

**INTERNATIONAL CONFERENCE ON TECHNOLOGICAL ADVANCES IN MECHANICAL ENGINEERING
ICTAME 2018 on 19th & 20th September 2018 at AMET University, Chennai, India,
Organized by
Department of Mechanical Engineering**

PROGRAM SCHEDULE

DAY – 1 (19/9/2018)

8.10 AM – 8.50 AM – REGISTRATION

9.00 AM – 10.15 AM – INAGURATION FUNCTION AND CHIEF GUEST ADDRESS

10.15 AM– 10.30 AM – TEA BREAK

(Note 1: Please adhere to your schedule for presentation. Please do note your presentation hall names. No changes in presentation schedule will be entertained)

(Note 2: Certificates will be issued to the participants at the end of respective session)

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SESSION-1

MATERIALS & MANUFACTURING SESSION

DATE & TIME	19/9/18 & 10.30 AM-12.30 PM	VENUE	JANAKIRAMAN AUDITORIUM
HALL INCHARGE	J.HARISH KUMAR	SESSION CHAIR	DR.RAJKUMAR

S.NO.	TITLE	AUTHORS
1	TENSILE AND THERMAL PROPERTIES OF EPOXY CARBON FIBER COMPOSITES WITH GRAPHITE FILLERS	¹ A. BHARATHI, ² K. SUNITHA, ³ D.CHANDRAMOHAN, ⁴ S.DINESH KUMAR
2	IMPROVING THE FATIGUE STRENGTH OF FRICTION STIR WELDED AA7075 ALUMINIUM ALLOY JOINT THROUGH HEAT TREATMENT	¹ P.SIVARAJ*, ² M. VINOTH KUMAR, ³ V.BALASUBRAMANIAN AND A. K. LAKSHMINARAYANAN ⁴
3	STUDY ON STRENGTH OF GALVANIZED IRON PIPE REINFORCED ON CONCRETE COMPOSITE	K.SRIMAN NARAYANAN ^{#1} ; DR.B.ANUPRIYA ^{#2}

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4	MECHANICAL AND MICROSTRUCTURE CHARACTERISTICS OF INCONEL 718/AISI 410 DISSIMILAR FRICTION WELDED JOINTS	ALEX ANANDARAJ ¹ , S. RAJAKUMAR ² AND V. BALASUBRAMANIAN ³
5	MECHANICAL BEHAVIOR OF FRICTION WELDED ALUMINUM REINFORCED COMPOSITES	B. BALAMURUGAN ¹ , AND K. UMANATH ^{2*}
6	INVESTIGATION AND ANALYSIS ON EN8 IN COMPARISON WITH FORGED STEEL CRANKSHAFT	L.KARTHICK B.JEEVANANDHAM A.T.M.ARJUN KANTH ARUN B
7	P3-MODIFICATION OF ZNO NANOPARTICLES USING CHLOROGENIC ACID FOR VARIOUS TECHNOLOGICAL APPLICATIONS	ABEBE BELAY1 HYUNG KOOK KIMYOON-HWAE HWANG2
8	AN INVESTIGATIVE STUDY ON CONVENTIONAL CONCRETE BY USING EXPANDED POLYSTYRENE BEADS	DHANASEKARAN ANNUSAMY1, DR.V.M. SHANTHI2
9	REVIEW ON SELF COMPACTING CONCRETE	ARULSIVANANTHAM. P1, DHANASEKARAN.A2

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10	THERMAL CONTACT CONDUCTANCE OF SISAL, GLASS FIBER AND MWCNTS REINFORCED EPOXY COMPOSITES	K.SRINIVASULU REDDY1, D.SREEDHAR2
9	AN INVESTIGATIVE STUDY ON CONVENTIONAL CONCRETE BY USING EXPANDED POLYSTYRENE BEADS	DHANASEKARAN ANNUSAMY1, DR.V.M.SHANTHI2
10	MECHANICAL AND MICROSTRUCTURE CHARACTERISTICS OF INCONEL 718/AISI 410 DISSIMILAR FRICTION WELDED JOINTS	ALEX ANANDARAJ 1, S. RAJAKUMAR 2 AND V. BALASUBRAMANIAN3,
11	A REVIEW ON OPTIMIZATION ON MACHINING PARAMETERS OF AL7075 ALLOY AND B4C REINFORCED COMPOSITE BY RESPONSE SURFACE METHODOLOGY	V.KURINJI1, S.PRABHAKARAN1, K.UMANATH1, NIKHIL FERNANDO
12	INVESTIGATION OF POST WELD HEAT TREATMENT ON MATERIAL ASTM A 106GR B STEELS	B.BALA MURUGAN1
13	TENSILE AND THERMAL PROPERTIES OF EPOXY CARBON FIBER COMPOSITES WITH GRAPHITE FILLERS	A. BHARATHI1, K. SUNITHA2, D.CHANDRAMOHAN2, S.DINESH KUMAR2
14	IMPROVING THE FATIGUE STRENGTH OF FRICTION STIR WELDED AA7075 ALUMINIUM ALLOY JOINT THROUGH HEAT TREATMENT	P.SIVARAJ1, M. VINOTH KUMAR2, V.BALASUBRAMANIAN1, A. K. LAKSHMINARAYANAN4

