

**Name:** DR. SUBHAS CHANDRA MOI



**Department:** Mechanical Engineering

**Contact Nos.:** 7501361453 / 9434677082

**Qualifications:** BE, ME, Ph.D.

**Designation:** Assistant Professor

**Vidwan ID:** 187465

**Experience (Teaching / Research / Industry, in years):** 17 Years

**Date of Joining at the Present Institution:** 12/02/2014

**Examinations Cleared:** NET-CSIR/GATE

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

Degree	Institute	From – To	Subjects
Ph.D.	Jadavpur University	2014-2019	Mechanical Engineering
ME	Jadavpur University	1999-2001	Mechanical Engineering
BE	Jadavpur University	1995-1999	Mechanical Engineering

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

Designation	Organization	Date From – Date To
Lecturer (Part-time)	Asansol Polytechnic	19/07/2004 - 24/02/2005
Assistant Professor	Bankura Unnayani Institute of Engineering, Bankura	26/02/2005 - 11/02/2014
Assistant Professor	Dr. B. C. Roy Engineering College, Durgapur	12/02/2014 - till date

**Specialization/Research Interest:** Welding, Machining, Mechanical properties of materials, Optimization etc.

**Awards & Recognitions:** HOD, Mechanical Engineering Department, Bankura Unnayani Institute of Engineering (From 01/11/2007 to 11/02/2014).

**Courses taught:**

**B.Tech:**

**Theory:** Engineering Mechanics, Manufacturing Processes, Materials Engineering, Machining Principles and Machine Tools, Advanced Welding Technology.

**Practical:** Workshop Practices, Workshop Practice-II, Practice of Manufacturing Processes, Machining & Machine Tools Lab.

**M.Tech:** NIL

**Online Mode of Teaching:** Google platform

**Publications:**

**Journal:**

- I. **MOI Subhas Chandra**, PAL Pradip Kumar, BANDYOPADHYAY Asish, RUDRAPATI Ramesh, “Determination of tungsten inert gas welding input parameters to attain maximum tensile strength of 316L austenitic stainless steel”, Journal of Mechanical Engineering – Strojnícky časopis, 2018, Vol. 68(3), pp. 231-248. Online ISSN: 2450-5471.  
DOI: <https://doi.org/10.2478/scjme-2018-0037>.  
<https://content.sciendo.com/view/journals/scjme/68/3/article-p231.xml>
- II. **Subhas Chandra Moi**, Pradip Kumar Pal, Asish Bandyopadhyay, Ramesh Rudrapati, “Effect of heat input on the mechanical and metallurgical characteristics of TIG welded joints”, Journal of Mechanical Engineering (JMecHE), 2019, Vol. 16(2), pp. 29-40. ISSN 1823-5514.  
<https://jmeche.uitm.edu.my/wp-content/uploads/2019/08/3%20P18-29%20Final.pdf>
- III. **S. C. Moi**, R. Rudrapati, A. Bandyopadhyay, P. K. Pal, “Parametric studies on TIG welding of 316L stainless steel by RSM and TLBO,” Materials Science Forum - Trans Tech Publications, 2019, Vol. 969, pp. 744-749. ISSN: 1662-9752.  
DOI: <https://doi.org/10.4028/www.scientific.net/MSF.969.744>  
<https://www.scientific.net/MSF.969.744>
- IV. **Subhas Chandra Moi**, Pradip Kumar Pal, Asish Bandyopadhyay, “Design Optimization of TIG Welding Process for AISI 316L Stainless Steel”, International Journal of Recent Technology and Engineering (IJRTE), 2019, Vol. 8(2), pp. 5348-5354. ISSN: 2277-3878.  
DOI: 10.35940/ijrte.B2709.078219.  
<https://www.ijrte.org/wp-content/uploads/papers/v8i2/B2509078219.pdf>

- V. **MOI Subhas Chandra**, RUDRAPATI Ramesh, PAL Pradip Kumar, BANDYOPADHYAY Asish, “Analysis of impact behaviour of TIG weldment by using hybrid RSM and CSO”, Journal of Mechanical Engineering – Strojnícky časopis, 2019, Vol. 69(4), pp. 105-114. On-line ISSN 2450-5471.  
DOI: 10.2478/scjme-2019-0046.  
<https://content.sciendo.com/view/journals/scjme/69/4/article-p105.xml>

**Conference:**

- I. S. C. Moi, A. Bandyopadhyay, P. K. Pal, “Optimization of TIG welding process parameters on tensile properties of 316l stainless steel using RSM”, INCOM18: Proceedings of the 1<sup>st</sup> International Conference on Mechanical Engineering, Jadavpur University, January 4 – 6, 2018, International Conference.

**Book:**

- I. **Subhas Chandra Moi**, “Hard Turning of AISI202 Stainless Steel-An experimental approach using hybrid RSM and GRA” LAP LAMBERT Academic Publishing, 2019, ISBN: 978-620-0-31073-6.
- II. **Subhas Chandra Moi**, “Determination of Optimal Cutting Parameters in CNC Turning by RSM” LAP LAMBERT Academic Publishing, 2019, ISBN: 978-620-0-25457-3.
- III. Rajeev Ranjan and **Subhas Chandra Moi**, “Parametric optimization of turning operation using Taguchi method”, LAP LAMBERT Academic Publishing, 2019. ISBN: 978-620-0-26417-6.

