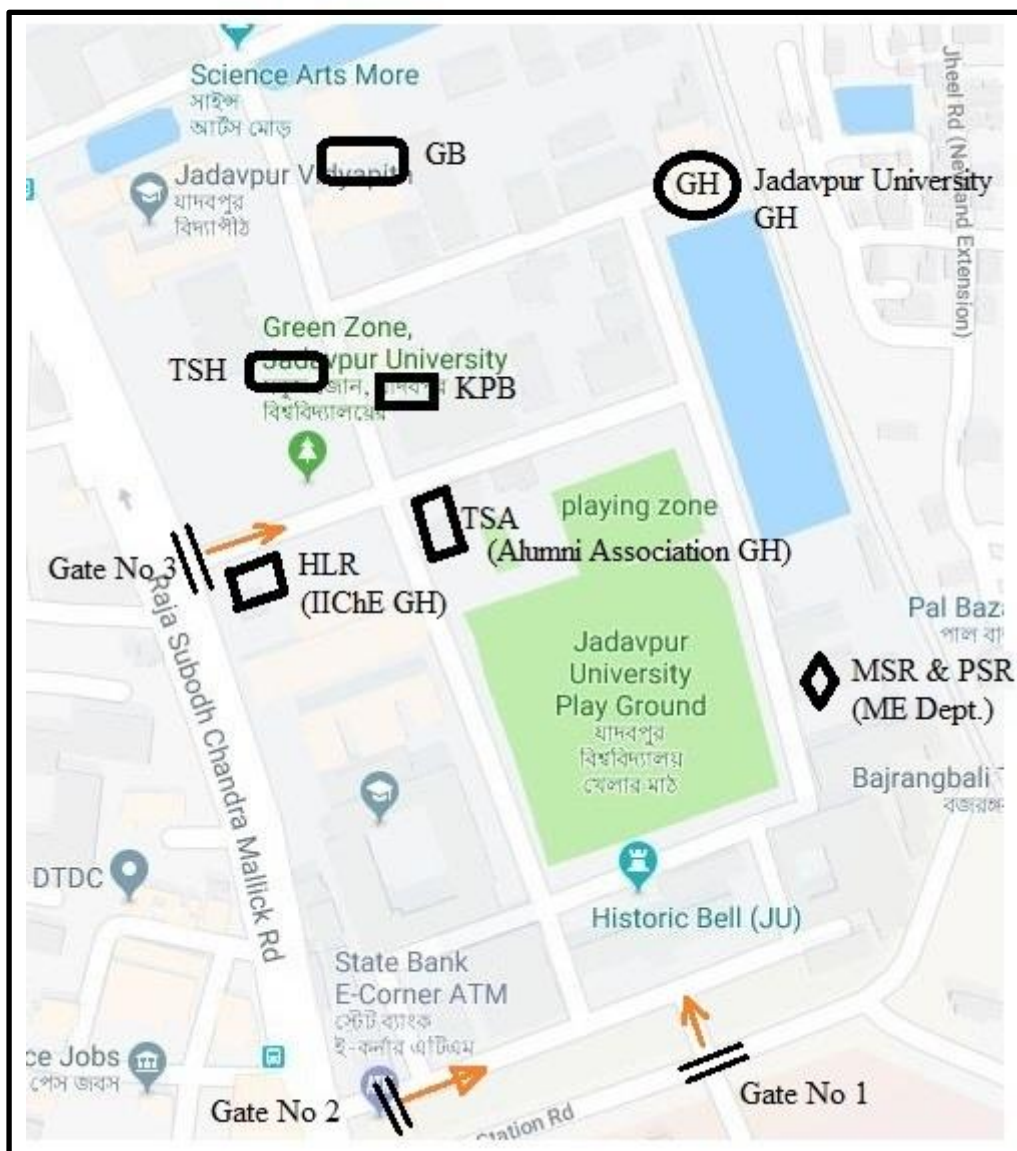


Technical Programme at a Glance

GB	Gandhi Bhavan
HLR	H.L. Roy Auditorium, IChE Building
KPB	K.P. Basu Memorial Hall, E. Sc. Building
TSH	TEQIP Seminar Hall, Room No: 209, TEQIP Building
TSA	Triguna Sen Auditorium, Alumni Association Building
MSR	Seminar Room, Mechanical Engineering Building
PSR	P.G. Seminar Room, Mechanical Engineering Building
GH	Jadavpur University Guest House
OAT	Jadavpur University Open Air Theatre

