Department/Centre: MECHANICAL ENGINEERING

Year of Establishment of the Department /Centre: 1995

Academic Programmes Offered:

Bachelor of Technology (BTech) in

i. Mechanical Engineering

Master of Technology (MTech) in

(1) Machine Design,

(2) Fluid and Thermal Engineering,

(3) Manufacturing Science and Engineering,

(4) Computational Mechanics,

(5) Aerodynamics and Propulsion

Doctor of Philosophy (PhD)

LABORATORY FACILITIES:

No. of Laboratories with brief introduction:

Department Labs: Brief Description of each

- Advanced Manufacturing Laboratory: Equipped with advanced equipments for manufacturing including micro-fabrication facility using CO2 Laser cutting technology.
- Strength of Materials Laboratory: Basically dedicated for doing all kinds of testing including tensile testing, fatigue testing, compressive testing, torsion testing, hardness testing, impact testing etc.
- Materials Science Laboratory: Dedicated for carrying out metallographic studies using highly precise microscope, XRD etc.
- Fluid Mechanics Laboratory: This lab has basic fluid mechanics set-up. The lab is equipped with different flow measuring set-ups such as venturimeter, orifice-plate, pitot tube, rotometer etc., where students can visualize the basic theory of working of the flow meter.
- Thermal Science Laboratory: This lab consists of heat exchangers, equipments for conducting experiments on conduction, convection and radiation, refrigeration systems etc. All these equipments facilitate learning of basic Thermodynamics and Thermal Engineering at undergraduate level.
- Turbo-machinery Laboratory: This lab has different tabletop model of pumps and turbines where students can study the performance characteristics of those machines. Students can strengthen their basic understandings of working and applications of these machines.
- IC Engine Laboratory: This lab is for both undergraduates and graduate students. Some of the experiments which are performed by under-graduate students are performance studies of both C.I. and S.I. engines, etc. Moreover studies on the calorific values, exhaust gas characteristics, extensive studies of bio-diesel with both engines are done by post-graduate students in their respective project works.
- Vibrations and Acoustics Laboratory: This lab demonstrates basic vibrational instruments to students at undergraduate level. Also provides facilities for measurement of frequency signals, rpm etc, and facilities for data-acquisition which are very much beneficial for research activities in the domain of vibrational analysis.
- Instrumentation and Control Laboratory: This lab performs calibration of pressure transducer/ gauge and other mechatronics apparatus, provides strain-gauge measurement facilities etc.
- Theory of Machines Laboratory: This lab consists of all basic equipments for understanding mechanisms, apparatus etc. at undergraduate level such as gyroscope, governor, jib-crane, screw jack, worm-wheel apparatus etc.
- Tribology Laboratory: Provides facilities for carrying out wear test of specimens of diff erent materials under the condition of with lubrication/without lubrication.
- CAD/CAM Laboratory: Specialized in extending computer-assisted software tools needed for design and analysis such as ABAQUS, ANSYS, Master CAM, Pro/E, ADAMS etc.

• 3D Printer Laboratory: Provides facilities for 3D printing.

Department Research Labs: 19 Research Labs

- Dynamics and Vibration Lab
- AnuPravaha CFD Lab
- Biomedical Devices and Biomaterials laboratory
- Biomimetics and Artificial Intelligence Laboratory
- CFD Lab
- Composite Structures and Fracture Mechanics Lab: Caters to the development of composite laminates and enables NDT through ultrasonic scanning of the composite structures.
- Computational Mechanics and Optimization Lab
- Electromechanics and Microsystems Lab
- Gas Dynamics Lab
- Materials and Design in Mechanical Systems & Science and Technology in Traditional Systems
- Mechatronics and Robotics Laboratory: The Mechatronics and Robotics lab is equipped with various facilities to educate the students at the undergraduate and postgraduate levels. Most of the robotics activities are facilitated to students by this lab.
- Micro-machining Lab
- Microfluidics and Microscale Transport Processes Laboratory
- Miniature Thermal Systems Research Laboratory
- Precision Manufacturing Lab
- Smart Materials and Structures Lab
- Thermal Hydraulics and Gasification Lab
- Welding Lab
- Wind Tunnel Laboratory: Provides facilities for carrying out wind tunnel related experiments.

MAJOR AREAS OF RESEARCH AND DEVELOPMENT:

Groupwise Research Areas are

Fluids and Thermal Engineering

Computational Methods for Incompressible

- FlowsDNS and LES of Turbulence
- Energy management and conservation
- High speed aerodynamics
- Interfacial heat and mass transport
- Metal hydride based thermal machines
- Micro and nanoscale thermal/fluid transport
- Micro-fuel cells
- Thermal aspects of biological systems
- Thermal radiation

Machine Design Engineering

- Acoustics
- Active Materials
- Composites
- Dynamics and Vibrations
- Finite Element Method and Analysis
- Fracture Mechanics and Design
- Mechatronics
- Robotics and Control
- Micromechanics
- Nanocomposites
- Rolling Element Bearings Design and Analysis
- Smart Structures
- Tribology

Manufacturing Engineering

- Bio-MEMS
- Casting
- CAD/CAM/CIM
- Coating
- Composites
- Computer Application in Metal Forming
- Design and Manufacturing
- Electromagnetic pulse processing
- FEM, Neural Network
- Fuzzy Set Application
- Genetic Algorithms and Fuzzy logic in manufacturing
- Mechatronics
- Metal Forming
- Unconventional machining
 processes
- Welding of light weight metals
- Welding Process Monitoring and Control

Sr. No.	Principal Investigator	Name of Project	Sponsoring Agency	Amount Sanctioned (Rs)	Start-Date	End-Date
1.	R K Mittal	"Low-Cost Scalable Manufacturing of High-Aspect	SERB DST	33 Lakhs	Nov 2022	Oct 2024
2.	R K Mittal	Ratio Microneedles for Minimally Invasive Transdermal Drug Delivery Applications"	IITG-TIDF	10 Lakhs+ JRF	Jan 2023	Dec 2024
3.	Poonam Kumari	"Development of Vibration Monitoring and Diagnostic	IITG-TIDF	23 lakh +JRF	Jan 2023	Dec 2024
4.	Niranjan Sahoo	System for Electrical Submersible Pumps"	IITG-TIDF	12 lakh +JRF	March 2022	March 2024
5.	Amaresh Dalal	"Validation and optimization of a solid-state aluminum-ion battery for	MATRICS- SERB	6 Lakhs	Dec 2022	Dec 2025
6.	Sachin Singh Gautam	its electrochemical performance, mechanical stability, and thermal efficiency	SERB DST	31 Lakhs	Feb 2023	Jan 2026
7.	S Kanagaraj	at a range of temperatures relevant to underwater devices"	Tata steel	Rs 47.88 lakh	June 2022	November 2023
8.	S Kanagaraj	Design and in-house fabrication of an underwater compressed air storage system	GESCO Healthcare Pvt Ltd	3,07,838	Dec 2022	June 2023
9.	S Kanagaraj	Hybrid cooling system design for Li-ion battery pack systems	DBT	2,99,11,106	March 2023	Feb'2026
10	Pranab Kumar Mondal	"Three Dimensional LArge Deformation Isogeometric Impact and Self Contact Using	DBT	36,19,840	2022	2024
11	Pranab Kumar Mondal	Varying-Order NURBS Discretization Approach"	SERB	75,00,000	2023	2026
12	Swarup Bag	Origami inspired three - phase auxetic metamaterial composite for developing orthotic insole and performance studies using gait and motion analysis	SUPRA - SERB	49,61,260	2022	2025
13	Prasenjit Khanikar	Design of a cervical bone fixture and testing of an atlantoaxial joint and its research aspects	SERB DST	45 Lakhs	March 2023	March 2026
14	B Sandeep Reddy	School of Innovations in Biomedical Devices and Systems and Inter-institutional Biodesign Center (SIBDS-IIBC)	NEWGEN IEDC	2.5 Lakhs	December 2022	December 2023
15	Deepak Sharma	Establishing Efficient Platform for Genetic Engineering in Indian Tea	IITG-TIDF	10 Lakhs+ JRF	Jan 2023	Dec 2024
16	Sajan Kapil	Development and leveraging small-scale fluidic Platform towards understanding the plant root system: A Convergence of Engineering and Biology	Bombay Ortho	5 Lakhs	Aug 2022	March 2023

A list of research projects for which grants have been obtained by ME faculty is as below.

A list of research publications in prestigious journals can be found as below

Sl. No.	Authors	Paper Title	Journal Name	Year	Volume	Issue Number (If any)	Starting Page	Ending Page
1.	A. K. Das, K. Acharyya, S. Sarma, and U. K. Saha	Hybrid double-divergent nozzle as a novel alternative for future rocket engines	AIAA Journal of Spacecraft and Rockets	2022	59	3	761	772
2.	A. Sarkar and U. K. Saha	Experimental probe into a biogas run dual fuel diesel engine using oxygenated ternary blends at the optimum equivalence ratio and under the effect of intake charge preheating	ASME Journal of Engineering for Gas Turbines and Power	2022	144	6	061010- 1	061010- 13
3.	O. Siram, R. Kumar, U. K. Saha and N. Sahoo	A comprehensive review on analytical formulations of wind turbine wake models and future scope in the development of wind farms of assorted configurations	ASME Journal of Energy Resources Technology	2022	144	11	110801- 1	110801- 19
4.	S. M. More, J. Kakati, S. Pal, and U. K. Saha	Implementation of soft computing techniques in predicting and optimizing the operating parameters of compression ignition diesel engines: State-of-the-art review, challenges and future outlook	ASME Journal of Computing and Information Science in Engineering	2022	22	5	050801- 1	050801- 28
5.	O. Siram, N. Kesharwani, N. Sahoo, and U. K. Saha	Aerodynamic design and wind tunnel tests of small-scale horizontal-axis wind turbines for low tip speed ratio applications	ASME Journal of Solar Energy Engineering	2022	144	4	041009- 1	041009- 20
6.	U. H. Rathod, V. Kulkarni, and U. K. Saha	On the application of machine learning in Savonius wind turbine technology: an estimation of turbine performance using artificial neural network and genetic expression programming	ASME Journal of Energy Resources Technology	2022	144	6	061301- 1	061301- 16
7.	A. Bhowmick, S. Saharia, and S.M.Hazarika	Non-parametric scene parsing: Label transfer methods and dataset	Computer Vision and Image Understanding	2022	219			
8.	M. Shaik and S M Hazarika	Aerodynamic investigation of Passer domesticus inspired biomimetic wing at low Reynolds number	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2022	236	14	7690	7704

9.	M. Shaik and S M Hazarika	Numerical Investigation of Flow Over Oscillating Cambered Foil at Low Reynolds Number	ASME Journal of Fluids Engineering	2022	144	7		
10.	L Gohain, K Sarma, A J Kalita, N M Kakoty, S M Hazarika	EMG controlled adaptive multi-grasp prosthetic hand with an android interface	International Journal of Intelligent Robotics and Applications	2022	6		791	803
11.	H Basumatary, S M Hazarika	Design optimization of an underactuated tendon-driven anthropomorphic hand based on grasp quality measures	Robotica	2022	40	11	4056	4075
12.	M. Shaik and S M Hazarika	Unsteady aerodynamics of plunging cambered foil at low Reynolds number	Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering	2023	237	2	374	386
13.	Rituraj Bhattacharjee, Susmita Datta, Ahmed Hammad and Pankaj Biswas	Prediction of various defects and material flow behavior during dissimilar FSW of DH36 shipbuilding steel and marine grade AA5083 using FE-based CEL approach	Modelling and Simulation in Materials Science and Engineering	2023	31	3	035004- 01	035004- 29
14.	Rituraj Bhattacharjee; Susmita Datta; Pankaj Biswas	Thermomechanical and Material Flow Analysis during Friction Stir Welding of Marine Grade Aluminum Alloy 5083	Journal of ship production and design	2023	39	1	1	24
15.	Susmita Datta, Rituraj Bhattacharjee & Pankaj Biswas	Present status and future trend of friction stir-based fabrication of NiTinol: a review	Welding in the World	2022	67		269	307
16.	Ranamay Saha and Biswas Pankaj	Thermomechanical Analysis of Induction Assisted Friction Stir Welding of Inconel 718 Alloy: A Finite Element Approach	International Journal of Pressure Vessels and Piping	2022	199	1	104731- 1	104731- 19
17.	Pardeep Pankaj, Avinish Tiwari, Lakshmi Narayan Dhara, Tanmoy Medhi, Pankaj Biswas	Dissimilar Friction Stir Joining of Aluminum Alloy and Stainless Steel: A Study on the Intermetallic Compound Formation, Microstructure and Mechanical Properties of the Joints	Journal of Testing and Evaluation	2022	51	2	588	619
18.	Pardeep Pankaj, Avinish Tiwari, Tanmoy Medhi, and Pankaj Biswas	Multi-Species transport CFD simulation and experimental verification for material flow properties in dissimilar friction stir welding	Materials Today Communicatio ns	2022	33		104959	

19.	Pardeep Pankaj, Avinish Tiwari, Lakshmi Narayan Dhara, and Pankaj Biswas	Multiphase CFD simulation and experimental investigation of friction stir welded high strength shipbuilding steel and aluminum alloy	CIRP Journal of Manufacturing Science and Technology	2022	39		37	69
20.	Pardeep Pankaj, Avinish Tiwari, and Pankaj Biswas,	Impact of varying tool position on the intermetallic compound formation, metallographic/mechanical characteristics of dissimilar DH36 steel, and aluminum alloy friction stir welds	Welding in the World	2022	66	2	239	271
21.	Pardeep Pankaj, Avinish Tiwari, Lakshmi Narayan Dhara, Sanjay Raj and Pankaj Biswas	Investigations on the effect of sheets positioning in advancing & retreating side for dissimilar FSW of DH36 steel and aluminum alloy 6061	. Journal of The Institution of Engineers (India): Series C	2022	103	1	5	20
22.	Sanjay Raj, Pankaj Biswas	Mechanical and microstructural characterizations of friction stir welded dissimilar butt joints of Inconel 718 and AISI 204Cu austenitic stainless steel	Materials Characterizatio n	2022	185		111763	
23.	Sanjay Raj, Pankaj Biswas	Effect of induction preheating on microstructure and mechanical properties of friction stir welded dissimilar material joints of Inconel 718 and SS316L	CIRP Journal of Manufacturing Science and Technology	2022	41		160	179
24.	Tanmoy Medhi, Ankan Das, Pardeep Pankaj, Sajan Kapil and Pankaj Biswas	Multipass FSW lap welding of AA6061-T6: Implication of tool pin overlapping on microstructures and mechanical properties of joints	Soldagem & Inspeção	2022				
25.	Abhishek Kumar, Pardeep Pankaj, Pankaj Biswas, A. G. Rao	Finite Element Analysis and Experimental Investigation on Effect of Process Parameters in Plasma-Assisted Friction Stir Welding of Low Carbon Steel	Transactions of the Indian Institute of Metals	2022				
26.	Anil Kumar Deepati, Waleed Alhazmi, Waleed Zakri, Essam Shaban, Pankaj Biswas	Parametric Analysis on the Progression of Mechanical Properties on FSW of Aluminum-Copper Plates	Advances in Science and Technology Research Journal (ASTRJ)	2022	16	2	168	178
27.	Sabana Azim, Soumya Gangopadhyay ,	Performance evaluation of CrAIN and TiAIN coatings deposited by HiPIMS in micro	Surface and Coatings Technology	2022	449		128980	

