

List of Accepted Papers: Track 1 (Thermo-fluids)

Sl No	Paper ID INCOM26-	Paper Title
1	1	EMERGENCE OF THERMOACOUSTIC INSTABILITIES BASED ON MUTUAL INFLUENCE BETWEEN KEY VARIABLES IN TURBULENT COMBUSTION
2	2	A THERMODYNAMIC MODEL TO STUDY PERFORMANCE OF AN INTERNAL COMBUSTION ENGINE
3	3	EVOLUTION OF TEMPERATURE FIELD DURING LASER TREATMENT OF A TUMOR
4	8	MICRO-LASER JOINING OF TWO THIN GLASS SUBSTRATES
5	9	NUMERICAL STUDY ON LASER JOINING OF HIGH TO LOW MELTING DISSIMILAR MATERIALS IN LAP CONFIGURATION
6	13	EVOLUTION OF SOLID-LIQUID INTERFACE DURING SOLIDIFICATION OF AN AL-SI ALLOY IN A SAND MOULD
7	14	SOLAR AIR HEATING FOR PRESERVING WASTE FOOD
8	26	LES OF SUPERSONIC ROUND JETS AT HIGH REYNOLDS NUMBER
9	35	TRANSPORT PHENOMENA IN PRESENCE OF A SLENDER BLUFF BODY
10	40	ENTROPY MAPPING IN ATHLETIC METABOLIC PROCESSES
11	43	HYDRODYNAMICS OF FISHES-LIKE UNDULATING HYDROFOILS IN CHANNEL
12	46	DRAG CHARACTERISTICS OF FLAPPING AIRFOIL IN LOW REYNOLDS NUMBER FLOW
13	48	TRI-DISPERSE GRANULAR MIXING IN A ROTATING DRUM: EXPERIMENTS AND DEM SIMULATIONS
14	51	STUDIES ON EVOLUTION OF TEMPERATURE OF A CYLINDRICAL LI-ION BATTERY UNDER CYCLIC OPERATIONS
15	68	OPEN FOAM BASED NUMERICAL SIMULATION OF T-SHAPED MICROMIXERS WITH REPEATING THREE CRESCENT AND FOUR CRESCENT OBSTACLE GEOMETRIES
16	80	INTERNAL HYDRAULIC JUMP DURING CO-CURRENT STRATIFIED GAS-LIQUID FLOW IN CLOSED CHANNELS
17	88	A HYBRID MASS TRANSFER MODEL FOR TRANSIENT STEAM BUBBLE CONDENSATION IN SUBCOOLED LIQUID: COUPLING INTERFACE-JUMP AND BOUNDARY LAYER MECHANISMS
18	90	A BENCHMARKING STUDY OF PIPE BLOWDOWN PHENOMENA USING THE PRABHAVINI ACCIDENT ANALYSIS CODE
19	94	COMPUTATIONAL STUDY OF 2-DIMENSIONAL FLOW PATTERN IN A GENERIC SMART POWERED RESPIRATOR MASK DEVICE
20	97	IMPACT OF BUILDING INTERFERENCE ON PEDESTRIAN LEVEL WIND VELOCITY

Sl No	Paper ID INCOM26-	Paper Title
21	114	PERFORMANCE EVALUATION OF AN INDIRECT EVAPORATIVE COOLER UNDER VARYING MASS FLOW RATES AND AMBIENT RELATIVE HUMIDITY
22	116	PERFORMANCE OF HEAT TRANSFER OF SINUSOIDAL WAVY MICRO CHANNEL WITH AN INTELLIGENT REGRESSION MODEL
23	136	NUMERICAL INVESTIGATION OF T-SHAPED MICROMIXER WITH SEQUENTIAL OCTAGONAL AND CRESCENT RIBBED OCTAGONAL OBSTACLE USING OPENFOAM
24	143	NUMERICAL INVESTIGATION OF HEAT TRANSFER AND FLUID FLOW UNDER IMPINGING ANNULAR JETS OF POWER-LAW FLUIDS
25	144	RESPONSE SURFACE METHOD BASED PERFORMANCE OPTIMISATION OF TWO-PHASE NATURAL CIRCULATION LOOP
26	146	THERMO-HYDRAULIC PERFORMANCE EVALUATION OF TUBULAR HEAT EXCHANGER EQUIPPED WITH HELICAL COILS IN PRESENCE OF FE ₃ O ₄ -WATER NANOFLUID
27	148	NUMERICAL AND EXPERIMENTAL STUDIES FOR LIQUID METAL PUMPING IN SMALL SCALE GAS-LIFT PUMP
28	153	CHARACTERIZATION OF PREMIXED ALCOHOL-AIR FLAMES IN MESO-SCALE COMBUSTORS
29	156	EFFECT OF RHEOLOGY ON MUCUS FILM FRAGMENTATION: A COMPUTATIONAL STUDY CONSIDERING DIFFERENT PULMONARY DISEASES
30	158	NUMERICAL ANALYSIS OF HEAT TRANSFER IN VERTICAL FIN ARRAYS WITH NON-UNIFORM HEIGHT DISTRIBUTIONS
31	164	THERMAL PERFORMANCE OF PCM EMBEDDED IN METAL FOAMS WITH VARYING POROSITIES: AN EXPERIMENTAL STUDY
32	168	NUMERICAL EXAMINATION OF ENTROPY FORMATION DURING NATURAL CONVECTION INSIDE A SQUARE ENCLOSURE HEATED NON-UNIFORMLY FROM TOP
33	169	EXPERIMENTAL INVESTIGATION OF STEAM BUBBLE DYNAMICS DURING DIRECT CONTACT CONDENSATION IN A SUBCOOLED POOL USING VARYING NOZZLE DIAMETERS
34	186	NANOPARTICLE TRANSPORT AND DEPOSITION IN A MICROFLUIDIC CHANNEL WITH A POROUS OBSTRUCTION UNDER PULSATILE FLOW CONDITIONS
35	192	PERFORMANCE ANALYSIS OF TESLA VALVE-BASED LIQUID COOLING SYSTEMS FOR BATTERIES
36	193	HEAT TRANSFER PERFORMANCE OF BINARY VS. TERNARY NANOFLUIDS IN LAMINAR PIPE FLOW WITH CONSTANT WALL HEAT
37	197	EFFECT OF GEOMETRY ON THE DYNAMICS OF RECTANGULAR NATURAL CIRCULATION LOOP
38	200	ENHANCEMENT OF THERMAL PERFORMANCE USING NANOPARTICLES OVER BACKWARD FACING STEP

