

Name: Dr. Rupali

Department: Mechanical Engineering

Contact Nos.: 9832477775 / 7585886117

Qualifications: Ph. D in Engineering

Designation: Assistant Professor



Experience (Teaching / Research / Industry, in years): Teaching: 14 Years 10 Months
 Industry: 1 Year 2 Month
 Research: 8 Years

Date of Joining at the Present Institution: 04/09/2012

Examinations Cleared(NET-CSIR/GATE): NA

Qualifications Summary (Reverse chronological order):

SL. NO.	DEGREE	UNIVERSITY/INSTITUTE	YEAR OF PASSING / FROM - TO	SUBJECTS
1	Ph.D. IN ENGINEERING	JADAVPUR UNIVERSITY, KOLKATA	11.05.2018 (OCTOBER, 2010 TO MAY, 2018)	MECHANICAL ENGINEERING (PRESSURE VESSEL DESIGN)
2.	MASTERS IN MECHANICAL ENGINEERING	JADAVPUR UNIVERSITY, KOLKATA	2009	MECHANICAL ENGINEERING (MACHINE DESIGN)
3.	BACHELOR IN MECHANICAL ENGINEERING (B.E)	UTKAL UNIVERSITY / C.V. RAMAN COLLEGE OF ENGINEERING (C.V. Raman Global University) ,BHUBNESWAR, ODISHA,	2004	MECHANICAL ENGINEERING
4.	DIPLOMA IN MECHANICAL ENGINEERING (12th or equivalent)	WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION / MALDA POLYTECHNIC	2001	MECHANICAL ENGINEERING
5.	12th (HIGHER SECONDARY)	(W.B.C.H.S.E) BARLOW GIRLS' HIGH SCHOOL, MALDA	1999	BIO-SCIENCE WITH MATH.
6.	10th	WEST BENGAL BOARD OF MADRASAH EDUCATION /OSMANIA HIGH MADRASAH, MALDA	1995	ALL COMMON SUBJECTS

Experience Summary (In Chronological Order):

SL. NO.	DESIGNATION	ORGANIZATION	DATE FROM -DATE TO
1	Asst. Professor	DR. B.C. ROY ENGINEERING COLLEGE ,DURGAPUR	04/09/2012 to Till Date
2	Asst. Professor	DIATM,RAJBANDH, DURGAPUR	05/08/2011 to 03/09/2012
3	Sr. Lecturer	B.C.E.T.W, DURGAPUR	16/08/2010 to 16/07/2011
4	Sr. Lecturer	IMPS COLLEGE OF ENGINEERING ,MALDA	04/08/2007 to 14/08/2010
5	Lecturer	AIEMD,PANAGARH,DURGAPUR	12/08/2006 to 28/06/2007
6	Apprentice Trainee	C.S.T.C, BELGHORIA,KOLKATA	16/03/2006 to 11/08/2006
7	Shop Manager	NEW HONDA,MALDA	25/09/ 2004 to 10/08/2005

Specialization/Research Interest: PRESSURE VESSEL DESIGN, STRESS ANALYSIS AND FATIGUE LIFE OF DIFFERENT STRUCTURE,

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

Courses taught (B.Tech and M Tech) :

B.Tech: Engineering Mechanics, Thermal Power Engineering, Engineering Drawing, Material Testing Lab, Thermal Power Engineering Lab.

M.Tech: N.A

Online Mode of Teaching:

C:\Users\RUPALI\Documents\Zoom\2020-04-07 11.08.01 Air Standard Cycle(Otto and Diesel)
711486851

Publications:

Journal Publications :

