Subrata Kumar Ghosh

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1.	Name in full (in	Name in full (in block letters)			SUBRATA KUMAR GHOSH					
2.	Father's/Husband	Mr. Ami	Mr. Amiya Kumar Ghosh							
3.	Mother's Name	Mrs. Mr	idula R	ani Ghos	h					
4.	Date of Birth		02.05.19	77						
	Age as on 01.01.	47	Year	7	Month	30	Day			
5.	a) Marital Status	b) Gene	b) Gender: Male/ Female							
6.	a) Permanent add Village + Post: E Dist: Hooghly Pin: 712413 (WH		nent of (I) Dha			eering				
	Phone (with STD)/ Mobile No.	E-mail	s	ubrata@iit	tism.ac.in					
7.	Nationality	Indian								
8.	 Category under which seeking reservation/relaxation 			C/ST/	OBC/PW	Æ				

Educational Qualification:

Exam. Passed	Specialization	Board/University	Passing	Class/	%marks/
			year	Division	CGPA
B.E	Mechanical	R.E.College, Durgapur	2000	First Class	71.1
	Engineering	(Burdwan University)			
M.Tech	Mechanical	R.E. College, Durgapur	2003	First Class	75.6
	Engineering	(Burdwan University)			
Ph.D	Thermal	NIT Rourkela	2008		
	Engineering				
Post Doc	Tribology	Trento University, Italy	Dec. 14 to		
			May 15		

Scholarship/Awards

Sl. No	Name of Scholarship	Year	Awarded By
1	Erasmus Mundus Action 2 AREAS+	2014	Erasmus Mundus
2	DUO-India Professor Fellowship Award	2020	ASEM-DUO Fellowship
3	Top 2% of Scientists on the basis of research publication	2021	Survey conducted by Stanford University
4	Top 2% of Scientists on the basis of research publication	2022	Survey conducted by Stanford University
5	Top 2% of Scientists on the basis of research publication	2023	Survey conducted by Stanford University
6	Top 2% of Scientists on the basis of research publication	2024	Survey conducted by Stanford University

Details of employments:

Teaching: Total: 17 years 8 months

Post PhD: 15 years 9 months

Sl.No.	Name and address of employer	Designation	Pay-scale	From	То	Duration	Type of organization
1	BIT Mesra Ranchi	Lecturer	Basic 8000	31.01.2007	30.03.2008	1 years 02 months	Private
2	IIT (ISM) Dhanbad	Assistant Professor	PB 3, AGP: 7000 (6 th CPC)	01.04.2008	30.01.2010	1 year 10 months	Govt.
	IIT (ISM) Dhanbad	Assistant Professor	PB 3, AGP: 8000 (6 th CPC)	31.01.2010	05.09.2013	3 years 07 months	Govt.
	IIT (ISM) Dhanbad	Assistant Professor	PB 4, AGP: 9000 (6 th CPC)	06.09.2013	06.11.2017	4 years 02 months	Govt.
3	IIT (ISM) Dhanbad	Associate Professor	PB 4, AGP: 9500 (6 th CPC)	07.11.2017	11.07.2024	6 years 09 months	Govt.
4	IIT (ISM) Dhanbad	Professor	PB 4, AGP: 10500 (6 th CPC)	12.07.2024	Till date		Govt.

Details of Project

R&D Project

Sl No	Title of the Project	Sanctioning Authority	Amount (Rs)	Time Period and Duration	Status	Role
1	Experimental Investigation on the Heat Transfer Enhancement of Hybrid Nano Fluids in a Plate Heat Exchanger	ARDB, DRDO	20,53,500/-	01.06.17 - 07.12.20 3 years	Completed	PI
2	Nano lubricating fluids (NLF) and thermally conducting fluids (TLF): Study of microstructural changes in I C engine components and thermal property evaluation	DMSRDE, DRDO	950,000/-	02.04.2018 - 30.09.2019 1.5 years	Completed	PI
3	Investigation of heat transfer enhancement in some novel geometries using nanofluids for electronic cooling application	SERB, DST	33,22,300/-	27.09.2016 – 26.09.2019 3 years	Completed	Co- PI
4	Design and deployment of Ventilation Fan Wind Power Recovery System as an alternate source of Electrical Energy in Underground Coal Mines"	CIL	66,70,000/-	08.02.2021 – 07.02.2024 3 years	Completed	Co- PI
5	Collaborative work for laboratory study on nano-lubrication in hot rolling	SAIL	6,49,000/-	03.09.2022 – 02.07.2023 10 months	Completed	PI
6	Performance Evaluation of Nano Lubricants in Cryogenic Environment for Low-Temperature Applications	DMSRDE, DRDO	48,82,900/-	14.06.2023 – 13.06.2026	Ongoing	PI
7	Development of the performance parameters for commercial Potentizer in Homeopathy.	BIS	9,97,200/-		Sanctioned on 31.12.2024	PI

