

**Name:** Mr. Siddhartha Bhowmick

**Department:** Mechanical Engineering

**Contact Nos.:** 9433238854/9647438851

**Qualifications:** M. Tech

**Designation:** Assistant Professor

**Experience (Teaching/ Research/ Industry, in years):** 12 Years Teaching, 1 Year Research

**Date of Joining at the Present Institution:** 17.01.2015

**Examinations Cleared: NET-CSIR/GATE:** N.A



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

<b>Degree</b>	<b>Institute</b>	<b>From – To</b>	<b>Subjects</b>
Master of Technology ( M. Tech )	National Institute of Technology ( NIT Durgapur-713209)	2010 - 2013	DYNAMICS OF MACHINERY, DESIGN AND PERFORMANCE OF MACHINE TOOLS, ADVANCED MACHINE DESIGN, STATISTICAL QUALITY CONTROL AND OPERATION RESEARCH, THEORY OF ELASTICITY AND PLASTICITY, FUNDAMENTALS OF ROBOTICS, PRINCIPLES OF METAL CUTTING, COMPUTER AIDED DESIGN & COMPUTER GRAPHICS, ADVANCED PRODUCTION METHODS etc.
Bachelor of Engineering ( B.E )	Jalpaiguri Government Engineering College (University of North Bengal)	1996 - 2000	Engineering Mechanics, Thermodynamics, Strength of Materials, Engineering Drawing, Fluid Mechanics, Theory of Machine, Dynamics of Machinery, Machine

			Drawing, Fluid Power Engineering, Machine Design, Manufacturing Science & Technology, Works Organisation & Management, heat Power etc.
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**Experience Summary** (In chronological order):

Designation	Organization	Date From – Date To
Lecturer	Bankura Unnayani Institute of Engineering, Pohabagan, Bankura	23.02.2008 – 03.08.2009
Assistant Professor	Techno India, Durgapur	04.08.2009 – 16.01.2015
Assistant Professor	Dr. B. C. Roy Engineering College	17.01.2015 -

**Specialization/Research Interest:** Design and Production Engineering / Non-Linear Dynamics, Multi - DOF Vibration etc.

**Awards & Recognitions**

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

**Courses taught:**

**B.Tech:** **Theory:** Engineering Mechanics, Engineering Thermodynamics and Fluid Mechanics , Strength of materials , Fluid mechanics & Hydraulic Machines, Engineering Drawing, Operations Research, I.C Engines and gas turbines, Applied Thermodynamics, Mechanisms (Theory of Machine), Dynamics of Machines, Thermal Power Engineering etc.

**Practical:** Engineering Drawing Lab, Applied Mechanics Lab, Fluid Mechanics & Hydraulics Lab, Machine Drawing Lab, Metrology & Instrumentation Lab etc.

**M. Tech:** N.A

**Online Mode of Teaching:**

The Faculty member needs to specify the online teaching/ assessment method adopted. (Link to any faculty created resources for Lecture notes / PPT/ Video Lecture etc. in Google Drive / Web link etc.):

E-mail, .pdf Notes, Google Assessment, Whatsapp

<https://drive.google.com/file/d/1cp4nkkJxDtb2WfNgrRejOodExa7-hr4H/view?usp=sharing>  
[https://drive.google.com/file/d/1u4aSUAGiPSn\\_u3XZ6d\\_8t7uWKDh09Vh/view?usp=sharing](https://drive.google.com/file/d/1u4aSUAGiPSn_u3XZ6d_8t7uWKDh09Vh/view?usp=sharing)  
<https://drive.google.com/file/d/1SAhzP924kIn45zsAfPZWVOY-tyLY9UJn/view?usp=sharing>  
[https://drive.google.com/file/d/1R8KgnMgfg1WGsSYqNNwAv2o8rjF\\_BvvR/view?usp=sharing](https://drive.google.com/file/d/1R8KgnMgfg1WGsSYqNNwAv2o8rjF_BvvR/view?usp=sharing)  
<https://drive.google.com/file/d/1WNW1KWTkQzgDhSFxn2AUWREwerJR0QoG/view?usp=sharing>  
[https://drive.google.com/file/d/1ruF\\_SMojeTwB7nm8MAcfVxsZxHBwmna8/view?usp=sharing](https://drive.google.com/file/d/1ruF_SMojeTwB7nm8MAcfVxsZxHBwmna8/view?usp=sharing)