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15	COEFFICIENT BOUNDS FOR A NEW SUBCLASS OF BI-UNIVALENT FUNCTIONS DEFINED BY Q-FRACTIONAL DERIVATIVE OPERATOR	G. SARAVANAN1, MUTHUNAGAI. K1
16	PRACTICAL CASES OF VIBRATION RESPONSE CONTROL ON GAS TURBINE BLADED-DISCS OF AN AERO GAS TURBINE	AS MADHU
17	ANALYTICAL METHOD DEVELOPMENT AND VALIDATION FOR DANAZOL BY USING RP-HPLC METHOD	SHANMUGAM.R1, KREETHI .A1, LALITHA PRIYANKA.D2, MADHURI.K1, ASHOK KUMAR. C.K1, GOWTHAMARAJAN.K2, DHANABAL.S.P3
18	FORMULATION AND EVALUATION OF CREAM CONTAINING MICONAZOLE NITRATE, MUPIROCIN AND CLOBETASOL PROPIONATE	A. PREMKUMAR1, T. MUTHUKUMARAN1, V. GANESAN2, SHANMUGAM.R3
19	STUDY OF SAFETY, HEALTH & ENVIRONMENTAL MANAGEMENT SYSTEM (SHEMS) ELEMENTS FOR MICRO, MEDIUM & SMALL SCALE INDUSTRIES: AN OVERVIEW OF IMPLEMENTING FEASIBILITY	N.KRISHNAKUMAR1, DR.M.ARULARASU2

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SESSION-2

MATERIALS & MANUFACTURING SESSION

DATE & TIME	19/9/18 & 10.30 AM-12.30 PM	VENUE	DNV - II
HALL INCHARGE	MUTHU BHASKAR	SESSION CHAIR	DR.RAJAMURUGAN.T.V

S.NO.	TITLE	AUTHORS
1	A REVIEW ON MACHINING CHARACTERISTICS OF ALUMINIUM 6061-T6 ALLOY USING WATER JET PEENING	R.SUNDARAGANESAN 1, S. PRABHAKARAN2, D.S.BALAJI2
2	A REVIEW OF MACHINING CHARACTERISTICS OF COMPOSITE MATERIAL USING MICRO STRUCTURE ANALYSIS	S.VIJAY1, S. PRABHAKARAN2, D.S.BALAJI2
3	DESIGN AND FABRICATION OF CRUSHING MACHINE USING DOUBLE TOGGLE MECHANISM	V.ANTONY IMMANUEL AKASH1, M.GANESH RAJ1, V.KUMARESH1, S.BARATH KUMAR1, P.RAGHU2

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4	IMPROVEMENT OF COMPRESSIVE AND FLEXURAL STRENGTH OF THE CARBON EPOXY COMPOSITES WITH THE ADDITION OF VARIOUS FILLERS TO THE EPOXY RESIN A REVIEW	C. NAVEEN KUMAR ¹ , G. RAJKUMAR ¹ , G. RAJSHYLENDRAN ¹
5	METHODS OF FABRICATING METALS FOR NANO-TECHNOLOGY - SEVERE PLASTIC DEFORMATION	MANISEKARAN N.V1, DR. S. BALASIVANANDHAPRABU2
6	STUDIES ON STRENGTH OF GALVANIZED IRON PIPE REINFORCED ON CONCRETE COMPOSITE	K.SRIMAN NARAYANAN ¹ ,DR.B.ANUPRIYA ²
7	ABRASIVE WATER JET CUTTING AND SURFACE STUDIES ON MACHINING CARBON STEEL WITH DIFFERENT THICKNESS	SANTHOSH KUMAR. T1, SIVA PRASANTH. B.C1, NAVEEN. K1, SIVAKUMAR. S1, ADAM KHAN. M1, UTHAYAKUMAR M1
8	DYNAMIC DATA DRIVEN IDENTIFICATION OF COMBUSTION INSTABILITY IN FLUIDIC SYSTEMS	A S CHAUDHURI
9	COEFFICIENT BOUNDS FOR A NEW SUBCLASS OF BI-UNIVALENT FUNCTIONS DEFINED BY Q-FRACTIONAL DERIVATIVE OPERATOR	G. SARAVANAN* ¹ , MUTHUNAGAI. K ²