	Siba Sankar Mahapatra, Rinku K. Mittal	drilling of a Ni-based superalloy						
28.	Bhopale, N., Mastud, S. and Mittal, R. K.,	Metallurgical and Machining Performance Aspects of Cryotreated Tungsten Carbide Micro-End Mill Cutters	Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture	2022	237	3	492	502
29.	Bhopale, N., Mastud, S. and Mittal, R. K.,	Performance Analysis of Uncoated, TiN Coated and Cryotreated Micro Tungsten Carbide Tools while Micromilling of Ti-6Al-4V	International Journal of Machining and Machinability of Materials	2022	24	1-2	110	131
30.	Dhirendra Kumar Verma, Poonam Kumari, Subramani Kanagaraj	Engineering Aspects of Incidence, Prevalence, and Management of Osteoarthritis: A Review.	Annals of Biomedical Engineering	2022	50	3	237	252
31.	Dhirendra Kumar Verma, Mirsaidin Hussain, Poonam Kumari, Subramani Kanagaraj	In-house development of contact microphone-based wearable device for knee joint health assessment using vibroarthrography.	Journal of Intelligent Systems with Applications	2022	50	1	59	65
32.	Debtanay Das, Swarup Bag, Sukhomay Pal and M Ruhul Amin	A finite element model for the prediction of chip formation and surface morphology in friction stir welding process	ASME Journal of Manufacturing Science and Engineering	2022	144	4	041015- 1	041015- 11
33.	Dipankar Saha, Sukhomay Pal	Study on the microstructural variation and fatigue performance of microplasma arc welded thin 316L sheet	Proceedings of the I.MechE, Part L: Journal of Materials: Design and Applications	2022	236	4	880	890
34.	Srikant Prasad, Sukhomay Pal and P S Robi	Effect of post welding heat treatment on the weld quality of micro plasma arc welded SS-316L thin sheet	Journal of Soldagem & Inspeção	2022	27		1	15
35.	Shubham M More, Jyotirmoy Kakati, Sukhomay Pal and Ujjwal K. Saha	Implementation of Soft Computing Techniques in Predicting and Optimizing the Operating Parameters of Compression Ignition Diesel Engines: State-of-the-art Review, Challenges and Future Outlook	ASME Journal of Computing and Information Science in Engineering	2022	22	5	050801- 1	050801- 28

			Journal of the					
36.	Vivekananda Haldar, Sunil Kumar Biswal and Sukhomay Pal	Formability study of micro- plasma arc-welded AISI 316L stainless steel thin sheet joint	Brazilian Society of Mechanical Sciences and Engineering	2022	44	11	564-1	564-16
37.	Debtanay Das, Swarup Bag, Sukhomay Pal, Abhay Sharma	Material Defects in Friction Stir Welding through Thermo- Mechanical Simulation: Dissimilar Materials with Tool Wear Consideration	Materials	2023	16	1		
38.	Nikhil Dilip Kulkarni, and Poonam Kumari	Development of highly flexible PVDF-TiO2 nanocomposites for piezoelectric nanogenerator applications	Materials Research Bulletin	2023	157		112039- 1	112039- 13
39.	Nikhil Dilip Kulkarni, and Poonam Kumari	Role of rGO on mechanical, thermal, and piezoelectric behaviour of PVDF-BTO nanocomposites for energy harvesting applications	Journal of Polymer Research	2023	30	2	79-1	79-17
40.	S. Mohan and A. Banerjee	Particle filter based self sensing shape memory alloy wire actuator under external cooling	Mechanical Systems and Signal Processing	2023	185	https:// doi.org/ 10.1016 /j.ymssp .2022.10 9779	109779	
41.	G. Tejdeep and A. Banerjee	Simulation of shape memory alloy based curved structures using isogeometric analysis	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2023		https:// doi.org/ 10.1177 /095440 6223115 5827	0	
42.	Abir Saha, Poonam Kumari	Functional fibers from Bambusa tulda (Northeast Indian species) and their potential for reinforcing biocomposites	Materials Today Communicatio ns	2022	31		103800	
43.	Abir Saha, Poonam Kumari	Effect of alkaline treatment on physical, structural, mechanical and thermal properties of Bambusa tulda (Northeast Indian species) based sustainable green composites	Polymer composites	2023		https:// doi.org/ 10.1002 /pc.272 56		
44.	Bharti, S., & Selvaraj, S.	Performance of selective laser sintered polyamide spur gear under dry and lubricated conditions.	"Proceedings of the Institution of Mechanical	2023	237	2	404	414
45.	Bharti, S., & Selvaraj, S.	Sliding contact performance of injection moulded and	Engineers, Part J: Journal of	2023	75	1	126	132

		selective laser sintered polyamide under dry and lubricated conditions.	Engineering Tribology''					
46.	Bharti, S., & Senthilvelan, S	Performance of elastomeric spur gear under dry and oil- lubricated conditions.	"Industrial Industrial	2023	55	1	134	154
47.	Soundhar Arumugam, G: Senthilvelan selvaraj Pugazhenthi	Investigations on mechanical properties of processed banana leaves for sustainable food packaging applications	Lubrication and Tribology"					
48.	Mukesh Kumar, and Poonam Kumari	Design and fabrication of self- powered flexible P (VDF- TrFE)/ZnO/TiO2 fiber mats as nanogenerator for wearable applications	Journal of Elastomers & Plastics	2023	160		107429	
49.	Viwek Kumar and Poonam Kumari	Fabrication and Characterization of Cu/SiC- Based Axially Functionally Graded Beam		2022	24	5	2101239	
50.	Viwek Kumar and Poonam Kumari	2D closed form solution for bending of edge bonded dissimilar beams: an application of EKM	Materials Science in Semiconductor Processing	2022	289		115420	
51.	Viwek Kumar and Poonam Kumari	2-D Analytical solutions for the multisegmented panel subjected to arbitrary boundary condition	Advanced Engineering Materials	2022	103	2	e202200 291	
52.	Mridusmita Bora, Poonam Kumari and Niranjan Sahoo	Mechanical properties of Assam's bamboo-epoxy composite laminates – An experimental investigation	Composite Structures	2022	188	https:// doi.org/ 10.1016 /j.indcro p.2022.1 15556	115556	
53.	Mridusmita Bora, Poonam Kumari and Niranjan Sahoo	Mechanical properties of Assam's bamboo-epoxy composite laminates – An experimental investigation	ZAMM - Zeitschrift für Angewandte Mathematik und Mechanik/Jour nal of Applied Mathematics and Mechanics	2022	188	https:// doi.org/ 10.1016 /j.indcro p.2022.1 15556	115556	
54.	Hari Narayan Singh Yadav, Alok kumar Das and Manas Das	Synthesis of Tungsten carbide nanoparticles in different dielectric through μ-EDM	Industrial Crops and Products	2022		https:// doi.org/ 10.1080 /237406 8X.2022. 2091189	1	9
55.	Hari Narayan Singh Yadav, Enni Krishna,	Investigation of MRR and surface characterization using plasma process	Industrial Crops and Products	2023		https:// doi.org/ 10.1080	1	13

	Sreelakshmy Kombath, D Sam Dayala Dev, and Manas Das					/104269 14.2023. 2176873		
56.	Atul Singh Rajput, Ambrish Singh, Manas Das, and Sajan Kapil	Investigations on the Toolpath Strategies for CNC Magnetorheological Fluid Assisted Finishing (MFAF) Process	Advances in Materials and Processing Technologies	2022	121	https:// doi.org/ 10.1007 /s00170 -022- 09307-9	949	966
57.	S. Devi, N. Sahoo and P. Muthukumar	Comparative performance evaluation of a porous radiant burner with conventional burner: Biogas combustion	Materials and Manufacturing Processes	2023	218		119338 (1-13)	
58.	A. K. Singh, K. Singh, D. Singh and N. Sahoo	Experimental and numerical analysis of film cooling performance of a corrugated surface	Journal of Advanced Manufacturing and Technology	2022	DOI: 10.1080 /089161 52.2022. 2126031			
59.	A. K. Rout, S. R. Nanda, N. Sahoo, P. Kalita and V. Kulkarni	Soft computing – A way ahead to recover heat flux for short duration experiments	Applied Thermal Engineering	2022	14	3	031008 (1-11)	
60.	A. K. Rout, S. R. Nanda, N. Sahoo, P. Kalita and V. Kulkarni	Implementation of soft computing technique for recovery of impulsive heat loads	Experimental Heat Transfer	2022	36	1	108	117
61.	S. R. Nanda, S. Desai, V. Kulkarni and N. Sahoo	Amalgamation of stress wave force balance with artificial intelligence: An alternative way of drag force measurement in supersonic flows	ASME Journal of Thermal Science and Engineering Applications	2022	123		107481 (1-13)	
62.	S. L. N. Desikan, S. Pandian, P. P. Simha and N. Sahoo	Experiments on flow past cavity and the application of modal decomposition techniques	AIAA Journal of Thermophysics and Heat Transfer	2022	94		293	298
63.	O. Siram, U. K. Saha and N. Sahoo	Blade design consideration of small wind turbines: From classical to bio-inspired shapes/profiles	Aerospace Science and Technology	2022	14	DOI: https:// doi.org/ 10.1063 /5.0096 402	042701 (1-31)	
64.	O. Siram and N. Sahoo	Performance assessment of straight and linearly tapered rotors through wind tunnel investigation for off-grid applications	European Journal of Mechanics / B Fluids	2022	46	4	1	20
65.	O. Siram, N. Sahoo, and U. K. Saha	Wind tunnel tests of a model small-scale horizontal-axis wind turbine developed from	AIP Journal of Renewable and Sustainable	2022	144	6	064502 (1-10)	

		blade element momentum theory	Energy					
66.	O. Siram, K. Ravi, U. K. Saha and N. Sahoo	Wind tunnel probe into an array of small-scale horizontal-axis wind turbines operating at low tip speed ratio conditions	Wind Engineering	2022	144	9	091303 (1-13)	
67.	O. Siram, N. Sahoo and U. K. Saha, and N. Sahoo	Changing landscape in India's renewable energy and the contribution of wind energy	ASME Journal of Energy Resources Technology	2022	8	DOI: https:// doi.org/ 10.1016 /j.clet.2 022.100 506	100506 (1-20)	
68.	S. K. Barik, R. G. Narayanan and N. Sahoo	Assessment of stress-strain constitutive models and failure models on the shock tube based impact forming of AA 5052-H32 sheet	ASME Journal of Energy Resources Technology	2022	74		573	591
69.	S. K. Barik, R. G. Narayanan and N. Sahoo	Formability and failure response of AA5052-H32 thin sheets with friction stir spot welds during shock tube based impact forming	Cleaner Engineering Technology	2022	119		7921	7945
70.	S. K. Barik, R. G. Narayanan and N. Sahoo	Impact forming of AA5052- H32 sheets with friction stir spot welds using a shock tube and failure assessment	Journal of Manufacturing Processes	2022	144		031007 (1-13)	
71.	S. Devi, N. Sahoo and P. Muthukumar	Effect of combustion zone material on the thermal performance of biogas-fuelled porous media burner: Experimental Studies	International Journal of Advanced Manufacturing Technology	2022	12		1555	1536
72.	Atul Singh Rajput, Manas Das, and Sajan Kapil	Characterization of Wear Resistance and Corrosion during Magnetorheological Fluid Assisted Finishing (MFAF) of Ti-6Al-4V and Duplex Stainless Steel for enhanced biocompatibility	ASME Journal of Engineering Materials and Technology	2022		https:// doi.org/ 10.1177 /095440 8922110 7990		
73.	Atul Singh Rajput, Manas Das, and Sajan Kapil	Investigations on a Hybrid Chemo-Magnetorheological Finishing process for the freeform surface quality enhancement	Biomass Conversion and Biorefinery	2022	81	https:// doi.org/ 10.1016 /j.jmapr o.2022. 07.015	522	536
74.	Atul Singh Rajput, Manas Das, and Sajan Kapil	A comprehensive review of the magnetorheological assisted finishing process	Part E: Journal of Process Mechanical Engineering	2022	26	https:// doi.org/ 10.1080 /109103 44.2022. 2129982	339	376

		Invoctigation on Distribulant				https://		
75.	Atul Singh Rajput, Sajan Kapil, and Manas Das	Investigation on Biotribology of Post Processed Additively Manufactured Biomaterial through Magnetorheological Fluid Assisted Finishing process	Journal of Manufacturing Processes	2023		https:// doi.org/ 10.1016 /j.wear. 2023.20 4684		
76.	Atul Singh Rajput, Manas Das, and Sajan Kapil	Computer-Aided Process Planning (CAPP) System for Super Finishing of Flat Surfaces with Pockets through Magnetorheological Finishing (MRF) process	Machining Science and Technology	2023		https:// doi.org/ 10.1080 /095119 2X.2023. 2189313	1	17
77.	Atul Singh Rajput, Manas Das, and Sajan Kapil	Surface Properties and Biocompatibility studies on Bone Plate by the Magnetorheological Finishing (MRF) process	Wear	2023		https:// doi.org/ 10.1080 /026708 44.2022. 2154006	1	10
78.	Avadh Kishore Prasad, Sajan Kapil and Swarup Bag	Critical conditions for melting of metallic wire in induction heating system through numerical simulation and experiments.	International Journal of Computer Integrated Manufacturing	2022	77		678	693
79.	Chandra Prakash Singh, Ritam Sarma, Sajan Kapil	The Qualitative Analysis of Warpage on Residual Stresses in Wire Arc Additive Manufacturing	Surface Engineering	2022	62	12	6619	6627
80.	Ritam Sarma, Sajan Kapil, and Shrikrishna N. Joshi	Development of a framework for computer aided design and manufacturing of 3 axis hybrid wire arc additive manufacturing	Journal of Manufacturing Processes	2022	62	14	7625	7634
81.	Ritam Sarma, Sajan Kapil, S. N. Joshi	Build Strategies based on Substrate utilization for 3-axis Hybrid Wire Arc Additive Manufacturing Process	Materials Today: Proceedings	2022	10.1155 /2022/4 988301			
82.	Sajan Kapil, Atul Singh Rajput, Ritam Sarma	Hybridization in Wire Arc Additive Manufacturing	Materials Today: Proceedings	2022	96			
83.	Ambrish Singh, Atul Singh Rajput, Sajan Kapil, Manas Da	Parameter sensitivity analysis of centrifugal spreaders for dispersing metallic powders and material property evaluation for DEM simulation	journal of Advances in Materials Science and Engineering	2022	411		117958	
84.	Sadaival Singh, Ambrish Singh, Sajan Kapil, M Das	Utilization of a TSP Solver for Generating Non-Retractable, Direction Favouring Toolpath for Additive Manufacturing	Frontiers in Mechanical Engineering	2022	59		103126	
85.	Avadh Kishore Prasad, Sajan Kapil, Swarup Bag	Tailoring coil geometry for secondary heating of substrate towards the development of induction	Powder Technology	2022	27			

		heating-based wire additive manufacturing					
86.	Ritam Sarma, Amit Kumar Singh, Sajan Kapil, Swarup Bag, and Shrikrishna N. Joshi	Evolution of near homogenous mechanical and microstructural properties in wire-arc based directed energy deposition of low carbon steel following trochoidal trajectory toolpath.	Additive Manufacturing	2023	315	117921	
87.	Anand Mohan Pandey, Sajan Kapil, and Manas Das	Experimental investigation of localized electrochemical deposition-based micro- additive manufacturing process	Science and Technology of Welding and Joining	2023		1	13
88.	B. Das, B. Panda and U.S. Dixit	Microstructure and mechanical properties of ER70S-6 alloy cladding on aluminum using a cold metal transfer process	Journal of Materials Processing Technology	2022	31	9385	9398
89.	Kumara Swamy Pulisheru, Anil Kumar Birru and Uday Shanker Dixit	Effect of FeNb on microstructure and mechanical properties of Al- Cu-Ni alloy	Materials and Manufacturing Processes	2022	9	76506	
90.	N. Bhardwaj, R.G. Narayanan and U.S. Dixit	Exit-hole-free friction stir spot welding of aluminum alloy sheets using a consumable pin	Journal of Materials Engineering and Performance	2022	32	2119	2138
91.	Nilkamal Mahanta, Swati Sharma, Laipubam Gayatri Sharma, Lalit M. Pandey and Uday Shanker Dixit	Unfolding of the SARS-CoV-2 spike protein through infrared and ultraviolet-C radiation based disinfection	Materials Research Express	2022	221	71	82
92.	Amit Raj, Uday S. Dixit and Pavel A. Petrov	Simulation of temperature distribution in forging of a workpiece with a single asperity	Journal of Materials Engineering and Performance	2022		1	21
93.	B. Das, B. Panda and U.S. Dixit	Effects of heat-treatment on the mechanical properties of Fe-based ER70S-6 cladding on aluminum substrate using CMT process	International Journal of Biological Macromolecule S	2023		1	21
94.	P. A. Petrov, Fam Wang Ngoc, Wu Chong Bach, I. A. Burlakov, and	Plotting of Yield Curves for Al– Mg Aluminum Alloys Using Full-Scale and Computational Experiments	Advances in Materials and Processing Technologies	2022	13	1781	1788