Sl No	Paper ID INCOM26-	Paper Title
39	202	EARLY PREDICTION OF THERMAL RUNAWAY IN OVERCHARGED LITHIUM-ION BATTERY USING VOLTAGE-TEMPERATURE SIGNATURE
40	217	COMPUTATIONAL ANALYSIS OF FLUE GAS FLOW DYNAMICS AND CONDENSATE DEPOSITION PATTERNS IN WET STACK SYSTEMS OF THERMAL POWER PLANTS
41	223	STUDY ON THE EFFECT OF SIZE OF RECOVERY PLUGS ON THE AERODYNAMICS OF TYPICAL ARTILLERY SHELLS
42	224	ANALYSIS OF CURVED SIDEWALL DUMP DIFFUSERS FOR GAS TURBINE COMBUSTORS
43	236	NUMERICAL STUDY OF VECTORED ANNULAR JET IMPINGEMENT ON A MOVING SURFACE
44	237	MAGNETO-NANOFUIDIC CONVECTION IN COMPLEX SEMICIRCULAR BOTTOM-HEATED POROUS ENCLOSURES WITH WAVY COOLING SURFACE AT TOP
45	238	MAGNETO-NANOFUIDIC CONVECTION IN CIRCULAR POROUS CAVITIES WITH BOTTOM PROTRUDED HEATER
46	241	TRANSPORT OF MAGNETIC MICROSPHERE IN A STRATIFIED LIQUID-LIQUID MICRO EXTRACTION SYSTEM IN ELECTRICAL AND PRESSURE DRIVEN FLOW
47	244	THERMAL AND ENTROPY BEHAVIOR OF CUO-WATER OF NANOFUID-FILLED POROUS TRIANGULAR CAVITY WITH BOTTOM HEATED SEMI-CIRCULAR OBSTRUCTION
48	248	THERMAL PERFORMANCE AND IRREVERSIBILITY ANALYSIS OF NANOFUID-SATURATED POROUS HEXAGONAL CAVITY UNDER MHD-RADIATIVE EFFECTS
49	250	MAGNETOHYDRODYNAMIC CONVECTION OF CUO-WATER NANOFUID IN COMPLEX STAR-SHAPED POROUS ENCLOSURES
50	256	A PHYSICS-INFORMED NEURAL NETWORK APPROACH FOR OPTIMIZING MICROCHANNEL THERMAL PERFORMANCE
51	262	BOILING AND HEAT TRANSFER DYNAMICS IN DIVERGING MICROCHANNELS
52	263	THERMO-MAGNETO CONVECTION IN CIRCULAR TRAPEZOID WITH DISTRIBUTED HEATING AND COOLING
53	271	DEVELOPMENT & VALIDATION OF A GALERKIN POD REDUCED ORDER MODEL FOR NATURAL CIRCULATION LOOP DYNAMICS
54	272	COMPARATIVE ANALYSIS OF SOLAR EVACUATED TUBE AIR HEATER WITH PIERCED TWISTED TAPE
55	274	BUBBLE TRANSPORT ON SUPERHYDROPHOBIC PINS UNDER WATER