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10	A STUDY OF SECOND ORDER IMPULSIVE NEUTRAL INTEGRO-DIFFERENTIAL EVOLUTION CONTROL SYSTEMS WITH AN INFINITE DELAY	M. ANGAYARKANNI ¹ , P. PALANI ² , T. GUNASEKAR ^{3*} AND K.A.VENKATESAN ⁴
11	SENSOR FAULT DETECTION AND ISOLATION FOR PEM FUEL CELL SYSTEMS USING UNKNOWN INPUT OBSERVERS	VIKASH SINHA ^{1*} , SHARIFUDDIN MONDAL ¹
12	MULTIPLE LOAD CONTROLLERS FOR INDUSTRY USING ARM CORTEX	K.P.KAMBLE1
13	QUALITY CONTROL OF TRANSFORMER STAMPING PRODUCTION PROCESS USING DMAIC METHODOLOGY	RANAJEET BAHADUR SINGH
14	DYNAMIC MODELLING OF INTERNAL SUPPLY CHAIN METRICS	DAGNE BIRHANU1, KRISHNANAND LANKA2, A. NEELAKANTESWARA RAO2
15	QUALITY CONTROL OF TRANSFORMER STAMPING PRODUCTION PROCESS USING DMAIC METHODOLOGY	RANAJEET BAHADUR SINGH1
16	EXPERIMENTAL INVESTIGATION OF MECHANICAL PROPERTIES ON AA 8011 ALUMINUM ALLOY USING RESPONSE SURFACE METHODOLOGY BY FRICTION STIR WELDING PROCESS	K.GIRIDHARAN ^{1*} , V.JAIGANESH ² , S.ANAND ³

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17	EFFECT OF TOOL PIN PROFILES AND PARAMETERS IN FRICTION STIR WELDING PROCESS OF AA8011 ALUMINIUM ALLOY	K.GIRIDHARAN ^{1*} , V.JAIGANESH ² , R.RAMADOSS ³
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SESSION-3: DESIGN & THERMAL SESSION

DATE & TIME	19/9/18 & 10.30 AM-12.30 PM	VENUE	DNV HALL-I
HALL INCHARGE	JEYAKUMAR	SESSION CHAIR	MR.E.S.ESAKKIRAJ

DESIGN & THERMAL SESSION

S.NO.	TITLE	AUTHORS
1	DYNAMIC DATA DRIVEN IDENTIFICATION OF COMBUSTION INSTABILITY IN FLUIDIC SYSTEMS	A S CHAUDHURI
2	EMPIRICAL ANALYSIS OF SI ENGINE BY USING ADDITIVES AND CONDUCTING ELECTRICAL LOAD TEST	T.G.ARUL ¹ , MANDALA ARAVIND ² , BAJRANG KUMAR ³ , KAKARLA ABHINAY ⁴
3	INVESTIGATION OF FATIGUE LIFE AND DYNAMIC BEHAVIOR OF MAGNESIUM ALLOY OF AN AUTOMOBILE CONNECTING ROD	A SARAVANAN ¹ , P SURESH ² , G SUDHARSAN ³ , P.KUMARAVEL ⁴ , GOBIKRISHNAN UDHAYAKUMAR ⁵

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4	ENERGY BASED APPROACH FOR ENGINEERING DESIGNS	V. PRABHU JESSY ROOBY
5	STUDY ON EXISTENCE & EFFECTIVENESS OF TURBULENCE IN COMBUSTION CHAMBER OF A DIESEL ENGINE	D. PRAKASH1
6	DYNAMIC DATA DRIVEN IDENTIFICATION OF COMBUSTION INSTABILITY IN FLUIDIC SYSTEMS	A S CHAUDHURI1
7	EMPIRICAL ANALYSIS OF SI ENGINE BY USING ADDITIVES AND CONDUCTING ELECTRICAL LOAD TEST	T.G.ARUL1, MANDALA ARAVIND 2, BAJRANG KUMAR 2, KAKARLA ABHINAY2
8	DEVELOPMENT OF ENGINE OIL CONDITION AND LEVEL MONITORING SYSTEM ON SMART DASHBOARD	G. RAJKUMAR1, C. NAVEEN KUMAR1, MOUNEISH UMAMAHESHWARAN 1
9	REVIEW OF TRIGENERATION SYSTEMS	SUNIL BAGADE1, MAHESH SHELAR2 , SHARAD MAHAJAN2