	Uday Shanker Dixit							
95.	Gouvararaju S., Narayan J., Sauer R. A., and Gautam S. S.	A Bayesian regularization backpropagation neural network model for peeling computations	Journal of Materials Engineering and Performance	2023	99	1	92	115
96.	Ozarde, A. P., McNay, G. H., and Gautam, S. S.	Fretting fatigue damage and life evaluation of cylinder head gasket using deviotoric strain amplitude-based parameter corrected for surface wear damage	Russian Metallurgy (Metally)	2023	16	4	1	15
97.	Pandian, A. K., Gautam, S. S., and Senthilvelan S.	Influence of tooth asymmetry and mating gear material on the tooth deflection characteristics of polymer gears	Journal of Adhesion	2023	237	4	985	1004
98.	Ozarde, A. P., McNay, G. H., and Gautam, S. S.	Comparative fretting fatigue life evaluation between critical plane based and deviotoric strain amplitude based methods corrected for surface wear damage	SAE International Journal of Materials and Manufacturing	2022	15	2	111	132
99.	Pandian, A. K., Gautam, S. S., and Senthilvelan S.	Effect of layer orientation on the single tooth bending fatigue strength of selective laser sintered polymer gear	IMechE Part L: Journal of Mechanical Engineering Science	2023	236	8	1557	1573
100.	Bombarde D. S., Gautam S. S., and Nandy A.	A novel hybrid isogeometric element based on two-field Hellinger-Reissner principle to alleviate different types of locking	SAE International Journal of Materials and Manufacturing	2022	14		18	
101.	Bombarde D. S., Agrawal M., Gautam S. S., and Nandy, A.	Hellinger-Reissner principle based solid hybrid elements for three dimensional isogeometric analysis	IMechE Part L: Journal of Materials: Design and Applications	2022	394		114920	
102.	Pandian, A. K., Gautam, S. S., and Senthilvelan S.	Comparison of the bending fatigue performances of selective laser sintered and injection molded nylon spur gears	Sadhana	2022	236	3	513	523
103.	Sharma, G. N., Sundararajan T., and Gautam, S. S.	Identification of limiting damping mechanisms in a high quality factor hybrid resonator of space application gyroscope	Computer Methods in Applied Mechanics and Engineering	2022	69	3	1662	1679
104.	Saikia, B. B., Nath, D. and Gautam, S. S.	Application of machine learning in efficient stress recovery in finite element	IMechE Part L: Journal of Materials:	2023	78		359	363

		analysis	Design and Applications					
105.	Vithalbhai, S. K., Nath, D., Agrawal, V., Gautam, S. S.	Artificial neural network assisted numerical quadrature in finite element analysis in mechanics	Advances in Space Research	2022	66		1645	1650
106.	Baksi, D., Das, S. K., Agrawal, V., and Gautam, S. S.	Performance of enriched finite elements for hertzian contact problem	Materials Today: Proceedings	2022	66		2138	2143
107.	Bombarde D. S., Agrawal M., Gautam S. S., and Nandy A.	A locking-free formulation for three-dimensional isogeometric analysis	Materials Today: Proceedings	2022	66		1710	1715
108.	A. Mukherjee, D. N. Basu, P. K. Mondal, L. Chen	Characterization of condensation on nanostructured surfaces and associated thermal hydraulics using thermal lattice Boltzmann method	Materials Today: Proceedings	2022	105	4	045308- 1	045308- 16
109.	P. Kaushik, S.Shyam, and P. K. Mondal	Mixing in small scale fluidic systems swayed by rotationality effects	Materials Today: Proceedings	2022	34	6	062008- 1	062008- 12
110.	S.Shyam, P. K. Mondal and Somchai Wongwise	Survivability of a particle laden sessile coughed and sneezed droplet subjected to different ambient conditions	Phys. Rev. E	2022	176		107525- 1	107525- 10
111.	N. Nair, S.Shyam, P. K. Mondal, and S. P. Bhatnagar	Probing into the drying pattern dynamics of a ferrofluid droplet under the actuation of magnetic field	Physics of Fluids	2022				
112.	Shubhangee, G.Kumar and P. K. Mondal	Application of Artificial Neural Network for Understanding Multi-Layer Microscale Transport Comprising of Alternate Newtonian and non- Newtonian fluids	International Journal of Thermal Sciences	2022	642		128664- 1	128664- 14
113.	Nandani Rai, S. Kanagaraj	Enhanced Antioxidant Ability of PEG-Coated Ce0.5Zr0.5O2-Based Nanofluids for Scavenging Hydroxyl Radicals	IEEE Transactions on Magnetics	2022	7		22363	22376
114.	S. K.Mehta, and P. K. Mondal	Influence of viscoelectric effect on diffusioosmosic transport in nanochannel	Colloids Surfaces A. Physicochem. Eng. Asp.	2022				
115.	P. Kaushik and P. K. Mondal	Rotational flows of viscoplastic fluid in a soft microfluidic channel	ACS OMEGA	2022	26	8	1	13
116.	S.Shyam, B.Dhapola, and	Magnetofluidic-based controlled droplet breakup:	Electrophoresis	2022	944	A51	1	29

	P. K. Mondal	effect of non-uniform force field						
117.	Dhirendra Kumar Verma, Poonam Kumari, S. Kanagaraj	Engineering Aspects of Incidence, Prevalence, and Management of Osteoarthritis: A Review	Microfluidics and Nanofluidics	2022	50		237	252
118.	S. K.Mehta, and P. K. Mondal	Free convective heat transfer and entropy generation characteristics of the nanofluid flow inside a wavy solarpower plan	Journal of Fluid Mechanics	2022				
119.	Verma DK, Hussain M, Kumari P, Kanagaraj S	In-house development of contact microphone-based wearable device for knee joint health assessment using vibroarthrography	Annals of Biomedical Engineering	2022	5	1	59	65
120.	T. Siva, S. Jangili, B.Kumbhakar, and P. K. Mondal	Unsteady electromagnetohydrodynamic flow of couple stress fluid through a microchannel: A theoretical analysis	Microsystem Technologies	2022	95		83	93
121.	A. Ghosh, R. D. Kulkarni, S.Shin, and P. K. Mondal	Fast hologram reconstruction algorithm in digital in-line holography using Toeplitz matrix based deconvolution	Journal of Intelligent Systems with Applications	2022	159		107198- 1	107198- 8
122.	M. Kumar, and P. K. Mondal	Radiative and Hydromagnetic Heat Transfer Analysis of a Reiner–Philippoff Fluid	European Journal of Mechanics- B/Fluids	2023	37	1	213	226
123.	K.Mohammad, M.K.Seyed, N.Ashrafizadeh, and P. K. Mondal	Blue Energy Generation by the Temperature-dependent Properties in Funnel-Shaped Soft Nanochannels	Optics and Lasers in Engineering	2022	24		20303-1	20303- 15
124.	J. Manshukhani, A. Tripathy, M. Kumar, and P. K. Mondal	Propagative-rhythmic membrane contraction modulated efficient micropumping of non- Newtonian fluids	Journal of Thermophysics and Heat Transfer	2022	34	11	112007- 1	112007- 14
125.	M. Roy, P. Chakraborty, P. K. Mondal, and S. Wongwises	Leveraging spreadsheet analysis tool for electrically actuated start-up flow of non- Newtonian fluidin small-scale systems	Physical Chemistry Chemical Physics	2022	12	1	20059-1	20059- 14
126.	S. Shyam, U. Banerjee, P. K. Mondal, S. K. Mitra	Impact Dynamics of Ferrofluid Droplet on a PDMS Substrate Under the Influence of Magnetic Field	Physics of Fluids	2023	661		130911- 1	130911- 11
127.	M. Ismayeel, S. K. Mehta, P. K. Mondal	Prediction of Electrodiffusioosmotic Transport of Shear-thinning	Scientific Reports	2023	35		012018 -1	012018 -20

		Fluids in a Nanochannel using Artificial Neural Network					
128.	D.Pandey, P. K. Mondal, S.Wongwises	Chemiosmotic Flow in a Soft Conical Nanopore: Harvesting Enhanced Blue Energy	Colloids and Surfaces A: Physicochemic al and Engineering Aspects	2023	19	1152	1163
129.	D. Mandal, S. Datta, Giridhar R, P. K. Mondal, and R. Nag Chaudhuri	Rav1 mediates cytokinin signalling for regulating primaryroot growth in arabidopsis	Physics of Fluids	2023	113	106	126
130.	S. K. Mehta, P. K. Mondal	Vortex-assisted electroosmotic mixing of Carreau fluid in a microchannel	Soft Matter	2023			
131.	Doyel Pandey, P. K. Mondal, and Somchai Wongwises	Dielectric polarization mediated efficient solute mixing: Effect of the geometrical configuration of polarizing blocks	The Plant Journal	2023			
132.	S. Das, P. S Robi and Pronot kumar	Tribological Properties of (Al)10(FeCoNiCu)90 High Entropy Alloy	Electrophoresis	2023	https:// doi.org/ 10.1080 /175158 31.2023. 2168771		
133.	S. Das and P. S. Robi	Processing and Characterizations of Powder of the AlCoCuFeNi High Entropy Alloy,	Electrophoresis	2023	https:// doi.org/ 10.1007 /s42247 -023- 00466-3		
134.	Saptarshi Dutta and P S Robi	Experimental Investigation and Modeling of Creep Curve of Zr–2.5Nb Alloy by Machine Learning Techniques	Tribology- Materials, Surfaces & Interfaces	2022	28	2884	2897
135.	Saptarshi Dutta and P S Robi	Experimental investigation and correlation of elevated temperature mechanical behaviour of Zr-2.5Nb alloy	Emergent Materials	2022	57	22157	221k72
136.	Bombarde D. S., Gautam S. S., and Nandy A.	A novel hybrid isogeometric element based on two-field Hellinger-Reissner principle to alleviate different types of locking	Metals and Materails Intrnational	2022	14	18	
137.	Bombarde D. S., Agrawal M., Gautam S. S., and Nandy, A.	Hellinger-Reissner principle based solid hybrid elements for three dimensional isogeometric analysis	Metals and corossion	2022	394	114920	

	Bombarde D. S.,	A locking-free formulation for						
138.	Agrawal M., Gautam S. S., and Nandy A.	three-dimensional isogeometric analysis	Sadhana	2022	66		1710	1715
139.	Durgarao Kamireddy, Arup Nandy	A Novel Conversion Technique from Nodal to Edge Finite Element Data Structure for Electromagnetic Analysis	Computer Methods in Applied Mechanics and Engineering	2022	28	4	291	319
140.	Deepak Kumar, Sachin D Kore, Arup Nandy	A study on the effect of process parameters on the joint strength and leak tightness in electromagnetically assisted adhesive Cu-SS tube-to-tube joining through statistical analysis	Materials Today: Proceedings	2022	116		103136	
141.	Durgarao Kamireddy, Saurabh M Chavan, Arup Nandy	Comparative performance of novel nodal-to-edge finite elements over conventional nodal element for electromagnetic analysis	Computer Assisted Methods in Engineering and Science	2023	37	1	133	161
142.	Reddy R.S., Gupta A. and Panda S	Parametric instability control of porous functionally graded beam using piezoelectric actuators	International Journal of Adhesion and Adhesives	2023 (Accep ted)				
143.	Gupta A., Panda S. and Reddy R.S.	Damping Capabilities of Viscoelastic Composites for Active/Passive Constrained Layer Damping of the Plate Vibration: A Comparative Study	Journal of Electromagneti c Waves and Applications	2023	doi.org/ 10.1007 /s42417 -023- 00882-z			
144.	Reddy R. S. and Panda S.	A generalized finite element formulation for nonlinear frequency response analysis of viscoelastic sandwich beams using harmonic balance method	Journal of The Institution of Engineers (India): Series C	2023	doi.org/ 10.1007 /s00419 -023- 02380-w			
145.	B. Kumar, S. Bag and M R Amin	Evaluation of Phase Transformation Strain and its Influence on Residual Stress Generation in Laser Welded Ti6Al4V Alloy	Journal of Vibration Engineering & Technologies	2022	144	12	121002(1-12)	
146.	A. K. Sahu and S. Bag	Influence of heat input on intermetallic formation in dissimilar autogenous laser welding between Inconel 718 and AISI 316L steel	Archive of Applied Mechanics	2022	https:// doi.org/ 10.1177 /095440 5422112 946			
147.	Shahnawaz Ahmed, Manmohan	Loop Heat Pipe Design: An Evaluation of Recent Research on the Selection of	Journal of Manufacturing Science and	2022	14	7	070801 (22 pages)	

	Pandey, Masahiro Kawaji	Evaporator, Wick, and Working Fluid	Engineering (ASME)					
148.	Shahnawaz Ahmed, Chandan Nashine, Manmohan Pandey	Thermal management at microscale level: Detailed study on the development of a micro loop heat pipe	IMech, Part B: Journal of Engineering Manufacture (SAGE),	2022	16		100150 (9 pages)	
149.	B. Kumar, S. Dwibedi, S. Bag, M. Mahapatra and R. Gupta	A comparative study on microstructural and mechanical behaviour of spot welded Ti-6Al-4V alloy in as- welded and solution treated condition	Journal of Thermal Science and Engineering Applications (ASME)	2022	8	3	2637– 2651	
150.	B. Kumar, S. Dwibedi and S. Bag	On the interaction of cooling rate with thermal- microstructural-mechanical characteristics of laser-welded α + β titanium alloy	Micro and Nano Engineering (Elsevier)	2022	8	2	774–789	
151.	S. Dwibedi and S. Bag	Influence of process parameters on microstructural evolution, solidification mode, and impact strength in joining stainless steel thin sheets	Advances in Materials and Processing Technologies (Taylor & Francis)	2022	8	3	1089– 1104	
152.	Shiv Sahaya Shukla, K. S. R. K. Murthy and S. Sajith	Numerical and experimental studies of mixed-mode (I/III) fracture using a new specimen setup	Advances in Materials and Processing Technologies (Taylor & Francis)	2023	243		108036	
153.	Mirzaul Karim Hussain, K. S. R. K. Murthy	Comparison of methods for estimating notch stress intensities at sharp V-notches	Advances in Materials and Processing Technologies (Taylor & Francis)	2022	17		123-	147
154.	Shiv Sahaya Shukla, S. Sajith and K. S. R. K. Murthy	Shiv Sahaya Shukla, S. Sajith and K. S. R. K. Murthy	International Journal of Mechanical Sciences	2022	94		104566	
155.	A Namdeo, V Bhandare, BJ Sahariah, P Khanikar	Tetrahedral and strut- reinforced tetrahedral microlattices: Selectively laser melted high-strength and high-stiffness cellular metamaterials	Journal of Mechanics of Materials and Structures	2022	855		143878	
156.	MJ Baishya, BJ Sahariah, N Muthu, P Khanikar	Composite strut-plate lattice: A high-stiffness design of cellular metamaterial having excellent strength and energy	European Journal of Mechanics / A Solids	2022	33		104939	