**Book Chapter:**

- I. Subhas Chandra Moi, Asish Bandyopadhyay, Pradip Kumar Pal, "Parametric Optimization of TIG Welding Process on Mechanical Properties of 316L Stainless Steel Using RSM", Chapter-15, pp. 315 – 336, Advances in Materials, Mechanical and Industrial Engineering, Lecture Notes on Multidisciplinary Industrial Engineering, Springer Nature Switzerland, 2019. Print ISBN: 978-3-319-96967-1, Online ISBN: 978-3-319-96968-8  
DOI: [https://doi.org/10.1007/978-3-319-96968-8\\_15](https://doi.org/10.1007/978-3-319-96968-8_15)
- II. S. C. Moi, R. Rudrapati, A. Bandyopadhyay, P. K. Pal, “Design Optimization of Welding Parameters for Multi-response Optimization in TIG welding Using RSM based Grey Relational Analysis”, Chapter-17, pp. 193-203, Advances in Computational Methods in Manufacturing, Lecture Notes on Multidisciplinary Industrial Engineering, Springer Nature Singapore, 2019. Print ISBN: 978-981-32-9071-6, Online ISBN: 978-981-32-9072-3  
DOI: [https://doi.org/10.1007/978-981-32-9072-3\\_17](https://doi.org/10.1007/978-981-32-9072-3_17)

**Supervision of Ph.D/M.Tech / B.Tech Projects:****For Ph.D:** NIL**For M.Tech:**

Name of the students / University Roll No	Name of the supervisor	Title of the Thesis	Year
ANIRBAN DEY 12012414001	Prof. Subhas Chandra Moi	Parametric optimization of TIG welding of AISI316L stainless steel with help of RSM method	2016
BABAN RAJAK, 12012417004	Prof. Subhas Chandra Moi	Experimental investigation of hot turning operation of AISI202 using carbide tool	2019
BISHWAJIT CHANDRA, 12012418008	Dr. Subhas Chandra Moi	Determination of welding input parameters to attain maximum tensile strength in gas and arc welding of mild steel rod	2020
SUBHAM CHATTERJEE 12062419001	Dr. Manoj Kundu & Dr. Subhas Chandra Moi	An experimental study on the effect of manual metal arc welding (MMAW) parameters on the weld – bead characteristics	2021

**For B.Tech:**

Name of the students / University Roll No	Name of the supervisor/s	Title of the Thesis	Year
Rakesh Porey / 12000713138	Prof. Subhas Chandra Moi	Parametric optimization of TIG welding by Taguchi optimization technique	2016
Rana Dutta / 12000713139			
Sandipan Sen / 12000713140			
Santu Nayek / 12000713142			
Shubhashis Das / 12000713143			
Somnath Biswas / 12000713144			
Somnath Dutta / 12000713145			
Binoyananda Nandi / 12000714133	Prof. Subhas Chandra Moi	Optimization of cutting parameters for surface roughness and MMR in CNC turning of aluminium alloy 6061 using RSM	2017
Debojyoti Kar / 12000714134			
Dilip Kumar Sen / 12000714135			
Dilwara Easmin / 12000714136			
Hazrat Ali / 12000714137			
Himangshu Pramanick / 12000714138			
Indrajit Pal / 12000714139	Prof. Subhas Chandra Moi & Prof. Rajeev Ranjan	Multi objective optimization of machining parameters in turning operation of stainless steel 202 using Taguchi method with grey relational	2018
Jitendra Prasad Mahto / 12000715132			
Kaustab Mondal / 12000715133			
Madhushree Pal / 12000715134			
Partha Sarathi Dey / 12000715135			
Pronoy Ghosh / 12000715136			
Punam Kumari / 12000715137			
Rahul Kumar Dubey / 12000715138			

Rajat Subhra Nayek / 12000715139		analysis	
Rajib Gorai / 12000715140			
Ravi S. K. Mishra / 12000715141			
Sagar Kumar / 12000715092	Prof. Subhas Chandra Moi & Prof. Rajeev Ranjan	Optimization of cutting parameters in turning operation using Taguchi method	2019
Sahil Tabrez / 12000715093			
Sarvjeet Kumar / 12000715095			
Satyajeet Kumar Jha / 12000715096			
Saurav Kumar / 12000715097			
Saurav Kumar / 12000715098			
Shirsendu Ray / 12000715099			
Shivam, / 12000715100			
Shubham Kumar / 12000715101			
Shubham Kumar / 12000715102			
Shubham Kumar / 12000715103			
Shubham Kumar / 12000715104			
Minhaz Khan / 12000716107			
Md. Junaid Akhtar / 12000716108			
Md. Aamir Ahmed / 12000716109			
Mayank Kumar Mithu / 12000716110			
Manish Kumar / 12000716111			
Mahtab Alam / 12000716112			
Kumar Sourav / 12000716113			
Kumar Saurabh Shandilya / 12000716114			
Keshav Kumar / 12000716115			
Karan raj / 12000716116			
Jamini Mahato / 12000716117			
Hrishab Kumar Saha / 12000716118			
Haider Ansari / 12000716119			
Gouranga Charan Bera / 12000716120			
Dipayan Seal / 12000716121			
Dipanjan Maji / 12000716122			
Subham Singh / 12000717039	Dr. Subhas Chandra Moi & Prof. Rajeev Ranjan	Study the Effects of Welding Parameters of GMAW on Stainless Steel Cladding	2021
Somnath Banerjee / 12000717048			
Sharjeel Anwar / 12000717057			
Sawan Kumar Mishra / 12000717060			
Premjit Murmu / 12000717074			
Prasanjit Bid / 12000717075			
Prahalad Singh / 12000717076			
Nirad Prabhas / 12000717081			
Suraj Das / 12000718004			
Ritesh Kumar / 12000718015			
Nishant Kumar / 12000718018			
Arnab Chatterjee / 12000718029			
Arkaprova Mukherjee / 12000718030			

