

**Name:** Dr. Shovan Roy

**Department:** Civil Engineering

**Contact Nos.:** 9434490218  
7908890903

**Qualifications:** PhD



**Designation:** Assistant Professor

**VIDWAN ID:** 186481

**Experience (Teaching/ Research/ Industry, in years):** 8 years teaching

**Date of Joining at the Present Institution:** 27<sup>th</sup> August 2014

**Examinations Cleared:** Nil

**Qualifications Summary (Reverse chronological order):**

Degree	Institute	From - To	Subjects
M.Tech	NERIST	2011 - 2013	Geotechnical Engineering
B.E.	SRKNEC (Nagpur University)	2008 - 2011	Civil Engineering
Diploma	Jalpaigui Polytechnic Institute (WBSCTE)	2007	Civil Engineering

**Experience Summary (In chronological order):**

Assistant Professor, IMPSCET Malda, 5<sup>th</sup> August, 2013 - 25<sup>th</sup> August, 2014

**Specialization/Research Interest:**

Geotechnical Engineering and Offshore Engineering

**Awards & Recognitions**

Nil

**Courses taught:**

**B.Tech:**

Soil Mechanics, Fluid Mechanics, Foundation Engineering, Transportation Engineering, Pavement Design, Soil Mechanics lab & Transportation Engineering lab

**Online Mode of Teaching:**

<https://drive.google.com/drive/folders/16a-jNFWX9ay53siGtdaScnl-0hqCHMjC?usp=sharing>,  
Google meet.

**The Faculty member needs to specify the online teaching/ assessment method adopted.** MCQ Quiz and GATE quiz conducted in Google Form.

**Publications:**

**Journal:**

**Journal:**

1. **Roy, S.,** Ghosh, V., Dey, S., Vimmadi, S., Banik, A. K. "A coupled analysis of motion and structural responses for an offshore spar platform in irregular waves", Journal of Ship and Offshore Structures, 2017, 12, (sup1), pp. S296-S304, ISSN 1744-5302

DOI: 10.1080/17445302.2016.1256183

Link: <https://www.tandfonline.com/doi/full/10.1080/17445302.2016.1256183>

2. **Roy, S.,** Banik, A. K. "Dynamic responses of an FPSO moored on sloped seabed under the action of environmental loads", Journal of Ocean Systems Engineering, 2018, 8, (3), pp. 329-343, ISSN 2093-6702

DOI: 10.12989/ose.2018.8.3.329

Link: <http://www.technopress.org/content/?page=article&journal=ose&volume=8&num=3&ordernum=4>

3. Dey, S., Saha, K., Acharya, P., **Roy, S.,** Banik, A. K. "Coupled dynamic responses of a semisubmersible under the irregular wave and turbulent wind", Journal of Ocean Systems Engineering, 2018, 8, (4), pp. 441-3459, ISSN 2093-6702

DOI: 10.12989/ose.2018.8.4.441

Link: <http://www.technopress.org/content/?page=article&journal=ose&volume=8&num=4&ordernum=5>

4. **Roy, S.,** Banik, A. K. " Numerical study on nonlinear coupled dynamic Analysis of an FPSO subjected to misaligned Environmental loads ", International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), 2018, Special Issue Jun 2018, pp. 394-401, ISSN 2249-6890

Link: [http://www.tjprc.org/conference-](http://www.tjprc.org/conference-archives.php?year=&cid=&tid=&jname=67_2&e_type=International%20Conference&page=9)

[archives.php?year=&cid=&tid=&jname=67\\_2&e\\_type=International%20Conference&page=9](http://www.tjprc.org/conference-archives.php?year=&cid=&tid=&jname=67_2&e_type=International%20Conference&page=9)

5. Dey, S., Mukherjee, R., **Roy, S.,** Banik, A. K. "Comparison of rao's of different types of braceless V-shaped semisubmersible platform", International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), 2018, Special Issue Jun 2018, pp. 156-160, ISSN 2249-6890

Link: [http://www.tjprc.org/conference-](http://www.tjprc.org/conference-archives.php?year=&cid=&tid=&jname=67_2&e_type=International%20Conference&page=7)

[archives.php?year=&cid=&tid=&jname=67\\_2&e\\_type=International%20Conference&page=7](http://www.tjprc.org/conference-archives.php?year=&cid=&tid=&jname=67_2&e_type=International%20Conference&page=7)

6. Banik, A. K., **Roy, S.,** Saha, K., Dey, S. "Effect of wave spreading including multidirectional wave interaction on the responses of a spar platform", Marine Systems & Ocean Technology. 2019, 14, (4), pp. 153-165, ISSN 1679-396X