		absorption ability						
157.	S Tamuly, S Dixit, B Kombaiah, P Khanikar	Strengthening mechanisms and deformation behavior of industrially-cast and lab-cast dual-phase high entropy alloy	Materials Science and Engineering: A	2023	29	1	81	94
158.	Saurav Kumar Dutta, B. Sandeep Reddy, S.K. Dwivedy	Complibot: A compliant external pipe climbing robot	Materials Today Communicatio ns 33, 104939	2023 (Accep ted)				
159.	Manjesh Kumar,Manas Das, Nan Yu	Effect of optimum process parameters on material removal in rotational- magnetorheological miniature gear profile polishing (R- MRMGPP) process	Metals and Materials International	2022	44	5	205	
160.	Manjesh Kumar, Chandan Kumar,Amit Kumar, Debashish Gogoi, Manas Das	Experimental and theoretical analyses of material removal in poppet valve magnetorheological finishing	Mechanics Based Design of Structures and Machines	2022			0954408 9221139 102	095440 892211 39102
161.	Manjesh Kumar,Chandan Kumar,Hari Narayan Singh Yadav,Manas Das, Nan Yu	Material removal analysis during MR polishing of complex gear teeth profiles	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2022				
162.	Manjesh Kumar,Manas Das, Nan Yu	Surface Roughness Simulation During Rotational– Magnetorheological Finishing of Poppet Valve Profiles	ARCHIVE Proceedings of the Institution of Mechanical Engineers Part E Journal of Process Mechanical Engineering Science	2022	5	3	259	273
163.	Abhinav Kumar, Suraj Kumar, Manas Das	Parametric investigation of electropolishing to enhance the surface characteristics of maraging steel with organic electrolytes	ARCHIVE Proceedings of the Institution of Mechanical Engineers Part C Journal of Mechanical Engineering Science	2022	121	7	5297	5310
164.	Abhinav Kumar, Ranajit Mahanti, Manas Das	Investigation of electropolishing performance on surface residual stress and morphology of electrical discharge machined maraging	Nanomanufact uring and Metrology	2022				

		steel						
165.	Abhinav Kumar, Ranajit Mahanti, Manas Das	Electropolishing of thin- cruciform gimbal flexure of gyroscope fabricated by electrical discharge machining	The International Journal of Advanced Manufacturing Technology	2022				
166.	Shashi Kant Ratnakar, Utpal Kiran and Deepak Sharma	Acceleration of Structural Topology Optimization using Symmetric Element-by- Element Strategy for Unstructured Meshes on GPU	Proc IMechE Part C: J Mechanical Engineering Science	2022	39	10	3354	3375
167.	Deepak Sharma, Devang Agarwal and Santosh Kumar	Reference-Lines Steered Guide Assignment and Update For Pareto-Based Many- Objective Particle Swarm Optimization	Materials and Manufacturing Processes	2023	16		89	114
168.	Vedant Sharma, Deepak Sharma and Ashish Anand	Hybrid Multi-Scale Convolutional Long Short- Term Memory Network for Remaining Useful Life Prediction and Offset Analysis	Engineering Computations	2022	23	4	41006	
169.	Raktim Biswas and Deepak Sharma	A Single-Loop Reliability-based Design Optimization using Adaptive Differential Evolution	Applied Soft Computing	2023	132		109907	
170.	Raktim Biswas and Deepak Sharma	Single-Loop Multi-Objective Reliability-Based Design Optimization Using Chaos Control Theory and Shifting Vector with Differential Evolution	Mathematical and Computational Applications	2023	28	1	26	

CONFERENCES/WORKSHOPS/SYMPOSIA ATTENDED: NATIONAL/ INTERNATIONAL (1 APRIL 2022– 31 MARCH 2023)

Total No. of papers published in Conference Proceedings: 141 No.s

Sl. No.	Name of Faculty	Paper Title	Name of Conf./Workshop	Place and Date
1.	J. Kakati J, S. M. More, S. Pal, and U. K. Saha	Analyzing the operating parameters of a compression ignition diesel engine using artificial neural network	ASME 2022 Power Conference, July 2-3, Pittsburgh, PA, USA.	2022
2.	S Bordoloi, P Saikia, C N Gupta, S M Hazarika	Neural Correlates of Motor Imagery during Action Observation in Affordance-based Actions: Preliminary Results	44th Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC)	2022
3.	Pardeep Pankaj, Tanmoy Medhi, and Pankaj Biswas,	Intermetallic compound formation and metallographic examination in dissimilar FSW of aluminum and steel alloys	North-East Research Conclave (NERC 2022), IIT Guwahati, India	2022
4.	Sanjay Raj, Pankaj Biswas	Microstructure and mechanical characterizations of friction stir butt- welded Inconel 718 alloy by	North-East Research Conclave, Sustainable Science and Technology (NERC-2022),	2022

		considering the effect of welding speed		
5.	Sanjay Raj, Pankaj Biswas	Friction Stir Welding of Inconel 718 Reinforced with Carbon Nanotubes	2nd International conference on Advances in Mechanical Engineering and Material Science (ICAMEMS-2023)	2022
6.	Ankan Das, Himanshu Kalita, Sajan Kapil, Pankaj Biswas	Feasibility Study for Fabricating Smart Structures Using Hybrid Additive Manufacturing Based on Friction Stir Welding	8th Asian Conference on Mechanics of Functional Materials and Structures (ACMFMS2022)	2022
7.	Ankan Das, Himanshu Kalita, Sajan Kapil, Pankaj Biswas	Utilization of Friction Stir Welding to Fabricate 3D Objects in Metal Additive Manufacturing	North-East Research Conclave (NERC 2022), IIT Guwahati, India	2022
8.	Rituraj Bhattacharjee, Susmita Datta, Himangshu Kalita, Suleiman Ali, Pankaj Biswas	Microstructural and Mechanical Characterization of Underwater FSWed Marine Grade AA5083	8th Asian Conference on Mechanics of Functional Materials and Structures (ACMFMS2022)	2022
9.	Susmita Datta, Rituraj Bhattacharjee, Himangshu Kalita, Pankaj Biswas	Corrosion Characteristics of Laser Welded NiTinol in Marine Environment	8th Asian Conference on Mechanics of Functional Materials and Structures (ACMFMS2022)	2022
10.	Subhashis Majumder, Sajan Kapil,Pankaj Biswas,Nisith Ranjan Mandal	Experimental Investigation on Underwater Gas Metal Arc Welding System	COPEN 12	2022
11.	Subhashis Majumder, Sajan Kapil,Pankaj Biswas,Nisith Ranjan Mandal	Design and Development of GMAW Nozzle for Underwater Dry Welding using Compressed Air	Asian Conference on Mechanics of Functional materials and Structures (ACMFMS 2022)	2022
12.	Rockey Kumar, P S Robi, Pankaj Biswas	Design and Development of Tourist Submarine	8th Asian Conference on Mechanics of Functional Materials and Structures (ACMFMS2022)	2022
13.	Rajput, A.S., Sharma, R., Mittal, R. K. and Kapil, S.	Investigation of Chatter Vibration on Wire Arc Additive Manufactured Products During the Milling Operation	17th International Conference on Vibration Engineering and Technology of Machinery, VETOMAC, 2022	2022
14.	Sahoo, P., Kumar, S., Mittal, R.K., Singh, R.K. and Barshilia, H.C	Influence of Hydrogen-Free DLC Coated Micro Ball Endmills on Machining Response and Tool Wear in High-Speed Micromilling of Ti6Al4V	5th World Congress on Micro and Nano Manufacturing (WCMNM), 2022	2022
15.	Chadaram, A. Gururaja, S, Mittal, R. K., and Singh, K.K	Tribological Performance Analysis of Textured Cutting Insert Created Via High Speed Micromilling Process	5th World Congress on Micro and Nano Manufacturing (WCMNM), 2022	2022
16.	Hashemitaheri, M., Mittal, R. K., Cherukuri, H. and Singh, R.	Extracting the In-Process Structural Dynamics Parameters in Micro- Milling Operations	International Manufacturing Science and Engineering Conference, MSEC 2022	2022
17.	Dhirendra Kumar	Fabrication, and Performance	North East Research conclave;	2022

	Verma, Mirsaidin Hussain, Poonam Kumari, Subramani Kanagaraj	Validation of A Piezoelectric Sensor and Arduino-Based Wearable Device for Knee Joint Health Assessment,	Sustainable Science and Technology, IIT Guwahati	
18.	Dhirendra Kumar Verma, Mirsaidin Hussain, Poonam Kumari, Subramani Kanagaraj	In-House Development of Contact Microphone-Based Wearable Device for Knee Joint Health Assessment Using Vibroarthrography	5th international conference on Medical Devices, ICMD-2022, Gaziantep Turkey	2022
19.	Dhirendra Kumar Verma, Sneha Patwari, Poonam Kumari, Subramani Kanagaraj	Detection of osteoarthritis using piezoelectric sensor-based acoustic emission system	International Conference on Biomaterials, Regenerative Medicine and Devices, Bio-Remedi- 2022, IIT Guwahati	2022
20.	Jyotirmoy Kakati, Shubham M. More, Sukhomay Pal and Ujjwal K. Saha	Analyzing the operating parameters of a compression ignition diesel engine using artificial neural network	ASME 2022 Power Conference, July 2-3, Pittsburgh, PA, USA.	2022
21.	Nikhil Dilip Kulkarni, Mukesh Kumar and Poonam Kumari	PVDF/RGO based piezoelectric nanocomposite films for enhanced mechanical and dielectric properties	International Conference on Advances in Chemical and Materials Sciences, ACMS 2022, India	2022
22.	Viwek Kumar and Poonam Kumari	Fabrication and Characterization of Axially Functionally Graded Beam	7th Asian Conference on Mechanics of Functional Materials and Structures (ACMFMS 2020+1)	2021
23.	Poonam Kumari and Viwek Kumar	2D analytical solution for multi- segmented Auminium-steel- composite panel-An Aerospace Application	WCCM-APCOM 2022	2022
24.	Viwek Kumar and Poonam Kumari	Processing and Characterization of Cu-SiC based functionally graded materials (FGMs)	8th Asian Conference on Mechanics of Functional Materials and Structures (ACMFMS-22)	2022
25.	Mridusmita Bora, Poonam Kumari and Niranjan Sahoo	Investigation of the mechanical behavior of the treated and untreatedbamboo fiber reinforced epoxy composites- Assam's Bamboo	ICCS24 - 24th International Conference on Composite Structures	2021
26.	Mridusmita Bora, Poonam Kumari and Niranjan Sahoo	Mechanical strength evaluation of bamboo composites for its use in low to medium scale structural components	North East Research conclave; Sustainable Science and Technology, IIT Guwahati	2022
27.	Mridusmita Bora, Poonam Kumari and Niranjan Sahoo	Study on strength evaluation of Bamboo-composite laminates for its use in low to medium scale structural components	ISTAM – 67th Congress of the Indian Society of Theoretical and Applied Mechanics	2022
28.	Anand Mohan Pandey, Sajan Kapil & Manas Das	Metal Based µ-Additive Manufacturing by Localized Electrochemical deposition	12th International conference on precision, micro, meso and nano engineering (COPEN-12), IIT Kanpur, India	2022
29.	Hari Narayan Singh Yadav & Manas Das	Investigation of plasma process for finishing of fused silica and its characterization	12th International conference on precision, micro, meso and nano engineering (COPEN-12), IIT Kanpur, India	2022
30.	Hari Narayan Singh Yadav & Manas Das	SURFACE CHARACTERISTICS OF FUSED SILICA IN MEDIUM PRESSURE PLASMA PROCESS	7th International Conference Dr B R Ambedkar National Institue of Technology Jalandhar, India on Production & Industrial	2023

			Engineering (CPIE – 2023)	
31.	Hari Narayan Singh Yadav & Manas Das	ADVANCED PLASMA POLISHING PROCESSES: PRINCIPLES, RECENT APPLICATIONS, CHALLENGES AND FUTURE SCOPE	7th International Conference Dr B R Ambedkar National Institue of Technology Jalandhar, India on Production & Industrial Engineering (CPIE – 2023)	2023
32.	Ranajit Mahanti & Manas Das	Development of cost-effective micro-EDM process for micro-holes drilling	12th International conference on precision, micro, meso and nano engineering (COPEN-12), IIT Kanpur, India	2022
33.	K. Naik and N. Sahoo	Aerodynamic performance improvements of the Darrieus type straight-bladed vertical axis wind turbine with gurney flaps	67th Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM-2022), 14-16 December, IIT Mandi	2022
34.	S. C. Barhate O. Siram and N. Sahoo	Wake modelling of horizontal axis wind turbine using sparse identification of non-linear dynamics (SINDy)	67th Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM-2022), 14-16 December, IIT Mandi	2022
35.	O. Siram, S. C. Barhate and N. Sahoo	Spiral polar plot analogy to dictate the two-dimensional depiction of helical vortex lines (HLVs)	67th Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM-2022), 14-16 December, IIT Mandi	2022
36.	S. Nayak, N. Sahoo and K. Masaharu	Fabrication and thermal characterization of a coaxial thermal probe	67th Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM-2022), 14-16 December, IIT Mandi	2022
37.	S. Nayak and N. Sahoo	Recovery of Impulsive forces: A comparative assessment between conventional and soft computing technique	North-East Research Conclave (NERC 2022), 20-22 May, Indian Institute of Technology, Guwahati	2022
38.	K. Naik and N. Sahoo	Numerical study of the effect of gurney flaps on the aerodynamic performance augmentation of the H- type Darrieus wind rotors	North-East Research Conclave (NERC 2022), 20-22 May, Indian Institute of Technology, Guwahati	2022
39.	A. K. Singh, K. Singh, D. Singh and N. Sahoo	Film cooling analysis of ammonia- based aviation fuels in jet engines	Indo-German International Conference on Metrology for the Deployment of Green Hydrogen and Renewable Fuels in India, 04- 06 April (Virtual mode; PTB & IMEKO-TC20, Germany)	2022
40.	K. Naik and N. Sahoo	On the use of cavity for the power augmentation of straight-bladed Darrieus vertical axis wind turbines	Indo-German International Conference on Metrology for the Deployment of Green Hydrogen and Renewable Fuels in India, 04- 06 April (Virtual mode; PTB & IMEKO-TC20, Germany)	2022
41.	A. K. Rout, N. Sahoo and P. Kalita	Design and development of a thermal probe for internal combustion engine measurement	Indo-German International Conference on Metrology for the Deployment of Green Hydrogen and Renewable Fuels in India, 04- 06 April (Virtual mode; PTB & IMEKO-TC20, Germany)	2022
42.	Md. S. M. Khan and N. Sahoo	Effect of Al2O3 nanoparticles blended biodiesel on performance and emission characteristics of diesel engines	Indo-German International Conference on Metrology for the Deployment of Green Hydrogen and Renewable Fuels in India, 04-	2022

			06 April (Virtual mode; PTB & IMEKO-TC20, Germany)	
43.	M. A. Assegie, P. Kalita and N. Sahoo	Hybrid mode compressed air energy storage system for renewable energy sector	Indo-German International Conference on Metrology for the Deployment of Green Hydrogen and Renewable Fuels in India, 04- 06 April (Virtual mode; PTB & IMEKO-TC20, Germany)	2022
44.	O. Siram and N. Sahoo	A statistical approach to determine and discretize the turbulent flow signature acquired using hot-wire anemometry	Indo-German International Conference on Metrology for the Deployment of Green Hydrogen and Renewable Fuels in India, 04- 06 April (Virtual mode; PTB & IMEKO-TC20, Germany)	2022
45.	S. Naik and N. Sahoo	Fabrication of a coaxial thermal probe for transient temperature and heat flux measurement	Indo-German International Conference on Metrology for the Deployment of Green Hydrogen and Renewable Fuels in India, 04- 06 April (Virtual mode; PTB & IMEKO-TC20, Germany)	2022
46.	S. C. Barhate and N. Sahoo	Ammonia route in green hydrogen blending for domestic applications	Indo-German International Conference on Metrology for the Deployment of Green Hydrogen and Renewable Fuels in India, 04- 06 April (Virtual mode; PTB & IMEKO-TC20, Germany)	2022
47.	S. Nayak and N. Sahoo	Dynamic calibration of a stress-wave force balance using hybrid soft computing approach	International Conference on Nonlinear Dynamics and Applications (ICNDA 2022), Virtual mode (Paper ID: 154), 09-11 March, Sikkim Manipal Institute of Technology, Sikkim	2022
48.	A. K. Rout, N. Sahoo and P. Kalita and V, Kulkarni	Response behavior of a coaxial thermal probe towards dynamic thermal loading	International Conference on Nonlinear Dynamics and Applications (ICNDA 2022), Virtual mode (Paper ID: 154), 09-11 March, Sikkim Manipal Institute of Technology, Sikkim, 09-11 March	2022
49.	B.P. Bonthala, B. Panda and U.S. Dixit	Exploration of the aquatic ecosystem of the river Brahmaputra	Online 2nd National Symposium on Technologies for Underwater Exploration, May 2-3, 2022, IIT Guwahati	2022
50.	Lalit M. Pandey and Uday Shanker Dixit	Traditional and Modern Storage Practices for Food Grains	North-East Research Conclave 2022, May 20-22, 2022, IIT Guwahati	2022
51.	Kaustabh Chatterjee, Uday S. Dixit and Jian Zhang	Fuzzy Set Based Estimation of Closed-Die Forging Load using the Shop Floor Data	North-East Research Conclave 2022, May 20-22, 2022, IIT Guwahati	2022
52.	Bappa Das, Uday Shanker Dixit, Biranchi Narayan Panda	Corrosion behavior and mechanical properties of ER70S-6 alloy cladding on aluminum using a cold metal transfer process	North-East Research Conclave 2022, May 20-22, 2022, IIT Guwahati	2022
53.	Shubham Maurya, Biranchi Panda, Uday Shanker Dixit,	Design and fabrication of an extrusion system for cement paste 3D printing	North-East Research Conclave 2022, May 20-22, 2022, IIT Guwahati	2022