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10	EXPERIMENTAL STUDY ON EPS SHOTCRETING PANEL	AISSWARYA.R1, NITHILA.S2
11	MODIFICATION AND EVALUATION FOR IMPROVEMENT OF AERODYNAMIC PERFORMANCE OF A FORMULA CAR	KISHORE R 1, SAIGANESH J 1 AND SHAROOK R 3
12	EXTRUSION TECHNOLOGY FOR ENHANCING NUTRIENT UTILIZATION OF STARCH/PROTEIN RICH FOODS/FEEDS	RAMA PRASAD J1,SUHAS SOURI J2,VANI Y K3, PONGURU C S REDDY4 AND CHALA MERERA ERGE5
13	DESIGN OF OPTICAL LIGHT COMMUNICATION SYSTEM: STUDY THE EFFECT OF LIGHT WAVELENGTH ON TRANSMISSION EFFICIENCY USING AUDIO SIGNALS	HARISH KALLA1, LAKAHMAIAH MV1
14	LABVIEW BASED PID DESIGN METHOD FOR DC MOTOR POSITION	DR. V.BALAJI,1 TEFAYE ALAMIREW2, E.MAHESWARI3
15	EXPERIMENTAL INVESTIGATION OF ENGINE CHARACTERISTICS USING PUMPKIN SEED BIODIESEL ON SINGLE CYLINDER DIESEL ENGINE	YUVAJA K ¹ , RAJVEER G V ¹ AND VENKATESH A P ² AND PADMANABHAN S ²

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SESSION-4: APPLIED SCIENCES SESSION

DATE & TIME	19/9/18 & 02.00 PM-3.30 PM	VENUE	DNV HALL-I
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S.NO.	TITLE	AUTHORS
1	GROUNDWATER RECHARGE ESTIMATION FOR LAKE HARAMAYA WATERSHED USING GROUNDWATER BALANCE APPROACH	MR. ABEBEMENGISTU1, DR.TENAALAMIREW2
2	WAY TO ENHANCE QUALITY OF EDUCATION IN ADAMA SCIENCE AND TECHNOLOGY UNIVERSITY	TESFALIDET KETEMA
3	EXTRUSION TECHNOLOGY FOR ENHANCING NUTRIENT UTILIZATION OF STARCH/PROTEIN RICH FOODS/FEEDS	RAMA PRASAD J1,SUHAS SOURI J2,VANI Y K3, PONGURU C S REDDY4 AND CHALA MERERA ERGE5
4	STUDY ON MOTION SENSOR BEHAVIOUR AND ACTIVITY DURING ROAD MISHAP ON ANDROID SMARTPHONE	DEEPAK SINHA1, ANIRBAN DAS1, GARIMA SINHA2

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PROGRAM SCHEDULE

DAY – 2 (20/9/2018)

9.00 AM – 10.45 AM – CHIEF GUEST ADDRESS

10.45 AM– 11.00 AM – TEA BREAK

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SESSION - 1

DATE & TIME		20/9/18 & 11.00 AM-1.00 PM	VENUE	JANAKIRAMAN AUDITORIUM
S.NO.	TITLE		AUTHORS	
1	MODIFICATION OF ZNO NANOPARTICLES USING CHLOROGENIC ACID FOR VARIOUS TECHNOLOGICAL APPLICATIONS		ABEBE BELAY1 HYUNG KOOK KIMYOON-HWAE HWANG2	
2	PROTEIN IMMOBILIZED GALLIUM DOPED ZNO (GZO) /ALN/SI FOR BIO-SENSOR APPLICATION		JOTHIRAMALINGAM R.1,2	
3	COST REDUCTION OF DETERGENTS USING POLYMERIC SURFACTANT		MUKESH GWALWANSHI1	
4	BIOCHAR OF AGRICULTURAL RESIDUES (RICE HUSK AND MAIZE STRAW) FOR AMENDMENT OF ACIDIC, CLAY SOIL		BROOK TESFAMICHAEL1, NEBIYELEUL GESESSE1	