Industrial Consultancy

Sl No	Title of the Project	Sanctioning Authority	Amount (Rs)	Time Period	Status	Role
1	Investigation Report-Explosion in Cold Box of LOX Plant	Electro Steel Casting, Bokaro	2,30,000/-	03.06.2016 – 30.09.2016 –	Completed	PI

Departmental Project

Sl	Title of the Project	Sanctioned	Amount	Time Period	Status	Role
No		Authority	(R s)			
1	Development of Condition Monitoring Laboratory through Lube Oil Analysis	DST (FIST)	50,00,000/-	01.04.2013 to 31.03.2018	Completed	PI
2	Augmentation of Research Facility In the Department of Mechanical Engineering	DST (FIST)	18700000/-	5 years 14.07.2019 to 31.07.2024	Ongoing	Co- PI

Institutional Project

Sl	Title of the Project	Sanctioned	Amount	Time Period	Status	Role
No		Authority	(R s)			
1	Performance Study of Pulse Tube	IIT (ISM)	12,10,000/-	01.05.2011 to	Completed	PI
	Refrigerator	Faculty Research		30.04.2014		
	C	Scheme (FRS)				
		Project		3 years		
2	Condition Monitoring and the	IIT (ISM)	200,000/-	25.11.2016 to	Completed	PI
	Performance Analysis of 4-Stroke	Minor Research		31.03.2017		
	Petrol Engine by Using	Project (MRP)		4 months		
	Nanolubricant	under TEQIP-II				

Seminars/Short Term Courses /Summer Schools/ Winter Schools organized

Sl. No.	From	То	Name of the course	As Chairman /Coordinator	Number of Participants
1	17.06.13	21.06.13	Condition Based Maintenance of Mining Equipment	Coordinator	22
2	01.09.14	05.09.14	Condition Based Maintenance of Mining Equipment	Co-Coordinator	12
3	07.08.17	11.08.17	Tribology and Lubrication Technology in Mining Industry	Coordinator	24
4	12.10.17	13.10.17	Maintenance of HEMM for HPCL executives	Co-Coordinator	10
5	07.05.18	12.05.18	Maintenance, Lubrication and Automation of Mining Equipment	Coordinator	11
6	01.11.18	02.11.18	Tribology for Industry	Coordinator	40
7	23.09.24	27.09.24	Condition-Based Maintenance: Integrating Oil Analysis, Vibration Analysis, and Tribology	Coordinator	24

Guest Lecture Organized

Sl. No.	Name of the External	Affiliation	Topic of Lecture	Date and	Duration	Sponsored	Lecture to
1	Shri Sujit Sen	GM Engg (Retd.),TRF, Jamshedpur	Crusher Design	10.8.13 & 11.8.13	6 hrs	TEQIP II	B.Tech MME/MLE, MTech MME/MLE students
2	Shri Banibrata Mukherjee	Assistant Manager, SAIL (Bokaro Steel Plant)	Condition Monitoring and Tribology	05.9.13	3 hrs	TEQIP II	B.Tech and MTech Mechanical Engineering
3	Dr. Dipanakar Chatterjee	Senior Scientist CMERI, Durgapur	Mathematical Modeling and Numerical Simulation of High Power Laser Assisted Manufacturing Processes	23.09.13	3 hrs	TEQIP II	B.Tech and MTech Mechanical Engineering
4	Prof. Prabal Kumar Ray	Professor (Retd.), NIT Rourkela	Metal Fatigue in Engineering Structure	23.02.18	2 hrs	TEQIP-III	MTech and JRF Mechanical Engineering

Details of PhD Students (Guided and Ongoing):

