

**2ND INTERNATIONAL CONFERENCE
ON RECENT ADVANCEMENTS IN MATERIALS, DESIGN AND MANUFACTURING-2023 (ICRAMDM-2023)
(MECHANICAL ENGINEERING SECTION, UNIVERSITY POLYTECHNIC, AMU ALIGARH)**

SCHEDULE (23RD DECEMBER 2023)

10:00 AM - 11:00 AM		INAUGURAL SESSION	ASSEMBLY HALL, UNIVERSITY POLYTECHNIC
11:30 AM - 12:00 PM		PLANNERY SESSION -1 (OFFLINE MODE) PROF. D.P. AGARWAL, EX-CHAIRMAN, UPSC, NEW DELHI TOPIC: INDUSTRY 5.0 MODERATOR: DR. SYED IMRAN SHAFIQ	ASSEMBLY HALL, UNIVERSITY POLYTECHNIC
12:15 PM – 1:30 PM		TECHNICAL SESSION -1 (OFFLINE MODE) SESSION CHAIR 1: DR. KAMAL KUMAR MITTAL SESSION CHAIR 2: DR. SHAHNAWAZ MOHSIN	ASSEMBLY HALL, UNIVERSITY POLYTECHNIC
S. NO.	PAPER ID	PAPER TITLE	AUTHORS
1	SR1002	PREDICTIVE-REACTIVE CONTROL OF FLEXIBLE MANUFACTURING SYSTEM WITH ROUTING FLEXIBILITY	MOHD SHAABAN HUSSAIN
2	SR1005	STUDY THE EFFECT OF ROUTE PENALTY ON FMS CONSIDERING ROUTING FLEXIBILITY	MOHD. MOHSIN KHAN
3	SR1039	RECENT ADVANCEMENT IN C.I. ENGINE PERFORMANCE WITH BIODIESEL FUELS	SANTOSH KUMAR AWASTHI
4	SR1014	THERMAL ANALYSIS OF MICRO-CHANNEL INTERNAL COOLING IN CUTTING TOOLS: A MACHINE LEARNING APPROACH	SYED MOHD HAMZA

5	SR1018	POWDER BED FUSION TECHNIQUES IN METAL 3D PRINTING: A REVIEW	MOHAMMAD AFZAL
6	SR1029	RSM BASED DESIRABILITY OPTIMIZATION FOR FDM PRINTED POLY LACTIC ACID PARTS	HUSSAIN VMS
7	SR1038	A COMPREHENSIVE ANALYSIS OF LPG BURNER WITH POROUS MEDIUM COMBUSTION: ADVANCES, CHALLENGES, AND FUTURE PERSPECTIVES	ANUPRIYA SAXENA
8	SR10059	A DETAILED STUDY OF FRICTION STIR WELDING: FUNDAMENTALS, APPLICATIONS, AND FUTURE PERSPECTIVES	ATISHEY MITTAL
9	SR1065	SOCIAL SUSTAINABILITY PRACTICES IN LEATHER INDUSTRIES: CATEGORIZATION BASED ON EXPERTS PERSPECTIVES	PANKAJ KUMAR TYAGI
10	SR1035	PERFORMANCE EVALUATION OF HARDWARE INDUSTRY: A DATA ENVELOPMENT ANALYSIS (DEA) APPROACH	MOHAMMAD FAIZAN KHAN
1:30 PM - 2:30 PM			LAWNS UNIVERSITY POLYTECHNIC
2-30 PM – 3:15 PM	KEYNOTE SESSION -2 (OFFLINE MODE) PROF. PARDEEP KR JHA, DEPT OF MECH & IND. ENGG., IIT ROORKEE TOPIC: DEVELOPMENT OF HYBRID METAL MATRIX COMPOSITES MATERIALS: ISSUES AND CHALLENGES MODERATOR: DR. ISRAR EQUBAL		ASSEMBLY HALL, UNIVERSITY POLYTECHNIC
3:30 PM – 4:30 PM	TECHNICAL SESSION-2 (OFFLINE MODE) SESSION CHAIR 1: DR. K P SINGH SESSION CHAIR 2: PROF. FAISAL TALIB		ASSEMBLY HALL, UNIVERSITY POLYTECHNIC
S. NO.	PAPER ID	PAPER TITLE	AUTHORS

