

## NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

2<sup>nd</sup> International Conference on “Emerging Research in Civil, Aeronautical & Mechanical Engineering” (ERCAM 2019) July 25-26, 2019

# Conference Schedule

25 July 2019			
	Time	Location	
<b>Registration</b>	08:30 am to 09:30 am	PGDM Block	
<b>Inauguration</b>	09:30 am to 11:35 am	Sammilana Auditorium, First floor PGDM block	
<b>High Tea</b>	11:45 am to 12:15 pm	In Front of Auditorium	
<b>Key Note Address</b>	12:00 pm to 12:30 pm	Sammilana Auditorium First floor PGDM block	
<b>Poster Presentation (P1-Civil)</b>	12:30 pm to 01:00 pm	First Floor PGDM block	
<b>Lunch Break</b>	1:00 pm to 2:00 pm	Food court, 3 <sup>rd</sup> floor PGDM block	
<b>Oral Presentations and Invited Talk</b>	02:00 PM to 5:00 PM	Mechanical (M1)	Product Design lab 2 <sup>nd</sup> Floor (Room No. 301)
		Mechanical (M2)	IoT lab 2 <sup>nd</sup> Floor (Room No. 303)
		Aero (A1)	Jnana Mantapa, Ground floor,(Room No.103)
		Civil (C1)	Sankirana, First floor, (Room No.203)
	<b>High Tea: 3:00 PM to 3:15 PM (In Front of Auditorium)</b>		
<b>Banquet Dinner (07:00 pm onwards)</b>		3 <sup>rd</sup> floor PGDM block	
26 July 2019			
	Time	Location	
<b>Oral Presentations and Invited Talk</b>	9:00 AM to 1:00 PM	Mechanical (M3)	Product Design lab 2 <sup>nd</sup> Floor (Room No. 301)
		Mechanical (M4)	IoT lab 2 <sup>nd</sup> Floor (Room No. 303)
		Civil (C2)	Sammilana Auditorium, First floor PGDM block
		Civil (C3)	Sankirana, First floor, (Room No.203)
	<b>High Tea: 10:30 AM to 10:45 AM (In Front of Auditorium)</b>		
<b>Lunch Break</b>	01:00 PM to 02:00 PM	3 <sup>rd</sup> floor PGDM	
<b>Poster Presentation (P2- Mechanical and Aeronautical)</b>	2:00 PM to 3:00 PM	First Floor PGDM block	
<b>Valedictory Function</b>	3:00 PM to 4:30 PM	Sammilana Auditorium, First floor PGDM block	
<b>High Tea</b>	4:30 PM to 5:00 PM	In Front of Auditorium	

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2<sup>nd</sup> International Conference on “Emerging Research in Civil, Aeronautical & Mechanical Engineering” (ERCAM 2019) July 25-26, 2019

### M1 Oral Presentation-25 July 2019

<b>Session</b>	<b>M1</b>
<b>Venue</b>	<b>Product Design lab 2<sup>nd</sup> Floor,(Room No. 301)</b>
<b>Time</b>	<b>2:00 PM to 5:00 PM</b>
<b>Session chair and invited talk</b>	<b>Prof. Erwin Konrad Reichel, Researcher, Johannes Kepler University, Linz Institute of Technology Linz Austria</b>
<b>Co- chair</b>	<b>Prof. Seetharamu, Mechanical Department, NMIT</b>
<b>Co-Chair</b>	<b>Prof. Shekhar Majumdar, Mechanical Department NMIT</b>
<b>Session in-charge</b>	<b>Mr. Kotresh and Mr. Shivpratap Singh Yadav</b>

<b>ID</b>	<b>Title</b>	<b>Authors</b>
ME1	Dynamic Performance of Laminated Composite Plates with a Circular Hole	Vinayak Kallannavar
ME2	Material Characterization of Pin-Core Latex Polymer Foam Under Static and Dynamic Loads	K Venkataraman
ME3	Metaheuristic Optimal Design of Adaptive Composite Beams	M.A.R. Loja
ME4	Flexural behavior of 2D Cellular Lattice Structures Manufactured by Fused Deposition Modelling	Syed Masod
ME5	Study and Estimation of Static Stiffness of Machine Tool Spindle	BHARGAV
ME6	A Bayesian Approach to Predict the Structural Responses of FGM Plates with Uncertain Parameters	M.A.R. Loja
ME7	Stress Distribution in an Infinite Plate with Circular Hole by Modified Body Force Method	Shrikrishna Badiger
ME8	Finite Element Formulation of Conjugate Heat Transfer in Porous Annulus	Maughal Ahmed Ali Baig
ME9	Finite Element Formulation of Conjugate Double Diffusion in Porous Annulus	Maughal Ahmed Ali Baig

## NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

2<sup>nd</sup> International Conference on “Emerging Research in Civil, Aeronautical & Mechanical Engineering” (ERCAM 2019) July 25-26, 2019

### M2 Oral Presentation-25 July 2019

<b>Session</b>	<b>M2</b>
<b>Venue</b>	<b>IoT lab 2<sup>nd</sup> Floor (Room No. 303)</b>
<b>Time</b>	<b>2:00 PM to 5:00 PM</b>
<b>Session chair and invited talk</b>	<b>Prof. T. Ram Prabhu, Assistant Director, DRDO, Bangalore</b>
<b>Co- chair</b>	<b>Prof. Muralidhar, Mechanical Department, NMIT</b>
<b>Co-Chair</b>	<b>Prof. Kiran Aithal, Mechanical Department NMIT</b>
<b>Session in-charge</b>	<b>Mr. Arunkumar G L and Mr. Ganesh K</b>

<b>ID</b>	<b>Title</b>	<b>Authors</b>
ME10	Design and manufacturing of hand injection mold for flip badge; Analysis of alternate AIR venting patterns	Vijaykumar Alwa
ME11	MWD Technique to Estimate the Uniaxial Compressive Strength of Rocks	Lakshmi Narayana
ME12	The Screening Efficiency of Linear Vibrating Screen - An Experimental Investigation	Bharath Kumar S
ME13	Hygrothermal Response Analysis of Magneto-Electro-Elastic Beam Embedded in Adaptive Wood through Finite Element Method	Hemanth R
ME14	Optimization of Neem Biodiesel Blend and Injection Pressure	Srinidhi Campli
ME15	Slurry Erosive Study and Optimization of Material and Process Parameters of Single and Hybrid Matrix Flexible Composites using Taguchi Approach	Vishwas Mahesh
ME16	Cerium Oxide and Silicon Carbide Reinforced Al6063 Metal Matrix Composites Comparative Evaluation for Mechanical Properties and Fractography studies	Abdul Nazeer
ME17	Development & Characterisation of Composite Coatings on A-36 steel using HVOF Technique	Anoushka Chaturvedi
ME18	SEM Characterization of 3D Printed ABS Tensile Specimens Developed by Fused Deposition Modelling	Kaushik Vijaya Prasad

## NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

2<sup>nd</sup> International Conference on “Emerging Research in Civil, Aeronautical & Mechanical Engineering” (ERCAM 2019) July 25-26, 2019

### A1 Oral Presentation-25 July 2019

<b>Session</b>	<b>A1</b>
<b>Venue</b>	<b>Jnana Mantapa, Ground floor,(Room No.103</b>
<b>Time</b>	<b>2:00 PM to 5:00 PM</b>
<b>Session chair and invited talk</b>	<b>Mr. Arunakar Mishra, MD and CEO Genser</b>
<b>Co- chair</b>	<b>Dr. Dharmendra Narayan, Scientist Engineer-G, Aeronautical development agency Bengaluru</b>
<b>Co-Chair</b>	<b>Prof. P K Dash, Aeronautical Engineering, NMIT</b>
<b>Session in-charge</b>	<b>Mr. Siddalingappa P K and Mr. Suthan R</b>