Track 2: Solid Mechanics & Structural Engineering

Sl No	Paper ID INCOM26-	Paper Title
1	11	VIBRATION CHARACTERISTIC OF POROUS SIGMOID FUNCTIONALLY GRADED SANDWICH PLATE FOR DIFFERENT ASPECT RATIO USING FEM
2	20	PROPOSITION OF A MULTI-LAYERED NEURAL NETWORK TO DETECT UNBALANCE OF FLEXIBLE ROTOR
3	25	FREE VIBRATION OF LAMINATED COMPOSITE FOLDED SANDWICH PLATE WITH CUTOUT
4	77	EFFECT OF INITIAL CURVED SHAPE ON LARGE DEFLECTION OF HYPERELASTIC SOFT CURVED BEAM: A PARAMETRIC INVESTIGATION WITHIN SEMI-ANALYTICAL FRAMEWORK
5	78	DETERMINATION OF NONLINEAR FREQUENCIES FOR FUNCTIONALLY GRADED CNT-REINFORCED COMPOSITE BEAM ON GRADED ELASTIC FOUNDATION
6	82	DEFORMATION BEHAVIOR OF LAMINATED STIFFENED CYLINDRICAL SHELL WITH CUTOUT UNDER BENDING
7	122	FREE VIBRATION OF SPINNING TWISTED POROUS FUNCTIONALLY GRADED TAPERED BLADE UNDER NONLINEAR THERMAL DISTRIBUTION
8	141	A STUDY ON FREE VIBRATION RESPONSES OF THREE-DIMENSIONAL LIQUID IN RECTANGULAR CONTAINER
9	151	PROGRAMMABLE LARGE DEFORMATION AND ELASTIC ROTATIONAL RESTRAINT OF MAGNETIC STIMULI-RESPONSIVE HARD MAGNETIC SOFT BEAM
10	157	THERMO-MECHANICAL ANALYSIS OF LAMINATED COMPOSITE PLATES
11	172	STRESS AND DEFORMATION ANALYSIS OF TOPOLOGICALLY OPTIMIZED HDPE ROLLERS FOR INDUSTRIAL CONVEYORS
12	173	STATIC STRUCTURAL BEHAVIOUR OF ELASTICALLY RESTRAINED AXIALLY GRADED CANTILEVER BEAM
13	206	FREE VIBRATION CHARACTERISTICS OF MULTISCALE FUNCTIONALLY GRADED (FG) CARBON NANOTUBE (CNT) - METAL – CERAMICCOMPOSITE PLATE
14	207	FINITE ELEMENT SIMULATION OF ENGINE PISTON AND SUBSYSTEM
15	211	INVESTIGATION OF SINUSOIDAL ASPERITY CONTACT WITH DEFORMABLE SUBSTRATE INTERACTION
16	212	DESIGN AND CFD ANALYSIS OF COMPRESSIBLE SUPERSONIC FLOW THROUGH A CONICAL CD NOZZLE FOR HYBRID ROCKET ENGINES
17	258	ANN-AIDED RELIABILITY EVALUATION OF SLENDER COMPOSITE TUBES WITH MANUFACTURING-INDUCED MATERIAL PROPERTY VARIABILITY CONSIDERING GLOBAL BUCKLING
18	273	FATIGUE-ASSURED TOPOLOGY OPTIMIZATION (FATO) FRAMEWORK FOR LIGHTWEIGHT HYDRAULIC PISTON ROD

List of Accepted Papers: Track 3 (Engineering Design)

Sl No	Paper ID INCOM26-	Paper Title
1	71	SOFT COMPUTING TOOLS TO PREDICT VARIED WEIGHT COMPONENTS, MATERIAL AND TRIBOLOGICAL PROPERTIES OF AL2219-B4C-GR
2	95	A NEW HYDRAULIC SYNCHRONIZED ACTUATION SYSTEM IN OPEN-LOOP CONTROL SUITABLE FOR VARIABLE EXHAUST NOZZLE (VEN) IN GAS TURBINE ENGINES
3	101	STRATEGIC INNOVATION MODEL FOR BRIDGING RESEARCH & DEVELOPMENT, MANAGEMENT AND PUBLIC POLICY IN NANOTECHNOLOGY ENGINEERING
4	180	INVESTIGATION OF SHAFT TILTING EFFECTS ON HYDROSTATIC OIL-FILM THRUST BEARINGS WITH POCKET RECESS
5	183	RANDOM VIBRATION OF VISCOELASTIC STRUCTURE: EXPERIMENTAL AND NUMERICAL VALIDATION
6	198	INVESTIGATION OF CORROSION RESISTANCE AND HARDNESS IN TEXTILE-BASED EPOXY COMPOSITES FOR ECO-FRIENDLY CONSTRUCTION MATERIALS
7	219	ANALYTICAL PREDICTION OF SPEED CAPTURE REGIONS IN MOTOR-DRIVEN GEARED TRANSMISSION SYSTEMS
8	246	DYNAMIC PERFORMANCE AND STABILITY OF SINGLE LAYERED BEARINGS UNDER TURBULENT MICROPOLAR LUBRICATION
9	266	INTEGRATED CONCEPTUAL DESIGN AND MULTI-DOMAIN MASS-ENERGY ANALYSIS FOR AN EVTOL AIR AMBULANCE

List of Accepted Papers: Track 4 (Production Engineering & Management)