DOI: 10.1007/s40868-019-00065-0

Link: <https://link.springer.com/article/10.1007/s40868-019-00065-0>

**Conference:**

1. **Roy, S.,** Devi, D. "Calibration of soil constitutive model parameters". National conference on Geotechnical and Geoenvironmental Aspects of Wastes and Their Utilization in Infrastructure Projects, February 15-16, 2013, National conference, Eagle eye publications. Print ISBN 78-81-92777-8-0
2. Ghosh, V., Dey, S., Vimmadi, S., **Roy, S.,** Banik, A. K. "Coupled Analysis and Parametric Study of a Spar Shaped Structure with Different Mooring Cable Configurations" International Conference on Advances in Dynamics, Vibration and Control (ICADVC), February 25-27, 2016, International Conference, Narosa Publishing House. Print ISBN 978-81-8487-550-8
3. Dey, S., Ghosh, V., Vimmadi, S., **Roy, S.,** Banik, A. K. "Dynamic Responses of an FPSO with Mooring Cables Interacting with Different Bed Slopes" International Conference on Advances in Dynamics, Vibration and Control (ICADVC), February 25-27, 2016, International Conference, Narosa Publishing House. Print ISBN 978-81-8487-550-8
4. Vimmadi, S., Dey, S., Ghosh, V., **Roy, S.,** Banik, A. K. "Linear and Nonlinear Coupled Analysis of Moored Floating Structure: A State-of-The Art Review" International Conference on Advances in Dynamics, Vibration and Control (ICADVC), February 25-27, 2016, International Conference, Narosa Publishing House. Print ISBN 978-81-8487-550-8
5. Ghosh, V., **S., Roy,** Dey, S., Vimmadi, S., Banik, A. K. "Fully nonlinear modeling and coupled analysis of an offshore spar platform" International Conference on Ships and Offshore Structures ICSOS 2016 Hamburg, Germany, 31<sup>st</sup> August -September 2<sup>nd</sup>, 2016, International Conference. Link: <https://www.icsos.info/past-conferences289df64>
6. Dey, S., Saha, K., Acharya, P., **Roy, S.,** Banik, A. K. "Coupled dynamic responses of a semisubmersible-type Floating Offshore Wind Turbine (FOWT) under the combined action of irregular wave and turbulent wind" International Conference on Ships and Offshore Structures ICSOS 2017 Shenzhen, China, February 20-24, 2016, International Conference. Link: <https://www.icsos.info/past-conferences289df64>
7. **Roy, S.,** Banik, A. K. "Numerical study on nonlinear coupled dynamic Analysis of an FPSO subjected to misaligned Environmental loads" 2<sup>nd</sup> International Conference on Advances in Dynamics, Vibration and Control (ICADVC), June 6-8, 2018, International Conference.
8. Dey, S., Mukherjee, R., **Roy, S.,** Banik, A. K. "Comparison of rao's of different types of braceless V-shaped semisubmersible platform" 2<sup>nd</sup> International Conference on Advances in Dynamics, Vibration and Control (ICADVC), June 6-8, 2018, International Conference.
9. **Roy, S.** and Banik, A.K. "Second-Order Hydrodynamic Effects on Coupled Dynamic Response of Spar Structure With Different Offshore Seabed Topographies" 1<sup>st</sup> Online Conference on International Conference on Recent Advances in Computational and Experimental Mechanics (ICRACEM), September 4-6, 2020, Indian Institute of Technology Kharagpur 2020, International Conference, Print ISBN 978-93-5416-440-8 ISBN 978-93-5416-440-8 (Online).

**Book Chapter:**

1. Saha, K., Acharya, P., Dey, S., **Roy, S.**, Banik, A. K. "Coupled Dynamic Analysis of a Semisubmersible Type Floating Offshore Wind Turbine under Wave and Wind Loads" "Advances in Renewable Energy and Sustainable Systems" (Nova Publishers, 2018) Print ISBN 978-1-53614-022-4 (Print)
2. Dey, S., Saha, K., Acharya, P., **Roy, S.**, Banik, A. K. "Stability Design Concepts of an FOWT: A Comprehensive Review" "Advances in Renewable Energy and Sustainable Systems" (Nova Publishers, 2018) Print ISBN 978-1-53614-022-4 (Print)