**Publications:****Journal:** N.A**Conference:**

1. **Siddhartha Bhowmick**, Ranjan Kumar Mitra, Atul Krishna Banik, “Control of Whirling of a rotating shaft using HSLDS mountings”, iNaCoMM 2013 - 1st International and 16th National Conference on Machines and Mechanisms at IIT Roorkee under the aegis of Association for Machines and Mechanisms & International Federation for the Promotion of Mechanism and Machine Science, December 18-20, 2013, International Conference, Conference proceedings page no. 294-300.

**Link to relevant Conference:** <http://www.nacomm2013.org/proceedings.html>

2. **Siddhartha Bhowmick**, Ranjan Kumar Mitra, “Control of Internal Resonance of Nonlinear Coupled Roll-Pitch Motion Using Time-Delayed State Feedback”, ICADVC 2016 - International Conference on Advances in Dynamics, Vibration and Control at National Institute of Technology, Durgapur, February 25-27, 2016, International Conference, Narosa, Print ISBN 978-81-8487-550-8.

**Book:** N.A**Book Chapter:** N.A**Supervision of Ph. D/M. Tech / B.Tech Projects:****B.Tech Projects:**

1.

Sl. No.	Name	Roll No.	Supervisor	Title of Project
1	UTTAM KUMAR	12000712214	SIDDHARTHA BHOWMICK	DESIGN AND STUDY OF FOUR FORWARD SPEED CONSTANT MESH GEAR BOX
2	VIKRAM KUMAR	12000712215		
3	VINIT KUMAR CHOUDHARY	12000712216		
4	VIVEK KUMAR	12000712217		
5	YASIR OSMANI	12000712218		
6	ABHIJIT MAITI	12000713126		
7	ABHINAV PRASHAR	12000713127		
8	ABHISEK NANDI	12000713128		

2.

Sl. No.	Name	Roll No.	Supervisor	Title of Project
1	RISHU KUMAR	12000714145	SIDDHARTHA BHOWMICK	CONTROL OF WHIRLING OF A ROTATING SHAFT USING LINEAR MOUNTINGS
2	SANDIP GORAI	12000714146		
3	SAROZIT ADAK	12000714147		
4	SATYAM SAPTARSHI	12000714148		
5	SAYANTAN DAS	12000714149		
6	SOURAV DAS	12000714150		

3.

Sl. No.	Name	Roll No.	Supervisors	Title of Project
1	RAHISH KUMAR	12000714076	SIDDHARTHA BHOWMICK & PABITRA KUMAR MONDAL	BI-LINEAR PLASTIC DEFORMATION OF A W4X4 I-SECTION BEAM
2	RAHUL KUMAR	12000714077		
3	RAHUL KUMAR	12000714078		
4	RAHUL KUMAR	12000714079		
5	RAHUL KUMAR	12000714080		
6	RAJESH LAYEK	12000714081		
7	RAMAN RAJ	12000714082		
8	RANITABH MALLICK	12000714083		
9	RAVI GOSWAMI	12000714084		
10	RAVI RAJ	12000714085		
11	RISHAV GUPTA	12000714086		

4.