Sl. No.	Name of Student	Year of enrolment	Title of the Dissertation	Status (Completed /Ongoing)
1	Mayukh Sarkar	2012	Theoretical and Experimental Studies of Wear in Mine Excavator Bucket	Completed 2016
2	Ankit Kotia	2013	Experimental and Mathematical Analysis of Nanolubricant for Performance Evaluation	Completed 2017
3	Vikas Kumar	2014	Experimental investigation on the performance of nanofluids in a plate heat exchanger	Completed 2017
4	Animesh Biswas	2010	Experimental and Numerical Analysis of G M Type Double Inlet Pulse Tube Refrigerator	Completed 2018
5	Naveen Kumar Gupta	2014	Thermal Performance of Heat Pipe using Nanofluids	Completed 2018
6	Ashwani Kumar	2014	Health Monitoring of Heavy Earth Moving Machinery through Used Oil Analysis	Completed 2019
7	Rahul Kumar	2015	Computational Analysis of Rayleigh Step Bearing Operating under Elastohydrodynamic Lubrication	Completed 2020
8	Jyoti Prakash Singh	2016	Experimental Investigation on Carbon Nanostructures Based Lubricants and Coolants	Completed 2021
9	Subrata Bhowmik	2017	Experimental and Artificial Intelligence Analysis on Performance, Combustion and Exhaust Emission of Compression Ignition Engine Fuelled by Diesel-Kerosene- Ethanol-Hydrogen	Completed 2021
10	Saurav Manna	2016	Heat Transfer from upward facing heat sinks having pin or radial fins under natural convection	Completed 2022
11	Rakesh Ranjan	2016	Study of wear debris for predicting the machine condition	Completed 2022
12	Santosh Kumar	2017	Theoretical and Experimental Investigation on Wear in Brake Pad System	Completed 2022
13	Ashutosh Pare	2017	Theoretical and Experimental Studies on Pool Boiling of Nanofluids	Completed 2022
14	Shiva Singh	2018	Performance Analysis of Plate Heat Exchanger using Hybrid Nanofluids	Completed 2022
15	Akhilesh Tripati	2017	Flow simulation of non-Newtonian liquid metals passing through a channel with obstruction	Completed 2023

16	Isha Srivastava	2017	Experimental and Mathematical Analysis on the Effect of	Completed
			Additives in Behaviour of Lubricants	2024
17	Abhisek Haldar	2017	Experimental and Mathematical Analysis of Alternative	Completed
			Nanofuels in I C Engines	2024
18	Gaurab Kr Ghosh	2018	Experimental and Mathematical Analysis of Gear Oil Based	Completed
			Nanolubricants	2024
19	Kuwar Mausam	2018	Solar Energy Harvesting and Storage by Nanoparticles	Completed
				2023
20	Nikunj Upadhyay	2019	Experimental and Numerical Investigation on CI Engine using	Ongoing
			Alge-Biodiesel	
21	Harshit Pandey	2022	Battery Thermal Management System	Ongoing
22	Yashwant Kr. Singh	2022	Wind Turbine	Ongoing
23	Ritesh Kr. Patel	2023	Nano-lubricant in Hot Rolling Process	Ongoing
24	Swaraj Aditya	2024	Heat Exchanger	Ongoing
25	Rahul Kumar	2024	Renewable Energy	Ongoing
26	Equbal Hassan	2024	Tribology	Ongoing
27	Amitesh Kumar	2025	Cooling System	Ongoing

Patents Applied

S1.	Title of the Patent	Filed No.	Publication	Grant No	Grant Date
No.			Date		
1	Process for Preparation of Nano graphite and Implementations thereof.	201811040824, 2018	01.05.2020	356189	20.01.2021
2	Lubricant Composition and Process of Preparation thereof.	201811047505, 2018	19.06.2020	380316	27.10.2021
3	A Composite Material, it's Process of Preparation, and Application thereof	201911024643, 2019	25.12.2020	469662	16.11.2023
4	Composite Material for Brake Pad	202031005648, 2020	13.08.2021	513520	21.02.2024