Sl No	Paper ID INCOM26-	Paper Title
1	18	JOINING OF DISSIMILAR ALUMINIUM AND MAGNESIUM ALLOYS USING MICRO-FRICTION STIR WELDING (MFSW) PROCESS
2	23	NUMERICAL PREDICTION OF RESIDUAL STRESS AND TEMPERATURE IN SINGLE GRIT MICRO-CUTTING OF Ti-6Al-4V
3	30	AN INTEGRATED APPROACH TO FMECA UNDER MULTIPLE CRITERIA
4	66	COMPARATIVE PARAMETRIC ANALYSIS AND OPTIMIZATION OF M-EDM PROCESS PARAMETERS FOR INCONEL 718 AND MONEL 400
5	67	INTELLIGENT PRODUCTIVITY-INTEGRATED INVENTORY OPTIMIZATION FRAMEWORK FOR MEDIUM-SCALE INDUSTRIES
6	102	SMART LEAN EXECUTION AND ENHANCEMENT TECHNIQUE: A NOVEL APPROACH FOR REAL-TIME OPTIMIZATION AND WASTE MINIMIZATION IN TEXTILE MANUFACTURING
7	127	EFFECTS OF PROCESS PARAMETERS ON MATERIAL REMOVAL RATE AND TOOL WEAR RATE IN ELECTRICAL DISCHARGE MACHINING OF IN 718.
8	128	A PILOT STUDY ON THE FEASIBILITY OF THROUGH TOOL COOLANT DELIVERY USING MICRO-HOLES FOR ENHANCED MACHINABILITY
9	134	ANALYSIS OF TOOL LIFE IN HIGH-SPEED MICRO TURNING UNDER DIFFERENT COOLING CONDITIONS
10	161	EFFECT OF TEXTURE ON RECOATER FOR ENHANCED POWDER LAYER QUALITY FOR POWDER BED FUSION PROCESS
11	163	AI-ENHANCED EXPERIMENTAL STUDY OF UNDERWATER FIBER LASER PROCESSING FOR MICRO-CHANNELLING IN PMMA
12	189	SUSTAINABLE APPROACH FOR COMPARATIVE ANALYSIS ON MACHINING EFFECTS OF MILD STEEL AND ALLOY STEEL USING TAGUCHI DESIGN BASED PARETO OPTIMIZATION
13	190	APPLICATION OF THE ANALYTICAL HIERARCHY PROCESS FOR EXPLORING OPTIMAL WELDABILITY DURING TIG WELDING OF AL-7.7%SiC COMPOSITE
14	201	ENHANCING MECHANICAL AND TRIBOLOGICAL PERFORMANCE OF WIRE ARC ADDITIVE MANUFACTURED ER70S-6 STEEL WALLS THROUGH ARC MODE SELECTION
15	205	EXPERIMENTAL STUDY ON TURNING USING BIO-FRIENDLY CUTTING FLUID
16	209	LASER JOINING OF METAL-POLYMER HYBRID STRUCTURES: INSIGHTS INTO FORMATION QUALITY AND DEFECTS
17	213	ENHANCED MACHINING PERFORMANCE BY ACHIEVING LOW ELECTRODE WEAR IN DIE-SINK EDM OF AL-WC COMPOSITES
18	214	OPTIMIZATION OF WEDM PROCESS PARAMETERS FOR AL 7075 USING AHP-TOPSIS HYBRID TECHNIQUE
19	233	EXPERIMENTAL STUDY ON CUTTING FORCE AND RAKE SURFACE TEMPERATURE UNDER SUSTAINABLE CONDITION

Sl No	Paper ID INCOM26-	Paper Title
20	255	MODELING AND SIMULATION OF TRANSIENT THERMAL HISTORY IN TIG WELDING OF AISI 304 STAINLESS STEEL
21	257	EXPERIMENTAL INVESTIGATION AND OPTIMIZATION OF ABRASIVE WATER JET MACHINING ON BOROSILICATE GLASS
22	267	A COMPARATIVE STUDY ON FRICTION STIR LAP WELDING OF SIMILAR AND DISSIMILAR JOINTS USING AL 6061-T6 ALLOY
23	270	ENERGY EFFICIENT WIRE-EDM OF Ti-6AL-4V: OPTIMIZATION TOWARDS SUSTAINABLE MACHINING PERFORMANCE

List of Accepted Papers: Track 5 (Material Science and Engineering)

Sl No	Paper ID INCOM26-	Paper Title
1	21	INFLUENCE OF WEAVE ARCHITECTURES ON TENSILE PERFORMANCE BY VARYING CARBON AND GLASS FIBRE PLIES
2	22	EFFECT OF DIFFERENT FIBRE ARCHITECTURE ON FLEXURAL AND HARDNESS BEHAVIOUR OF LAMINATED E-GLASS COMPOSITES
3	24	FABRICATION OF CARBON GLASS HYBRID COMPOSITES FOR ENHANCED DUCTILITY
4	27	INVESTIGATION ON THERMO-MECHANICAL PROPERTIES OF GRAPHENE-CARBON NANOTUBE/THERMOPLASTIC POLYURETHANE HYBRID NANOCOMPOSITES
5	32	PROPERTIES OF ALUMINIUM-BASED NANOCOMPOSITES DEVELOPED USING LIQUID ROUTE
6	34	NANOMECHANICAL BEHAVIOUR OF POLYMER DERIVED SILICON OXYCARBIDE THIN FILMS
7	36	TENSILE, HARDNESS, FRACTURE TOUGHNESS AND FATIGUE CRACK GROWTH CHARACTERISTICS OF THERMAL AGED ALLOY 617M BASE AT 710°C TEST TEMPERATURE
8	37	EVALUATION OF ELASTIC CONSTANTS OF ARTIFICIALLY AGED 6061-T6 ALUMINUM ALLOY USING ULTRASONIC TESTING
9	41	MECHANICAL BEHAVIOUR OF EPOXY-WASTE RUBBER COMPOSITE INCORPORATED WITH DIFFERENT ADDITIVES
10	47	ACCELERATING FATIGUE SIMULATIONS USING AN IMPLICIT CYCLE SCALE INTEGRATOR
11	62	INVESTIGATION OF SURFACE ROUGHNESS AND MATERIAL REMOVAL RATE DURING UNDERWATER FIBER LASER TEXTURING ON AZ31B MAGNESIUM ALLOY
12	72	"FABRICATION AND CHARACTERIZATION OF AZ31-WC-GR HYBRID NANOCOMPOSITES "
13	74	A BRIEF REVIEW ON TRANSITION METAL OXIDES FOR OPTOELECTRONIC APPLICATIONS
14	75	VISCOELASTIC BEHAVIOUR OF METHYL CELLULOSE BASED ALUMINA INKS FOR DIRECT INK WRITING
15	91	THE EFFECT OF TRANSITION METAL INCORPORATION ON THE THERMAL AND DIELECTRIC RESPONSES OF ZINC-PHOSPHATE TERNARY GLASSY SYSTEM
16	93	MODELLING AND OPTIMIZATION OF MICROHARDNESS USING GENETIC ALGORITHM OF ELECTROLESS NI-PTFE-P COMPOSITE COATING OVER MEDICAL GRADE STAINLESS STEEL
17	98	GELATION CHARACTERISTICS OF HPMC BASED ALUMINA INK
18	103	WEAR PERFORMANCE OF AZ31-B4C COMPOSITES USING TAGUCHI METHODOLOGY
19	110	OPTICAL AND RADIATION SHIELDING FEATURES OF DY3+ ION DOPED ZINC-LEAD-BORATE GLASSES