	Arun Ch. Borsaikia and Biswajeet			
54.	Barman Lalit M. Pandey and Uday Shanker Dixit	Extracting Science, Engineering and Technology from the Ancient Literature of Mahapuranas	North-East Research Conclave 2022, May 20-22, 2022, IIT Guwahati.	2022
55.	Amit Raj, Arun Chandra Borsaikia and Uday Shanker Dixit	Strength of autoclaved aerated concrete (AAC) and its masonry: a review	North-East Research Conclave 2022, May 20-22, 2022, IIT Guwahati.	2022
56.	Basant Kumar Mishra, Gaurav Trivedi and U.S. Dixit	Conceptual Design of Electric Vehicle with Regenerative Braking System	North-East Research Conclave 2022, May 20-22, 2022, IIT Guwahati.	2022
57.	B. P. Bonthala, B. Panda and U.S. Dixit	A Review on development of Underwater Vehicles for Transportation	North-East Research Conclave 2022, May 20-22, 2022, IIT Guwahati.	2022
58.	Pratik Raj and Uday S. Dixit	Modelling and CFD Simulation of Hull of an Underwater Vehicle	North-East Research Conclave 2022, May 20-22, 2022, IIT Guwahati	2022
59.	Shyaman Saloi and U.S. Dixit	Importance of Scientific Writing for Enhancing the Science Education in Northeast India	North-East Research Conclave 2022, May 20-22, 2022, IIT Guwahati.	2022
60.	Faladrum Sharma and Uday Shanker Dixit	Impact of Additive Manufacturing Technology on Education: A Review	North-East Research Conclave 2022, May 20-22, 2022, IIT Guwahati	2022
61.	Bappa Das, Abhijeet Dhulekar, Biranchi N. Panda and Uday S. Dixit	Investigation of temperature distribution through finite element model of Fe-based ER70S-6 cladding on aluminum substrate using a cold metal transfer process	12th International Conference on Precision, Micro, Meso and Nano Engineering (COPEN), Indian Institute of Technology Kanpur, December 8-10, 2022.	2022
62.	B.P. Bonthala, B. N. Panda and U. S. Dixit	Design and Development of an Unmanned Surface Vehicle for water quality assessment	12th International Conference on Precision, Micro, Meso and Nano Engineering (COPEN), Indian Institute of Technology Kanpur, December 8-10, 2022	2022
63.	Abhijeet Dhulekar, Faladrum Sharma, Uday Shanker Dixit	Design and Manufacturability Issues in Autonomous Underwater Vehicles	12th International Conference on Precision, Micro, Meso and Nano Engineering (COPEN), Indian Institute of Technology Kanpur, December 8-10, 2022.	2022
64.	Bharat Bhushan, J. Ramkumar and Uday S. Dixit	Simulation of the Incremental Sheet Metal Forming of a U-Channel Made of Different Materials	12th International Conference on Precision, Micro, Meso and Nano Engineering (COPEN), Indian Institute of Technology Kanpur, December 8-10, 2022	2022
65.	B. Brahma, K. Kalita and U.S. Dixit	A Study of Passive Control in a Bridge Configured Winding Induction Motor with an Oval-shaped Stator	IPRoMM 2022, IIT-ISM, Dhanbad, December 22-23, 2022	2022
66.	Shubham Maurya, Dhrutiman Dey, Biranchi Panda and U.S. Dixit	Inline reinforcement of steel in 3D concrete printing	Second International Conference on Construction Materials and Structures (ICCMS 2022), in virtual mode, December 14-18, 2022 (Virtual Mode), NIT Calicut, India	2022
67.	Ashok Kumar Gond, Dipankar	Numerical investigation of heat transfer characteristics of sCO2 in a	9th International & 49th National Conference on Fluid Mechanics &	2022

	Narayan Basu and	vertical divergent tapered annular	Fluid Power (FMFP-2022) held at	
	Amaresh Dalal	channel	IIT-Roorkee from December 14 to	
			December 16, 2022.	
68.	Nath, D., Agrawal,	A Machine Learning Approach to	8th Asian Conference on	
	-	Optimize Quadrature Rule for	Mechanics of Functional Materials	2022
	V., Gautam, S. S.	Isogeometric Analysis	and Structures	
69.		Performance study of VO-based	8th Asian Conference on	
	Agrawal, V., Das, S.	NURBS discretization in isogeometric	Mechanics of Functional Materials	2022
	K., Gautam, S. S.	analysis of contact problems	and Structures	2022
70.		Efficient stiffness matrix in finite		
70.	Nath, S. S., Nath,		8th International Congress on	2022
	D., Gautam, S. S.	element method using deep learning	Computational Mechanics and	2022
		for linear elasticity	Simulation	
71.	Saikia, B. B., Nath,	Machine learning models for stress	8th International Congress on	
	D., Gautam, S. S.	recovery in finite element method	Computational Mechanics and	2022
	D., Gautain, S. S.	recovery in finite element method	Simulation,	
72.		Effects of the varying-order based		
	Das, S. K., Agrawal,	NURBS discretization strategies on	8th International Congress on	
	V., Gautam, S. S.	the solution of two-body large	Computational Mechanics and	2022
		deformation contact problems	Simulation,	
73.			3rd Biennial International	
13.	Kiron II. Coutom C	Accolorating finite element energiet		
	Kiran U., Gautam S.	Accelerating finite element assembly	Conference on Future Learning	2022
	S., and Sharma D.	on a GPU	Aspects of Mechanical Engineering	
			(FLAME - 2022)	
74.		Application of Machine Learning in	3rd Biennial International	
	Saikia, B. B., Nath,	Efficient Stress Recovery in Finite	Conference on Future Learning	2022
	D., Gautam, S. S.	-	Aspects of Mechanical Engineering	2022
		Element Analysis	(FLAME - 2022)	
75.			3rd Biennial International	
	Nath, S. S., Nath,	Design of Efficient Finite Elements	Conference on Future Learning	
	D., Gautam, S. S.	using Deep Learning Approach	Aspects of Mechanical Engineering	2022
			(FLAME - 2022)	
76.			3rd Biennial International	
/0.	Chinchkar, R.,	Design of Efficient Quadrature	Conference on Future Learning	
	Nath, D., Gautam,	Scheme in Finite Element Using Deep	-	2022
	S. S.	Learning	Aspects of Mechanical Engineering	
			(FLAME - 2022)	
77.	Vaibhav Jaiswal, J.	Dynamic-mechanical ankle joint for	North-East Research Conclave	
	Mahesh, P.	trans-femoral and transtibial	(NERC)-2022", Indian Institute of	2022
	Kishore, R.	amputees to increase their stability	Technology Guwahati, Assam, May	
	Hridaysh and S.	and range of motion	20-22	
	kanagaraj		20-22	
78.	Vaibbau Istanta D		Biomaterials, Regenerative	
	Vaibhav Jaiswal, R.	Rehabilitation feedback of passive	Medicine and Devices-2022 Indian	
	Hridaysh and S.	polycentric knee joint and its analysis	Institute of Technology Guwahati,	2022
	Kanagaraj		Assam, December 15-18	
79.			One Day National Symposium on	
	Arnab Sarmah,	Biomechanical Techniques for	Challenges and Opportunities in	
	Satoshi Ito and S.			2022
		Identification and management of	the Management of Neurological	2022
	Kanagaraj	Neurological disorders	Disorders,NIPER Guwahati, 7th	
0.5			December 2022.	
80.		AUTOMATED SEGMENTATION OF		
	Akshay Davdar P	KNEE JOINT TISSUES FROM MRI		
	Akshay Daydar, B	DATA USING CONVOLUTIONAL	Medical Image Computing	2022
	Venkatesh,Arijit	NEURAL NETWORK AND	Workshop, IISC Bangalore	2023
	Sur, S Kanagaraj			
	,			
		INCORPORATING SHAPE KNOWLEDGE		

	Santosha Kumar	neuropathic foot	Biomaterials, Regenerative	
	Dwivedy,	•	Medicine and Devices	
	Subramani			
	Kanagaraj			
82.	Lipika Boruah, Santosha Kumar Dwivedy, Subramani Kanagaraj	Review of underwater gait analysis	8th Asian Conference on Mechanics of functional materials and structures	2022
83.	Subhojit Jash, Sajan kapil, Subramnai Kanagaraj	Developement of Rescue System for Swimmers and Underwater Divers	8th Asian Conference on Mechanics of functional materials and structures	2022
84.	Subhojit Jash, Sajan kapil, Subramnai Kanagaraj	Review of underwater Health Monitoring Devices and Drowning Detection Methods	International Conference on Biomaterials, Regenerative Medicine and Devices	2022
85.	Dhruvkumar H. Wankawala and P. K. Mondal	On-Demand Droplet Formation in Lab-on-a-chip Platforms	North-East Research Conclave (NERC)	2022
86.	Dhruvkumar H. Wankawala and P. K. Mondal	Experimental investigation of non- Newtonian droplet splitting in a microfluidic T-junction	Proceedings of the 9th International and 49th National Conference on Fluid Mechanics and Fluid Power (FMFP 2022)	2022
87.	Sumit Kumar Mehta, Dhananjay Kumar, Pranab Kumar Mondal, and Somchai Wongwises	Effect of Thermal Dispersion on Thermo-Hydraulic Characteristics for Flow through Wavy Solar Power Plant with Metallic Porous Blocks	5th International conference on Energy systems, drives and automation (ESDA 2022)	2022
88.	Sumit Kumar Mehta, Pranab Kumar Mondal, and Somchai Wongwises	Free convective heat transfer characteristic of hybrid nanofluid inside the solar plant with porous block	12th TSME-International Conference on Mechanical Engineering 2022	2022
89.	Sumit Kumar Mehta, Pranab Kumar Mondal, and Somchai Wongwises	Natural convective heat removal from the heat generating electronics component using metallic porous extension	12th TSME-International Conference on Mechanical Engineering 2022	2022
90.	Deepak Kumar, Avinash Chetry, Sachin D. Kore, and Arup Nandy,	Study of Interfacial Waviness Formation and Jetting Phenomenon during Magnetic Pulse Welding using Smoothed Particle Hydrodynamics (SPH)	ME@75 Research Frontiers Conference, IISc Bangalore, Karnataka, India	2022
91.	Sreekanth Karanam, Durgarao Kamireddy and Arup Nandy	Implementing symmetric boundary condition in electromagnetic harmonic analysis: two different approaches	7th International Conference on Micro-Electronics Electromagnetics and Telecommunication, ICMEET 2022	2022
92.	Sagar Pawar, Deepak Kumar, Sachin D. Kore, Arup Nandy	Effect of Die Conductivity on Electromagnetic Forming of Tube	2nd International Conference & Exposition on Mechanical, Material and Manufacturing Technology	2022
93.	Deepak Kumar, Kunalan Murthy, Sachin D. Kore, Arup Nandy	Effect of Thread Angle besides Pitch and Discharge energy in Electromagnetically Crimped Threaded Surfaced Tube-to-Tube Joint: Experimental and Numerical	2nd International Conference & Exposition on Mechanical, Material and Manufacturing Technology	2022

		Investigation along with ANOVA Analysis to Assess the Relative Contribution of the Process Parameters		
94.	Arnab Adhikary, Rishav Shaw, Dr. Arup Nandy	Outward Wave Favouring formulation in exterior acoustics: an assessment of its high frequency performance	International Conference on Vibration Problems, ICOVP 2023	2023
95.	D. Bombarde, M. Agrawal, S. Gautam, and A. Nandy	A locking-free formulation for three- dimensional isogeometric analysis	International Conference on Recent Advances in Engineering Materials, ICRAEM 2022	2022
96.	D. Kamireddy, S. M. Chavan, and A. Nandy	Electromagnetic eigen analysis: performance comparison of four node and four edge quadrilateral elements with the effect of distortion	International Conference on Recent Advances in Engineering Materials, ICRAEM 2022, Karnataka, India, 03-05 March	2022
97.	D. Kumar, C. Morajkar, S.D. Kore, and A. Nandy	Comparison of two different non- coupled multistep simulation techniques for strength prediction of an electromagnetically crimped Cu- SS tube-to-tube joint with smooth interface	2nd International Conference on Industry 4.0 and Advanced Manufacturing, IISc Bangalore	2022
98.	Kumar N, S Panda	Development of Constrained Viscoelastic Composite Damping tape	Innovation & Entrepreneurship Conclave (IEC 2022), IIT Guwahati	2022
99.	Kumar N, S Panda	Development of a 1-3 VEC based constrained layer damping tape	Innovation & Entrepreneurship Conclave (IEC 2022), IIT Guwahati	2022
100	V. V. Sarnaik, S Panda, Nitin Kumar and S. Kanagaraj	Performance of silicon rubber in constrained layer damping of structural vibration	North-East Research Conclave & Assam Biotech Conclave – 2022 (NERC 2022), IIT Guwahati	2022
101	Gupta A, Munendra, Reddy RS and Panda S.	Damping analysis of sandwich beams with the viscoelastic particulate composite core using fractional order derivation viscoelastic constitutive model	1st International Conference on Advances in Mechanical Engineering & Material Science (ICAMEMS-2022), VIT AP University	2022
102	Reddy RS, Gupta A and Panda S.	Nonlinear frequency response of sandwich beam with frequency- dependent viscoelastic core using reduced-order finite element method	1st International Conference on Advances in Mechanical Engineering & Material Science (ICAMEMS-2022), VIT AP University	2022
103	Kumar N, Panda S, Sarnaik VV.	On the performance of silicon and polyurethane rubbers in structural vibration damping.	The Eight Asian Conference on Mechanics of Functional Materials and Structures (ACMFMS 2022), IIT Guwahati	2022
104	Rohit Kumar and Manmohan Pandey	Thermodynamic Approach to Determine the Hydraulic and Thermal Losses in Fluid Flow Through Triangular Miniature Channels	7th Thermal and Fluids Engineering Conference (TFEC), May, 15-18, 2022 , Las Vegas, NV, USA	2022
105	Chandan Nashine and Manmohan Pandey	Theoretical Modelling of Miniature Loop Heat Pipe	7th Thermal and Fluids Engineering Conference (TFEC), May, 15-18, 2022 , Las Vegas, NV, USA	2022
106	Chandan Nashine, Nadaf Arman Mohaddin, Sandip	Experimental studies on sintered bi- porous wicks for loop heat pipe	Joint 21st IHPC and 15th IHPS, Melbourne, Australia, February 5- 8, 2023	2023