Map for Different Venues



January 4, 2018		10:30 - 11:30	Inauguration (GB)					
		11:30 - 12:00	High Tea					
		12:00 - 12:45	Plenary Lecture PL 1 (GB)					
		12:45 - 13:30	Plenary Lecture PL 2 (GB)					
		13:30 - 14:30	Lunch (GH)					
			HLR	KPB	TSH	TSA	MSR	PSR
		14:30 - 15:00	KL 1A	KL 1B	KL 1C	KL 1D		
	Technical Sessions 1A - 1F	15:00 - 15:15	5	23	3	20	53	48
		15:15 - 15:30	21	24	4	38	15	61
		15:30 - 15:45	22	28	236	47	41	62
		15:45 - 16:00	25	34	11	77	49	106
		16:00 - 16:15	Tea	Tea	Tea	Tea	Tea	Tea
	Technical Sessions 2A - 2F	16:15 - 16:30	30	35	29	86	126	78
		16:30 - 16:45	39	51	31	94	191	101
		16:45 - 17:00	50	52	33	109	238	138
		17:00 - 17:15				113	234	139
		17:15 - 17:30				121	257	163
		17:30 - 17:45				131		186
		18:30 - 19:30	Cultural Programme (GB)					
		19:30 - 21:30	Dinner (GH)					

Technical Sessions A, B, C, D, E and F will be held in HLR, KPB, TSH, TSA, MSR, PSR respectively. Laptop computer loaded with Powerpoint and LCD projectors will be available in all the halls. Internet connection will not be available in the halls.

Plenary Lectures

- PL 1A** Prof Ishwar K Puri, McMaster University, Canada
Playing with magnets: Creating novel materials and translational devices
- PL 1B** Prof Mustafizur Rahman, National University, Singapore
Mechanical Engineering for Sustainability Through Innovation

Keynote Lectures

- KL 1A** Sri Debabrata Roy, GTRE, Bengaluru
Gas Turbine Research & Development in India for Defence Application
- KL 1B** Prof Subrata Roy, University of Florida, USA
Influence of Surface Plasma Actuation on Flow Transition to Turbulence
- KL 1C** Prof. Avinash K. Agarwal, IIT Kanpur
Technology Roadmap for DME/ Methanol Fuelled Vehicles in Indian Mega-Cities
- KL 1D** Prof. Amit Agrawal, IIT Bombay
Development of Innovative Point-of-Care Microdevices

January 5, 2018			HLR	KPB	TSH	TSA	MSR	PSR
	Technical Sessions 3A - 3F	10:00 – 10:15	71	58	43	79	175	
		10:15 – 10:30	76	59	45	83	193	
		10:30 – 10:45	82	60	226	84	195	
		10:45 - 11:15	KL 2A	KL 2B	KL 2C	KL 2D	KL 2E	
		11:15 - 11:30	Tea	Tea	Tea	Tea	Tea	
		11:30 - 12:00	KL 3A	KL 3B	KL 3C	KL 3D	KL 3E	
	Technical Sessions 4A - 4F	12:00 – 12:15	92	66	95	136	56	103
		12:15 – 12:30	93	67	252	143	57	119
		12:30 – 12:45	97	85	115	147	91	120
		12:45 – 13:00	98	88	116	148	69	122
		13:00 – 13:15	100	96	149	196	141	123
		13:15 – 13:30	104	102	154		208	134
		13:30 - 14:30	Lunch (GH)					
		14:30 - 15:00				KL 4A		
		15:00 - 16:00	Panel Discussion: Current Opportunities and Challenges in Mechanical Engineering Education and Research (TSA)					
		16:00 -16:15				Tea		
	Technical Sessions 5A - 5F	16:15 - 16:30	145	18	228	105	137	68
		16:30 - 16:45	146	19	250	107	157	125
		16:45 - 17:00	153	70	251	110	164	140
		17:00 - 17:15				118	166	190
17:15 - 17:30					128	170	233	
17:30 - 17:45					130	173	247	
	18:30 – 19:30	Cultural Programme (OAT)						
	19:30 – 21:30	Conference Dinner (OAT)						