Sl No	Paper ID INCOM26-	Paper Title
20	120	ABRASIVE WEAR BEHAVIOR OF AL-WC NANO-COMPOSITE
21	123	IMPACT OF NI INCORPORATION ON MICROSTRUCTURAL EVOLUTION AND MAGNETIC RESPONSE OF CU-CO ALLOY
22	124	INVESTIGATIONS OF IMPACT STRENGTH IN FRICTION STIR WELDED AA7075-T6 AND A384.0 T-6 ALUMINUM ALLOYS OF BUTT JOINT
23	125	LASER-BASED FABRICATION AND MECHANICAL CHARACTERIZATION OF AISI 1018-PET-AISI 1018 MPM SANDWICH COMPOSITE
24	126	A PRELIMINARY ANN MODEL FOR THE PREDICTION OF MICROHARDNESS OF ELECTROLESS NI-B COATING AND INVESTIGATION OF TRIBO-MECHANICAL BEHAVIOUR
25	130	PARTICLE EROSION OF ELECTROLESS NI-B-W COATING
26	138	EFFECT OF POST DEPOSITION HEAT-TREATMENT ON THE TRIBOLOGICAL BEHAVIOR OF NI-P-W-RGO COATINGS
27	139	ROLE OF HEAT TREATMENT ON TRIBOLOGICAL BEHAVIOR OF AL-SIC COMPOSITES
28	152	SUSTAINABLE ALUMINUM COMPOSITES: ENHANCED PROPERTIES WITH CONCH SHELL REINFORCEMENT VIA STIR CASTING
29	160	QUANTITATIVE ANALYSIS OF ROUGHNESS EVOLUTION OF ADDITIVE MANUFACTURED SS316L USING DUAL-STAGE ELECTROPOLISHING (DSEP)
30	162	EXPERIMENTAL ANALYSIS OF PULSED ECDM PARAMETERS FOR MICROMACHINING BOROSILICATE GLASS
31	165	NANOINDENTATION ANALYSIS OF SYNTHESIED YTTRIA STABILISED ZIRCONIA TOUGHENED ALUMINA CERAMICS.
32	176	CORROSION BEHAVIOUR OF ELECTROLESS NI-B-W-MO COATINGS
33	181	TRIBOLOGICAL AND CORROSION PERFORMANCE OF COCONUT FIBER-REINFORCED EPOXY HYBRID COMPOSITES FOR SUSTAINABLE ENGINEERING APPLICATIONS
34	182	COMPARATIVE STUDY ON TRIBOLOGICAL PROPERTIES OF ELECTROLESS AND REVERSE PULSE PLATED NI-CO-P COATING
35	185	CHARACTERIZATION OF AUTOCATALYTIC BINARY AND DUPLEX DEPOSITS
36	188	FRACTURE RESISTANCE AND CRACK GROWTH IN SODALIME GLASS UNDER INDENTATION LOADING
37	204	EFFECTS OF GARNET SAND ADDITION ON TRIBOLOGICAL PROPERTIES OF TRIAXIAL CERAMICS
38	228	MECHANICAL CHARACTERIZATION OF MICROALLOYED 6061AL ALLOYS FOR THE POTENTIAL APPLICATION AS UNDERWATER SHIP HULL
39	229	NUMERICAL THERMAL ANALYSIS OF FRICTION STIR WELDED 5052AL ALLOY
40	230	INVESTIGATING THE EFFECTS OF PROCESS PARAMETES ON TENSILE PROPERTIES OF FRICTION STIR WELDED 5052AL ALLOY

