

Name: Mr. Soumyadip Das

Department: Civil Engineering

Contact Nos.: 7908017716/9474754050

Qualifications: Master of Engineering (M.E.)

Designation: Assistant Professor

VIDWAN ID: 187554

Experience (Teaching / Research / Industry, in years): 7 years 3 months

Date of Joining at the Present Institution: 11th July 2017

Examinations Cleared: GATE

Qualifications Summary (Reverse chronological order):

Degree	Institute	From - To	Subjects
PhD	National Institute of Technology Durgapur	Jul, 2016- Present	Civil Engineering
M.E. Engineering	Indian Institute of Engineering Science and Technology Shibpur	Aug, 2013- Jun, 2015	Highway & Traffic
B.Tech.	Birbhum Institute of Engineering & Technology	Aug, 2008- Jun, 2012	Civil Engineering

Experience Summary (In chronological order):

Designation	Organization	Date From - Date To
Lecturer, Department of Civil Engineering	Basantika Institute of Engineering & Technology (Polytechnic) Ganpur	Aug, 2012 - Aug, 2013
Assistant Professor, Department of Civil Engineering	Birbhum Institute of Engineering & Technology, Suri	Aug, 2015- Mar, 2016
Assistant Professor, Department of Civil Engineering	NSHM Knowledge Campus Durgapur	Mar, 2016- Jul, 2017
Assistant Professor, Department of Civil Engineering	Dr. B. C. Roy Engineering College Durgapur	Jul, 2017- Present



Specialization/Research Interest:

Highway & Transportation Engineering, Pavement Design, Traffic Engineering, Surveying

Awards & Recognitions

Best paper/ scholarship/Position in university exam / awards while at industry/ other organizations etc.

- Qualified in GATE 2013
- Full time MHRD scholarship at IEST, Shibpur (2013-2015)

Courses taught:

B.Tech. :

Theory: Highway & Transportation Engineering, Pavement Design, Surveying & Geomatics, Environmental Engineering, Engineering Geology, Energy Science & Engineering, Building Materials & Construction

Practical: Highway & Transportation Engineering Lab, Surveying Lab, Soil Mechanics Lab, Foundation Engineering Lab, Fluid Mechanics Lab, Structural Engineering Design Practice (Sessional)

Online Mode of Teaching:

Online teaching is conducted through different applications like google meet, zoom, google classroom, flipgrid where direct interaction through video is possible. In some cases, notes are sent as corresponding lecture notes, screen recorded video note, ppt, etc. which allows the students to study the notes at any time. Students' queries and doubts are addressed through phone calls, online and whatsapp interactions.

Link of online contents:

<https://drive.google.com/drive/folders/1idMZUCe8tITjGuGmZG5jM8bjJzsTJ3QI?usp=sharing>

Publications:**Journal:****Conference:**

1. Das, S., Nandan, K.K., Ali, M.M.J., "Study of Traffic Behaviour at an Uncontrolled Intersection in Durgapur, India", IEEE-National Conference on Emerging Trends on Sustainable Technology and Engineering Applications (NCETSTEA2020), BCREC Durgapur, Feb 7-8, 2020, pp.1-5, National Conference, IEEE, DOI: <https://doi.org/10.1109/NCETSTEA48365.2020.9119924>
2. Das, S., Datta, A. K., Topdar, P., Sengupta, S., "A Comprehensive Study on Characterization of Concrete Pavement", Structural Engineering Convention (SEC-2018), Jadavpur University, Dec 19-21, 2018, pp. 55, International Conference, Jadavpur University Press, ISBN:978-93-83660-46-9
3. Priyadarshi, R., Majee, N., Kumar, R., Kumari, R., Vidyarthi, N., Jha, S.R., Datta, S., Das, S., "Improvement of CBR using solid waste for flexible pavement design: A case study", Journal of Association of Engineers, 2018, 88