- 1. Rupali**, "Thermo-Mechanical Autofrettage Process of Spherical Vessel" ,International Journal of Engineering and Advanced Technology (IJEAT), February 2020, Volume -9 Issue-3, ISSN: 2249 – 8958(SCOPUS), DOI: 10.35940/ijeat. B4098.029320
- 2. Rupali**, S. Sarkar and S. C. Mondal," Effect Of Tangent Modulus On Residual Stresses Of A Spherical Vessel Subjected To Internal Pressure", JETIR, June 2019, Volume 6, Issue 6, pp., 419-423, ISSN-2349-5162. .(UGC Approved Journal No-63975).
- 3. Rupali**, S Dinda, S K Baranwal , S Kubhkar, S Shaw, S Ghosh and S Kumar," Roof cooling cover with the use of Polyester fabric and naturally Available low thermal conductivity Material", JETIR , May 2018, Volume 5, Issue 5,pp. 577-586, (UGC APPROVED) ISSN-2349-5162.
- 4. Rupali**, S. C. Mondal and S. Sarkar," Finite Element Analysis of Thermally Autofrettaged strain-hardening Spherical vessels, International Journal of Research in Engineering & Applied Sciences(IJREAS), May 2017, pp.218-230, ISSN(O):2249-3905, ISSN(P):2349- 6525, (UGC APPROVED ACCORDING TO UGC FIRST LIST ON 2016).
- 5. Rupali**, S. C. Mondal and S. Sarkar," Analytical and Finite Element Analysis of Thermal Autofrettage process in Spherical vessel", ISOR Journal of Mechanical and Civil Engineering, (May.-June.2017) , Volume 14,Issue 3,Ver.II, pp10-16, ISSN(P) 2320-334X, ISSN(E) 2278-1684,
- 6. Rupali** and S C Mondal," Finite Element Analysis for Predicting Residual Stresses of Autofrettaged Spherical vessels considering Bauschinger Effect", International Journal of Scientific & Engineering Research, August-2015, Volume 6, Issue 8,pp. 912-919, ISSN : 2229-5518 (UGC APPROVED).
- 7. N Sultana** and S C Mondal, "Design of spherical vessel Considering Bauschinger Effect", International Journal of Research in Engineering & Applied Science (IJREAS), (February 2012), Volume 2, Issue 2,pp.696-719,ISSN: 2249-3905, (UGC APPROVED ACCORDING TO UGC FIRST LIST ON 2016).

Conference Publications :

- 1. N Sultana**, and S C Mondal, "Analytical Frame for Residual stress distribution of spherical vessel", National Conference on Emerging Trends in Mechanical Engineering 2012(NCE TIME'12) 8th-9th March, Department of Mechanical Engineering, Sathyabama University, Jeppiaar Nagar, Rajiv Gandhi Road, Chennai 600119.
- 2. N. Sultana**, and S C Mondal, "Thermo-Mechanical Stress of spherical vessel", International Conference on Information, Knowledge & Reasearch in Engineering, Technology and Sciences (CIKR-ETS-2012), ISBN-978-81-906220-3-5.
- 3. N Sultana**, P Nayak and S C Mondal, "Stress-strain analysis of an open-ended thick cylinder of strain hardened material by auxiliary angle method", International Conference on Mechanical Engineering 2011 (ICME2011) 18-20 December 2011, Dhaka, Bangladesh.

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

For Ph.D: N.A

M.Tech Thesis:

Sl. No.	Title of Dissertation/Project	Name and Roll of student	Year	Co-Supervisor[s], if any
1	Theoretical analysis of stress distribution in thick walled cylindrical pressure vessel of strain hardening materials	LIPIKA MOHANTY (ROLL-12020112004)	2013-2014	Dr. S.K Majumdar
2	FE analysis of stress distribution of rectangular vessel	DILWARA EASMIN (ROLL- 12012417002)	2018-2019	N.A
3	Analysis And Testing Of Cylindrical Pressure Vessel	ABHISHEK PRASAD (ROLL- 12012418009)	2019-2020	N.A
4	Analysis of rectangular vessels with ansys	DHIRENDRA LAL CHOWDHARY (ROLL-12012418006)	2019-2020	N.A

B.Tech Project

Sl. No.	Title of Dissertation/Project	Year	Student 's Roll No	Co-Supervisor[s], if any
1	SOLAR COOKER	2013	Dipta Das AnkitbTiwari Bikram Pratap Choudhuri Arindam Chakraborty	N.A.
2	AUTOMATED SOLDERING MACHINE	2014	Prasant Kumar (12000710005) Anindita Chakroborti (12000710009) Gaurav Kumar Punit (12000710037) Tapabrata Samanta (12000710044) Rahul Kumar (12000710050)	N.A.
3	LEMON BATTERY	2015	Sumit Kumar Shrivastav (12000711061) Vishwajeet Kumar (12000711021) Vivek Kumar (12000711063) Abhishek Kumar (12000712219) Abir Dhar (12000712220)	N.A.