<b>ID</b>	<b>Title</b>	<b>Authors</b>
AE01	Simulation of Backward Facing Step Flow Using Openfoam®	Aravind S
AE02	Studies on Blasting Effects of Shock Waves from A Small – Scale Shock Tube	Aravind S
AE03	Feasibility Study of Detonation Wave Initiation by Multiple Structured Blockages in A Plain Tube	Srikrishnan
AE04	Comprehensive Characterization of Carbon Fiber Reinforced Epoxy Composite for Aerospace Applications	Bino Prince Raja
AE05	Study on Effect of Semi-Circular Dimple on Aerodynamic Characteristics of NACA 2412 Airfoil	Sowmyashree Y J
AE06	Design and Analysis of Composite Panel with Curved Stiffeners for Aircraft Fuselage Application	Aditya A
AE07	Identification of Nozzle Parameters In 3S Device Using Artificial Intelligence and Meta-Heuristic Optimization Scheme	Gangadhar Venkata
AE08	Flow Characteristics of a Rectangular Open Shallow Cavity with Single Bump in A Confined Supersonic Flow	Prasanth Mohan

## NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

2<sup>nd</sup> International Conference on “Emerging Research in Civil, Aeronautical & Mechanical Engineering” (ERCAM 2019) July 25-26, 2019

### C1 Oral Presentation-25 July 2019

<b>Session</b>	<b>C1</b>
<b>Venue</b>	<b>Sankirana, First floor (Room No. 203), PGDM Block</b>
<b>Time</b>	<b>2:00 PM to 5:00 PM</b>
<b>Session chair and invited talk</b>	<b>Mr. M N Ramesh, MD, Talrak Construction Ltd.</b>
<b>Co- Chair</b>	<b>Dr Raghava G, Professor, Civil Department, NMIT</b>
<b>Session in-charge</b>	<b>Mrs. Pratima G and Mr. Prashanth</b>

<b>ID</b>	<b>Title</b>	<b>Authors</b>
CV01	Experimental Investigations of SCC with Indigenously Developed Geopolymer Aggregates and Performing Regression Analysis using MATLAB	Naveena M P
CV02	Experimental Investigation on Axially Loaded Alkali Activated Slag Concrete (AASC) and Traditionally Vibrated Concrete (TVC) Square Columns	Surapuraju Srinivasulu,
CV03	Effect of Surface Corrosion of Steel Reinforcement on Bond Strength Characteristics of Concrete	Vineet Kothari
CV04	Evaluation of Strength Properties of High Volume Flyash Concrete Incorporating Nanomaterials	Shashikumar C S
CV05	Analysis of Rotation Capacity of RC Beams over Formation of Plastic Hinges	Prabhakara R
CV06	Effect of Thickness and Modulus of Masonry on the Width of Equivalent Diagonal Strut of Masonry Infill	Lakshmikantha B A
CV07	Assessment of the Shear Strength of Fly Ash Based Geo-Polymer Concrete	S Kumar
CV08	An experimental study on finding rheological properties of fresh concrete mixes using concrete shear box	Ajay N

## NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

2<sup>nd</sup> International Conference on “Emerging Research in Civil, Aeronautical & Mechanical Engineering” (ERCAM 2019) July 25-26, 2019

### M3 Oral Presentation-26 July 2019

<b>Session</b>	<b>M3</b>
<b>Venue</b>	<b>Product Design lab 2<sup>nd</sup> Floor (Room No. 301)</b>
<b>Time</b>	<b>09:00 AM to 01:00 PM</b>
<b>Session chair and invited talk</b>	<b>Prof. D. S. Adiga, Professor, Department of Mechanical Engineering, Indian Institute of Science, Bengaluru.</b>
<b>Co- Chair and invited talk</b>	<b>Mr. Punit Srivastava, Principal Aero Thermal Engineer, S &amp; SSD, Rolls-Royce</b>
<b>Co-Chair</b>	<b>Prof. Desai Gowda, Mechanical Department NMIT</b>
<b>Session in-charge</b>	<b>Ms.Preethi and Ms. Lavanya</b>

<b>ID</b>	<b>Title</b>	<b>Authors</b>
ME19	Influence of Ti coated tools on process parameters in turning process of MDN431	Pradeep V Badiger
ME20	Effect of Solar Optical Properties of Building Envelope on Time Lag, Decrement Factor, and Energy Saving of Buildings	Debasish Mahapatra
ME21	The Study of Microstructure and Wear Behaviour of Titanium Nitride Reinforced Aluminium Composites	Mahesh L
ME22	Design and Simulation of Single Axis MEMS Accelerometer for Low Acceleration Applications	Rudresh K J
ME23	Prediction of Specific Energy Using Dominant Frequency of Acoustics Produced During Diamond Core Drilling Operations	Ch. Vijaya Kumar
ME24	Investigation of Iron Ores Based on the Bond Grindability Test	Harish H
ME25	Effect of Cast Thickness on Properties of Al-Si Cast Obtained Different by Using Vertical Centrifugal Casting	Smrutirekha Sen
ME26	Design and Optimization of Foot Locus Trajectory of Theo Jansen Mechanism	Prashanth N

## NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

2<sup>nd</sup> International Conference on “Emerging Research in Civil, Aeronautical & Mechanical Engineering” (ERCAM 2019) July 25-26, 2019

### M4 Oral Presentation-26 July 2019

<b>Session</b>	<b>M4</b>
<b>Venue</b>	<b>IoT lab 2<sup>nd</sup> Floor (Room No. 303)</b>
<b>Time</b>	<b>09:00 AM to 01:00 PM</b>
<b>Session chair and invited talk</b>	<b>Prof. Vasudev, Retd, Additional Director, CPRI.</b>
<b>Co- Chair</b>	<b>Prof. P. B. Shetty, Mechanical Department, NMIT</b>
<b>Co-Chair</b>	<b>Prof. P G Mukund, Mechanical Department, NMIT</b>
<b>Session in-charge</b>	<b>Mr. Chethan K S and Mr. Anand</b>

<b>ID</b>	<b>Title</b>	<b>Authors</b>
ME27	The Effect of Extrusion on Microstructure, Mechanical and Tribological Properties of A7005 Hybrid Mmcs	Praveen Kumar S
ME28	Power Generation Using Parabolic Dish Csp Technology	Rabi Pathak
ME29	Influence of Metallurgical Parameters on Wear and Impact Characteristics in High Chromium Manganese Irons	T Pramod
ME30	Simulation of High Temperature Solid Particle Erosion of HVOF Sprayed NiCrbsife and WC-Co/NiCrbsife Coated Wall Using CFD	Raghavendra Naik
ME31	Optimization of Friction Stir Welding Parameters Using Taguchi Method for Aerospace Applications	Santhosh N
ME32	The Wear Properties of Ceramic B4C /Al Matrix Composite at Elevated Temperature Under Dry Sliding	Rajesh G. L
ME33	Evolutionary Optimisation for Optimising Process Parameters in Vacuum Carburising	Shivaprasad C G
ME34	The Effect of Planetary Milling Conditions on Tungsten-Carbide (WC) Particle Size Reduction and Sintered Properties	Kiran Aithal S

## NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

2<sup>nd</sup> International Conference on “Emerging Research in Civil, Aeronautical & Mechanical Engineering” (ERCAM 2019) July 25-26, 2019

### C2 Oral Presentation-26 July 2019

<b>Session</b>	<b>C2</b>
<b>Venue</b>	<b>Sammilana Auditorium, First floor PGDM block</b>
<b>Time</b>	<b>09:00 AM to 01:00 PM</b>
<b>Session chair and invited talk</b>	<b>Dr. R Prabhakar, Retd. Emeritus Prof. VTU, MSRIT (Chair)</b>
<b>Co- Chair</b>	<b>Prof Raghavan G, Professor, Civil Department, NMIT</b>
<b>Session in-charge</b>	<b>Dr. Jairaj and Ms. Shruthi</b>

<b>ID</b>	<b>Title</b>	<b>Authors</b>
CV09	Spectral Density at Roof of Setback Tall Building Due to Time Variant Wind Load	Amlan Kumar Bairagi
CV10	Distribution of Wind Pressure Around Different Shape Tall Building	Amlan Kumar Bairagi
CV11	Static Analysis of Point Supported Delaminated Composite Conoidal Shell	Kamalika Das
CV12	Wind Excitation Study of Corner Modified Square Tall Structure	Arghyadip Das
CV13	Effect of Aerodynamic Modifications on a tall building with horizontal irregularity	Shanku Mandal
CV14	Power Spectral Density on Principal Building Due to Setback Interfering Building	Soumya Mukherjee
CV15	Wind Load Analysis of a Tall Structure with Sharp and Corner Cut Edges	Abhipsita Rej
CV16	Performance Evaluation of Concentric and Eccentric Buckling Restrained Braces on The Dynamic Behaviour of RC Structural Engineering	Sunil Lamsal



## NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

2<sup>nd</sup> International Conference on “Emerging Research in Civil, Aeronautical & Mechanical Engineering” (ERCAM 2019) July 25-26, 2019

### C3 Oral Presentation-26 July 2019

<b>Session</b>	<b>C3</b>
<b>Venue</b>	<b>Sankirana, First floor, (Room No.203), PGDM Block</b>
<b>Time</b>	<b>11:00 AM to 01:00 PM</b>
<b>Session chair and invited talk</b>	<b>Prof. Basil Gnanappa, Director Higher Education, Kalasalingam University</b>
<b>Co- Chair and Invited talk</b>	<b>Dr V Ramachandra, Functional Head, Ultra Tech Cement, Mumbai (Co- Chair)</b>
<b>Session in-charge</b>	<b>Mrs. Shwetha and Ms. Sushmitha</b>

<b>ID</b>	<b>Title</b>	<b>Authors</b>
CV17	Experimental Studies and Numerical Validation on Bearing Capacity of Skirted Footings on c- $\Phi$ Soils	Arekal Vijay
CV18	Physico Chemical Analysis of Intrusions in Bellandur Lake	Monesh M
CV19	Feasibility Study for Optimal Cropping Pattern for Available Water in The Distributary of An Irrigation System	Ganesh Kumar B
CV20	Precipitation Overflow Demonstration and Rainfall-Runoff Modeling By Regression Analysis: A Case Study	Surendra H J
CV21	Rural Development Studies Under Unnath Bharath Abhiyan - A Case Study of Chikkapalnahalli And Tannenahalli Village	Veerappadevaru G
CV22	M. Estimation of Design Flood at A Reservoir (Outlet) By Cwc Based Hydrometeorological Approach	Kavya B M
CV23	Assessment of Groundwater Quality by Integration of Water Quality Index and GIS Techniques	Nandeeshha

## NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

2<sup>nd</sup> International Conference on “Emerging Research in Civil, Aeronautical & Mechanical Engineering” (ERCAM 2019) July 25-26, 2019

# P1 Poster Presentation-25 July 2019

<b>Session</b>	<b>P1</b>
<b>Venue</b>	<b>First Floor, PGDM Block</b>
<b>Time</b>	<b>12:30 PM to 01:00 PM</b>
<b>Session chair</b>	<b>Mr. M N Ramesh, MD, Talrak Construction Ltd.</b>
<b>Co- Chair</b>	<b>Dr. Raghava G, Department of Civil Engineering, NMIT</b>
<b>Session in-charge</b>	<b>Mr. Umashankar and Mr. Kiran</b>

<b>ID</b>	<b>Title</b>	<b>Authors</b>
CV24	A Study on Index Properties of Kaolinite and Bentonite Sand Mixtures	Jyothi Devanur
CV25	Study on Soil-Structure Interaction of Raft Foundation for a Vertically Irregular Structure	Hemish Parmar
CV26	Analysis of Stabilisation Period of Two Lentic Lake with Marble Powder	Shreyas B V
CV27	Comparison Between Artificial Neural Network and SPSS To Predict Vehicle Emission	Ramprasanna S R
CV28	A. Experimental Study on Bamboo as A Reinforcing Material in Concrete	Sutharsan R
CV29	Influence of Flyash And Cowdung Ash in The Mix Design of Self Compacting Concrete: - An Experimental Study	Meyyappan PI
CV30	Stagewise Performance Evaluation of Common Effluent Treatment Plant at Koparkairane, Navi Mumbai	Shanthi Selvam
CV31	Feasibility Study on Augment Drinking water Supply and Improve Ground Water Table By 3rd Stage Lift Irrigation Scheme for Honakere, Karnataka	Mahalingegowda H R
CV32	“Analysis of Silo and Comparing Silo with Different End Condition”	Gagan Krishna R R
CV33	Feasibility Study on Strength and Flexural Behaviour of RC Beams with Foundry Fine Aggregate	Shashi Kumar A
CV34	A Case Study on Project Performance of Railway Underpass Construction Project in Jaipur, India	Avinash Ojha
CV35	Analytical Study on The Seismic Behavior Of Two Adjacent Buildings Connected by Viscous Dampers	Shadab Khan
CV36	Analysis of Flexible Pavement with Steel Slag as Coarse Aggregate	Muralidhara R
CV37	Evaluation of Level of Service at Few Signalized Intersections Using Indian Highway Capacity Manual (Indo-HCM,2018)	Savitha B G
CV38	Issues on Planning of Solid Waste Management Scheme Through Evaluation in Integrated Data Information System	Kumar R Rao
CV39	Experimental Studies to Demonstrate the Influence of Fibres on Shear Strength of GPC Adopting Push-Off Specimens	Harish Kumar N R
CV40	Analysis of Water Quality Parameters of Groundwater Near Ranebennur Industrial Area, Haveri District, Karnataka, India	Vijay Kumar H