Sl. No.	Name	Roll No.	Supervisors	Title of Project
1	MD SHAHBAZ ALI	12000715053	SIDDHARTHA BHOWMICK & CHITTA SAHANA	SMART CAR SAFETY MONITORING SYSTEM USING ARDUINO
2	MD WALEED	12000715054		
3	MISIKA ARYAN	12000715055		
4	MD. RAZI AHMAD	12000715056		
5	MONU KUMAR	12000715057		
6	NARENDRA NATH DUTTA	12000715058		
7	NITISH RAJ	12000715059		
8	NITISH RANJAN JHA	12000715060		
9	NUR HUSSAIN SHAIKH	12000715061		
10	PARAMDEEP SINGH	12000715062		
11	PIYUSH KUMAR	12000715063		
12	PRANAV KUMAR	12000715064		
13	PREETAM PAUL	12000715065		

5.

Sl. No.	Name	Roll No.	Supervisors	Title of Project
1	SANDIP KUMAR BAURI	12000716078	SIDDHARTHA BHOWMICK & CHITTA SAHANA	BOX CONVEYER (PROJECT TRANSPORT MECHANISM)
2	SAIF ALI KHAN	12000716079		
3	SACHIN RAKSHIT	12000716080		
4	SACHIN KUMAR YADAV	12000716081		
5	ROUNAK PANJA	12000716082		
6	ROSHAN KUMAR JHA	12000716083		
7	ROHIT KUMAR	12000716084		
8	ROHAN SARKHEL	12000716085		
9	RISHAV CHAKRABORTY	12000716086		
10	RISHABH RANJAN	12000716087		
11	RAVI SHANKAR	12000716088		
12	RAUNAK RAJ SINGH	12000716089		
13	RANJAN KUMAR	12000716090		
14	RAJESH KUMAR	12000716091		
15	RAJ MAYANK	12000716092		

6.

Sl. No.	Name	Roll No.	Supervisors	Title of Project
1	Shabbir Ahmed	12000717058	SIDDHARTHA BHOWMICK & CHITTA SAHANA	POWER PLANT WASTE HEAT RECOVERY SYSTEM
2	Shivam Kumar	12000717055		
3	Pawan Kumar	12000717078		
4	Amarjeet Kumar	12000717119		
5	Tapas Biswas	12000717029		
6	Sahanwaz Khan	12000718019		
7	Vash Patel	12000717024		
8	Roopsi Anand	12000718014		
9	Ujjwal Kumar	12000717028		
10	Sayan Ghosh	12000718012		
11	Asish Goswami	12000718028		
12	Swarup Mandal	12000718002		

13	sujit kumar das	12000716090		
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**Invited Lectures:** N.A

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

**Seminar / Webinar:**

<b>Name of the event</b>	<b>Duration</b>	<b>Year</b>	<b>Organized by</b>
Advances In Welding Technology	1 day	07.02.2015	Dr. B.C. Roy Engineering College, Durgapur-713206
Advances In Nano - Satellite Technology	1 day	04.11.2015	Dr. B.C. Roy Engineering College, Durgapur-713206
Opportunities in Solar - Becoming #aatmanirbhar	1 day	23.06.2020	TATA POWER
Global Online Learning Platforms & Future of Jobs	1 day	27.06.2020	INDIA SPARK
<i>Future of Jobs and Internships- Industry &amp; Academic Partnership Speaker</i>	1 day	04.07.2020	INDIA SPARK
How to write a Literature Review article	1 day	05.07.2020	METHODSIMPLIFY
Industry Expectations from Fresh Mechanical Engineers	1 day	08.08.2020	TATA POWER
Sintering Process and Technology under Indian Conditions	1 day	13.09.2020	National Institute of Technology, Durgapur
<i>LATEST TECHNOLOGIES &amp; PRACTICES FOR LUBRICATION RELIABILITY</i>	1 day	18.09.2020	Minimac Systems Pvt. Ltd.
Journey from Vacuum Tube to Carbon Nanotube	1 day	27.02.2021	R&D Cell, Dr. B. C.Roy Engineering College, Durgapur
<i>How to write an Effective Research Paper</i>	1 day	16.04.2021	R&D Cell, Dr. B. C.Roy Engineering College, Durgapur
Pipeline Project-Design Challenges	1 day	03.07.2021	Netaji Subhash Engineering College
Industrial Research in IOT	1 day	23.07.2021	TCS
RESEACH OPPORTUNITIES IN WIND ENERGY TECHNOLOGY	1 day	02.08.2021	National Institute of Wind Energy, Ministry of New and Renewable Energy, Govt. of India
INDUSTRIAL APPLICATION OF ROBOTICS	1 day	23.10.2021	Dr. B.C. Roy Engineering College, Durgapur Mechanical Engineering Department

