

XX VETOMAC 2025												
Day 1 (18 December 2025)												
Registration- Reception, Classroom Complex, Core 5, IITG												
Inaugural Session at Core 5 (5G1)												
High Tea Break												
Plenary Talk 1 (Prof. Romuald Rzgdkowski, Institute of Fluid-Flow Machinery, Poland)												
Plenary Talk 2 (Prof C. Nataraj, Villanova University, USA)												
Lunch												
Technical Session, Venue: Classroom Complex, Core 5, IITG												
14.00 - 14.30 Hrs												
Session 1 (Room: 5001)			Session 2 (Room: 5002)			Session 3 (Room: 5003)			Session 4 (Room: 5004)			
Keynote 1			Keynote 2			Keynote 3			Keynote 4			
Prof Pavan Kumar Kankar, IIT Indore			Prof P M Pathak, IIT Roorkee			Mr Nilotpol Kar, Sika India Private Ltd			Prof Ashish K Darpe, IIT Delhi			
Condition monitoring and M/c diagnostics			Nonlinear Vibrations			Impact and Blast resistant design			Rotor dynamics			
Paper ID	Presenter Name	Paper Title	Paper ID	Presenter Name	Paper Title	Paper ID	Presenter Name	Paper Title	Paper ID	Presenter Name	Paper Title	
120	Chandan Pandey Sachin Kumar Singh	Advanced Gearbox Fault Diagnosis Using Transfer Learning and CNN-Based Hybrid Recurrent Architectures	208	Subho Mukherjee Udit Kumar Dwengam Harpreet Singh Roy	Deflection Approximation of Geometrically Nonlinear Elastic Beams	246	Mayuresh Salunkhe Debyan Bhattacharya Amab Banerjee	A simplified analytical framework for non-circular tunnels under in-plane seismic P-wave excitation with soil-tunnel interface effects	196	Wagur Ahmed Khan N Mimi Kumar Manish Agrawal	Redesign of a hybrid journal bearing to overcome high pad temperature at operating speed	
121	Sachin Singh Mahesh Shukla Chandan Pandey	A Hybrid Deep Learning and Ensemble Approach for Bearing Fault Diagnosis	235	Ranit Roy Dr Anshul Garg Prof. Santosh K. Deyvidy	Nonlinear Dynamics of a Double Cantilever-Based Piezoelectric Energy Harvester under Combined Galloping and Parametric Excitation	141	Gaurav Sharad Bhoiyar Dhruv Mevawala Gaurav Sharad Bhoiyar Sumit Khare D. P. Vakharia	NUMERICAL SIMULATION OF COMPOSITE SANDWICH PANEL UNDER LOW VELOCITY IMPACT	76	Pravin Gouvari Ramchandra G. Desavale Vaishnavi Gavade	Data-Driven Fault Detection in Rotating Machinery: FEA-Guided Machine Learning for Deep Groove Ball Bearing Diagnostics	
14.30 - 15.45 Hrs	201	Anka Datta S V V S Narayana Pechila Sabareesh G R Vamsi Ijuri	27	Ranjan Kumar Mitra Ponnada Durga Prasad	dynamic stability analysis of a piecewise nonlinear suspension system under harmonic excitation	250	Tanay Ikram Nannamoni Chetia	Performance Study of Braced Buildings with Plan Irregularities	262	Santosh Sagar Behra Prasad Kane Atul Andhare Makrand Lokhande	A Compound CNN-LSTM based Bearing Fault Diagnosis of Switched Reluctance Motor	
	232	Devansh Sanjay Saranya Manikandan Udanda Jayapravee Navreen Raj R	180	Brajesh Patigrahi Minmayo Saha Sabareesh G R R	Nonlinear Backbone Curve Characterization of a Piezoelectric Energy Harvester Under Axial Preload and Base Excitation	319	Mohnish Rajpoot Suman Kumar Mohnish Rajpoot Sanchit Saxena	Auxetic Configuration-Based Blast Doors Panel: Numerical Investigation and Performance Characterisation under Multiple Blast Loading Scenarios	213	Vivek E K Salimuddin Kulkarni Janaki Rany Reddy M Tahzeb Hassan Danish Soumenish Jana	Rotordynamic Analysis of an Aircraft Electric Propulsion System	