	Kumar Sarma,			
	Manmohan Pandey			
107	Rohit Kumar and Manmohan Pandey	Numerical Investigation of Heat Transfer Augmentation in Miniature Channels with Microfins having Axially Varying Fin Pitch	Joint 21st IHPC and 15th IHPS, Melbourne, Australia, February 5- 8, 2023	2023
108	Shivayya C. Hiremath, Rohit Kumar, Arman Mohaddin Nadaf, Manmohan Pandey	Numerical Analysis of Heat Transfer and Fluid flow in Microchannel Heat sinks Designed for Uniform Cooling	9th International and 49th National Conference on Fluid Mechanics and Fluid Power (FMFP) December 14-16, 2022, Roorkee, Uttarakhand, India	2022
109	Chandan Nashine and Manmohan Pandey	Transient Numerical Modeling of a Miniature Loop Heat Pipe	9th International and 49th National Conference on Fluid Mechanics and Fluid Power (FMFP) December 14-16, 2022, Roorkee, Uttarakhand, India	2022
110	Toni Kumari and Manmohan Pandey	Study of physical characteristics of a bi-porous composite capillary wick for a flat miniature loop heat pipe	9th International and 49th National Conference on Fluid Mechanics and Fluid Power (FMFP) December 14-16, 2022, Roorkee, Uttarakhand, India	2022
111	Rohit Kumar, Chandan Nashine, Arman Mohaddin Nadaf, Mohd Sakib Hussain, Manmohan Pandey	Experimental Investigation of Fluid Flow Behaviour in Parallel Microchannel using Micro-PIV	9th International and 49th National Conference on Fluid Mechanics and Fluid Power (FMFP) December 14-16, 2022, Roorkee, Uttarakhand, India	2022
112	Rohit Kumar and Manmohan Pandey	Heat Transfer Enhancement in Miniature Channels with Micro-Fin having Varying Fin Height Along the Axis of Flow	9th International and 49th National Conference on Fluid Mechanics and Fluid Power (FMFP) December 14-16, 2022, Roorkee, Uttarakhand, India	2022
113	Rohit Kumar, Chandan Nashine, Arman Mohaddin Nadaf, Harish Kumar Tomar, Manmohan Pandey	Experimental Investigation of Two- Phase Immiscible Liquid Flow through a Microchannel	9th International and 49th National Conference on Fluid Mechanics and Fluid Power (FMFP) December 14-16, 2022, Roorkee, Uttarakhand, India	2022
114	Nadaf, Sandip Kumar Sarma, Manmohan Pandey	Mitigation of flow boiling instabilities using diverging channels	8th International Congress on Computational Mechanics and Simulation, 9-11 December 2022, Indore, India	2022
115	Nadaf Arman Mohaddin, Rohit Kumar, Sandip Kumar Sarma, Manmohan Pandey	Development and characterization of bi-porus metallic wick for loop heat pipes	North-East Research Conclave, 20- 22 May 2022, Guwahati, Assam, India	2022
116	Chandan Nashine, Manmohan Pandey	Fabrication of cost-effective bi-porus composite wick for loop heat pipes	North-East Research Conclave, 20- 22 May 2022, Guwahati, Assam, India	2022
117	Nadaf Arman Mohaddin, Sandip Kumar Sarma, Chandan Nashine, Rohit Kumar,	Development and characterization of ITO coated glass microchannels for high-speed flow visualization	North-East Research Conclave, 20- 22 May 2022, Guwahati, Assam, India	2022

	Manmohan Pandey			
118	Rohit Kumar, Chandan Nashine, Arman Mohaddin Nadaf, Manmohan Pandey	Fabrication of microchannels for heat transfer applications	North-East Research Conclave, 20- 22 May 2022, Guwahati, Assam, India	2022
119	A Kumar, S Bag, VC Srivastava, M R Amin	Thermo-mechanical behavior of multi-layer deposition for wire arc additive manufacturing of structural steel: wire arc additive manufacturing	Proceedings of the ASME 2022 International Mechanical Engineering Congress and Exposition	2022
120	P. Paul, K.S.R.K. Murthy, and D. Chakraborty	Mode-I notch stress intensity factors for sharp center V-notched configuration using strain gage technique: A numerical assessment	Proceedings of the International Conference on Advanced Materials and Computational Methods in Mechanical Engineering, ICAMCMME-2022	2022
121	S. S. Shukla and K.S.R.K. Murthy	Fracture studies in PMMA using single edge cracked circular specimen.	Proceedigs of International Conference on Innovations in Mechanical and Materials Engineering, IMME-2022	2022
122	S. S. Shukla, P. B. Kumar and K.S.R.K. Murthy	Effect of stress ratio on the mixed mode (I/II) fatigue crack growth in Al 7075-T6	Proceedings of 8th Asian Conference on Mechanics of Functional Materials and Structures, ACMFMS	2022
123	Vishal Yadav, K. Varshith, Sajan Kapil	A Volumetric Approach based Reverse Engineering Method of Reconstruction of the CAD Models	International Conference on Precision, Micro, Meso and Nano Engineering (COPEN), IIT Kanpur	2022
124	Ambrish Singh, Sajan Kapil, Manas Das	A Non-Pneumatic Method of Powder Feedstock Handling in Laser-based Directed Energy Deposition	International Conference on Precision, Micro, Meso and Nano Engineering (COPEN), IIT Kanpur	2022
125	Sajan Kapil, Prathamesh Joshi, Sadaival Singh and Ambrish Singh	Functionally Graded Materials TSP Solver–based Toolpath for Additive Manufacturing of Density–based	International Conference on Precision, Micro, Meso and Nano Engineering (COPEN), IIT Kanpur	2022
126		Investigation of fiber holding techniques for the fabrication of continuously reinforced Metal Matrix Composites using wire arc additive manufacturing	Bio-Remidi 2022	2022
127	Brijesh K. Singh, Sajan Kapil, and Shrikrishna Nandkishor Joshi	Numerical Modeling and Simulation of Micromachining of Biomedical Materials Using Nd: YAG Millisecond Pulse Laser	In Low Cost Manufacturing Technologies: Proceedings of NERC Singapore: Springer Nature Singapore	2022
128	Sajan Kapil, Ambrish Singh	A Novel Non-Pneumatic Method of Powder Feedstock Handling for Directed Energy Deposition-based Additive Manufacturing	International Conference on Powder Metallurgy and Particulate Materials (PM 23) + Exhibition & 48 Annual Technical Meeting of PMAI, The Lalit Mumbai, 13 to 15 March	2022
129	BJ Sahariah, P Khanikar	High Energy Absorbing Tubular Structures Made of Lattice with Zero Poisson's ratio	13th International Symposium on Plasticity and Impact Mechanics (IMPLAST)	2022
130	MJ Baishya, M Dalakoti, N Muthu, P Khanikar	A Crashworthy Lightweight Lattice Structure Having a Composite Strut- Plate Lattice Topology Optimized Using the Design of Experiments Technique	13th International Symposium on Plasticity and Impact Mechanics (IMPLAST)	2022

131	S Tamuly, S Dixit, Parameswaran V, P	High strain rate deformation behavior of suction-cast dual-phase	13th International Symposium on Plasticity and Impact Mechanics	2022
132	Khanikar A Namdeo, H Acharya, P Khanikar	high entropy alloy Annealing of tetrahedral and strut- reinforced tetrahedral microlattices for improved energy absorption capacity	(IMPLAST) COPEN, IIT Kanpur	2022
133	A Namdeo, Parameswaran V, P Khanikar	Dynamic behavior of additively manufactured high strength and high stiffness tetrahedral and strut- reinforced tetrahedral microlattices	4th Structural Integrity Conference and Exhibition, IIT Hyderabad	2022
134	Abhimanyu Singh, Poonam Kumari and Deepak Sharma	Axially Functionally Graded Beams – A Review	8th Asian Conference on Mechanics of Functional Materials and Structures (ACMFMS2022)	2022
135	Arup Deka, B. Sandeep Reddy	Emergency Braking Control in 3D Overhead Cranes using a switching PD-Fuzzy Controller	9 th International Conference on Control, Automation and Robotics (ICCAR 2023)	2023
136	Santosh Kumar, B. Sandeep Reddy	Design of a novel tree-type robot for pipeline repair	Robotics, Control, Automation and Artificial Intelligence (RCAAI-2022)	2022
137	Shivani Raj, B. Sandeep Reddy, Arup Deka	A Survey on Fault Tolerant Control of Unmanned Underwater Vehicles	NERC, IIT Guwahati, July 2022	2022
138	Arup Deka, B. Sandeep Reddy	Emergency Braking Controller for the Overhead Cranes	ME@75, Research Frontiers Conference, IISc Bengaluru, India	2022
139	Atul Singh Rajput, Sajan Kapil, and Manas Das	Surface Enhancement of Additively Manufactured biomedical implants through Hybrid-Electrochemical Magnetorheological (H-ECMR) finishing	COPEN, IIT Kanpur	2022
140	Atul Singh Rajput, Sajan Kapil, and Manas Das	Investigation on tribological behavior of additively manufactured bone plate polished through Magnetorheological Fluid Assisted Finishing process	IndiaTrib, IIT Delhi, India	2022
141	Abhinav Kumar and Manas Das	Investigation of process parameters of electropolishing of maraging steel with organic electrolytes	COPEN, IIT Kanpur	2022

INVITED LECTURES OF FACULTY: IN INDIA, ABROAD (1 APRIL 2022 – 31 MARCH 2023)

SI.No.	Name of Faculty	Name of Lecture	Name of Inst./Org.	Place	Date
1.	Ujjwal K. Saha	Drag-based Wind Turbines: An Overview	NIT Silchar	Silchar	November 25, 2022
2.	Ujjwal K. Saha	Craft of Thesis Writing	Tezpur University	Tezpur	December 26, 2022
3.	Shyamanta M Hazarika	Robotic Hardware	First Fellowship in Advanced Robotic and Innovative Surgery (FARIS); Second Fellowship Course in Robotic Surgery (FALS). IAGES.	Online Course	December 7, 2022
4.	Shyamanta M Hazarika	Influence of Affordance-driven Action Observation on Motor	XL Annual Meeting of Indian Academy of	NEHU, Shillong	December 9, 2022

		Imagery	Neurosciences		
5.	Pankaj Biswas	Some Advanced Research on Welding Technology	Golden Jubilee Celebration of Kolkata Branch of The Indian Institute of Welding by organizing "Weld 2023", the Annual Seminar	Indian Institute of Welding, Kolkata	March 11 & 12, 2023
6.	Pankaj Biswas	Hybrid and Robotic Welding Processes	Two Weeks FDP on "Advanced Remanufacturing Technology" Sponsored by AICTE Training and Learning (ATAL) Academy		12th – 23rd December 2022,
7.	Pankaj Biswas	Some Advanced Research on Welding Technology (11th Dec)	One Week High End Workshop (KARYASHALA) on 'Joining Techniques for Modern Transportation Sector',	BIT Mesra, Ranchi	5th to 11th Dec, 2022
8.	Pankaj Biswas	Principle and Safety of Underwater Welding	5-day workshop on "Underwater Welding	IIT Guwahati	October 10, 2022 to October 14, 2022
9.	Pankaj Biswas	Thermo-mechanical Transient Elasto-plastic Analysis of Underwater welding fusion welding process by Commercially Available FE Package	5-day workshop on "Underwater Welding	IIT Guwahati	October 10, 2022 to October 14, 2023
10.	Pankaj Biswas	Residual Stress and Hydrogen Embrittlement in CSEF and Dissimilar Welds	ON-LINE COURSE (Via ZOOM) on Distortion Control in Ship Building	ASRANet Ltd. Sutton, Surrey, UK	24th - 25th August 2022
11.	Pankaj Biswas	Weld Induced Residual Stress Prediction by Thermo- mechanical Transient Elasto- plastic Analysis by Commercially Available FE Package	ON-LINE COURSE (Via ZOOM) on Distortion Control in Ship Building	ASRANet Ltd. Sutton, Surrey, UK	24th - 25th August 2023
12.	Pankaj Biswas	Residual Stresses in Engineering Components: Types, Causes, Effects and Estimation,	ON-LINE COURSE (Via ZOOM) on Distortion Control in Ship Building	ASRANet Ltd. Sutton, Surrey, UK	24th - 25th August 2024
13.	Pankaj Biswas	Advancement and Current Trends of Friction Stir Welding	Short Term Course (e- STC) on "Advances in Manufacturing Engineering and Materials	Department of Mechanical Engineering, IIT Indore.	4th - 9th April 2022
14.	R K Mittal	Dynamics of High speed micromachining Process	Machining instabilities and Preventive approaches for modern production industries	NIT Rourekla	30th September 2022
15.	R K Mittal	Micro manufacturing and its role in promoting sustainability	1st GILP JD International Symposium, Gifu University	Gifu University, Japan	9th March 2023
16.	Niranjan Sahoo	Mechanical Characterization of	8th Asian Conference on	IIT Guwahati	11-14

		Innovative Energy Absorbing Materials under Impact Loading	Mechanics of Functional Materials and Structures, Department of Mechanical		December 2022
			Engineering, IIT Guwahati AICTE-QIP Short-Term		
17.	U.S. Dixit	Advanced Manufacturing: Research Opportunities	Course on Advances in Manufacturing Engineering and Materials	IIT Indore	April 4-9, 2022
18.	U.S. Dixit	Evolution of Mechanical and Industrial Engineering	A group of Ph.D. students at IIT Delhi	IIT Delhi	April 13, 2022
19.	U.S. Dixit	Sustainability aspects of additive manufacturing	Karyashala entitled "High end workshop on 3D Printing, Nano- Tribology and Characterization of Materials"	NIT Srinagar	August 31, 2022
20.	U.S. Dixit	Modeling and optimization of laser based forming processes	International Conference on "Laser Assisted Material Processing (LAMP- 2022)"	IIT Kharagpur	August 29-31, 2022
21.	U.S. Dixit	Sustainability aspects of additive manufacturing	faculty development program on "Advances in Material Processing and Additive Manufacturing" sponsored by E&ICT Academy	PDPM IIIDM Jabalpur	September 2, 2022
22.	U.S. Dixit	Design for Remanufacturing	International Workshop on 'Remanufacturing Capability Building' at National Institute of Advanced Manufacturing Technology	Ranchi	September 17, 2022
23.	U.S. Dixit	FEM application in welding	5-day course on "Underwater Welding" organized in IITG TIDF	Guwahati	October 12, 2022
24.	U.S. Dixit	A talk on Evaluation and Assessment in a FDP on "Blended Learning" organized by E&ICT Academy	E&ICT Academy	Indian Institute of Technology Guwahati	November 9, 2022
25.	U.S. Dixit	A talk on activities of Technology Innovation Hub	Technology Innovation Hub	Indian Institute of Technology Guwahati	December 8-10, 2022
26.	U.S. Dixit	Intelligent machining using sensors and data transfer system	AICTE Training and Learning (ATAL) Academy in hybrid mode	NIAMT, Ranchi	12th – 23rd December 2022
27.	U.S. Dixit	Using Mechanical Engineering for Societal Benefit	FDP on "Technology Transfer from Lab to Society"	Mizoram University	January 21, 2023

			one-week High End workshop titled		
28.	U.S. Dixit	Lasers in Surface Engineering	Emerging trends in Material Science & Engineering for its Applications in Manufacturing Sector under Abhyaas (Karyashala) component of Accelerate Vigyan (AV) Scheme	SERB-DST	24th Jan 2023 to 30th Jan 2023
29.	U.S. Dixit	Modelling of Phase Transformation: Two Case Studies	one-week High End workshop titled Emerging trends in Material Science & Engineering for its Applications in Manufacturing Sector under Abhyaas (Karyashala) component of Accelerate Vigyan (AV) Scheme	SERB-DST	24th Jan 2023 to 30th Jan 2024
30.	U.S. Dixit	A talk in the book discussion of the book entitled "Strength of Materials"	AICTE	AICTE	February 6, 2023
31.	U.S. Dixit	Lecture on Ramcharit Manas at Param Seva Sangh Ashram	North Guwahati	North Guwahati	February 13, 2023
32.	U.S. Dixit	Impact of 3D Printing in Education	1st International Conference on "Fourth Industrial Revolution and Higher Education 2023"	Dibrugarh University Institute of Engineering and Technology	24th February 2023
33.	U.S. Dixit	Lecture on National Science Day	Think India	NIT Nagaland	February 28, 2023
34.	U.S. Dixit	Lecture on National Science Day	Think India	NIT Arunachal Pradesh	February 28, 2023
35.	U.S. Dixit	Al in manufacturing in the era of Industry 4.0	4th Research Conclave	NIT Meghalaya	March 1, 2023
36.	U.S. Dixit	Modelling and Simulation of Manufacturing Processes	2nd International Conference on Mechanical Engineering and Emerging Technologies	Bapatla Engineering College	March 3-4, 2023
37.	U.S. Dixit	Orienting Manufacturing Education in the Era of Industry 4.0	7th International Conference on Production & Industrial Engineering (CPIE2023)	NIT Jalandhar	March 10-12, 2023
38.	U.S. Dixit	A holistic and multidisciplinary way of research as per Indian Philosophy	Outreach program entitled "Multidisciplinary Research for Sustainable Society" organized by Center for Multidisciplinary Research	Tezpur University	March 14, 2023