Sl No	Paper ID INCOM26-	Paper Title
41	234	Sustainable Polymer Composites from Fabric Waste: A Study on Flexural Strength and Corrosion Durability
42	235	MAGNESIUM-BASED COMPOSITES: RESEARCH LANDSCAPE, EMERGING TRENDS, AND FUTURE DIRECTIONS
43	239	COMPARATIVE HARDNESS ANALYSIS OF COATED AND UNCOATED 3D PRINTED ABS SUBSTRATES
44	242	MECHANICAL CHARACTERISTICS OF THE JOHNSON-COOK MATERIAL PARAMETER FOR COPPER MK-8 (HEATING UP TO 450OC AND HOLDING FOR 35 MINUTES) USING FEM
45	243	EFFECT OF TEST PARAMETERS ON THE TRIBOLOGICAL PERFORMANCE OF 3D PRINTED ABS PARTS
46	245	DYNAMIC STRAIN AGEING BEHAVIOUR OF 316L AUSTENITIC STAINLESS STEEL DURING TENSILE LOADING
47	251	EFFECT OF PRINTING PARAMETERS ON TRIBOLOGICAL BEHAVIOUR OF 3D PRINTED PLA AND ABS COMPONENTS
48	259	"VARIATIONS IN TORQUE UNDER DRILLING OPERATION OF AL-TIB ₂ METAL MATRIX COMPOSITES"
49	265	COMPARISON OF PLATEAU STRESS AND MODULUS OF ELASTICITY OF CLOSED CELL ALUMINIUM FOAM AT DIFFERENT STRAIN RATES

List of Accepted Papers: Track 6 (Mechatronics, Control & Robotics)

Sl No	Paper ID INCOM26-	Paper Title
1	29	CAUDAL FIN ACTUATION AND CONTROL OF A ROBOTIC FISH
2	42	FREE FLOATING SPACE MANIPULATORS : COMPARATIVE ANALYSIS BETWEEN FEW CONTROL METHODS
3	64	MOTION TRACKING OF ELECTRICALLY ACTUATED STEWART PLATFORM BY ADAPTIVE PI CONTROLLER TUNED WITH FUZZY RULES FOR INDUSTRIAL MANUFACTURING APPLICATIONS
4	89	TORQUE VECTORING-BASED ACTIVE YAW CONTROL FOR ENHANCED VEHICLE HANDLING AND STABILITY USING A DIGITAL TWIN FRAMEWORK
5	104	ENHANCED POSITION TRACKING OF ELECTRO-HYDRAULIC ACTUATOR USING CASCADE PID CONTROL
6	111	DESIGN AND ANALYSIS OF VARIABLE DISPLACEMENT RADIAL-PISTON PUMP UNDER WITH AND WITHOUT SILENCING GROOVE VALVE PLATE
7	121	DYNAMIC RESPONSE OF A LOAD SENSING AXIAL PISTON PUMP IN A BLEED-OFF CIRCUIT CONFIGURATION: AN EXPERIMENTAL EXAMINATION
8	159	OPTIMAL PID CONTROLLER DESIGN FOR LVAD BASED ON LINEAR OPTIMIZATION METHOD
9	177	SMART DRONE-BASED MEASUREMENT SYSTEM FOR SPATIAL AND TEMPORAL AIR QUALITY MONITORING
10	199	CONSTRUCTION OF AN ANALOG CIRCUIT FOR WIND TURBINE BLADE FLUTTER SIMULATIONS
11	218	A STUDY OF DYNAMIC ANALYSIS AND NAVIGATION FOR AUTONOMOUS UNDER WATER VEHICLE
12	222	VIBRATION ANALYSIS AND CONTROL OF VERTICAL HYDRAULIC ROTOR BEARING SYSTEM WITH NON-LINEARITIES
13	227	HYBRID DDPG-BASED REINFORCEMENT LEARNING WITH PI CONTROL FOR ELECTROHYDRAULIC ACTUATION SYSTEMS

List of Accepted Papers: Track 7 (Energy, Natural Resource & Sustainable Development)