Keynote Lectures

- KL 2A** Prof Gopinath Chattopadhyay, Federation University, Australia
Asset Management and its future direction in balancing cost, risk and performance in line with ISO55000
- KL 2B** Prof Suman Chakraborty, IIT Kharagpur
Electrically modulated manipulation of droplets: some perspectives and beyond
- KL 2C** Dr. Soumitra Tarafder, NML Jamshedpur
The mechanics of damage evolution in material microstructures
- KL 2D** Prof. Nilesh J. Vasa, IIT Madras
Recent Advances in Laser Surface Texturing Techniques and Applications
- KL 2E** Prof S.K. Som, IEST Shibpur/Prof. U. Rana, IEST Shibpur
Dynamics and Thermodynamics of Premixed and Diffusion Flame in a Micro Combuster with Heat Recirculating Wall
- KL 3A** Prof. P.K. Ray, IIT Kharagpur
Design and Development of Lean Engineering Practices in Manufacturing Organizations: A Case Study
- KL 3B** Prof A.K. Chattopadhyay, IIT Kharagpur
Advanced Coatings for High Speed Machining
- KL 3C** Prof. Sumit Basu, IIT Kanpur
Fracture mechanics of bamboo: an example of how nature designs structures that ensure survival
- KL 3D** Prof. Sarit K. Das, IIT Ropar
Interfacial physics of complex nanocolloids: Effect of interplay of surfactants and nanoparticles
- KL 3E** Dr. Deb Mukhopadhyay, BARC Mumbai
Basic Concepts in Reactor Safety
- KL 4A** Sri D.S. Mullick, DCPL Kolkata
Cooling Tower for Utility Power Plants -Wet or Dry

January 6, 2018			HLR	KPB	TSH	TSA	MSR	PSR	
	Technical Sessions 6A - 6F	10:00 – 10:15	210	221	10	222	44	194	
		10:15 – 10:30	232	224	237	245	46	212	
		10:30 – 10:45	239	230	108	258	54		
		10:45 - 11:00	249	248	124	65	89		
		11:00 - 11:30		KL 5B		KL 5A			
		11:30 - 11:45		Tea		Tea			
	Technical Sessions 7A - 7F	11:45 – 12:00	132	198	155	37	160	40	
		12:00 – 12:15	142	204	158	72	168	55	
		12:15 – 12:30	144	206	178	73	169	74	
		12:30 – 12:45	150	213	182	112	172	117	
		12:45 – 13:00	151	214	184	159	174	129	
		13:00 – 13:15	165	218	199	161	177	152	
		13:15 – 13:30	167	219	207	211	181	189	
		13:30 – 13:45	188	220	231	215	197	217	
		13:45 - 14:45	Lunch (GH)						
		14:45 - 15:15	Valedictory Function (TSA)						