PhD Examined

S1 No	Title of the PhD Thesis	Student's Name	Institute Name	Month & Year
1	Experimental Investigations of Thermo-hydraulic Performance of Solar Air Heater using V-Shaped ribs with Symmetrical Gap and Staggered Elements	Piyush Kumar Jain (Scholoar No. 143116004)	MANIT Bhopal	July, 2020
2	Performance analysis of triangular solar air heating system	Rahul Kumar (Roll No: 18912003)	GLA University, Mathura	April, 2022
3	Performance analysis of solar still using nanofluids	Ajit (Roll No: 189121005)	GLA University, Mathura	August, 2022
4	Experimental investigations of the effect of compression ratio and fuel injection strategies on combustion, performance and emission characteristics of Undi biodiesel blended fuel in DI engine	Pravin Ashok Madane (17EDMER001)	NIT Agartala	April, 2024
5	Analysis and simulation of fluidised bed drying of soybeans	Kunwar Sandip PhD/ 15/ME/2027	AKTU, Lucknow	July, 2024
6	A study on the impact of acetylene in ci engines at advanced RCCI combustion strategies	Parthasarathi Deb 19-3-02-112	NIT Silchar	October, 2024
7	LCA of Thermal Power Generation and Comparative Assessment with Solar PV System	Satyajit Malode 2020RME11	MNNIT Allahabad	November, 2024

Expert Lecture

Sl No	Title of the Lecture	Seminar/Workshop Details	Institute Name	Month & Year
1	Expansion Turbines in Cryogenic	Cryogenics in Space Exploration &	Jadavpur University	March,

	Process	Superconductivity		2016
2	Lubricants and Lubrication	Interdisciplinary Approach of Tribology in Engineering and Biomedical Research	NIT Silchar	August, 2020
3	Basics of Tribology	Lecture under TEQIP	UEM Kolkata	October, 2020
4	Nanolubricants	Recent Trends in Mechanical Engineering	IGIT Sarang	February, 2021
5	Oil Condition Monitoring	Condition Monitoring of Mechanical Systems	NIT Hamirpur	September, 2024

Membership of Professional Bodies

S.No.	Name of Professional Body	Membership no. with validity
1.	The Institution of Engineers (India)	AM-0972234, Life Member
2.	ISTE	LM-52150, Life Member
3.	Indian Cryogenic Council	LM-709, Life Member
4.	Tribology Society of India	LM 5845, Life Member

Administrative/Institute Support work:

Sl.No.	Section/office/ Institute level committee	From	То	Position held	Responsibilities
1	Departmental Purchase Committee	2011	2015	Member	To look after general purchase in the department
2	Departmental PG coordinator (Maintenance Engineering & Tribology)	2013	2018	Coordinator	To coordinate different activities like elective & project allotment of M.Tech (MET)
3	TEQIP-II	2013	2017	Departmental Coordinator	To look after procurement under TEQIP-II in the department
4	B.Tech Final Year Incharge	2013	2015	Professor Incharge	To conduct the project and comprehensive viva, allot the student for project work to the faculty
5	Examination	2014	2016	Departmental Professor Incharge	To coordinate the examinations and prepare the invigilation duty chart for the department
6	Moderation Board of Examination	2014	2015	Convenor and Chairman of MTech (MET)	To look after the Examination results
7	Moderation Board of Examination	2017	2018	Convenor and Chairman of MTech (MET)	To look after the Examination results
8	TEQIP-III	2017	2020	Departmental Coordinator	To look after procurement under TEQIP-III in the department
9	Departmental PG coordinator (Maintenance Engineering & Tribology)	2019	2022	Coordinator	To coordinate different activities like elective & project allotment of M.Tech (MET)
10	Wardenship of Emerald Hostel	2019	2021	Warden	To look after regular work with Hall Manager
11	DPGC	2020	2022	Convenor	To see the final registration, guide selection for MTech and PhD student
12	Chief Wardenship of Emerald Hostel	2021	2022	Chief Warden	To look after regular work with Hall Manager
13	3 Yr MTech	2023	Till Date	Co-Ordinator	
14	DPAC	2024	Till Date	Member	