39.	U.S. Dixit	A lecture on Indian Knowledge Systems	Royal Global University	Royal Global University	March 22, 2023
40.	U.S. Dixit	Delivered a talk on Bhagat Singh in "Shaheed Diwas" function	Shaheed Diwas	National Law University and Judicial Academy (NLUJA)	March 23, 2023
41.	Amaresh Dalal	Migration of Hydrogel Drug Carriers Through Narrow Passages	International Conference in Fluid, Thermal and Energy Systems – 2022 (ICFTE'22)	NIT Calicut	June 09, 2022
42.	Amaresh Dalal	Analysis of Heat Transfer in Fin-Tube Heat Exchangers Using Winglet-Type Vortex Generators	ATAL-sponsored Two Week Faculty Development Program on "Thermal Characterization and Advanced Measurement Techniques"	NIT Srinagar	March 15, 2023
43.	Amaresh Dalal	"Development of Novel Continuous Microbial Fuel Cells with Improved Performance			
44.	"	"Taiwan-India 2022 Exchange Workshop and Symposium on Intensifying the Connection of			
45.	Sustainable Technology"	IIT Guwahati	September 5, 2022		
46.	Sachin Singh Gautam	Machine Learning in Computational Solid Mechanics – Review, Results, and Future	ACMFMS 2022	IIT Guwahati	December 13, 2022
47.	Pranab Kumar Mondal	Magnetic-Field Mediated On- Demand Droplet Splitting in Lab-on-a-Chip Devices	Recent Trends in Engineering and Technology 2022	GIET University, Gunupur, Odisha	April 11, 2022
48.	Pranab Kumar Mondal	On-chip fluidic functionalities: towards the development of microfluidic/bio-microfluidic systems	Technical University Darmstadt	Germany	June 7, 2022
49.	Pranab Kumar Mondal	Fluid Mechanics at Small Scale – A Numerical Perspective	Cooch Behar Panchanan Barma University	West Bengal	August 16-17, 2022
50.	Pranab Kumar Mondal	Microfluidics in Biotechnology: Perspectives and Applications	Recent trends in CAR-T cells Research and Manufacturing	BIT Pilani, Goa	September 22- 23, 2022
51.	Satyajit Panda	Rubber Composites for Structural Vibration Problems	Rajkiya Engineering College	Azamgarh, UP	02 January 2023
52.	Satyajit Panda	"On the piezoelectrically smart damping for attenuation of critical dynamics of beam-like slender structures	5		
53.	"	ACMFMS 2022	IIT Guwahati	December 12, 2022	
54.	Satyajit Panda	Rubber Composites for Structural Vibration Attenuation	National Physical & Oceanography Laboratory (NPOL),	Kochi, India	June 17, 2022

			DRDO		
55.		Modelling & Simulation of welding and additive manufacturing			
56.	Manmohan Pandey	Liquid-Vapor Phase-Change Phenomena in Miniature Devices	9th International and 49th National Conference on Fluid Mechanics and Fluid Power (FMFP) December 14-16, 2022, Roorkee, Uttarakhand, India	IIT Roorkee	15-Dec-22
57.	Swarup Bag	A hybrid machine learning – finite element model for the prediction of residual stress in directed energy deposition process	National Welding Seminar 2022 (NWS 2022)	IIW Chennai	21 January 2023
58.	Swarup Bag	Simulation of surface and volumetric defects in friction stir welding process	High End workshop on Emerging Trends in Material Science & Engineering for its Applications in Manufacturing Sector	Nit Silchar	27 January 2023
59.	Swarup Bag	Assessment of material deposition through induction heating	High End workshop on Emerging Trends in Material Science & Engineering for its Applications in Manufacturing Sector	Nit Silchar	28 January 2023
60.	Swarup Bag	A perspective on laser welding of metallic materials: Modelling and experiments	DAE-BRNS NATIONAL LASER SYMPOSIUM – 31	llt Kharagpur	4 December 2022
61.	Swarup Bag	An overview of underwater welding: Materials, processing and challenges	Workshop on Underwater Welding, Organized by Department of Mechanical Engineering	IIT Guwahati	12 October 2022
62.	Swarup Bag	Modelling and simulation of friction stir welding: A potential joining technique for underwater welding	Workshop on Underwater Welding, Organized by Department of Mechanical Engineering	IIT Guwahati	12 October 2022
63.	Swarup Bag	Modelling & Simulation of welding and additive manufacturing	SERB-sponsored high- end workshop on Advances in Welding and Additive Manufacturing	SVNIT Surat	20 July 2022
64.	Swarup Bag	An introduction to Laser additive manufacturing processes	AICTE-ISTE sponsored Refreshers Course on "Rapid Manufacturing: The Future Sustainable Manufacturing Technology"	Asansol Engineering College, Asansol, West Bengal	22 Janury 2022
65.	Swarup Bag	Visualization of material defects in FSW through finite element simulation	National Welding Seminar 2022 (NWS 2022)	IIW Kolkata	22 April 2022

			1st GILP JD International	Gifu	
66.	Sajan Kapil	Metal Additive Manufacturing	Symposium, Gifu	University,	9th March 2023
			University	Japan	
67.	Sajan Kapil	Functionally Graded Materials TSP Solver–based Toolpath for Additive Manufacturing of Density–based	COPEN 12	IIT Kanpur	10th December 2023
68.	Sajan Kapil	A Novel Non-Pneumatic Method of Powder Feedstock Handling for Directed Energy Deposition-based Additive Manufacturing	International Conference on Powder Metallurgy and Particulate Materials (PM 23) + Exhibition & 48 Annual Technical Meeting of PMAI,	The Lalit Mumbai	15th March 2023
69.	Sajan Kapil	Multi-Axis Multi-Material Wire Arc Additive Manufacturing (MAMM - WAAM)	IGSCT Outreach Program	IIT Guwahati	30th Jan 2023
70.	Sajan Kapil	ASTM Classification on Additive Manufacturing Technologies and Tool Path Planning for Additive Manufacturing	A 3-days workshop on AM Modeling and Simulation Techniques	VIT, Vellore	24th Nov 2022
71.	Sajan Kapil	A System-Level Classification of Additive Manufacturing	4 days' workshop on Advances in Additive Manufacturing (3D Printing)	IIT Jodhpur	6th Dec 2022
72.	Sajan Kapil	Introduction to Advancement in 3D Printing and Bio-printing	International Conference on Biomaterials, Regenerative Medicine and Devices	IIT Guwahati	14th Dec 2022
73.	Sajan Kapil	Introduction, Basic Concepts and Case Studies of DFAM	Programme on Design for Additive Manufacturing	CLD-HRDI, WRI & CTM-AMPT	11th Jan 2023
74.	Sajan Kapil	5-axis and Robotic Toolpath Planning for WAAM	Programme on Design for Additive Manufacturing	CLD-HRDI, WRI & CTM-AMPT	12th Jan 2023

VISITORS FROM OTHER INSTITUTES/UNIVERSITIES/ORGANISATIONS/INVITED LECTURES (1 APRIL 2022 – 31 MARCH 2023)

SI.	Name	Name of Inst./Univ./Org.	Purpose/ Name of Lecture	Date	Remarks
No.					
01	Prof./ Dr. (Name)	ххх	ххх	D/M/Y	XXX
	(Surname)				
1	Prof. Partha P Mukherjee	Purdue University, USA	Interfaces and Crosstalk in Solid-State Batteries	27/07/2022	Honorary Faculty at IITG
2	Prof.(Dr.) Achyut Ch. Baishya,	Guwahati Medical College Guwahati	Discussion related to Biodesign Center	20/03/2023	Principal Cum Chief Superintendent, GMC Guwahati and PI from GMC in Biodesign project
3	Mr. Ashish Bhatt	Aeronautical Development Agency, Bangalore	"Aircraft stealth technology and infrared		

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SEMINARS/WORKSHOPS/CONFERENCES/SHORT-TERM COURSES ORGANISED (1 APRIL 2022 – 31 MARCH 2023)

SI. No.	Name of Faculty (Convener/ Co- ordinator, etc.)	Name of Sem./Wor./Con.	Funded By	Date	International/ National	No. of participants
01	S.K. Dwivedy and Poonam Kumari	ACMFMS2022	SERB+CSIR+B RNS+DRDO+T IH+EDS+Adm eca	11-14 December, 2022	International	
02	Niranjan Sahoo and Pankaj Kalita	Sustainable Energy Utilization Technology for Green Hydrogen and Renewable Energy	Technology Innovation Hub (IITG- TI&DF), IIT Guwahati	20-21 October 2022		
03	Niranjan Sahoo and Pankaj Kalita	Industry – Academia Stakeholder meet on "Metrology for Deployment of Green Hydrogen and Renewable Fuels in India" in collaboration with delegates from PTB (Physikalish- Techniche Bundesanstalt), Germany	Technology Innovation Hub (IITG- TI&DF), IIT Guwahati	21 October 2022		
04	Uday Shanker Dixit	Workshop on Underwater Welding	Technology Innovation Hub (IITG- TI&DF), IIT Guwahati	October 10 -14, 2022	National	
05	Uday Shanker Dixit (Technical Chairman)	North-East Research Conclave 2022		May 20-22, 2022		
06	Uday Shanker Dixit	National Symposium on Poorvottar Bharat in the Bharatiya Swadhinata Sangram	Special Center for the Study of North India, Jawaharlal Nehru University (JNU), New Delhi in collaboration with Indian Knowledge Systems, IIT Guwahati	September 20-21, 2022		
07	Sajan Kapil and R Ganesh Narayanan	Computer-Aided Process Planning for 3D Printing & CNC Machining	NewGen IEDC	25-27 May 2022	National	20
08	Sajan Kapil	CAD through Solidworks	TIH IITG	2-3 September 2022	National	10
09	Sajan Kapil	Indo German Science and Technology Outreach Program	IGSTC - Delhi	30th Jan 2023	International	>100

10	Sajan Kapil, Biranchi Panda and R Ganesh Narayanan	Demonstration and hands- on-training on 3D Printing	NewGen IEDC	16-17 March 2023	National	15
11	S.Kanagaraj and Biman B Mandal	International Conference on Biomaterials, Regenerative Medicine and Devices (BIO- Remedi 2022).	Industries and SERB	Dec 15, 2022 -Dec 18, 2022	International	

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A brief report on the major NATIONAL and INTERNATIONAL events with photographs may also be given separately in addition to the format given above

PATENTS (1 APRIL 2022- 31 MARCH 2023)

No. of Patents Applied: 10.

No. of Patents Granted

SI. No.	Name of Faculty and co researcher Name		Date Applied/Granted	Application No.	Remarks
1.	Anand Mohan Pandey, Sajan kapil, Manas das	A portable device for simultaneous coating and texturing of surfaces by an electrochemical deposition- based process,	4th August 2022	202331002410	Filed
2.	Atul Singh Rajput, Sajan Kapil, and Manas Das	A Method for Performing Magnetorheological Fluid- Assisted Finishing (MFAF) on a Product having a Hole Feature	7th June 2022	202231032416	Filed
3.	Atul Singh Rajput, Sajan Kapil, and Manas Das	An Apparatus for Enhancing Surface Quality of Invisible Aligners Fabricated by Additive Manufacturing	4th August 2022	202231044563	Filed
4.	Atul Singh Rajput, Sajan Kapil, and Manas Das	Method and apparatus for chemical etching of the additively manufactured head manufactured from Ti- 6AI-4V	11th Nov 2022	202231064595	Filed
5.	Sudip shyam, Dhruvkumar Wankawala, and Pranab Kumar Mondal	A passive droplet formation and splitting microfluidic device for symmetric or asymmetric droplet generation and a process thereof	08th April 2022	202231008005	Filed
6.	Dhruvkumar Wankawala, Sudip shyam, and Pranab Kumar Mondal	A microfluidic system for droplet manipulation including simultaneous operation of magnetic and non-magnetic droplet formation, alternation, and sorting and method thereof	26th Sepetember, 2022	202231055118	Filed
7.	D Das, S Bag, and S Pal:	Multi-utility FSW tool shank with interchangeable tool	1 September 2022	202231049902	Filed

		probe			
8. D Das, and S Bag		An economical and portable μ-FSW setup	26 Augusr 2022	202231048830	Filed
9.	D Das, S Bag, and S Pal	FSW tool with modified tool shoulder	23 February 2023	202331012303	Filed
10.	Ranajit Mahanti, and Manas Das	Systems and methods for application of vibrations to a microtool electrode in micro-electrical discharge machining	26 March 2023	202331021594	Filed

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AWARDS AND HONOURS (1 APRIL 2022 – 31 MARCH 2023)

SI. No.	Name of Faculty	Name of Award	Name of Institute/ Organization/ Foundation bestowing the award	Reason for award	Form of Award (Citation/ Medal/ Cash etc)
1.	Shyamanta M Hazarika	Abdul Kalam Technology Innovation National Fellowship	INAE-SERB, DST.	Outstanding contributions in the field of Rehabilitation Robotics - Robotic Neurorehabilitation, Artificial Intelligence; as well as contribution in the growth of engineering profession in the country.	The Fellowship amount is Rs 25,000/- per month. Research Grant of Rs.15.00 lakh per annum.The Fellowship is for five years.
2.	Amaresh Dalal	Associate Editor in Sadhana (Springer publication)			From 1st January 2023
3.	Pranab Kumar Mondal	JSPS fellowship for Long term research work	Okinawa Institute of Science and Technology Graduate University, Japan		
4.	S Kanagaraj	Trasfer of Technology	IIT Guwahati and Ratnannidhi Charitable Truest, Mumbai	Non-exclusive rights of the knee joint technology have been transferred to Ratnanidhi Charitable Trust, Mumbai	
5.	Pranab Kumar Mondal	Guest Editor in Microsystem Technologies	Springer		

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STUDENTS' ACHIEVEMENTS (1 APRIL 2022- 31 MARCH 2023)