Keynote Lectures

KL 5A Prof. A.K. Mallik, IEST Shibpur

Use of Models and Demonstrations in Mechanical Engineering Education

KL 5B Dr. Gautam Goswami, TIFAC, DST

Future Technological Landscape of India

List of Contributed Papers

Paper #	Paper Title and Authors	Session	Section
3	Rahul ., Thrinadh Jadam, Saurav Datta, Manoj Masanta, Bibhuti Bhusan Biswal and Siba Sankar Mahapatra. Characteristics of EDMED work surfaces of 304SS, Inconel 601 and titanium alloy Ti-6Al-4V	1C	Materials
4	Tapan Sarkar, Tapan Kumar Pal and Akshay Kumar Pramanick. Effect of Cerium content in Austempered Ductile Iron (ADI) Weld metal	1C	Materials
5	Amlan Paul and Debabrata Das. A study on post-buckling load-deflection behavior of tapered Timoshenko functionally graded beam under linear thermal gradient	1A	Solid Mechanics/ Design
10	Arkadeb Mukhopadhyay, Tapan Kumar Barman and Prasanta Sahoo. OPTIMIZATION OF TRIBOLOGICAL BEHAVIOR OF ELECTROLESS Ni-B COATINGS AT ELEVATED TEMPERATURES	6C	Materials
11	Abhijit Patra, Subhas Ganguly, Partha Protim Chattapadhyay and Shubhabrata Datta. ANN DATA ANALYTICS FOR THE AGING BEHAVIOR OF AL-CR ALLOYS	1C	Materials
15	Siddhartha Ganguly, Anindita Ganguly, Soubhagya Mondal, Anish Majumder, Aniruddha Ghosh and Saikat Hazra. Computing Fractional Order Differential Equation Problems By Triangular Functions	1E	Dynamical Systems
18	Bablu Sikder and Abhijit Chanda. Effect of annealing on the indentation fracture toughness of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} , a potential energy material for oxygen separation	5B	Materials
19	Prasanna Gadhari and Prasanta Sahoo. STUDY OF TRIBOLOGICAL BEHAVIOR OF Ni-P-TiO ₂ COMPOSITE COATINGS BY OPTIMIZING COATING PROCESS PARAMETERS	5B	Materials
20	Tanusree Bera, Samir Kumar Acharya and Goutam Sutradhar. Production and characterization of cenosphere particulate reinforced Al-Si12 alloy matrix composites by squeeze casting method	1D	Manufacturing
21	Mrinmoy Jana, Sankar Dhar and Sanjib Kumar Acharyya. A cohesive zone model for crack growth simulation in Ductile Material (20MnMoNi55)	1A	Solid Mechanics/ Design
22	Sukalpa Choudhury, Sanjib Kumar Acharyya and Sankar Dhar. Estimation of G _{fr} for short crack growth from the ductile stretch using Cohesive Zone Model	1A	Solid Mechanics/ Design
23	Aravind M D and Sourav Rakshit. STUDY OF EFFECT OF THE CIRCULAR CONTROL CYLINDER ON THE FLOW AROUND CIRCULAR MAIN CYLINDER AT LOW REYNOLDS NUMBERS USING AN IMMERSED BOUNDARY METHOD	1B	Fluid Mechanics/ Heat Transfer
24	Somnath Santra, Dipak Kumar Mandal and Somnath Chakrabarti. Effect of Hyperlipidemia and Hyperthermia on LDL Species Transportation in Arterial Wall Layers	1B	Fluid Mechanics/ Heat Transfer
25	Tamonash Jana, Anirban Mitra and Prasanta Sahoo. Effect of yield strength on dynamic behaviour of deformable sphere-rigid plane contact.	1A	Solid Mechanics/ Design
28	Rajesh Sarkar, Subhrajyoti Sarkar, Chittrak Mondal, Nirmalendu Biswas and Nirmal K. Manna. THERMAL MAGNETO-HYDRODYNAMICS IN A LID-DRIVEN CAVITY	1B	Fluid Mechanics/ Heat Transfer
29	Ranendra Roy and Bijan Kumar Mandal. Performance Comparison of Vapour Cascade Refrigeration System Using R41/R404A and R170/R404A as Refrigerant Combination	2C	Thermal Engg./ Energy