1	SR1040	HARDNESS ASSESSMENT OF NI55.65TI-SHAPE MEMORY ALLOY USING ELECTRIC DISCHARGE MACHINING	ABDUL FAHEEM
2	SR1043	ADVANCING MANUFACTURING INTELLIGENCE: A DECISIONAL DNA BASED SMART INFORMATION SYSTEM FOR SEMI-AUTOMATIC MANUFACTURING ENVIRONMENT	SYED IMRAN SHAFIQ
4	SR1015	A COMPREHENSIVE ANALYSIS OF LPG BURNER WITH POROUS MEDIUM COMBUSTION: ADVANCES, CHALLENGES, AND FUTURE PERSPECTIVES	DR. KHAN ARIF NAFEEES
5	SR1016	CONSTRAINING MASS OF THE WIMP DARK MATTER WITH THE HELP OF GRAVITATIONAL WAVES POSTERIOR	DR. ABDUL QUDDUS
6	SR1046	SWITCHING TO ELECTRIC VEHICLES: IMPACT	MD. ZAID ALI
7	SR1041	REMOVAL OF PHARMACEUTICAL WASTE BY ADVANCE OXIDATION PROCESS	RAO FARAZ WARIS
8	SR1042	UNLEASHING THE POTENTIAL: AI TOOLS AND CHATGPT FOR ADVANCING COMMUNICATION SKILLS AMONG SOCIOECONOMICALLY DISADVANTAGED ENGINEERING STUDENTS	SYADDA FAHEEM
9	SR1045	ENHANCEMENT OF EVAPORATIVE TO CONVECTIVE HEAT TRANSFER COEFFICIENT RATIO IN A SOLAR STILL USING AL ₂ O ₃ AND SiO ₂ NANOFLUIDS	FAROOQUE AZAM
10	SR1008	CONFIGURATIONS AND PERFORMANCE ISSUES OF RECONFIGURABLE MANUFACTURING SYSTEM	KAMAL KUMAR MITTAL
11	SR1067	ENHANCING EFFICIENCY IN ADVANCED MANUFACTURING THROUGH IOT INTEGRATION	S. MEESUM RAZA ZAIDI1

SCHEDULE (24TH DECEMBER 2023)

KEYNOTE SESSION -3 (OFFLINE MODE)			
10:00 AM – 10:30 AM		PROF S S DHAMI, NITTTR, CHANDIGARH TOPIC: VIRTUAL REALITY IN MANUFACTURING MODERATOR: DR YUNUS KHAN	ASSEMBLY HALL, UNIVERSITY POLYTECHNIC
TECHNICAL SESSION-1 (OFFLINE MODE)			
10:45 AM – 11:15 AM		SESSION CHAIR 1: MS. ANUPRIYA SAXENA SESSION CHAIR 2: MR. MOHD. MOHSIN KHAN	ASSEMBLY HALL, UNIVERSITY POLYTECHNIC
S. NO.	PAPER ID	PAPER TITLE	AUTHORS
1	SR1011	CARBON DIOXIDE CAPTURE AND ITS ELECTROCHEMICAL REDUCTION STUDY IN DEEP EUTECTIC SOLVENT (DES) VIA E	DR. SHAHLA IMTEYAZ
2	SR1017	ROLE OF CLAY SUPPORTED TIO2 NANOCOMPOSITE IN THE EXTRACTION TECHNIQUES OF PHARMACEUTICALS FROM WATER	JAMAL AHMAD KHAN
3	SR1028	ELECTROCHEMICAL AND TRANSPORT STUDIES OF POLYMER BASED HYBRID MEMBRANES	MOHAMMAD MUJAHID ALI KHAN
5	SR1037	ASSESSMENT OF BUILDING MATERIALS PERFORMANCE FOR ENERGY CONSERVATION IN ENVELOP RETROFITTING OF HOSPITAL BUILDING	ZEESHAN AHAMAD ANSARI
6	SR1047	SUSTAINABLE BUILDING THROUGH ENERGY EFFICIENT MATERIALS AND DESIGN CONCEPTS	HUMA MATLOOB
7	SR1050	A REVIEW: EMERGING TRENDS OF PLASTICS FOR FOOD PACKAGING IN INDIA	SADAF AHMAD