	259	Rohit Swarna Venkata Sai Priyanshu Kidhore Rajeev Goel Prashant Mahviya Sachin Prakash Ganesh Kolapatin Geetha	197	Pyla Prasad P.S. Balaji	Nonlinear Dynamics of Quasi-Zero Stiffness Metamaterials for Advanced Vibration Isolation	28	AKashiyoti Barman	Shock Response Analysis in Multicomponent PCBs using FEA-Derived Response Spectra and SHAP-Based Feature Attribution	309	Vadivelu Prasad Hema Latha Gourav Dutta Madan Ram Damasa	dynamic analysis of the rotor shaft in a centrifugal pump for fighter aircraft applications	
	Tea Break											
15.45 - 16.00 Hrs												
Session 5 (Room: 5001)			Session 6 (Room: 5002)			Session 7 (Room: 5003)			Session 8 (Room: 5004)			
Keynote 5			Keynote 6			Keynote 7			Keynote 8			
Dr Benudhar Sahoo, CEMILAC, DRDO, Bangalore			Prof. S K Dwivedy, IIT Guwahati			Prof B. Ravindra, IIT Jodhpur			Dr Arun Kumar, Ex Head, Propulsion Division NAL			
Vibration and Acoustic control			Vibration & Waves			Vehicle Dynamics			Rotor dynamics			
Paper ID	Presenter Name	Paper Title	Paper ID	Presenter Name	Paper Title	Paper ID	Presenter Name	Paper Title	Paper ID	Presenter Name	Paper Title	
224	Ram Kumar P Naveen Raj R	Model-Free Active Vibration Control of Linear SDOF Systems Using Reinforcement Learning	63	Gnanasreelavash N B Mohammarish V Sayan Banerjee Mohammarish V G Srinivasan J Rajesh Kumar	Mathematical vibration model of a tank gun recoil system	47	Manoj Paul Ravindra B	Nonlinear Dynamics of Semi-active Vehicle Suspensions with MR Dampers using Bingham and Modified Bouc-Wen models	109	Harikrishnan C I Praveen Krishna IR Sudhakar Sankar	A Pseudo Spectral Approach Towards Analyzing Gas Foil Bearings Performance and Improvement using a Parametric Study	
227	Sudip Tahakdar	Controlling foot bridge vibration using tuned mass dampers	82	Vasanth Sai Varshithi Kondreddy Allen Anilkumar	Analysis of parametric excitation in a playground swing	176	Niel James Ashwin Dias Devaansh Sinha Sachin Barve	Evaluation of Vehicle Stability for Passenger Comfort	101	Ashish Srivastava Faisal Rahmani	Dynamic stability of textured journal bearing considering non-linear bearing forces	
241	Pravin Abhave Christian Svendsen Nimmy Thammak Philip Thangasivam Gandhi	Methodology to Design Throttling Grooves for Low Noise ERDs	153	Himanush Kulkarni Prof. Mohammad Talhi Prof Rajeev Kumar	Dynamic Response of Sandwich Beams with Solid, Honeycomb, and Re-Entrant Auxetic Cores using Finite Element Method	258	S Balaji Sobanand Kulkarni L P Manikandan Brijeshkumar J Shah Soumenish Jana	Active magnetic bearing supported flywheel rotor design using multi disciplinary optimisation	38	K Udayand Madadhalla Padmanabham Seelam Sai Kiran Kuppa Sampath Kumar	dynamic stability and vibration control of a multi-shaft system for the unbalance and coupling misalignment fault analysis	
178	Amol Vagpuri Brajesh Patigrahi K. Shanmuga Venkateswara Naidu G Deepak Kumar	investigation of dynamic attributes and mode switching for a cracked cantilever honeycomb beam using modal assurance criteria	142	Vasishtha Vasishtha Mohammad Talha	Assessment of microstructural defects on vibrational behaviour of graded beams using high-order beam models	114	Vijay Kumar Gupta Swati Devi	Dynamic Modelling and Multi-Parameter Optimization of Quarter Car Suspension for Enhanced Ride Comfort and Road Handling	55	Akshay Kulkarni Shailesh S. Shiragipalli Ramchandra G. Desavale Prasad V. Shinde	An Investigation of the Combined Effect of Load and Misalignment in Rotor-Bearing Systems using the Box-Behnken Approach of Response Surface Methodology.	