Paper #	Paper Title and Authors	Session	Section
30	Abhishek Sarmah, Manoranjan Kherkatary, Jigyash Rijal, Bedabrata Sarma and Ritam Paul. Effect of triaxiality factor on failure behaviours and relative strengths of different riveted lap joints	2A	Solid Mechanics/ Design
31	Shahnawaz Alam, Subha Mondal and Sudipta De. WASTE HEAT RECOVERY THROUGH EJECTOR REFRIGERATION CYCLES USING DRY WORKING FLUIDS	2C	Thermal Engg./ Energy
33	Madhu Sruthi Emani, Ranendra Roy, Achin Kumar Chowdhuri and Bijan Kumar Mandal. Energy and Exergy Analysis of Vapour Compression Refrigeration System using Alternative Refrigerants	2C	Thermal Engg./ Energy
34	Tapas Kumar Nandi and Himadri Chattopadhyay. Parametric numerical study of Flow and Heat transfer in simultaneously developing inlet pulsatile flow inside microchannels	1B	Fluid Mechanics/ Heat Transfer
35	Sayan Halder, Sudipta Rakshit, Nirmalendu Biswas and Nirmal K. Manna. BUOYANT MAGNETO-HYDRODYNAMICS IN A POROUS CAVITY	2B	Fluid Mechanics/ Heat Transfer
37	Kunal Ganguly. A CASE OF LOGISTICS OPTIMIZATION FOR A LARGE PROCESS INDUSTRY	7D	Industrial Engineering
38	Bishal Dey, Nripen Mondal, Chitradittya Barman and Debraj Paul. OPTIMIZATION ON THE PROCESS PARAMETERS TO MINIMIZE IN DRILLING BURR FORMATION WITH ANOVA ANALYSIS	1D	Manufacturing
39	Mrutyunjay Rout and Amit Karmakar. FREE VIBRATION OF ROTATING TWISTED COMPOSITE STIFFENED PLATE	2A	Solid Mechanics/ Design
40	Vinod J, Paladugu Venkaiah and Bikash Kr Sarkar. FRANCIS TURBINE IGV CONTROL UNDER FORCE ESTIMATION	7F	Turbo-machines
41	Anindita Ganguly, Aniruddha Ghosh, Subhabrata Basak, Shailesh Verma and Sayandeep Sen. HYBRID FUNCTION BASED APPLICATION TO SOME CHAOTIC PROBLEMS	1E	Dynamical Systems
43	Syed M. Rahman, Himadri Chattopadhyay and Romesh Laishram. ASSESSMENT OF WIND ENERGY POTENTIAL FOR POWER GENERATION AT IMPHAL, MANIPUR (INDIA)	3C	Thermal Engg./ Energy
44	Anurag Sharma, Naman Nishant Rana, Vishal Mishra and Rohit Gupta. DESIGN OF BASE ISOLATION SYSTEM FOR STEEL FRAME BUILDING	6E	Structural Engineering
45	Sai Sarath Kruthiventi, Meghana Rayedi, Lokesh Kalapala and Sravani Kola. MODELLING AND PARAMETRIC ANALYSIS OF COOLING SYSTEM OF AN INSULATED GATE BIPOLAR TRANSISTOR	3C	Thermal Engg./ Energy
46	Amit Shiuly and Malay Maity. A STUDY ON PERFORMANCE OF HIGH RISE BUILDING DURING EARTHQUAKE IN KOLKATA	6E	Structural Engineering
47	Subhas Chandra Moi, Asish Bandyopadhyay and Pradip Kumar Pal. OPTIMIZATION OF TIG WELDING PROCESS PARAMETERS ON TENSILE PROPERTIES OF 316L STAINLESS STEEL USING RSM	1D	Manufacturing
48	Saswata Bose, Arit Das and Anirban Ghosh. Enhanced Thermal and Mechanical Performance of Functionalized Graphene Epoxy Nanocomposites: Effect of Processing Conditions, Different Grades & Loading of Graphene	1F	Micro-/Nano-scale Technology
49	Anindita Ganguly, Anirban Mukhopadhyay and Saumya Deep Chatterjee. Extension Of One Dimensional Hybrid Function (A Combination Of Sample and Hold Function and Right Hand Triangular Function) to Two Dimensions and Its Application to Solving Linear and Nonlinear Volterra Integral Equations	1E	Dynamical Systems