8	SR1052	A REVIEW ON EMERGING TRENDS OF PLASTICS MATERIALS IN COMPUTER HARDWARE	S M ZAKARIYA
9	SR1054	SYNTHESIS AND CHARACTERIZATION OF ZNO-CUO NANO COMPOSITE MATERIALS FOR FABRICATION OF DYE SENSITIZED SOLAR CELLS	DR. QURRATULAIN
10	SR1055	RECENT DEVELOPMENTS IN POLYMER MATERIALS FOR 3D PRINTING	ANIS AHEMAD ANSARI
11	SR1056	GEOPOLYMER CONCRETE AS A CLEAN AND SUSTAINABLE MATERIAL: AN OVERVIEW ON MECHANICAL PROPERTIES	AHMAD FUZAIL HASHMI
12	SR1063	A COMPREHENSIVE EXPLORATION OF THE HYBRID ELECTROCHEMICAL DISCHARGE MACHINING (ECDM) PROCESS	KUNAL
13	SR1032	IOT BASED SMART HELMET WITH ADVANCE MOTOR BIKE UNIT FOR ROAD ACCIDENTS	MD AZHAR IMAM

11:15 AM – 12:30 AM		TECHNICAL SESSION-2 (OFFLINE MODE) SESSION CHAIR 1: DR. S K AWASTHI SESSION CHAIR 2: DR. FARRUKH HAFEEZ	SMART CLASS ROOM, UNIVERSITY POLYTECHNIC
S. NO.	PAPER ID	PAPER TITLE	AUTHORS
1	SR1004	EXPERIMENTAL STUDY OF HANDLE SHAPE ON HAND DRILL PERFORMANCE	KISHWAR JAHAN
2	SR1053	DEVELOPMENT OF AN ARDUINO-DRIVEN PRIORITY-BASED POWER MANAGEMENT SYSTEM	MOHD TARIQ SAMI
3	SR1057	MODELLING OF LAMINATED COMPOSITE PLATES FOR BUCKLING ANALYSIS	S M SHAUKAT RAFI

4	SR1066	A DETAILED STUDY OF 3D SCANNING TECHNOLOGY	SAIM HASAN
5	SR1072	EMERGING TRENDS OF POLYMER MATERIALS FOR FOOTWEAR APPLICATIONS IN INDIA	ASIF JAVED SIDDIQUI
6	SR1074	EVALUATION AND COMPARISON OF THERMAL CHARACTERISTICS OF WATER BASE OF ZNO & SIO ₂ NANO FLUIDS	AJIV ALAM KHAN
7	SR1075	INDOOR ENVIRONMENT QUALITY AND USER SATISFACTION IN CLASSROOMS	ASIF ALI
8	SR1007	DIELECTRIC FLUIDS FOR ELECTRICAL DISCHARGE MACHINING	KUNAL
9	SR1033	SOLUTION BLENDING, CASTING, THERMO-MECHANICAL PROPERTIES AND SURFACE MORPHOLOGY OF EPOXY RESIN-POLYCARBONATE BLENDS	MOHD GULAM WARIS KHAN & ABDUL FAHEEM
10	SR1076	EFFECT OF FIBRE GEOMETRY AND PLACTICIZER ON FIBRE STRENGTH REINFORCED CONCRETE	SYED MOHAMMAD TALHA
11	SR1077	EXPERIMENTAL ANALYSIS OF THE BEHAVIOUR OF MULTIPLE ADHESIVE ON THE SINGLE LAP JOINT STRENGTH	DR. MOHD ASIF HASAN
1:00 PM – 1:30 PM		KEYNOTE SESSION -3 (ONLINE MODE) PROF LAZREG HADJI UNIVERSITY OF TAIRET, ALGERIA TOPIC: INTRODUCTION OF COMPOSITE MATERIALS - AN OVERVIEW MODERATOR: DR YUNUS KHAN	WEBLINK TO BE SHARED LATER
2:00 AM – 3:30 PM		TECHNICAL SESSION-3 (ONLINE MODE) SESSION CHAIR 1: DR P S RAO SESSION CHAIR 2: DR WASIFULLAH KHAN	WEBLINK TO BE SHARED LATER
1	SR1019	COMPARE THE PROPERTIES OF COMPOSITE MATERIAL BY DATE LEAVES WITH DIFFERENT ADDITIVES	SYED MOHAMMAD SAAD