4	DISTANCE MEASURING WHEEL	2016	RAJ KUMAR (12000712177) RAJANI RANJAN (12000712178) RAJESH DUARY (12000712179) RAMANJAN GANGULY (12000712180) RUPESH KUMAR (12000712181) SALAZ KUMAR (12000712182) SAMPAT KUMAR (12000712183)	N.A.
5	ROOF COOLING COVER	2017	SUMIT GHOSH (12000713111) SUMIT KUMAR BARANWAL (12000713112) SUMIT SHAW (12000713113) SUNIL KUMBHKAR (12000713114) SURAJ KUMAR (12000713115) SURAJIT DINDA (12000713116)	N.A.
6	INVESTIGATION OF EFFECT OF HEAT TREATMENT ON FATIGUE BEHAVIOUR IN MEDIUM CARBON STEEL AND ALLOY STEEL	2018	PARTHA DEY (12000714064) PAWAN KUMAR (12000714065) PRADIP KUMAR MAJI (12000714066) PRAKASH KUMAR (12000714067) PRASHANT KUMAR (12000714068) PRASANT KUMAR SUMAN (12000714069) PRASHIL PATEL (12000714070) PREETAM PANDA (12000714071) PRITAM BID (12000714072) PRITAM GHOSHAL (12000714073) PRIYANSHU SINGH (12000714074) PRONOY PAUL (12000714075)	Dr. S.K Majumdar
7	A STUDY OF WIND TURBINE POWER GENERATION AND ITS CONTROL STRATEGY	2019	RAJAT KARMAKAR (12000716018) RAFIUL HOQUE (12000716019) PRANAB SEN (12000716020) MITHILESH KUMAR (12000716021) KAZI SAFQUAT SAHBAZ (12000716023) DIPANGSU KARMAKAR (12000716024) DEBDULAL RAJ (12000716026) CHANDI PRASAD JANA (12000716027) ARIJIT GANGULI (12000716028) ANANTALAL DAS (12000716029) AKHIL BHARTI (12000716030) ABHISHEK CHAKRABORTY (12000716031)	Dr. S.K Majumdar

8	SANITARY NAPKIN INCINERATOR	2020	PRASOON BARNWAL (12000717012) NISHANTA MUKHERJEE (12000717013) NIRAJ KUMAR MISHRA (12000717014) MAINAK DAS (12000717015) KAUSIK GHOSH (12000717016) AYAN MONDAL (12000717017) ANUBRATA DAS (12000717018)	N.A.
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Invited Lectures: N.A

Organized programs /conference/webinar/seminar/workshop:

SL.NO	Title	Resource Person	From	To	Institute/ Organization
1	Webinar on Effective Paper Writing And Publishing	Dr.Kaushik Kumar ,Associate Professor, Department of Mechanical Engg., Birla Institute of Technology, Mesra, Ranchi, India - 835215	20 th Feb 2021	20 th Feb 2021	Dr. B.C. Roy Engineering College,Durgapur

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

Sl. No.	Name and details	Sponsored by	From	To	Institute/Organiza tion
1	International Conference on Mechanical Engineering 2011 (ICME2011) Dhaka, Bangladesh,	BUET	18th December 2011,	20th December 2011,	BUET, Dhaka, Bangladesh
2	International Conference on Information, Knowledge & Reasearch in Engineering, Technology and Sciences (ICIKR-ETS-2012),	G.K Bharad Institute of Engineering, AES Sangli, Maharashtra	24 th March, 2012	25 th March, 2012	AES Sangli, Maharashtra

3	National Conference on Emerging Trends in Mechanical Engineering 2012(NCE TIME'12	Sathyabama University, Jeppiaar Nagar, Rajiv Gandhi Road, Chennai 600119.	8th March, 2012	9th March, 2012	Sathyabama University, Jeppiaar Nagar, Rajiv Gandhi Road, Chennai 600119.
4	One Day work shop on casting simulation and optimisation : bottlenecks and best practice	Jadavpur University	28/08/2009	28/08/2009	Jadavpur University
5	Seminar on Emerging Challenges in Mechanical Engineering	TEQIP-II Sponsored	15/03/2017	16/03/2017	Jadavpur University
6	National level seminar on Additive manufacturing technology at Central Tool Room and Training Centre ,Bhubneswar	Central Tool Room and Training Centre	22/02/2014	22/02/2014	Central Tool Room and Training Centre ,Bhubneswar
7	ICCIEMI-2012	EARDA	29/01/2012	29/01/2012	Euro Asia Research And Development Association (EARDA),JAGADHRI.
8	Theory of Innovation	BCREC, Durgapur	14/11/2017	14/11/2017	Dr. B.C. Roy Engineering Collegee ,Durgapur
9	Nano-Satellite Technology	BCREC, Durgapur	04/11/2015	04/11/2015	Dr. B.C. Roy Engineering Collegee ,Durgapur
10	National conference on recent trends in engineering and technology including non-conventional energy	IMPS College and IET	10/04/2010	10/04/2010	IMPS College , Malda.
11	Two day Technical Workshop on recent trends in machine intelligence, data mining and soft computing techniques and its impact on research and development	BCREC, Durgapur	23/11/2013	24/11/2013	Dr. B.C. Roy Engineering Collegee ,Durgapur