Paper #	Paper Title and Authors	Session	Section
50	Hareram Lohar, Anirban Mitra and Sarmila Sahoo. Large Amplitude Static Deflection of Axially Functionally Graded Plates on Elastic Foundation	2A	Solid Mechanics/ Design
51	Supratim Saha and Anirban Bose. ANALYSIS OF VARIOUS TYPES OF BLOCKAGE TO BLOOD FLOW IN ARTERY THROUGH CFD USING FINITE VOLUME METHOD.	2B	Fluid Mechanics/ Heat Transfer
52	Meghna Das Chaudhury and Anirban Bose. A CFD ANALYSIS TO SHOW ENHANCEMENT OF HEAT TRANSFER BY CNT NANOFLUID IN HEAT EXCHANGER TUBES AT FULLY DEVELOPED TURBULENT REGION	2B	Fluid Mechanics/ Heat Transfer
53	Somnath De, Arijit Bhattacharya, Achintya Mukhopadhyay and Swarnendu Sen. STATISTICAL SIGNAL ANALYSIS OF LEAN PREMIXED FLAME NEAR BLOWOUT	1E	Dynamical Systems
54	Kaustav Bakshi and Dipankar Chakravorty. RELATIVE PERFORMANCE STUDY OF COMPOSITE CONOIDAL SHELL ROOFS IN TERMS OF FIRST PLY FAILURE LOADS	6E	Structural Engineering
55	Nitesh Mondal, Rana Saha and Dipankar Sanyal. AN EXPERIMENTAL INVESTIGATION ON PRESSURE COMPENSATED VARIABLE DISPLACEMENT SWASH PLATE TYPE AXIAL PISTON PUMP	7F	Turbo-machines
56	Pijush Kanti Mondal and Bijan Kumar Mandal. EXPERIMENTAL INVESTIGATION ON IC ENGINE PERFORMANCE AND EMISSION CHARACTERISTICS USING EMULSIFIED DIESEL	4E	Thermal Engg./ Energy
57	Manasa Ram Kotal, Somnath De, Swarnendu Sen and Achintya Mukhopadhyay. EXPERIMENTAL STUDY ON LPG-AIR MIXED FLAME IN LAMINAR CO-FLOW BURNER	4E	Thermal Engg./ Energy
58	Chittrak Mondal, Rajesh Sarkar, Subhrajyoti Sarkar, Nirmalendu Biswas and Nirmal K. Manna. IMPACT OF MAGNETIC FIELDS ON BUOYANT DRIVEN CAVITY	3B	Fluid Mechanics/ Heat Transfer
59	Sudipta Rakshit, Sayan Halder, Nirmalendu Biswas and Nirmal K. Manna. MHD CONVECTION IN A CORNER HEATED POROUS CAVITY	3B	Fluid Mechanics/ Heat Transfer
60	Anirban Bose, Abhisekh Dey, Prithwiraj Chatterjee and Shubham Giri. PERFORMANCE ENHANCEMENT OF HYBRID SOLAR WATER HEATING SYSTEM BY CNT-WATER NANOFLUID	3B	Fluid Mechanics/ Heat Transfer
61	Sayan Das, Shubhadeep Mandal and Suman Chakravorty. Effect of interfacial viscosity on the motion of a surfactant-laden droplet in an unbounded Poiseuille flow	1F	Micro- /Nano-scale Technology
62	Siddhartha Mukherjee, Jayabrata Dhar, Sunando Dasgupta and Suman Chakravorty. Forced convection in electroosmotic flow of Phan-Thien-Tanner fluids	1F	Micro- /Nano-scale Technology
65	Aranyak Chakravarty, Priyanka Datta, Koushik Ghosh and Swarnendu Sen. PRESSURE DEPENDENCE OF DRYOUT IN A HEAT-GENERATING POROUS DEBRIS BED	6D	Thermal Engg./ Energy
66	Priyanka Datta, Aranyak Chakravarty, Koushik Ghosh, Achintya Mukhopadhyay and Swarnendu Sen. A COMPARATIVE ASSESSMENT OF MODELLING DIRECT CONTACT CONDENSATION PHENOMENON USING VOF APPROACH	4B	Fluid Mechanics/ Heat Transfer
67	T.K. Favas and G. Jilani. CONJUGATE HEAT TRANSFER ANALYSIS OF AN ENERGY GENERATING PLATE WITH VARIABLE THERMAL CONDUCTIVITY	4B	Fluid Mechanics/ Heat Transfer