SI. No.	Name of Student	Name of Award	Name of Institute/ Organization/ Foundation bestowing the award	Reason for award	Form of Award (Citation/ Medal/ Cash etc)
1.	Jyotirmoy Kakati/Ujjwal K. Saha/Sukhomay Pal	Travel Grant to attend International Conference	DST-SERB	ASME 2022 Power Conference, July 18-19, Pittsburgh, USA.	Travel Grant (in INR 2.16 Lakh)
2.	Sima Nayak / Niranjan Sahoo	PMRF	IIT Madras	Experimental and soft- computing approach for the prediction of impulsive forces and thermal loads for aerodynamic applications	Research Grant
3.	Aditya Sharma / Niranjan Sahoo	PMRF	IIT Madras	Blast and Impact Assessment of Shear Thickening Fluids and Underwater Sloshing Behavior through Shock Tube Experiments	Research Grant
4.	Amit Kumar & Divakar Bommana / Niranjan Sahoo & S. K. Dwivedy	New Generation Innovation and Entrepreneurship Development	New Gen IEDC - IIT Guwahati	Innovative hybrid composite metallic foam as energy absorbing materials – Design, Fabrication and Characterization	Research Grant
5.	Sumit Kumar Das/Sachin Singh Gautam	Best Paper Award	ACMSFMS 2022, IIT Madras	Performance study of VO- based NURBS discrerization in isogeometric analysis of contact problems	Citation, Cash (150 Euro)
6.	Dhruvkumar Wankawala and Pranab Kumar Mondal	Best Paper Award	FMFP 2022, IIT Roorkee	Experimental investigation of non- Newtonian droplet splitting in a microfluidic T-junction	Citation
7.	Vaibhav Jiaswal, Kishore kumar Padi, Subramani Kanagaraj	Trasfer of Technology	IIT Guwahati and Ratnannidhi Charitable Truest, Mumbai	Non-exclusive rights of the knee joint technology have been transferred to Ratnanidhi Charitable Trust, Mumbai	Transfer of Technology
8.	Lipika Boruah	ACS Biomaterial Sciences and Engineerning Best Poster Presentation Award	BIO-Remedi 2022, IIT Guwahati	Review of orthotic devices for neuropathic foot	Rs. 5000 only and certificate
9.	Sumit Kumar Mehta, Dhananjay Kumar, Pranab Kumar Mondal, and Somchai Wongwises	Best Paper Award	5th International conference on Energy systems, drives and automation (ESDA 2022)	Effect of Thermal Dispersion on Thermo- Hydraulic Characteristics for Flow through Wavy Solar Power Plant with Metallic Porous Blocks	Citation
10.	Sumit Kumar Mehta, Pranab Kumar Mondal, and	Best Paper Award	12th TSME- International Conference on	Free convective heat transfer characteristic of hybrid nanofluid inside	Citation

	Somchai Wongwises		Mechanical	the solar plant with	
			Engineering 2022	porous block	
11.	Toni Kumari, Chandan Nashine, Nadaf Arman Mohaddin, Sandip Kumar Sarma / Manmohan Pandey	New Generation Innovation and Entrepreneurship Development	DST	Design and development of miniature loop heat pipe for passive cooling in space and terrestrial applications	Research Grant
12.	Swagat Dwibedi and Swarup Bag	Corps of Electrical and Mechanical Engineers' Prize	The Institution of Engineers (India)	Development of micro- plasma arc welding system for different thickness dissimilar austenitic stainless steels	Citation and medal
13.	Atul Singh Rajput / Sajan Kapil, Manas Das	Young Tribologist Award	11th International Conference on Industrial Tribology (ICIT)) organized by IIT Delhi	He has received the prestigious "Young Tribologist Award" based on research work presented during IndiaTrib-2022	500 USD and certificate
14.	Ambrish Singh / Sajan Kapil, Manas Das	Best Poster Presentation Award	COPEN 12, IIT Kanpur	A Non-Pneumatic Method of Powder Feedstock Handling in Laser-based Directed Energy Deposition	
15.	Anand Mohan Pandey / Sajan Kapil, Manas Das	Best Poster Presentation Award	COPEN 12, IIT Kanpur	Metal Based μ-Additive Manufacturing by Localized Electrochemical deposition	
16.	Atul Singh Rajput / Sajan Kapil, Manas Das	Runner up award for oral presentation	11th International Conference on Industrial Tribology (ICIT)) organized by IIT Delhi	Investigation on tribological behavior of additively manufactured bone plate polished through Magnetorheological Fluid Assisted Finishing process	
17.	Atul Singh Rajput, Ambrish Singh, Sajan Kapil, Manas Das	New Generation Innovation and Entrepreneurship Development	DST	Surface Enhancement of aaditively manufactured Invisaligners	Research Grant

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FACULTY MEMBERS

SI. No.	Name	Name of the University/Institute/Org PhD degree received from	Designation	Areas of Interest
1.	Bag, Swarup	IIT Bombay	Associate Professor	Fusion welding processes, Finite element method, Laser micro joining, Heat transfer and fluid flow in fusion welding, Residual stress and distortion, Recrystallization in hot metal forming process, Optimization in manufacturing process
2.	Bandopadhya, Dibakar	IIT Kanpur	Associate Professor	Active materials, Artificial muscle materials, Smart structures, Robotics and mechanism, Composites, MEMS, Bio inspired design

3. Bancryc, Yanu 11 Kanpur Associate Professor Companit Mechanism, sobge methody andy, Bio-memoric devices 4. Basiredy, Sandeep Reidy IISC Bangalore Assistant Assistant Nonlinear Dynamics of Mechanical Systems, Robics and Control, Applied Dynamics 5. Basir, Dipantar IIT Kharagpur Associate Professor Nuclear Thermalhyfraulics, Supercritical Professor 6. Biswas, Pankaj IIT Kharagpur Associate Professor Mainfacturing and Design: Computational Veld Dynamics and Hear Transfer, Combabaria 7. Dehabaraia IIT Kharagpur Professor REP, Composites, FEM, Fracture Mechanics and Design 8. Dalal, Amaresh IIT Kanpur Associate Professor Computational Fluid Dynamics, Heat Transfer, Computational Fluid Dynamics, Better Transfer, Computational Fluid Dynamics, Better Transfer, Computational Fluid Dynamics, Better Transfer, Computational Fluid Dynamics and Das, Manas 9. Das, Manas IIT Kanpur Associate Professor Professor 9. Das, Anoop K. IIS Bangalore Professor Professor 10. Das, Anoop K. IIT Kanpur Associate Professor Non-linear Dynamics, Design and Matchering : FM, Hearal Micronachines 11. </th <th></th> <th>Demonitor Adams</th> <th></th> <th>A</th> <th>Constraint Markenian Change and Iller</th>		Demonitor Adams		A	Constraint Markenian Change and Iller
4. Sandeep Roddy Professor Robotics and Control. Applied Dynamics. Basu, Dipankar IIT Kharagpur Associate Netwelar Themaloyleratiles, Supercritical S. Diswas, Pankaj IIT Kharagpur Associate Netwelar Themaloy 6. IIT Kharagpur Associate Professor Associate Polesabrata IIT Kharagpur Professor FRF Composites, FEM, Line Debabrata IIT Kangur Professor FRF Composites, FEM, Line Dalal, Amaresh IIT Kangur Professor Computational Fluid Dynamics and Design: Computational weld mechanics and Design: Computational weld mechanics in Curvillicar Coordinates, Finite Volume Methods and Unstructured Grid Techniques, Natural and Mixed Convection Flows, Electrchemical Electrchemical Freque Welhods and Unstructure Grid Techniques, Natural and Mixed Convection Flows, Electrchemical Freque Conversion and Storage 9. Das, Manas IIT Kanpur Associate Professor Computational Machining for Advanced Engineering Materials, Kironandicuring, Laser Welding Coordinates, Finite Volume Methods in Fluid Flow and Heat Transfer, Convection, Turbiday, Laser Welding 10. Das, Manas IIT Kanpur Associate Professor Computational Machining Frod Advanced Engineering Materials, Kironandineturing : FEM, Ki	3.	Banerjee, Atanu	IIT Kanpur	Associate Professor	Complaint Mechanism, Shape memory alloy, Bio-memetic devices
Basu, Dipankar Narayan IIT Kharagpur Associate Professor Nuclear Thermathydraufics, Supercritical Nuclear Computational Eval Ar- conditioning, Computational Fuid Dynamics and Hear Transfer 5. Biswas, Pankaj IIT Kharagpur Associate Professor Maufacturing and Design: Computational Fuid Dynamics and Hear Transfer 6. Chakraborty, Debabratu IIT Kharagpur Professor FRF, Composites, FEM, Fracture Mechanics and Design 8. IIT Kanpur Associate Professor Free Reating Computational Fluid Dynamics, Heat Transfer, Structured Grid Techniques, Natural and Mixed Convection Flows, Electrochemical Energy Conversion and Storage 9. Das, Manas IIT Kanpur Associate Professor Professor Computational Fluid Dynamics, Heat Transfer, Structured Grid Techniques, Natural and Mixed Convection Flows, Electrochemical Energy Conversion and Storage 9. Das, Manas IIT Kanpur Associate Professor Numerical Methods in Fluid Plow and Heat Transfer, Convection, Turbulence 10. Dass, Anoop K. Bargalore Bargalore Professor Computational Fluid Dynamics and Turborachines 11. De, Arnab Kumar IIT Kanpur Professor Numerical Methods in Fluid Flow and Heat Transfer, Convection, Turbulence 13. Bartokhak	4.		IISc Bangalore		
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13.Dwivedy, Santosha K.IIT KharagpurProfessor & HODNon-linear Dynamics, Design and Robotics, vibrations13.Gautam, Sachin S.IIT KanpurAssistant ProfessorDesign and Manufacturing : Nonlinear Finite Element Analysis, Computational Contact Impact Analysis, Adhesion, Rough Surfaces, Time Integration Schemes, Plasticity, Ductile Fracture, Continuum Damage Mechanics14.Hazarika, Shyamanta M.University of Leeds, EnglandProfessorRobotics, Cognitive Systems, Knowledge Representation and Reasoning15.Hazarika, Shyamanta M.University of Leeds, EnglandProfessorMicro fabrication: Laser micro forming, Micro machining: Micro electric discharge machining (EDM), Web based manufacturing, Process modeling and optimization of advanced manufacturing processes, Application of soft computing techniques in manufacturing16.Kakoty, Sashindra K.IIT KharagpurProfessor & Dean, Infrastructure, Planning and ManagementTribology, Duct Acoustics, Mechanical System Design, Rural Technology18.Kalita, KarunaUniversity of NottinghamAssociate ProfessorRotordynamics, Coupled Dynamics of Electro- Mechanical Systems, Vibration19.Kanil, SaianIIT BombayAssistant AssistantRotordynamics, Carbon nanotubes based nanocomposites, Nanofluids, Materials characterization	12.				
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Infrastructure, PlanningProfessorMicro fabrication: Laser micro forming, Micro machining: Micro fabrication: Laser micro forming, Micro modeling and optimization of advanced manufacturing processes, Application of soft computing techniques in manufacturing Design, Rural Technology17.Kalita, KarunaUniversity of NottinghamAssociate ProfessorRotordynamics, Coupled Dynamics of Electro- Mechanical Systems, Vibration18.Kanagaraj, S.IIT KharagpurProfessorBiomaterials, Carbon nanotubes based nanocomposites, Nanofluids, Mater	15.	-		110105501	
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Kapil, Saian IIT Bombay Assistant Rapid Manufacturing (3D Printing).	19.				
20.		Kapil, Sajan	IIT Bombay	Assistant	
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			Professor	Welding/Cladding Processes, CNC,
				Manufacturing Automation
	Khanikar, Prasenjit	North Carolina State University	Assistant Professor	Microstructural Materials Modeling, Micro- mechanics, Dislocation Density Based Crystal Plasticity, Deformation and Failure Mechanisms of Materials, Einite Element Method
21.				of Metallic Materials, Finite Element Method, Dynamic Behavior of Materials, Fracture Mechanics, Aluminum Alloys, Microstructural Characterization
22.	Kulkarni, Vinayak	IISc Bangalore	Associate Professor	High enthalpy flows, scramjet engine, experimental, aerodynamics, measurement science, CFD simulations
23.	Kumar, Bhaskar	IIT Kanpur	Assistant Professor	Hydrodynamic Stability, Bluff Body Flows, Computational Fluid Dynamics
24.	Kumari, Poonam	IIT Delhi	Associate Professor	Theory of plates and shells, Computational mechanics, Smart structures
25.	Madhusudhana, Gavara	IISc Bangalore	Assistant Professor	Computational Fluid Dynamics, Heat Transfer, Cooling of Electronics, Multi-phase flows, Cooling at Micro/Mini scales, Turbulent Fluid Flow and Heat transfer
26.	Mahanta, Pinakeswar	IIT Guwahati	Professor	Thermal Radiation with Participating Media, Fluidization, Energy Conservation and Renewable Energy
27.	Mandal, Shubhadeep	IIT Kharagpur	Assistant Professor	Microswimmers, Complex Fluids, Droplet Microfluidics, Electrohydrodynamics
28.	Mankodi, Tapan Krishnakumar	IIT Bombay	Assistant Professor	Rarefied Gas Dynamics, Computational Gas Dynamics, Hypersonic Aerothermodynamics, Non-equilibrium Flows, Galerkin Methods
29.	Mittal Rinku Kumar	IIT Bombay	Assistant Professor	Machining Dynamics: Chatter Free Machining
30.	Satish Kumar Panda	National University of Singapore (NUS), Singapore	Assistant Professor	Artificial Intelligence in Healthcare, Medical Image Processing, Diagnosis, Ophthalmology, Biomechanics, and Finite Element Analysis
31.	Mondal, Pranab Kumar	IIT Kharagpur	Assistant Professor	Microfluidics, Electrokinetics, Two Phase Transport, Microscale Transport of Heat, Flow Through Porous Media.
32.	Murthy, K. S. R. Krishna	IIT Kharagpur	Professor	Finite Element Methods, Error Estimation and Fracture Mechanics
33.	Muthu, Nelson	IIT Bombay and Monash University	Assistant Professor	Meshfree Methods, FEM, Fracture Mechanics, Composites, Structural Health Monitoring, Medical Device Innovation
34.	Muthukumar, P.	IIT Madras	Professor	Coupled heat and mass transfer analysis; Metal hydride based thermal machines, Conventional and Non-conventional refrigeration systems
35.	Nandy, Arup	IISc Bangalore	Assistant Professor	Finite Element Development and Analysis in Structure, Acoustics, Electromagnetics, Structural acoustic interaction, Magnetohydrodynamics, MEMS; Optimization
36.	Narayanan, Ganesh R.	IIT Bombay	Associate Professor	Material Forming and Joining
37.	Pal, Sukhomay	IIT Kharagpur	Associate Professor	Welding Process Monitoring and Control, Tool Condition Monitoring, Non-Conventional Machining Process Application of Artificial Neural Network, Genetic Algorithms and Fuzzy logic in manufacturing
38.	Panda, Biranchi	NTU Singapore	Assistant Professor	Advanced manufacturing and design, 3D/4D printing, Modelling and Characterization, Energy and sustainable environmental

				technologies
	Panda, Satyajit	IIT Kharagpur	Associate	Composite materials, Nonlinear vibrations,
			Professor	Smart materials and structures, FEM,
39.				Functionally Graded materials and structures,
				Micromechanics.
40	Pandey,	IIT Kanpur	Professor	Dynamics and Control of Fluid-Thermal
40.	Manmohan			Systems, Nuclear Reactor Thermal-Hydraulics
	Robi, P. S.	IIT Bombay	Professor	Coating, Fracture Mechanics, Materials
41.				Processing, Metal Matrix composite, Metal
				Casting, P/M Processing
42.	Saha, Ujjwal K.	IIT Bombay	Professor	Propulsion, Turbomachinery, Wind Energy
72.	0.1 1 1			Conversion, Internal Combustion Engines
	Sahasrabudhe, Anil D.	IISc Bangalore	Professor (On	Vibration and Noise, Condition Monitoring, CAD/CAM
	Ann D.		deputation as Chairman of the	CAD/CAM
			All India	
43.			Council for	
			Technical	
			Education)	
	Sahoo, Niranjan	IISc	Professor	Fluid and Thermal Engineering, Aerodynamics,
44.		Bangalore		Gas Dynamics, Instrumentation, Measurements
				and Experiments in Fluid
45.	Senthilvelan, S.	IIT Madras	Professor	Composites, Fatigue, Wear and Failure Analysis
	Soti, Atul	Monash University and	Assistant	Computational Fluid Dynamics and Heat
		IIT Bombay	Professor	Transfer, Fluid-Structure Interaction,
46.				Renewable energy, High Performance
_				Computing, Immersed-Boundary Method,
				Spectral-element Method
	Sharma, Deepak	IIT Kanpur	Associate	Optimal Design: Modeling and Computation,
47.			Professor	Engineering Design and Optimization, Genetic
				Algorithms, Multi-objective Optimization
	Tiwari, Rajiv	IIT Kanpur	Professor	Rotor Dynamics, Vibrations, Identification in
				Mechanical Systems, Rolling Element Bearing
48.				Design and Analysis, Application of Active
				Magnetic Bearings in Rotors, Vibrations based
				Condition Monitoring of Industrial Rotating Machines
				Wachines