12	Seminar on Advance in Welding Technology at BCREC, Durgapur.	BCREC, Durgapur	07/02/2015	07/02/2015	Dr. B.C. Roy Engineering Collegee ,Durgapur
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Participation in faculty development programmes(FDP):

SL. NO	FROM	TO	INSTITUTE/ ORGANIZATION	SPONSORED BY	NAME OF THE COURSE
1	02/07/2007	21/07/2007	Jadavpur University	UGC Sponsored	UGC Sponsored refresher course on Fracture ,Fatigue and Structural Integrity
2	11/06/2018	15/06/2018	Jadavpur University	TEQIP-III Sponsored	TEQIP-III Sponsored course on Fatigue ,Fracture and Tribological properties of material

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

Sl. No.	Nature of Activity	Activity Title	Department / Institute	From	To
1	Coordinator Of Guest Lecture	Role Of Mechanical Engineers On Steel production	Mechanical Engineering Dept /Dr.B.C.Roy Engineering College	15/02/2019	N.A
2	Coordinator Of Seminar For Training Program	Tata Power Skill Development Institute	Mechanical Engineering Dept /Dr.B.C.Roy Engineering College	01-02-2019	N.A

3	MEMBER OF RESEARCH COMMITTEE, PROJECT MONITORING AND INDUSTRIAL LIASING(PMIL)CELL	1. Prepare Project Report For DST .But Not Able To Submit Due to PFMS System in 2018 2. Submitted Project Synopsis For MAKAUT Exhibition 2018 . 3.Participate and present project as a exhibitor in 8th IME Exhibition on 6th November 2019	Dr.B.C.Roy Engineering College	13/12/2017	T
4	REVIEW BOARD MEMBER	The Bulletin of Engineering and Science(BES)	DR.B.C.ROY ENGINEERING COLLEGE	29/08/2019	TILL DATE
5	CORE MEMBER	PREVENTATION, PROHIBITION AND REDRESSAL OF SEXUAL HARASMENT OF WOMEN EMPLOYEES AND STUDENTS COMMITTEE	DR.B.C.ROY ENGINEERING COLLEGE	22-12-2017	2019
6	MEMBER OF SPORTS COMMITTEE	COLLEGE SPORTS COMMITTEE	DR.B.C.ROY ENGINEERING COLLEGE	05-05-2018	TILL DATE
7	COORDINATOR	MAR EXTRA CURRICULAM COMMITTEE	DR.B.C.ROY ENGINEERING COLLEGE	19-12-2017	TILL DATE
8	COORDINATOR OF WALL MAGAZINE COMPETION	ORGANISE WALL MAGAZINE COMPETITION IN EVERY YEAR	DR.B.C.ROY ENGINEERING COLLEGE	30-05-2018	2019
9	TECH-FEST COORDINATOR	ORGANISE DIFFERENT EVENT FOR STUDENT IN TECH -FEST	DR.B.C.ROY ENGINEERING COLLEGE	13-12-2018	2019
10	COORDINATOR	SARASWATI PUJA COMMITTEE	DR.B.C.ROY ENGINEERING COLLEGE	2019	2019

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

Sl. No.	Name of Professional body	Membership No
1	THE INSTITUTION OF ENGINEERS (INDIA)	M-162337-5 [Chartered Engineer(India)]

Reviewer Of Journal Paper:

SL.NO	Journal Name	ISSN NUMBER
1	BMSE, SPRINGER	(E) ISSN:1806-3691,(P) ISSN:1678-5878
2	JOURNAL OF THE INSTITUTION ENGINEERS(INDIA) ,SPRINGER,	ISSN-22500545, ISSN- 22500553
3	JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, SPRINGER	ISSN(P):1738-494X, ISSN(E):1976-3824