Paper #	Paper Title and Authors	Session	Section
68	Pratik Gyawali, Shailesh Bamoriya and S.K. Dwivedy. Joint Space Trajectory Tracking of 5R Manipulator using Open Source Hardware	5F	Rigid Body Dynamics
69	Avik Ghosh and Aritra Ganguly. THERMAL MODEL DEVELOPMENT OF A PARTIALLY CLOSED SOLAR DESICCANT ASSISTED GREENHOUSE COOLING SYSTEM	4E	Thermal Engg./ Energy
70	Suswagata Poria, Prasanta Sahoo and Goutam Sutradhar. CORROSION BEHAVIOR OF STIR-CAST Al-TiB ₂ METAL MATRIX COMPOSITES	5B	Materials
71	Apurba Das, Mrutyunjay Rout and Amit Karmakar. TIME DEPENDENT RESPONSE OF LOW VELOCITY IMPACT INDUCED Ni/Cu FUNCTIONALLY GRADED CONICAL SHELL	3A	Solid Mechanics/ Design
72	Sudeshna Roy, Nipu Modak and Pranab K Dan. ENTERPRENEURIAL CULTURE IN TECHNICAL IMPROVEMENTS FOR PRODUCT QUALITY AND CUSTOMER SATISFACTION	7D	Industrial Engineering
73	Sudeshna Roy, Nipu Modak and Pranab K Dan. MANAGERIAL SUPPORT IN R&D PRACTICES FOR ACHIEVING TECHNOLOGICAL DEVELOPMENTS	7D	Industrial Engineering
74	Parthasarathi Hans and Debabrata Roy. Marine Gas Turbine Engine Development – An Indian Scenario	7F	Turbo-machines
76	Kallol Khan, Koustav Roy and Sayan Batabyal. Vibration Suppression of Jute-Epoxy based bio-composite laminated beam	3A	Solid Mechanics/ Design
77	Pradip Pal and Subrata Mondal. DYNAMIC PERFORMANCE OF GEAR HOBBING MACHINE EXPERIMENTS AND ANN MODELING	1D	Manufacturing
78	Ritabrata Saha, Koushik Ghosh, Achintya Mukhopadhyay and Swarnendu Sen. FLOW REVERSAL PREDICTION OF A SINGLE PHASE SQUARE NCL USING SYMBOLIC TIME SERIES ANALYSIS	2F	Dynamical Systems
79	Tanmoy Sarkar, Probir Kumar Bose and Goutam Sutradhar. INVESTIGATION OF AUSTEMPERING TIME ON TRIBOLOGICAL BEHAVIOR OF AUSTEMPERED GRAY IRON (AGI)	3D	Materials
82	Sushanta Ghuku and Kashi Nath Saha. DESCRIPTION OF UPDATED BEAM GEOMETRY IN MATHEMATICAL AND PHYSICAL PARLANCE	3A	Solid Mechanics/ Design
83	Santanu Duari, Arkadeb Mukhopadhyay, Tapan Kr. Barman and Prasanta Sahoo. COMPARISON OF FRICTION AND WEAR PROPERTIES OF ELECTROLESS Ni-B COATING UNDER DRY AND LUBRICATED CONDITION	3D	Materials
84	Soumajit Talukdar and Sankar Kumar Roy. NATURAL FREQUENCIES OF A CURVED BEAM USING FINITE ELEMENT METHOD	3D	Materials
85	Arindam Mandal and Snehamoy Majumder. EFFECTS OF RADIAL BAFFLES FITTED DOWNSTREAM OF AN AXI-SYMMETRIC SUDDEN EXPANSION ON THE TURBULENT FLUID FLOW	4B	Fluid Mechanics/ Heat Transfer
86	Arunangsu Das, Malobika Karanjai, Susenjit Sarkar and Goutam Sutradhar. SENSITIVITY ANALYSIS OF MRR DURING WIRE-EDM OF SINTERED TITANIUM POWDER METALLURGY PARTS	2D	Manufacturing
88	Basukinath Mandal, Snehamoy Majumder and Prabir Kumar Dey. NUMERICAL ANALYSIS OF NANOFLUID FLOW AND CONJUGATIVE HEAT TRANSFER THROUGH A 3-DIMENSIONAL RECTANGULAR DUCT	4B	Fluid Mechanics/ Heat Transfer