285	N Veera Manikanta P Pareek Dix Aakash Ojha	Damping Characteristics of Auxetic Structures Made of Shape Memory Alloys	133	Balakrishna Pujari Mohammad Talha Rajeev Kumar	Influence of Re-entrant Core Angle on Natural Frequency of Higher Order Auxetic Sandwich Panels	158	Naveen Narayan Dharmendra Kuswaha S.P. Harsha	Comparative study of residual stress distribution in i-beam and rail beam during the roller straightening process by an analytical levelling model	244	K Rohit Reddy J Srinivas	Dynamic analysis of bolted joint rotor system subjected to multiple nonlinearities	
41	Siddansgouda Kandagal Rishi Kaulshik	Dynamic Performance of Flapping Beams under Parametric Excitations	87	Vishnu Narayan and Devagar A Allen Anilkumar	ANALYSIS OF A COMPOUND PENDULUM EXCITED BY A ROTATING MASS	192	Ashish Chandhari Mr Athab Daffedar Mr Deepak Nimbare Mr Aayan Diwan Mr Patis Himanshu Mr. Vinay Patel	dynamic vibration analysis of motorcycle handlebar with mechanical inserts	14	Prathamesh Bhoir Vishal Salunkhe Srushti Arjajalekar Pravraj Jalke Duryesh Malve	Experimental and Numerical Investigation of Bearing Interferential Clearance Faults Using Vibration Analysis and FEA.	
19.00 - 21.30 Hrs												
Gala Dinner (Core 5)												

Day 2 (19 December 2025)											
Technical Session, Venue: Classroom Complex, Core 5, IITG											
Registration- Reception, Classroom Complex, Core 5, IITG											
Plannery Talk 3 (Prof. C.W Lim, City University of Hong Kong, Hongkong)											
Session 9 (Room: 5001)			Session 10 (Room: 5002)			Session 11 (Room: 5003)			Session 12 (Room: 5004)		
Keynote 9			Keynote 10			Keynote 11			Keynote 12		
Prof. Alankar, IIT Bombay			Prof Mayank Tiwari, IIT Palakkad			Prof. Arunabh Banerjee, IIT Delhi			Prof V Karthik, IIT Bombay		
Condition monitoring and M/c diagnostics			Rotor dynamics			Vibration and Acoustic control			Vibration & Waves		
Paper ID	Presenter Name	Paper Title	Paper ID	Presenter Name	Paper Title	Paper ID	Presenter Name	Paper Title	Paper ID	Presenter Name	Paper Title
10.15 - 11.15 Hrs	68	Vishnu Hariakumar, Dr Bijudas C R	203	Himanshu Kumar, Mayank Srivastava, Professor Ankit Kumar, Ankit Bansal, Dileep Kothawala, Sachin Manrya	performance analysis of machine learning models for vibration-based fault classification in centrifugal pump	300	Abhay Chandra P Sathesh Kumar C P	analytical and numerical study of noise generation from power loom by considering it as two monopoles	268	Vishesh Prassanna Sarapur	AI-Assisted Crack Detection Using Modal Analysis and Frequency Response Data from FEA-Based Structural Simulations
	148	Anand Rengaraj Adepu Kumaraswamy Lakshmi Narayana Sharma R	156	Sharadchandra Shrikant Patil Rameshchandra Desaiwale Suresh Nipkarul Niket maulande	Experimental Investigation Using Response Surface Methodology for Condition Monitoring of Multiloaded Cylindrical Roller Bearing in Dual Rotor Shaft Bearing System	321	D. Nagesh Babu Yamini Gupta D. Nagesh Babu R. Prameev Selvam	dynamic response of electrical control panels under wind turbine vibration	296	Ajaykumar panda Shaikh Altafhusen Akbar Nohian K Avirah	effect of polymer coating on the dynamics and acoustic response of thin plate