**Supervision of B.Tech Projects:**

Sl. No	Name of the students	university roll number	Name of the supervisor	Title of the Project / thesis	Year
1	Subham Sarkar	12001312045	Shovan Roy	Soil Stabilizing Using Coconut Coir	2016
	Sushovan Adhikary	12001312054			
	Sushovan Santra	12001312055			
	Suvajit Saha	12001312056			
	Sweta Roy	12001312057			
2	Rana Chatterjee	12001313069	Shovan Roy	Soil Stabilization Using Jute Fibers	2017
	Ranjan Dutta	12001313070			
	Samiran Nayak	12001313077			
	Sankar Prasad Lahiri	12001313078			
	Sayantani Sanyal	12001313084			
	Shakti Kant	12001313086			
	Subhajit Dutta	12001313101			
	Subham Dutta	12001313103			
	Tanmoy Das	12001313115			
3	Abhisek Biswas	12001314001	Shovan Roy	Performance Evaluation of Bamboo as Reinforcement in Reinforced Cement Concrete	2018
	Animesh Bhunia	12001314011			
	Biswarup Dey	12001314025			
	Debojyoti Mondal	12001314027			
	Dipayan Das	12001314030			
	Diwakar Ojha	12001314031			
	Jayashree Mondal	12001314038			
4	Amrita Puri	12001315020	Shovan Roy	Analysis of Shallow Foundation on Stabilised Soil Bed Foundation on Stabilised Soil Bed	2019
	Santanu Kumar Majhi	12001316005			
	Safkat Jamal	12001316006			
	Rahul Adhikary	12001316008			
	Krishna Kant Gupta	12001316011			
	Kaji Tousif	12001316012			
5	Abhishek Bardhan	12001315004	Shovan Roy	Determination of Soil Parameters	2019
	Adnan Rafique	12001315009			
	Afridi Alam	12001315010			

Sl. No	Name of the students	university roll number	Name of the supervisor	Title of the Project / thesis	Year
6	Vikash Kumar	12001316024	Shovan Roy	Analysis of Bearing Capacity of Shallow Foundation on Stabilised Soil Bed Using Computer Programming	2020
	Uday Banerjee	12001316025			
	Twinkle Sharma	12001316026			
	Tanmay	12001316027			
	Tahsin Azam	12001316028			
	Sumukh Kumar	12001316029			
	Sumit Kumar Singh	12001316030			
	Sumit Kumar	12001316031			
7	Kumar Som	12001317073	Shovan Roy	Stability of Concrete Gravity Dam	2021
	Kumar Prabhakar	12001317074			
	Kumar Deepesh	12001317075			
	Kuldeep Kumar Mahato	12001317076			
	Krishna Chandra Mandal	12001317077			
	Kishlay Kashyap	12001317078			

**Invited Lectures:** Nil

**Participation in seminar/conference/symposium/workshop/discussion meeting**

Sl. No	Name of the event	Duration	Year	Organized by
1	Short Course on Soil-Structure Interaction: Computer Applications and Material Models	January 19-23	2015	IIT Gandhinagar
2	Short Term Training Programme on Computational Fluid Dynamics (CFD 2015)	June 22-25	2015	MNIT Allahabad
3	One Week Short Term Training Programme on Applied Finite Element-Theory and Practice	August 3-7	2015	NIT Silchar
4	Seminar on "Advances in Nano-Satellite Technology"	November 4	2015	R D Center of Dr. B. C. Roy Engineering College, Durgapur
5	Two-week ISTE STTP on Introduction to Structural Engineering	January 4-9	2016	IIT Kharagpur

6	International conference on Advances in Dynamics, Vibration and Control (ICADV 2016)	February 25-27	2016	Civil Engineering and Mechanical Engineering, NIT Durgapur
7	One Week Short-term course on Matlab and Simulink for Technical Computing	January 15-19	2018	Department of Mechanical Engineering, NIT Durgapur
8	Seminar on Teaching & Learning Skill Development	August 22	2019	IEEE, Student Branch & IEI, Student's Chapter, Dr. B. C. Roy Engineering College, Durgapur
9	One Day seminar on Enterprise Architecture and Its Security	January 21	2020	Dr. B. C. Roy Engineering College, Durgapur

#### Participation in faculty development programmes

Sl. No	Name of the faculty development programmes	Online / Face-to-face	From Date - To Date	Duration	Year	Organized by
1	Advances in Traffic Flow and Environmental Management	Face-to-face	April 17- April 21	5 days	2012	Department of Civil Engineering, NERIST
2	Behavioural Remodelling with Mentoring Padagogy and Need of Mental Health Sessions for Classroom Delivery of Teachers	Face-to-face	January 8- January 12	5 days	2020	E&ICT Academy IIT Guwahati I Association with Dr. B. C. Roy Polytechnic, Durgapur

#### Organization of events (Dr. B. C. Roy Engineering College)

Nil

#### Participation in administrative committees (selected)

Departmental Coordinator (Academic), Departmental committee 2020-present, NBA Joint Convenor of Civil Engineering Department, Departmental NBA committee, 2018-present

**Project Ideas Submitted to Govt. Agencies/ On-going Projects / Research Ideas under preparation & execution**

Nil

**Membership of professional bodies: IEEE, IETE, IEL, CSI, MGMI etc. Nil**