Paper #	Paper Title and Authors	Session	Section
89	Dona Chatterjee and Dipankar Chakravorty. STUDY OF ALONG WIND PEAK TIP DEFLECTION AND VARIATION OF REYNOLDS NUMBER FOR DIFFERENT MODELS OF RCC CHIMNEYS	6E	Structural Engineering
91	Nitish Sinha, Arun Singh and Vinit Gupta. Stability of a rock slope using rate state temperature and pore pressure friction model	4E	Thermal Engg./ Energy
92	Nishibonya Kakoti, Rajat Sethi, Shubham Agarwal, Divya Zindani and Sumit Bhowmik. STUDY OF TENSILE BEHAVIOUR OF BAMBOO EPOXY COMPOSITES USING FINITE ELEMENT METHOD	4A	Solid Mechanics/ Design
93	Sarmistha Kundu, Arnab Banerjee, Goutam Laha and Anirban Bose. A FINITE ELEMENT ANALYSIS SHOWING THE PERFORMANCE ENHANCEMENT OF SPUR GEAR BY Al-SiC COMPOSITE	4A	Solid Mechanics/ Design
94	Aritra Ghosh and Dipten Misra. EXPERIMENTAL INVESTIGATION ON LASER WELDING OF 2205 DUPLEX STAINLESS STEEL	2D	Manufacturing
95	Manas Kumar Saha, Manohar Kumar and Santanu Das. EFFECT OF HEAT INPUT ON CORROSION OF DUPLEX STAINLESS STEEL CLAD LOW ALLOY STEEL PLATE EMPLOYING FLUX CORED ARC WELDING	4C	Materials
96	Shantanu Dutta, Arup Biswas and Sukumar Pati. Numerical Analysis of Laminar Natural Convection in a Quadrantal Cavity with Non-uniform heating of hot Bottom Wall	4B	Fluid Mechanics/ Heat Transfer
97	Sourav Banerjee and Sajan Shrestha. COMPARISON OF ELASTODYNAMIC GREEN'S FUNCTION FORMULATIONS FOR WAVE MODELLING IN COMPOSITE MATERIALS	4A	Solid Mechanics/ Design
98	Priyambada Nayak and Kashi Nath Saha. EFFECT OF YIELD STRESS VARIATION ON YIELD FRONT GROWTH OF NON-UNIFORM BARS SUBJECTED TO THERMAL LOAD	4A	Solid Mechanics/ Design
100	Brajesh Panigrahi and Goutam Pohit. INFLUENCE OF HIGHER ORDER HARMONICS ON NONLINEAR FORCED VIBRATION OF TIMOSHENKO BEAMS	4A	Solid Mechanics/ Design
101	Amit Banerjee and Goutam Pohit. CRACK DETECTION BY VIBRATION EXPERIMENT DATA USING CASCADE NEURO-GA HYBRID TECHNIQUE	2F	Dynamical Systems
102	Aakash Gupta, Anish Pal, Sayanta Midya, Nirmalendu Biswas and Nirmal K. Manna. IMPACT OF MAGNETIC FIELDS ON CONVECTION IN CAVITY	4B	Fluid Mechanics/ Heat Transfer
103	Bishwajit Sharma, Dr. Rabindra Nath Barman and Dr. Thangadurai Murugan. EXPERIMENTAL AND NUMERICAL INVESTIGATION OF FLOW OVER 70°/40° DOUBLE DELTA WING AT LOW REYNOLDS NUMBER	4F	Fluid Mechanics/ Heat Transfer
104	Sayantan Mandal, Anirban Mitra and Prasanta Sahoo. EXPERIMENTAL INVESTIGATION ON FREE VIBRATION BEHAVIOUR OF CONCENTRICALLY STIFFENED PLATES	4A	Solid Mechanics/ Design
105	Arnab Ray, Nripen Mondal and Arijit Kundu. TOPOLOGY OPTIMISATION OF A MOTORCYCLE CHASSIS	5D	Solid Mechanics/ Design
106	Sumit Kumar, Sunando Dasgupta and Suman Chakraborty. NANOPARTICLES MODULATED ELECTROWETTING ON THE SOFT SURFACE	1F	Micro-/Nano-scale Technology

Paper #	Paper Title and Authors	Session	Section
107	Puja Basu Chaudhuri, Dr.Anirban Mitra and Dr. Sarmila Sahoo. FREQUENCY ANALYSIS OF LAMINATED COMPOSITE STIFFENED HYPAR SHELL WITH CUT-OUT ON HIGHER MODES	5D	Solid Mechanics/ Design
108	Sanjib Kundu, Suman Kalyan Das and Prasanta Sahoo. FRICTION AND WEAR CHARACTERISTICS OF HEAT TREATED Ni-P-W COATINGS UNDER DIFFERENT VELOCITY AND TEMPERATURE	6C	Materials
109	Punit Sharma, Nikesh Chowrasia and Santanu Duari. OPTIMIZATION OF PROCESS PARAMETERS IN CNC TURNING OF COPPER ALLOY USING TAGUCHI APPROACH	2D	Manufacturing
110	Vijay Barethiye, Goutam Pohit and Anirban Mitra. ACTIVE SUSPENSION SYSTEM FOR NONLINEAR HALF CAR MODEL	5D	Solid Mechanics/ Design
112	Vivek Kumar Chawla, Dr Arindam Kumar Chanda and Prof . Dr Surjit Angra. Integrated Scheduling of Multi Load AGVs by Priority Hybrid Dispatching Rules in FMS-A Simulation Study	7D	Industrial Engineering
113	Mihir Samantaray, Dhirendranath Thatoi and Seshadev Sahoo. AN APPROACH TO NUMERICAL MODELLING OF TEMPERATURE FIELD IN DIRECT METAL LASER SINTERING OF AlSi10Mg ALLOY POWDER	2D	Manufacturing
115	Surjeet Singh and K.N. Pandey. Study of effect of coating thickness on erosion behavior of thermal barrier coatings (TBCs) deposited on AA2024 -T4 by sol-gel method	4C	Materials
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