Sl No	Paper ID INCOM26-	Paper Title
1	15	NEURAL NETWORK-DRIVEN AERODYNAMIC PROFILING OF MODIFIED SAVONIUS TURBINE FOR URBAN ENERGY
2	44	OCEAN THERMAL ENERGY CONVERSION (OTEC) THROUGH R1234YF-R600A MIXTURE
3	49	A ENERGETIC AND EXERGETIC PERFORMANCE ANALYSIS OF SELECTED SOLID FUELS FOR BOILER APPLICATIONS
4	50	THERMAL BEHAVIOUR OF A LI-ION BATTERY DURING ITS CONTINUOUS CHARGING AND DISCHARGING
5	54	MICROWAVE DRIVEN SUSTAINABLE SYNTHESIS OF 5-HMF FROM COFFEE GROUNDS USING DEEP EUTECTIC SOLVENT AND METAL SALT CATALYST
6	61	SIMULATION PERFORMANCE ANALYSIS OF LOAD SENSING AXIAL PISTON PUMP FOR DRIVING A ROTARY ACTUATOR
7	63	INFLUENCE OF FLOW REGIME TRANSITIONS ON LOCAL ENTROPY GENERATION IN HORIZONTAL TUBES
8	69	DESIGN AND INNOVATION IN A NEXT-GENERATION PORTABLE ELECTRIC TILLER FOR SUSTAINABLE SMALL-SCALE FARMING
9	76	INVESTIGATION ON PERFORMANCE PARAMETERS OF ZN ₂ SnO ₄ ELECTRON TRANSPORT LAYER OF LEAD-FREE PEROVSKITE SOLAR CELL
10	81	PFAS REMOVAL FROM GROUNDWATER THROUGH TiO ₂ /ZEOLITE AND H ₂ O ₂ PHOTOCATALYSIS BASED ON SOLAR ENERGY
11	86	GREEN STEPS: A SIMULATION – BASED APPROACH TO SUSTAINABLE POWER USING ELECTROMECHANICAL FOOTSTEPS
12	87	SMART ROOFING WITH PCM: A SUSTAINABLE TACTIC IN MODERN BUILDINGS FOR PASSIVE COOLING
13	96	SUSTAINABLE OPTIMIZATION OF INDUSTRIAL FLUID DISPERSION SYSTEMS USING INTEGRATED VALUE ENGINEERING, SIMULATION, AND LIFE CYCLE ASSESSMENT FRAMEWORKS
14	112	EFFECT OF REACTIVE COUPLING ON SYNCHRONIZATION OF TWO DISSIMILAR PULSE COMBUSTORS
15	117	WASTE-TO-WEALTH: ECO-FRIENDLY CHEMOCATALYTIC CONVERSION OF POTATO PEELS INTO SUSTAINABLE BIOETHANOL
16	135	A VALIDATED PIEZOELECTRIC HARVESTING SYSTEM FOR SELF-SUSTAINING WIRELESS STRUCTURAL HEALTH MONITORING SENSORS
17	145	PREDICTION AND REDUCTION OF A BUILDING'S CARBON FOOTPRINT
18	166	THERMODYNAMIC AND ENTROPY GENERATION ANALYSIS OF SUPERCRITICAL CO ₂ IN A MINI TUBE
19	174	CONFIRMING SUSTAINABLE EXISTENCE OF AN ENGINEERING INSTITUTE IN INDIA BY CARBON EQUIVALENT CALCULATION
20	191	ASSESSING PEANUT BIODIESEL AS A SUSTAINABLE FUEL: AN EXPERIMENTAL AND NUMERICAL STUDY ON DIESEL ENGINE EMISSIONS

Sl No	Paper ID INCOM26-	Paper Title
21	195	IMPACT OF PV PENETRATION ON PV WIND ELECTROLYSER POWER SYSTEM FOR ELECTRIC AND HYDROGEN VEHICLES
22	196	STRUCTURAL ANALYSIS OF OFFSHORE WIND TURBINES: ENHANCING PERFORMANCE AND RELIABILITY
23	208	THERMODYNAMIC ANALYSIS OF ALTERNATIVE REFRIGERANTS TO FIND A REPLACEMENT FOR R410A
24	221	CATALYTIC CO-PYROLYSIS OF WASTE TIRES AND SUGARCANE BAGASSE FOR ENHANCED BIO-OIL PRODUCTION USING ZEOLITE ZSM-5 AND CALCIUM OXIDE
25	249	POTENTIAL OF WFS, MARBLE WASTES AND PLASTIC WASTE TO BE USED IN CONCRETE PAVING BLOCKS
26	252	UNCERTAINTY-AWARE EV CHARGING LOAD FORECASTING USING PROBABILISTIC DEEP TRANSFER LEARNING
27	254	SUSTAINABLE INDUSTRIAL PROCESSES (SDG 9.4): DISCRIMINANT ANALYSIS FOR REJECTION PREDICTION IN DUCTILE IRON FITTINGS
28	264	MIXED MECHANISM REDUCTION KINETICS STUDY OF TUNGSTEN MINE TAILINGS



List of Accepted Papers: Track 8 (Mechanical Engineering Education)

Sl No	Paper ID INCOM26-	Paper Title
1	149	A CASE STUDY ON THE IMPACT OF CLASS XII AND WEST BENGAL JOINT ENTRANCE EXAMINATION (WBJEE) RESULTS ON THE ENGINEERING MATHEMATICS COURSES
2	210	THE ANALYSIS AND ASSESSMENT OF QUESTION BANK ON THE PERFORMANCE OF STUDENTS
3	216	EVALUATION OF COURSE OUTCOME (CO) ATTAINMENT: A CASE STUDY IN MECHANICAL ENGINEERING COURSES
4	226	THE TRANSFORMATIVE ROLE OF ARTIFICIAL INTELLIGENCE IN ENGINEERING EDUCATION: ALTERNATIVE OR COLLABORATIVE COMPANION

List of Accepted Papers: Track 9 (Machine Learning and Data Science)

Sl No	Paper ID INCOM26-	Paper Title
1	55	LEARNING FLOW DYNAMICS: DEEP NEURAL NETWORKS FOR PREDICTION OF CFD-GENERATED FIELD IMAGES OF FORCED CONVECTION IN U-BEND TUBES
2	65	MODELING AND OPTIMIZATION OF SURFACE ROUGHNESS OF ELECTRODEPOSITED NICKEL COATING USING TAGUCHI AND BONOBO OPTIMIZER
3	79	LOGSYN: A FEW-SHOT LLM FRAMEWORK FOR STRUCTURED INSIGHT EXTRACTION FROM UNSTRUCTURED GENERAL AVIATION MAINTENANCE LOGS
4	83	REINFORCEMENT LEARNING FOR SELF-HEALING MATERIAL SYSTEMS
5	115	ENTROPY GENERATION AND FLOW REGIME MAPPING IN HORIZONTAL TUBES: A MACHINE LEARNING APPROACH
6	178	MACHINE LEARNING-GUIDED THERMAL OPTIMIZATION OF ASYMMETRIC HEATING IN A NANOFLUID-FILLED ENCLOSURE
7	179	MACHINE LEARNING PREDICTION OF HEAT TRANSFER IN A PARTIALLY HEATED NANOFLUID-FILLED ENCLOSURE.
8	187	A HYBRID CFD-ML APPROACH FOR RECONSTRUCTING 3D FIN THERMAL FIELDS FROM 2D SIMULATION
9	203	EXCAVATOR HEALTH AND PERFORMANCE IMPROVEMENT BY REMOTE MONITORING AND ANALYSIS OF DATA
10	225	COMPLEX NETWORK-BASED REGIME IDENTIFICATION OF FROSTING ON SHPB-COPPER SURFACE