	9	Pavan Kumar Kankar Aditya Sharma	140	Ankit Ranjan Rajit Tiwari	Developing a digital model of a centrifugal pump for performance analysis	131	Dhish Kumar Patel Akilshah Mimit	noise characterization of trailing-edge serrations on sup propeller by beamforming mapping and acoustic spectra	240	Dulganthi Dheeraj Reddy Sarith Chanda Pallavi Badry	Performance-Based Seismic Evaluation of Concrete-Filled Steel Tube Columns in High-Rise Buildings with Soil-Structure Interaction Consideration in North-Eastern Part of India
	13	Aniket Bohade Dhruv Bhatl Amiti Dede Amar Ghare S. M. Khosr Vishal Shankhbe	Integrated Finite Element and Experimental Approach for Spur Gear Fault Identification	264	Gopal Kumar Prabhat Kumar	dynamic analysis of an unbalanced and cracked rigid rotor with viscoelastic supported foil bearings	78	Praveen Nagesh Mann Sharma Anil Kumar	design and analysis of frustum-based hollow hexagonal metamaterial unit cell for low-frequency band gap formation	130	Karthik Paul Santan Kumar Richa Kumari
Tea Break											
Session 13 (Room: 5001)			Session 14 (Room: 5002)			Session 15 (Room: 5003)			Session 16 (Room: 5004)		
Signal processing and parameter estimation			Rotor dynamics			Vibration and Acoustic control			Multi disciplinary		
Paper ID	Presenter Name	Paper Title	Paper ID	Presenter Name	Paper Title	Paper ID	Presenter Name	Paper Title	Paper ID	Presenter Name	Paper Title
11.30 - 12.45 Hrs	210	Mr. Raghu Ojha, Ms. Yashini Qureshi, Dr. Sneha Singh, Prof. Harsha	107	Saajo SR, Rishabh G Ponnada Krunthi Kiran, Dr. Allen Anilkumar	Primary Resonance Features of Electrostatically Actuated Circular Ring Resonators	326	Mr. Prasad Dattaraj Desai, Dr. Sarraj Ram	Multiphysics Simulation and ALT Reliability Assessment of PCB Copper Traces under Random Vibration Loading	188	Elancherian Tamilselvam Sharence Esther K Balasubramanian Krishnan Elancherian Tamilselvam Rajkumar K.S. Mayuresh Pathak	Fatigue Life Prediction of Metal Structures Under Frequency Domain Random Vibration Loads Using Modulus language
	93	Mersalim Mollick S.H. Upadhyay Kavadi Ravi Teja P C Jan	72	Nilesh C. Galawat Prasad Vishwasrao Shinde Rameshchandra G. Desaiwale Akshay M. Kulkarni	a diagnosis of unbalance and bearing surface defects in the rotor bearing system with control compatible rotatable design (cord)	53	Gaurish Walke Kevin Remedios Natesha Sharma Sahel Moya Raghuvenndra Nair	design and analysis of a quasi-zero stiffness vibration isolation system	154	Rohit Kumar Mohammad Talha	3D bio printing of the alginate and gelatin-based Aesthetic skin grafts: A Rheological Characterization
	70	Chetan Chakravar Chetan Singh	74	Indrajit Meher Rameshchandra G. Desaiwale	Research on the vibration Characteristics of Deep Groove Ball Bearing Considering Outer Race Surface Defect and Bearing Tilt	80	Tush Shrestha Ruchi Rijal Anaysh Sabadi Ravin Parbey	Design and Experiment of Negative-stiffness Electromagnetic Spring for Low-Frequency Vibration Isolation	22	Mayuresh Pathak Sharence Esther K Mr Naresh Padilaya	Comparing the efficiency of Moehde FEA Tool with Traditional FEA tool predicting the durability of a beam structure
