Nationality: Indian  
Sex: Male  
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 (with 1<sup>st</sup> class) in 2007 from WBBSE  
Higher Secondary Examination (with 1<sup>st</sup> class) in 2009 from WBCHSE  
B.E. (with 1<sup>st</sup> class Honours) in Civil Engineering from University Institute of Technology,  
B.U. in 2013  
M.Tech (1<sup>st</sup> class with Distinction) in Structural Engineering from National Institute of  
Technology Agartala in 2015  
Registered for PhD in Civil engineering Department at Indian Institute of Science and  
Technology, Shibpur in 2018

**PhD THESIS**

**“A Modified Higher Order Zigzag Theory for Static and Dynamic Response Analysis of Hybrid Laminated Shells”** Supervised by **PROF. CHAITALI RAY**, Department of Civil Engg., IEST Shibpur and **Dr. SANDIPAN NATH THAKUR**, Department of Civil Engg., University Institute of Technology, B.U.

**RESEARCH  
AREA**

Masonry structures; Finite element analysis; Dynamic analysis of structures; Composite structures; Hybrid laminated Plate and shell structures;

**SOFTWARES  
KNOWN**

Auto Cad; SAP 2000; Abaqus; STAAD Pro; Matlab; ETabs;

**FIELD OF  
INTEREST**

Strength of Materials; Structural Analysis; RCC Structure; Structural Dynamics; Concrete Technology; Building Materials and Construction; Surveying

**TEACHING  
EXPERIENCE**

*Assistant Professor* in Civil Engg. Department at Ramgarh Engineering College (PPP Techno India) July, 2015 to September 2015.

*Assistant Professor* in Civil Engg. Department at Dumka Engineering College (PPP Techno India) October, 2015 to December 2015.

*Assistant Professor* in Civil Engg. Department at University Institute of Technology, The University of Burdwan from January, 2016 to till date.

**PUBLICATIONS    International Journals:**

1. **Roy S.**, Thakur S.N. and Ray C., "Free Vibration Analysis of Laminated Composite Hybrid and GFRP Shells Based on Higher Order Zigzag Theory with Experimental Validation", **European Journal of Mechanics / A Solids**, vol 88, 2021. DOI: 10.1016/j.euromechsol.2021.104261

2. **Roy S.**, Thakur S.N. and Ray C., "A modified higher order zigzag theory for response analysis of doubly curved cross-ply laminated composite shells", **Mechanics of Advanced Materials and Structures**, 2021. DOI: 10.1080/15376494.2021.1945714

**International Conferences:**

1. **Roy S.**, Patra S., Thakur S.N. and Ray C., "A comparative study on free vibration of hybrid laminated composite shells", **1<sup>st</sup> Online International Conference on Recent Advances in Computational and Experimental Mechanics (ICRACEM-2020)**, September 4-6, 2020, IIT Kharagpur.

2. **Roy S.**, Thakur S.N., Ajeech C. and Ray C., "Free vibration study of laminated composite shell with varying cut-outs", **1<sup>st</sup> Online International Conference on Recent Advances in Computational and Experimental Mechanics (ICRACEM-2020)**, September 4-6, 2020, IIT Kharagpur.

3. Ajeech C., **Roy S.**, Thakur S.N. and Ray C., "Experimental and Numerical free vibration analysis of laminated composite shells", **64<sup>th</sup> Congress of The Indian Society of Theoretical and Applied Mechanics (ISTAM-2019)**, December 9-12, 2019, IIT Bhubaneswar.

4. **Roy S.** and Pal J., "Seismic Response of Masonry Pier Subjected to In-plane Loading, Strengthened by GFRP: A Comparison", Proceeding of **International Conference on Modelling, Computing and Technological Innovations (ICMCTI-2017)**, March 23-25, 2017, University Institute of Technology, The University of Burdwan.

**COURSES  
ATTENT**

1. Online **“Faculty Induction Programme-3”**, 02.11.2020 to 08.12.2020, completed with **A+ Grade, UGC-HRDC, JNTUH, Hyderabad.**
2. Interdisciplinary Refresher Course (Online) in **“Environmental Studies”**, 13.03.21 to 27.03.21, **Department of Environmental Science, University of Calcutta.**
3. Faculty Development Programme (Virtual) on, **“Advances in Theoretical and Computational Mechanics”**, 26.10.2020 to 30.10.2020, **NIT Andhra Pradesh.**
4. Online Short Term Course on, **“MATLAB Applications for applied Science and Engineering Problems”**, 12.10.2020 to 19.10.2020, **UGC-HRDC, JNTUH, Hyderabad.**
5. AICTE Training and Learning (ATAL) Academy online FDP on **“Mechanics of Composite Materials and Structures”**, 09.09.2020 to 13.09.2020, **M.B.M. Engineering College, J.N.V. University, Jodhpur.**
6. AICTE Training and Learning (ATAL) Academy online FDP on **“Sustainability Engineering”**, 17.08.2020 to 21.08.2020, **Gaya College of Engineering, Gaya.**
7. Short Term Training Programme on **“Precast and Prefabricated Buildings”**, 26.12.2016 to 30.12.2016, **MNIT Jaipur.**
8. AICTE Sponsored QIP Short Term Course on **“Sustainable Engineering: From Concepts to Design Solutions”**, 03.08.2016 to 07.08.2016, **IIT Bombay.**
9. International workshop on **“Advanced Seismology, Seismic Hazards and Earthquake Engineering: Theory, Simulation & Observations (ASSHEE-2020)”**, 12.12.2020 to 16.12.2020, **NIT Agartala.**
10. Webinar titled **“Sustainable Health & Environmental Management during COVID-19 Pandemic”**, 01.03.2021 to 03.03.2021, Department of Civil Engineering & Centre for Healthcare Science and Technology. **IEST Shibpur.**

**ADMINISTRATIVE  
RESPONSIBILITIES**

1. Internal member of Moderation Board, BE Odd/Even semester Examination, UIT, BU.
2. Organizer, International Conference on Modelling, computing and Technological Innovations (ICMCTI-2017), March 23-25, 2017, UIT, BU.
3. Member, Hostel Level Anti Ragging Squad, UIT, BU.
4. President, FOCUS, Departmental Magazine, UIT, BU.
5. Member, Alumni Cell, UIT, BU.