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5	NANO-STRUCTURED SANDWICH COMPOSITES BEAM BEHAVIOR TO FLEXURAL AND SHEAR LOAD	NRR. ANBUSAGAR1, TARIKU DESTA1, PERUMALLA JANAKI RAMULU1, T. NARISIMHA MURTHY1
6	SYNTHESIS, STRUCTURE AND ANTIMICROBIAL EVALUATION OF CU(II) COMPLEXES OF THIOPHENE-2-GLYOXAL-P-HALOGEN SUBSTITUTED	ANILS FENTAHUNADAMU1
7	PROTEIN IMMOBILIZED GALLIUM DOPED ZNO (GZO) /ALN/SI FOR BIO-SENSOR APPLICATION	JOTHIRAMALINGAM R.1,2
8	EXPERIMENTAL ANALYSIS OF LOW DENSITY POLY ETHYLENE EFFECT ON THE MECHANICAL PROPERTIES OF POLY ETHYLENE VINYL ACETATE FOR PROSTHETIC AND ORTHOTIC APPLICATION	YENEALEM YILIMA1, ASMAMEW TELEGNI1
9	POWDER METALLURGY PRODUCTION TECHNIQUES FOR AEROSPACE APPLICATIONS	M. RAJESH KUMAR1
10	THERMAL CONTACT CONDUCTANCE OF SISAL, GLASS FIBER AND MWCNTS REINFORCED EPOXY COMPOSITES	K.SRINIVASULU REDDY1, D.SREEDHAR2
11	SYNTHESIS AND CHARACTERIZATION OF LUMINESCENT SOLAR CONCENTRATOR RODS	YOHANNES B. AEMRO1, A.QUARANTA2, DALLA PALMA.M2

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12	THE EFFECT OF PLANT EXTRACTS ON THE STRUCTURAL PERFORMANCE OF CONCRETE	ABRAHAM MENGESHA WOLDEMARIAM1, WALTER O. OYAWA2
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SESSION-2

DATE & TIME	20/9/18 & 11.00 AM -1.00 PM	VENUE	DNV HALL - 1
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S.NO.	TITLE	AUTHORS
1	Design of Membrane Bio Reactor for sewage treatment plant capacity 200 m3/day	Hilal Massoud Al-Sharji1, B. Nedumaran2
2	Lean Occupational Safety and Health in Manufacturing Industries	KassuJilcha1, Daniel Kitaw1
3	Rapid Emission Inventory for Cuddalore Industrial Town of Tamilnadu, India – A Case Study	Thanappan Subash1
4	Production and characterization of Fat-liquor from Castor seed for leather processing	Mulugeta Gebrey ohannes Aregay1

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5	Lean Occupational Safety and Health in Manufacturing Industries	KassuJilcha1, Daniel Kitaw1
6	Cost Reduction of Detergents Using Polymeric Surfactant	Mukesh Gwalwanshi1, Dr.Preethi2
7	Membrane Distillation for Concentration of Orange Juice	Ms Chawande S. S1 and Dr Preeti Ghate1
8	Nonlinear Root Finding Iterative Model with Engineering application	Tekle Gemechu1
9	Project Crashing Analysis Using Linear Programing Approach	Kibrom Haile1, FitsumGetachew2, ErmiasTesfaye2 ,EshetieBerhan2

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SESSION-3

DATE & TIME	20/9/18 & 2.00 PM -3.30 PM	VENUE	DNV HALL - 1
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S.NO.	TITLE	AUTHORS
1	P80-OPTIMIZING BLEND OF WAX PATTERN IN THE INVESTMENT CASTING PROCESS FOR IMPELLER APPLICATION	ARAGAW MULU (MSC)1& PROF. RATNAM UPPALA (PHD)1
2	IMPROVING THE PERFORMANCE OF CROSS-FLOW WATER TURBINE INSTALLED BY GI ZUSING CFD	TAMIRUMELESE1
3	PERFORMANCE ANALYSIS OF SOLAR AUTOCLAVE FOR RURAL HEALTH POST	ENDALKACHEW MINAS1
4	GENERATING ENERGY FROM PHOTOVOLTAIC CELL; IN THE CASE OF AMBO UNIVERSITY, AWARO CAMPUS ADMINISTRATION BUILDING	ENDALKACHEW MINAS1, GETIYA WODAJO1, TEFAYE BAYANA1, WASIHUN DIRIBA1

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5	FEASIBILITY STUDY OF A WIND POWERED WATER PUMPING SYSTEM FOR RURAL ETHIOPIA	MISRAK GIRMA1, ABEBAYEHU ASSEFA1
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4.00 PM – 4.30 PM – VALEDICTORY FUNCTION