2	SR1021	BALLISTIC PERFORMANCE OF POLYCARBONATE PLATE SUBJECTED TO TRUNCATED CONE PROJECTILE	AFSAR HUSAIN
3	SR1027	MULTI-OBJECTIVE OPTIMIZATION OF HOT FORGING OF MEDIUM CARBON MICRO-ALLOYED STEEL USING GREY-FUZZY ME	RAJKUMAR OHDAR
4	SR1022	RESEARCH PROGRESS TOWARDS THE MACHINING OF TITANIUM ALLOY USING CNC MILLING: A TECHNICAL REVIEW	MITHUN KUMAR
5	SR1026	A CRITICAL REVIEW ON ELECTRO-DISCHARGE MACHINING OF NON-CONDUCTIVE MATERIALS	AZHAR EQUBAL
6	SR1030	ECONOMIC ANALYSIS OF IMPLEMENTING GREEN MANUFACTURING PRACTICES IN AUTOMOTIVE SECTOR	AHRAR AHMAD ABRAR AHMAD
7	SR1031	OPTIMIZATION OF MACHINING PROCESS ON COATED TUNGSTEN CARBIDE ELECTRODE TOOL AND TITANIUM ALLOY WORK	NEWTON KUMAR SINGH
8	SR1049	PRODUCTION CONTROL USING FUZZY LOGIC BASED AI CONTROLLERS IN AN FMS WITH VARIABLE DEMAND	RABNAWAZ AHMAD
9	SR1051	DESIRABILITY BASED STUDY ON OPTIMIZING COMPRESSIVE BEHAVIOUR OF ABS P400 PLASTIC PARTS	HRISHIKESH
10	SR1036	BUCKLING ANALYSIS OF FUNCTIONALLY GRADED BEAMS WITH DIFFERENT BOUNDARY CONDITIONS	MOHD TAHA PARVEZ
11	SR1061	WEAR ANALYSIS OF HOT FORGING DIES USING FINITE ELEMENT ANALYSIS	MOHAMMAD MUKHTAR ALAM
12	SR1062	EFFECT OF DISTRIBUTION SHAPE OF POROSITY ON THE DYNAMIC BEHAVIOR OF FGM PLATES	LAZREG HADJI
13	SR1064	OPTIMIZATION OF PROCESS PARAMETERS BY TAGUCHI L18 AND MULTI-PERFORMANCE CHARACTERISTICS DURING ELECTRIC DISCHARGE MACHINING OF TI GR-2	MOHD NADEEM AKHTAR
14	SR1068	A REVIEW AND REFLECTION OF THE POTENTIAL USES OF NEW GRADE TITANIUM ALUMINIDES IN THE AUTOMOBILE INDUSTRY	PRANAV RAVINDRANNAIR
15	SR1069	DESIGN AND ANALYSIS OF DOUBLE WISHBONE ACTIVE SUSPENSION SYSTEM WITH BELL CRANK	PRANAV RAVINDRANNAIR

16	SR1070	DESIGN AND ANALYSIS OF INTEGRATED FRAME USING COMPOSITE MATERIAL	PRANAV RAVINDRANNAIR
17	SR1071	DESIGN AND FINITE ELEMENT ANALYSIS OF KINETIC ENERGY RECOVERY SYSTEM FOR BICYCLE	MALIKASAB BAGAWAN
3:30 PM -4:00 PM VALEDICTORY SESSION + TEA ASSEMBLY HALL, UNIVERSITY POLYTECHNIC			