List of Accepted Papers: Track 10 (Interdisciplinary & Others Emerging Trends in Mechanical Engineering)

Sl No	Paper ID INCOM26-	Paper Title
1	5	COUPLED THERMO-FLUID MODEL FOR AXIAL PISTON PUMPS: ANALYSIS OF ENERGY LOSSES INFLUENCED BY FLUID PROPERTIES AND OPERATING CONDITIONS
2	12	PHYSICS-INFORMED MANUFACTURING: PINNS FOR HYDROFORMING PROCESS MODELLING
3	19	DESIGN AND ASSESSMENT OF THE MECHANICAL RESPONSES OF GYROID SCAFFOLD
4	31	EXPLORING INTERDISCIPLINARY AND SUSTAINABLE INNOVATION IN MECHANICAL ENGINEERING: A BIBLIOMETRIC ANALYSIS
5	33	LASER CLADDING OF WHEELS AND RAILS: A REVIEW OF MECHANICAL PERFORMANCE
6	39	A FINITE ELEMENT-BASED PARAMETRIC STUDY ON HYDRODYNAMIC RESPONSE OF INFINITE RESERVOIR
7	56	CELLULAR RESPONSE WITHIN A HAP SCAFFOLD THROUGH MULTISCALE MODELLING
8	99	AUTOMATED MIDBRAIN MRI SEGMENTATION USING ATTENTION-ENHANCED U-NET MODELS FOR REGION-SPECIFIC MEDICAL ANALYSIS
9	100	APPLICATION OF RESISTIVITY SURVEY FOR GROUNDWATER POTENTIAL ASSESSMENT ALONG THE DAMODAR RIVER BANK IN ASANSOL REGION
10	107	THE CONFLICT RESOLUTION USING EVAPORATING CLOUD: AN IMPLEMENTATION OF CIRCULAR ECONOMY IN THE STEEL INDUSTRY
11	108	INFLUENCE OF HEMATOCRIT AND STENOSIS MORPHOLOGY ON BLOOD FLOW IN CORONARY ARTERIES: A COMPUTATIONAL STUDY
12	109	IMPACT OF HEART RATE AND LESION MORPHOLOGY ON CORONARY FLOW AND DIAGNOSTIC INDICES: A NUMERICAL STUDY
13	133	A CRITICAL EVALUATION OF THE SUBMODELING TECHNIQUE FOR THERMAL FATIGUE LIFE PREDICTION IN BALL GRID ARRAYS: A CASE STUDY ANALYSIS
14	142	NONLINEAR QUANTUM DYNAMICS CONTROL SYSTEMS FOR DNA HELIX
15	147	MECHANICAL CHARACTERIZATION OF BBVP GLASS NANOCOMPOSITES: NANOINDENTATION AND FRACTURE ANALYSIS
16	150	INVESTIGATING THE MECHANICAL AND ELECTRICAL PROPERTIES OF SUNDARBANS MUD CRAB DERIVED CHITOSAN AND CITRIC ACID-PVDF CROSSLINKED FILM"
17	171	HIGH COMPRESSION STRENGTH STRUCTURES USING A TSP BASED CONTINUOUS TOOLPATH
18	194	MACHINE LEARNING-BASED OPTIMIZATION OF WIRE EDM PARAMETERS FOR INCONEL-718: A COMPARATIVE STUDY
19	231	FINITE ELEMENT ANALYSIS OF A TOPOLOGY OPTIMISED AUXETIC POROUS KNEE IMPLANT

Sl No	Paper ID INCOM26-	Paper Title
20	232	MULTI-OBJECTIVE OPTIMIZATION OF TI-6AL-4V TURNING USING TAGUCHI-GRA AND SURROGATE MODEL-BASED PARETO ANALYSIS
21	240	ELECTRIC FIELD MEDIATED DROPLET BREAKUP AT PRESSURE DRIVEN FLOW FOR DIFFERENT ASYMMETRIC BIFURCATED MICROCHANNEL
22	247	PHYSICS-INFORMED NEURAL NETWORK FRAMEWORK FOR OPTIMIZING PCM-BASED THERMAL ENERGY STORAGE SYSTEMS
23	253	QUANTUM-INSPIRED ALGORITHMS FOR MULTI-RESPONSE PROCESS OPTIMIZATION IN STRUCTURAL WELDING APPLICATIONS
24	260	DYNAMICS OF A COMPOUND DROPLET AT ROUNDED CORNER BIFURCATED MICROCHANNEL UNDER POISEUILLE FLOW
25	268	APPLICATION OF ANN SIMULATION ON THE PERFORMANCE OF SOLAR CAVITY COLLECTOR