MTech Supervised

Sl	Name of the	Admn	Title of Dissertation	Specializat	Yea
• •	student	No.		ion	r of Docc
N 0.					Pass ing
1	Mayukh Sarkar	2010MT 0130	Experimental and numerical analysis of erosive wear in un-lubricated area of excavator bucket	MET	2012
2	Abhishek Kumar Singh	2010MT 0026	Numerical study of a radial journal foil bearing for crygonic turboexpander	MIE I	2012
3	Shavetabhra Shukla	2011MT 0122	Numerical Analysis of Diesel Injector Nozzle Geometry		
4	Vimal K Patak	2011MT 0116	Fluid flow analysis through nozzle injector by using CFD	MET	2013
5	Barnali Paul	2011MTEffect of Surface Texturing on Oil control ring-cylinder liner contact under mixed lubrication regime			
6	Abhinava Chatterjee	2012MT 0097	Detection and diagnosis of leakages in hydraulic system	МЕТ	2014
7	Rakesh Kumar Shaw	2012MT 0146	Numerical Analysis of stresses in Excavator Bucket used in HEMM	MET	2014
8	Niharika Gupta	2013MT 0088	Lubricating oil analysis of coal mining equipment using analytical ferrography method		
9	Dhruv Mathur	2013MT 0241	Equipment criticality analysis: a case study	MET	2015
10	Soumya Sikdar			IVIE I	2013
11	Gaurab Kr. Ghosh	2013MT 0118	Analytical analysis of heat transfer for nanofluids		
12	Abhisek Haldar	14MT00 0147	Experimental and analytical studies Of cuo based nanofluid		
13	Bhabani14MT00Numerical analysis of wear in excavator bucket using DEM & FEMRanjan Pal0197				
14	Priyatash Raha				
15	Pawan Kumar Singh	14MT00 0253	Experimental of Studies of Wear for Implant Material Under Dry Sliding Conditions	MET	2016
16	Manish Kumar Thakur	14MT00 0535	Characterization of Wear Particles by Fractal Method	MET	2016
17	Rajeev Kumar	14MT00 0182	Wear debris analysis of transmission oil		
18	Ravindra Kumar	14MT00 0542	Experimental study of wear for Implant materials under lubricated conditions		
19	Soumyajit Mojumder	14MT00 0450	Theoretical Analysis of GM type Double Inlet Pulse Tube Refrigerator		
20	Tarun Kumar	14MT00 0402	Theoretical Analysis of GM type Double Inlet Pulse Tube Refrigerator		
21	Sudhir Kumar	14MT00 0194	CFD Analysis of GM type Double Inlet Pulse Tube Refrigerator	THERMAL	2016
22	Prashant Srivastava	14MT00 0383	Experimental Analysis of Nano Fluid for Advance Heat Transfer Application		
23	Vivek Yadav	15MT00 0117	Experimental analysis on Graphene and Silicon Oxide based nanolubricants		
24	Nageshwar Kumar Das	15MT00 0221	Experimental investigation on used transmission oil of HEMM		
25	Pradeep Singh Chauhan	15MT00 0486			2017
26	Ashish Kumar Ojha	15MT00 0507	MT00		2017
27	Santosh Kumar	15MT00 0721	Experimental analysis of Copper Oxide and Silicon Oxide based Nanolubricant		
28	Abhimanyu Sharma	15MT00 0095	Wear debris analysis of transmission systems using Ferrography		
29	Amrit	15MT00	Experimental Investigation of Effect of Ethanol-Gasoline Blends on	THERMAL	2017