**Invited Lectures: NIL**

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

<b>Name of the event</b>	<b>Duration</b>	<b>Year</b>	<b>Organised by</b>
Short term training programme on "Principles of TIG & MIG welding"	01 week	2013	NITTTR, Kolkata
National Work shop on " Solar Power: Tomorrow's Major Source of Electricity"	02 days	2013	Jadavpur University
Work shop on "Genetic Algorithms: Concept and Application"	05 days	2013	Bankura Unnayani Institute of Engineering
National Conference on "Mechatronics, Robotics and Automation"	03 days	2014	Bankura Unnayani Institute of Engineering
Seminar on "Advances in Welding Technology"	01 day	2015	Dr. B. C. Roy Engineering college
Seminar on "Advances in Nano-Satellite Technology"	01 day	2015	Dr. B. C. Roy Engineering college
work shop on "Advances in Joining Processes"	02 days	2016	Jadavpur University
work shop on "Advanced Machining Processes"	01 day	2017	Jadavpur University
Seminar on "Theory of Innovation"	01 day	2017	Dr. B. C. Roy Engineering college
Perspectives and Challenges in Outcome Based Research	05 days (13-17 July)	2020	National Institute of Technology, Tiruchirappalli
Short term course on "Industry 4.0 and Smart Manufacturing: Opportunities and Challenges"	One week (20-24 July)	2020	Dr. B. R. Ambedkar National Institute of Technology, Jalandhar
Short term course on "Reliability, Maintainability and Quality Issues in Process Industries"	One week (04-08 Aug)	2020	Dr. B. R. Ambedkar National Institute of Technology, Jalandhar
Short term course on "How to define Research Problems and Solving Methods in Sustainable Design, Manufacturing and Energy Engineering"	One week (24-28 Aug)	2020	National Institute of Technology Silchar,
Short term training programme on "Smart Manufacturing – Opportunities & Challenges"	6 days (17-22 Aug)	2020	St. Joseph's College of Engineering, Chennai
Short term training programme on "Composite materials : micro to nano – fabrication characterization And modelling including additive manufacturing"	07 days (23-30 November)	2020	Rajalakshmi Engineering College, Chennai

**Participation in faculty development programmes:**

<b>Name of the faculty development programmes</b>	<b>Duration</b>	<b>Year</b>	<b>Organised by</b>
AICTE Training And Learning (ATAL) Academy online FDP on “Green Technology & Sustainability Engineering”	05 days (14-18 September)	2020	National Institute of Technology Jamshedpur
AICTE Training And Learning (ATAL) Academy online FDP on “Stress management”	05 days (21-25 September)	2020	Gauhati University Institute of Science and Technology
Online FDP on “Emerging Trends In Mechanical Engineering”	02 days (03-04 July)	2020	Dr. B. C. Roy Polytechnic Durgapur
Online FDP on “Higher Education 2020: Requirements and Expectations”	One week (8-12 July)	2020	College of Engineering, Osmanabad
Online FDP on “Sustainable Mobility Solutions in the Indian Context”	05 days (27-31 July)	2020	Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad
Online FDP on “E-Contents and ICT Tools for Innovative and Effective Teaching & Learning Process”	One week (8-14 Aug)	2020	Roorkee College of Management & Computer Applications, Roorkee,
Online FDP on “Advanced Nano Materials, Nano Fabrication Techniques & Devices”	05 days (10-14Aug)	2020	BMS Institute of Technology and Management, Bengaluru
Online FDP on “AICTE Exam Reforms- An Overview”	03 days (27-29 Aug)	2020	ATME College of Engineering, Mysore
Online FDP on “Renewable Energy Technologies for Sustainable Development”	05 days (15 - 19 June),	2021	Dr. B. C. Roy Polytechnic Durgapur

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

**Participation in administrative committees (selected):** Member / IDEA Lab work Execution Committee / 2021

(Name of the post (Convener/Joint Convener/Member secretary/Co-ordinator etc.), Name of the committee, year)

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

**Membership of professional bodies: IEEE, IETE, IET, CSI, MGMI etc. :** IAENG