**Conference:**

<b>Name of the event</b>	<b>Duration</b>	<b>Year</b>	<b>Organized by</b>
iNaCoMM 2013 - 1st International and 16th National Conference on Machines and Mechanisms	3 days	18.12.2013 - 20.12.2013	IIT Roorkee under the aegis of Association for Machines and Mechanisms & International Federation for the Promotion of Mechanism and Machine Science
ICADV 2016 - International Conference on Advances in Dynamics, Vibration and Control	3 days	25.02.2016 - 27.02.2016	National Institute of Technology, Durgapur-713209

**Workshop:**

<b>Name of the event</b>	<b>Duration</b>	<b>Year</b>	<b>Organized by</b>
Two weeks ISTE workshop on Engineering Thermodynamics	11 days	2012	IIT, Bombay
Two weeks ISTE workshop on Engineering Mechanics	11 days	2013	IIT, Bombay
One week Coordinators' Workshop on Fluid Mechanics	5 days	2014	IIT, Kharagpur, conducted under NMEICT (MHRD, Govt. of India)
Two Weeks Main Workshop on Fluid Mechanics	11 days	2014	IIT, Kharagpur under National Mission On Education Through ICT (MHRD, Govt. of India)

**Participation in faculty development programmes:**

<b>Name of the FDP</b>	<b>Duration</b>	<b>Modality</b>	<b>From - To</b>	<b>Organized by</b>
Two week ISTE workshop on Engineering Thermodynamics	11 days	Online	11.12.2012 - 21.12.2012	IIT, Bombay
Two weeks ISTE workshop on Engineering Mechanics	11 days	Online	26.11.2013 - 06.12.2012	IIT, Bombay
One week Coordinators' Workshop on Fluid Mechanics	5 days	Face-to-face	11.03.2014 - 15.03.2014	IIT, Kharagpur, conducted under NMEICT (MHRD, Govt. of India)
Two Weeks Main Workshop on Fluid Mechanics	11 days	Online	20.05.2014 - 30.05.2014	IIT, Kharagpur under National Mission On Education Through ICT (MHRD, Govt. of India)
Emerging Trends In Mechanical Engineering	2 days	Online	03.07.2020 - 04.07.2020	Dr. B. C. Roy Polytechnic, Durgapur
NPTEL course on Kinematics on Mechanisms and Machines	3 months	Online	January – March, 2021	NPTEL - AICTE

Innovations in Mechanical Engineering & Technology	3 days	Online	18.06.2021 - 20.06.2021	Dr. B. C. Roy Polytechnic, Durgapur
3d Printing and Design	5 days	Online	17.08.2021 - 21.08.2021	Dr. B. C. Roy Engineering College, Durgapur

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

<b>Name of the event</b>	<b>Date</b>	<b>Year</b>
NSS DAY DRAMA COMPETITION	24.09.2015	2015
DISASTER MANAGEMENT WORKSHOP BY NDRF TEAM	06.10.2015	2015
SARASWATI PUJA	13.02.2016	2016
SARASWATI PUJA	01.02.2017	2017

**Participation in administrative committees (selected):**

<b>Name of the post</b>	<b>Name of the committee</b>	<b>Year</b>
Departmental Co-ordinator, ME	NSS - BCREC	2015
Departmental Co-ordinator, ME	EXAM CELL, BCREC	2015 - 2019
Departmental Co-ordinator, ME	Training & Placement (Campus)	2018 - 2019
Core Team member	Training & Placement (Campus)	2019 –

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

**Membership of professional bodies:** IAENG (International Association of Engineers), Hong Kong.