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**2<sup>nd</sup> International Conference on “Emerging Research in Civil, Aeronautical & Mechanical Engineering” (ERCAM 2019) July 25-26, 2019**

## NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

2<sup>nd</sup> International Conference on “Emerging Research in Civil, Aeronautical & Mechanical Engineering” (ERCAM 2019) July 25-26, 2019

### P2 Poster Presentation-26 July 2019

<b>Session</b>	<b>P-2</b>
<b>Venue</b>	<b>Open space, First Floor, PGDM Block</b>
<b>Time</b>	<b>2:00 PM to 3:00 PM</b>
<b>Session chair</b>	<b>Mr. Sridhar R, General Manager, India Technical Center, Federal Mogul Goetze India</b>
<b>Co- Chair</b>	<b>Prof. Virupaxi Auradi, Mechanical Department, Siddaganga Institute of Technology, Tumkur</b>
<b>Co-Chair</b>	<b>Prof. Gurudatt, Mechanical Department NMIT</b>
<b>Session in-charge</b>	<b>Mr. Puneeth and Mr. Vikram</b>

<b>ID</b>	<b>Title</b>	<b>Authors</b>
ME35	Numerical Investigation of Laminar Flow in Micro-Channel Heat Sinks for Electronic Cooling Applications	Manjunath H N
ME36	Implementation of Taguchi Method and ANOVA For Optimization of Process Parameter in Improving the Surface Roughness in Injection Moulding Operation	Shiv Prathap Singh Yadav
ME37	Design, Fabrication & Analysis of Pen Mold For Injection Molding Machine	Shiv Prathap Singh Yadav
ME38	Impact of Sized Abrader and Normal Load On Deformation Morphology of En 24 Steel Subjected to Abrasion	Hemaraju Raju
ME39	Influence of Erodent Size, Impingement Angle and Fillers on Solid Particle Erosion Wear Behaviour of Carbon Fiber Reinforced Epoxy Composite	Prashanth N
ME40	Influence of Machining Cutting Speed on Cutting Force, Tool Flank Wear on PVD Inserts by Turning of Ti-6Al-4V Alloy	Raghavendra M J
ME41	Effect of Friction Stir Processing on The Dry Sliding Wear Behavior Of AZ31 Mg Alloy	Siddramesh S D
ME42	Finite Element Analysis of Bonded Patch Repair of a Panel with Multiple Cracks	R Srilakshmi
ME43	Effect Of PP/MWCNT-COOH Nanocomposites on Mechanical Properties	Poornima
ME44	Optimized Process Parameters Using TOPSIS Method During Wire Electro Discharge Machining of Tinico Shape Memory Alloy	Hargovind Soni
ME45	Optimization of The Surface Quality in Milling Machine Using PVC Composite Plate	Hargovind Soni
ME46	Optimisation of Machining Parameters for End Milling of Maraging Steel MDN 250 Using TiAlSiN And TiSiN Coated WC-Co Inserts	Vinay V
AE09	An Experimental Investigation of Grit Size Effect Over A Smooth Circular Cylinder	Somashekar V
AE10	CFD Simulation of Turbulent Flow Around Multi-Element Airfoil	Sonali Gupta
AE11	Aerodynamic Design and Optimization of Supersonic Inlets for External Compression	Shashi Kumar V
AE12	Static Aero-Elastic Analysis of Wind Tunnel Test Model in Transonic Flow	Siddalingappa P K
AE13	Study on Effect of Surface Modification on Aerodynamic Characteristics of Eppler 387 Air foil	Srikanth H V