- (2), pp. 42-46, ISSN: 0368-1106 DOI: 10.22485/jaei/2018/v88/i1-2/174918
4. Das, S., Datta, A. K., Topdar, "An Intensive Study of Pavement Performance Models", 2nd International Conference on Advances in Concrete, Structural, and Geotechnical Engineering (ACSGE - 2018), BITS Pilani, Feb 26-28, 2018, International Conference, pp. 730-734, Bloomsbury India, ISBN: 978-93-87471-69-6
 5. Mukherjee, D., Das, S., Saha, P., Roy, S.K., "Evaluation of Pedestrian Speeds on Sidewalks: A Comparative Study at the Commercial Hubs in the Twin Cities of Kolkata and Howrah", International Conference on Transportation Planning & Methodologies in Developing Countries (TPMDC 2016), Dec 16-19, 2016, International Conference, IIT Bombay.
 6. Mukherjee, D., Das, S., Saha, P., Roy, S.K., "Walking speeds on Sidewalks: A comparison of Recreation and Residential Zones in Kolkata", National level conference "Engineering problems and Application of Mathematics" (EPAM-2016), Jun 11-12, 2016, National Conference, NIT Agartala.
 7. Das, S., Mukherjee, D., Saha, P., Roy, S.K., "Characteristics of Pedestrian Traffic on Sidewalks: a case study in Kolkata Metropolis", 3rd International Conference of Transportation Research Group (CTRG -2015), Dec 18-21, 2015, International Conference, Kolkata.

Book Chapter:

1. Mukherjee, D., Das, S., Saha, P., Roy, S.K., "Analysis of Pedestrian Movements on Sidewalks: A Case Study in Kolkata, India", In: Gopalakrishnan K., Prentkovskis O., Jackiva I., Junevičius R. (eds) TRANSBALTICA XI: Transportation Science and Technology. TRANSBALTICA 2019, Lecture Notes in Intelligent Transportation and Infrastructure. Springer, Cham, Issue- Part of the Lecture Notes in Intelligent Transportation and Infrastructure book series (LNITI), pp.- 99-111, Feb 2020, ISBN: 9783-030-38666-5 DOI: https://doi.org/10.1007/978-3-030-38666-5_11
2. Das, S., Mukherjee, D., Saha, P., Roy, S.K., "Pedestrian Flow Characteristics at Signalized Intersections in Mixed Traffic Situations: A Case Study in Kolkata, India", "Procedia Computer Science, Part of special issue: The 9th International Conference on Ambient Systems, Networks and Technologies (ANT 2018) / The 8th International Conference on Sustainable Energy Information Technology (SEIT-2018) / Affiliated Workshops", Volume 130, pp. 150-156, 2018, ISSN: 1877-0509 DOI: <https://doi.org/10.1016/j.procs.2018.04.024>

Supervision of Ph.D/M.Tech / B.Tech Projects:

For Ph.D
NA

Projects:**B.Tech. Projects Supervised**

Year	Project title	Students' name with roll no.
2018	Improvement in CBR Value by Solid Waste	Neha Majee (12001314063) Nisha Vidyarthi (12001314065) Rahul Kumar (12001314072) Rashmi Kumari (12001314075) Rohit Priyadarshi (12001314078) Satyarth Raj Jha (12001314085)
2019	Study of Traffic Behaviour at Urban Uncontrolled Intersection	Abhash Bhardwaj (12001315001) Abhisekh Ranjan (12001315003) Abhishek Raj (12001315007) Amit Kumar (12001315017) Debjani Sen (12001315036) Gautam Kumar (12001315038) Kunal Kumar Nandan (12001315046) Md. Meer Jouhar Ali (12001315055)
2020	Earthquake Vibration Control Using Modified Frame Shear Wall	Madhav Jha (12001316106) Lal Krishana (12001316107) Kumar Nagmani (12001316108) Kishlay Jha (12001316109) Janardan Kumar (12001316110) Jaipal Yadav (12001316111) Indra Mani Rao (12001316112) Himanshu Kumar (12001316113) Aman Pratik (12001316134) Akash Verma (12001316135) Devendra Nath Patra (12001317104)

Invited Lectures:

NA

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

Name of the Event	Duration	Year	Organized by
IEEE-National Conference on Emerging Trends on Sustainable Technology and Engineering Applications	2 Days (7-8 Feb)	2020	Dr. B.C. Roy Engineering College, Durgapur
Enterprise Architecture and It's Security	1 Day (21st Jan)	2020	Dr. B.C. Roy Engineering College, Durgapur
Teaching & Learning Skill Development	1 Day (22nd Aug)	2019	Dr. B.C. Roy Engineering College, Durgapur
Climate Change and Water Crisis	1 Day (21st Jun)	2019	IEST Shibpur

Research and Innovations in Traffic Safety Engineering	1 Day (17th Jun)	2019	IEST Shibpur
XIth Structural Engineering Convention	3 Days (19-21 Dec)	2018	Jadavpur University
Advances in Concrete, Structural, and Geotechnical Engineering	3 Days (26-28 Feb)	2018	BITS Pilani
Integration between Global Navigation Satellite Systems and Wireless Communication and Networking Systems	1 Day (17th Feb)	2018	Dr. B.C. Roy Engineering College, Durgapur
Theory of Innovation	1 Day (14th Nov)	2017	Dr. B.C. Roy Engineering College, Durgapur
Transportation Planning & Methodologies in Developing Countries	4 Days (16-19 Dec)	2016	IIT Bombay

National level conference "Engineering problems and Application of Mathematics"	2 Days (11-12 Jun)	2016	NIT Agartala
3rd International Conference of Transportation Research Group	4 Days (18-21 Dec)	2015	Kolkata
Advances in the Design and Construction of Bituminous Pavements	2 Days (27-28 May)	2014	IEST Shibpur
Innovative World of Building Materials	2 Days (31st Jan- 1st Feb)	2014	Institute of Engineers (India), Kolkata

Participation in faculty development programmes

Name of the faculty development programme	Online / Face-to Face	From Date - To Date	Duration	Organized by
Behavioural Remodelling with Mentoring Pedagogy and Need of Mental Health Sessions for Classroom Delivery of Teachers	Face-to Face	08-12 Jan, 2020	5 Days	E&ICT Academy IIT Guwahati and Dr. B.C. Roy Polytechnic, Durgapur
Moodle Learning Management System	Online	Apr 2020	5 Days	Dr. B.C. Roy Engineering College, Durgapur
Technology Enabled Learning & Life Long Self Learning	Online	Apr 2020	8 Weeks	NITTT, Chennai
3D Printing & Design	Online	17-21 Aug, 2021	5 Days	Dr. B.C. Roy Engineering College, Durgapur

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

Annual Sports Committee Member, 31st Jan, 2020

MAKAUT Zonal Workshop Committee Member, 6th Feb, 2020

Participation in administrative committees (selected)

Name of the post	Name of the committee	Year
Member	NAAC Committee	2019
Member	NIRF Core Committee	2019

Superintended	Satyen Bose Boys' Hostel	2021
Co-convenor	Idea Lab Execution Committee	2021

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

Project Ideas Submitted to Govt. Agencies:

1. Real Time Crack Detection in concrete pavements using Acoustic Emission Technique - Submitted to CSIR in 2019 (Reviewed, not approved as the Department does not have Master's Programme)
2. Bridge Pier Health Monitoring Using Acoustic Emission Technique (Project File No CRG/2019/000796) - Submitted to SERB in 2019 (The proposal was examined carefully on the basis of scientific / technical merit, novelty, work plan, research methodology and also considering the availability of funds etc. We regret to inform you that after thorough consideration, your proposal is not recommended for funding)
3. Investigation of Public Health Impacts and Traffic Management due to traffic congestion around schools in Urban Areas: A Case Study in Durgapur -Submitted to Dept. of Higher Education, Govt. of West-Bengal (No communication received till date)

Research Ideas under preparation & execution:

Structural Health monitoring:

Real time defect/damage/crack detection concrete slabs using experimental investigations through Acoustic Emission Technique.

Membership of professional bodies: IEEE, IETE, IEI, CSI, MGMI etc.

Institute of Engineers (Associate Member- 1776080)

American Association of Civil Engineers (Membership Number- 000011520529)