	Bhattacharjee	0010	Performance of SI Engine.		
30	Uday Kumar	15MT00 0021	Experimental investigantion of effect of Butanol Gasoline Blends on performance of SI engine		
31	Pritosh Kumar Chaudhari	15MT00 0322	Blade Profile Design of Cryogenic Turbine	-	
32	Ashutosh Pare	15MT00 0381			
33		16MT00	Experimental Studies of Pool Boiling Characteristics of Nanofluids. Performance Evaluation of MWCNT-SiO2 Engine Oil Based Hybrid		
34	Sanjay Kumar	0874 16MT00	Nanolubricants Optimal Selection of Metal Oxide based Nanofluids using TOPSIS		
35	Anuj Kumar	0878 16MT00	Method CFD Analysis of a Double Pipe Heat Exchanger with Helical Wire	THERMAL	2018
	Rakesh Kumar	0889	Insert	-	
36	Anjani Kumar Singh	16MT00 0893	Thermal Analysis of Pool Boiling for Metal Oxide Based Nanofluids.		
37	Atul Kumar Harmukh	16MT00 0938	Effct of CNT-Ni-P Composite Coating on Tribological Behaviour for Brake Pad System		
38	Shiva Singh	16MT00 1044	Thermo Tribological Behaviour of Nanofluids/Nanolubricants		
39	Amitesh	16MT00			
40	Kumar Ekta Singh	1271 16MT00	Heat Transfer Analysis of Nanofluid in a Heat Exchanger Magnetorheological Studies on Stable Suspension of Iron Oxide	MET	2019
41	Shrinet	1282 16MT00	Nanofluids Wear and Friction Behaviour of Electroless Coated Nano Al2O3-Ni-P	MET	2018
	Sushma Bharti	1311	Mild Steel	-	
42	Chetan Kumar	16MT00 1323	Wear Behaviour of Piston Rings in the Presence of Used Oil		
43	Indermani Tiwari	16MT00 1481	Study of ZDDP Additive and its Role in Lubrication		
44		17MT00	Numerical Analysis on Wavy Type Plate Heat Exchanger using		
45	Shilpa Sharma	1519 17MT00	Hybrid Nanofluids Temperature Estimation for Thermal Management of Central		
46	Sudeep Roy Patel Mehul	1589 17MT00	Processing Unit Package Numerical Analysis on Asterisk Type Plate Heat Exchanger using	THERMAL	2019
_	Kumar Amar Kumar	1675 17MT00	Hybrid Nanofluids		
47	Sahu	2046	Numerical Analysis on Chevron Type Plate Heat Exchanger using Hybrid Nanofluids		
48	Zishan Uddin	17MT00 1496	Codeless CAD Customization		
49	Raghwesh Kumar	17MT00 1619	Performance Evaluation of single-Cylinder Four stroke Diesel Engine Employing Ceria Based Nano fluids		
50		17MT00	Experimental Investigation of Physico-Chemical Properties and		
51	Uday Ranjan Shubham	1679 17MT00	Tribological Behaviour on Gear and Engine Oil. Performance Analysis of 4- stroke Diesel Engine Employing Graphite		
52	Tyagi Vivek Kumar	1833 17MT00	Based Lubricant.	-	
	Singh	2096	Experimental and numerical Studies on Additive Manufacturing of AlSi10Mg alloy.	MET	2019
53	Vikas Kumar	17MT00 2099	Dry sliding wear and friction behaviour of Ni-P-MWCNT composite Electroless coating on Mild Steel	IVIL I	2017
54	Aditya Pratap Singh	17MT00 2106	Friction Stir Processing of Aluminium alloy		
55		17MT00	Effect of Nano SiC-Ni-P Composite electoless coating on Tribological		
56	Md Shahbaz Diwakar Kr	2131 17MT00	Behaviour of Brake Pad material		
57	Vidyarthi Shivendra	2132 17MT00	Wear and debris analysis of Nano lubricant Complete Modification of Muck Discharge System of CRM-III		
	Kumar	2161	Tandem Mill.		
58	Arijit Mukherjee	16KT00 0092	Comparative Study of Wear Behaviour of Heat Treated 304 Austenitic and 410 Martensitic Sainless Steel		0010
59	Laltu Chandra	16KT00 0098		IIIF Kolkata	2019
60	Das Pravesh Kumar	18MT00	Commissioning and Performance Analysis of Turboexapander	MET	2020
	Mishra	29	Emission Analysis of IC Engine Using Nanolubricants		2020