	71	Siddharth Shrivastava Sneha Singh	59	Noufal N S Saigees Kumar Lal Das Praveen Krishna I R Amarnath M Benny Thomas	Impact of Time-Varying Frictional Torque, Runout, and Tooth Errors on Spur Gear Transmission Error: A Parametric Study	329	Divyansha Chaudhey Amit Kumar Niranjan Sahoo	integrated thermodynamic and vibration analysis of micro turbines for aerospace applications using matlab	179	Dr. Anil Kumar Rai	Dynamic Behavior of Orthotropic Circular Plates Subjected to Moving Loads on Elastic Foundations
222	Maram Reddy J Srinivas	273	GANGA D. Ajan Sesikumar, Suman Kumar Mandal	Variational Autoencoder-Based Anomaly Detection in Vibration Signals for Early Bearing Fault Diagnostics	21	Siddalingeshwar Patil Sharann Venkatesh Shampugajolasharra Siddalingeshwar Patil Srinanth B H Srikrishna U S	Enhanced Vibration Damping in Additively Manufactured Ti Alloy and MMC using Optimized Control Strategies for Aerospace Applications	134	Mr Saravsh Bhardwaj, Prof. Mohammarad Talha, Prof Sarbjit Singh, Mr Myand Malik, Asst. Prof. Prateek Saxena	Modeling of Additive Manufacturing Process Parameters using Dimensional Analysis and Support Vector Regression	
Lunch											
Poster Session											
Plannery Talk 4 (Prof Alok Sinha, The PennState University, USA)											
Plannery Talk 5 (Prof Pramod Shreshtha, Tribhuvan University, Nepal)											
Session 17 (Room: 5001)			Session 18 (Room: 5002)			Session 19 (Room: 5003)			Session 20 (Room: 5003)		
Keynote 13			Keynote 14			Keynote 15			Keynote 16		
Prof. S G Rajasekharan, BITS Pilani, HYD			Dr Indrapal Singh Sandhu, TBRI, Chandigarh			Prof Pradeep Kandu, KU Leuven			Prof. Devdas Shetty, Uni. District of Columbia, USA		
Condition monitoring and M/c diagnostics			Fracture, Fatigue and Damage Mechanics			Digital twinning and machine learning			Multi disciplinary		
Paper ID	Presenter Name	Paper Title	Paper ID	Presenter Name	Paper Title	Paper ID	Presenter Name	Paper Title	Paper ID	Presenter Name	Paper Title
16.00 - 17.00 Hrs	91	Goutham K B Bijudas C R	303	Jignesh Jai Nikunj Rajchichi	Severity Detection of Bone Fractures Through Non-Invasive Shock Response Spectrum Analysis: Ex Vivo Study	211	Bala Murugan S IVV Durga Prasad Rabindran Kumar Behera Dr Arweesa Mohanty	Pipeline leakage detection: by employing the Euler-Bernoulli beam using an iterative algorithm with a machine learning approach	122	Kazuhito Oda, Naoki Noda, Rei Takaki	Brittle fracture behavior and adhesive strength of adhesively bonded butt joints
	281	Arul Pradeep S Kevin P Naveen Raj R	51	Kumar Shambhavi Dr. Rakesh Kumar Somnath Chattopadhyay Dr. Raj Das Biswal Salha Darjooy	Finite Element Simulation of Mechanical Response During Friction Stir Welding of Cu C11000 and Al6061-T6	228	Venkateshwar B Greshma S.M. Sacharidha D Venkateshwar B Sumbasaha S. Chamappayya	Data-driven methods for model parameters estimation and material properties updating	89	Randhir Kumar Akhlesh Minami	3-D Finite element analysis of the side inlet and side-outlet cuffless expansion chamber muffler with mesh flow
	305	S Chaitanya Ruchir Shrivastava	30	Debahrati Gayen Soumen Das Rajan Kumar Mitra A	thermo-elastic bending behavior of an axially functionally graded beam using power law of material gradation	161	Dharmendra Kushwaha Navleen Narayanan S.P. Harsha	Digital twin-based predictive analysis of dentification risk on railway tracks with geometric irregularities	257	M Yadav Sumit Bhasia	Void Nucleation and Interaction in Plastic Solids