61		18MT01	Performance Analysis of Modified Bio-lubricant- Advancement in		
	Om Prakash	49	Green Tribology		
62	Shahrukh	18MT02			
	Ehtram	11	Oil analysis of the geared motor used in coal based rotary kiln		
63		18MT03	Tribological performance Analysis of SS 304 coated with Ni-P-SiC		
	Goli Rohith	67	composite		
64	Nikhil Kumar	18MT03			
	Mishra	68	Experimental Analysis of Indian Railway Brake Pad		
65	Abhishek	18MT00	Experimental Analysis of Plate Heat Exchanger Using Copper Oxide		
	Kumar	60	Nanofluids		2020
66	Deepak Kumar	18MT04		THERMAL	2020
	Rathour	69	Experimental Studies on Pool Boiling of Nanofluids		
67	Yashwant	17KT00	Experimental and Numerical Studies on Tribological Properties of		
	Kumar Singh	0269	Stainless Steel 304		2020
68	Sumit Kumar	17KT00	Performance Analysis of Hybrid Nanofluids on Flat Plate Solar	IIIF Delhi	2020
		0270	Collector		
60	Manjesh	19MT02	ANN Modelling and Corelation prediction for viscosity, density and		
69	Mahaseth	07	thermal conductivity of nanofluids		
		101/000	Comparative Tribological Performance Analysis on automotive and	MET	2021
70	Priyadarshan	19MT02	Railway Semi-metallic brake pad under dry and wet condition using		
	2	89	ANN		
71	Amit Kumar	19MT00	Numerical Studies on Deal Deiling of Namefluida	The survey of 1	2021
71	Amit Kumar	46	Numerical Studies on Pool Boiling of Nanofluids	Thermal	2021
72	Anupam	20MT00	Duradiative and Europeimantal Analysis of Dailyson Durate Dad		
12	Yadav	75	Predictive and Experimental Analysis of Railway Brake Pad	MET	2022
73	Krishan Kumar	20MT01	Prediction of optimal process parameters for braking action using a	MET	2022
15	Singh	84	different optimization technique		
74	Asheren' Counts	20MT00	The transient interfacial dynamics for boiling heat transfer using	The serves of	2022
74	Ashwani Gupta	94	nanofluids	Thermal	2022
75	Sidhant Kumar	21MT04	Experimental and Numrical Investigation on the effect of	Mashariasi	2023
15	Sabar	07	nanolubrication in the hot rolling process	Mechanical	2023
	Kumar	22MT01	Tribalagical Dahaviour of brake rad under wat anvironmental		
76	Shubham	74	Tribological Behaviour of brake pad under wet environmental conditions	Mechanical	2024
	Mahato	/4	conditions		
77	Sonu Kumar	22MT03	Numerical simulation of battary thermal management system	Mechanical	2024
//	Suman	34	Numerical simulation of battery thermal management system	Mechanical	2024

List of Journal Publications:

2007-2012

- 1. Mathematical modeling of the working cycle of oil injected rotary twin screw compressor; Applied thermal engineering; 27; 1; 145-155; 2007; **Q1**
- Ghosh, Subrata K; Sahoo, Ranjit K; Sarangi, Sunil K; Experimental performance study of cryogenic turboexpander by using aerodynamic thrust bearing; Applied thermal engineering; 30; 12-Nov; 1304-1311; 2010; Q1
- 3. Ghosh, Subrata K; Sahoo, RK; Sarangi, Sunil K; Mathematical analysis for off-design performance of cryogenic turboexpander; Journal of fluids engineering; 133; 3; 2011; **Q2**
- 4. Ghosh, Subrata; Mukherjee, Parboti; Sarangi, Sunil; Development of bearings for a small high speed cryogenic turboexpander; Industrial Lubrication and Tribology; 64; 3-10; 2012; **Q4**

2013-2015

- Rizvi, Imbesat Hassan; Jain, Ayush; Ghosh, Subrata Kr; Mukherjee, PS; Mathematical modelling of thermal conductivity for nanofluid considering interfacial nano-layer; Heat and mass transfer; 49; 4; 595-600; 2013; Q2
- Jain, Ayush; Rizvi, Imbesat Hassan; Ghosh, Subrata Kumar; Mukherjee, PS; Analysis of nanofluids as a means of thermal conductivity enhancement in heavy machineries; Industrial Lubrication and Tribology; 66/2; 238-243; 2014; Q4
- 3. Sarkar, Mayukh; Ghosh, Subrata Kumar; Mukherjee, PS; Analysis of wear generation in mine excavator bucket; Industrial Lubrication and Tribology; 67/1; 52-58; 2015; Q4
- 4. Sarkar, Mayukh; Shaw, Rakesh Kr; Ghosh, Subrata Kr; Numerical analysis of stresses in mine excavator bucket; Journal of Mining Science; 51; 2; 309-313; 2015; **Q4**

- Kotia, Ankit; Ghosh, Subrata Kumar; Experimental analysis for rheological properties of aluminium oxide (Al2O3)/gear oil (SAE EP-90) nanolubricant used in HEMM; Industrial Lubrication and Tribology; 67/6; 600-605; 2015; Q4
- 6. Kumar, Vikas; Tiwari, Arun Kumar; Ghosh, Subrata Kumar; Application of nanofluids in plate heat exchanger: a review; Energy conversion and management; 105; 1017-1036; 2015; **Q1**

2016	
1.	Kumar, Vikas; Tiwari, Arun Kumar; Ghosh, Subrata Kumar; Effect of chevron angle on heat transfer
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