	23	Avastarm Yarra, Vaibhav Janna	173	Deepak Sharma Aman Kuar Deepak Sharma Subhajit Santhi	Accelerating Structural Topology Optimization by Unifying U-Net Variational Autoencoder with SIMP Method	112	Ankit Yadav Abhishek Sharma Srikant Srikhar Padhee	An Artificial intelligence based tool for model analysis of functionally graded beams	328	Manish K Rajak, Prof.M.L. Chandravanishi, Vivek bejjani	Optimization of Geometric Parameters and Vibration Characteristics of Stop Plates
Tea Break											
Session 21 (Room: 5001)			Session 22 (Room: 5002)			Session 23 (Room: 5003)			Session 24 (Room: 5004)		
Vibration & Waves			Multi disciplinary			Vehicle Dynamics			Multi disciplinary		
Paper ID	Presenter Name	Paper Title	Paper ID	Presenter Name	Paper Title	Paper ID	Presenter Name	Paper Title	Paper ID	Presenter Name	Paper Title
17.15 - 18.15 Hrs	88	Abel George Abraham Mimi A Pillai Ezhilrasi Decandayalan	52	Mr Kanishq Garg, Mr Pratham Kogila, Dr. Piyush Shukla, Mr Sitesh Mishra	Multi-Sensor Data Fusion for Fault Detection in Mechanical Systems: A Bayesian Modeling Approach	7	Saayan Banerjee Deekar Arun Kumar G Srinivasan S Parthakumar J Rajesh Kumar	Ride and Structural dynamic analysis of a military recovery vehicle	29	Ayan Roy Chaudhary Debnathu Gyan Kallol Khan	THERMOELASTIC ANALYSIS OF AN FGM CYLINDRICAL PRESSURE VESSEL USING POWER LAW OF MATERIAL GRADATION
	155	Manan Pathak Shrutidham Sarma Kundan K Verma	45	Aashesh saha MD Naryananna Prakash T.	Identification of parameters from data acquired from experiments on a friction induced system	54	T. I. Narasimha Sasana Banerjee Yashak Kumar Singh Ravi Shankar Sarath Shankar G Srinivasan J Rajesh Kumar	Military vehicle lashing dynamics during air transportation	247	P. Mahewar Reddy Tan Sen Joyanta Pal	Formulation and Response Surface Optimization of Bamboo-Fiber Lamin Jaggery Mortars for Enhanced Carbon Sequestration and Climate Resilience
	135	R Karthik Jhaa Goram Srinivasan K.	132	Parthib Halder Gora Chand Chell	h link optimization : optimization of h link linkage in case of bucket arm & rock breaker excavator	200	Sauranga Das R. Ganesha Narayanan Sougata Karanika	topology optimization of a vehicle lifting device component using dynamic loading input and comparison with mass manufactured components	209	Aditya Sharma, Dr. Krishna Ganguly, Prof Jayanta Kumar Dutt	A robust approach to incorporate dissipative behaviors in the linear constitutive relationship of material model
	34	Chander Kant Senehel Vikas Rana	Numerical Study on Vibrational Behaviour of Sandwichlike Honeycomb Structure Embedded with Magnetorheological Elastomers (MREs)	64	Shashank Srivastava Jayanta Kumar Dutt Kaljit Gupta Manish Trikha	Design and Analysis of A Resilient Passive Isolation System for Satellite On-Board Micro-Vibration	99	Mukesh Pandey V.S.S. Pavan Kumar H. P. Seshu	Assessing Well-to-Wheel Emissions of Alternative Powertrains for Light Duty Commercial Vehicles in India	282	Pradyum Girish Chandra Prajapati Sumit Bhasia
End of Day 2											

Day 3 (20 December 2025)												
Technical Session, Venue: Core V												
9.00 - 9.45 Hrs	Plannery Session 6 (Prof. G. Litak, Lublin Uni. of Technology, Poland)											
9.45 - 10.10 Hrs	Talk by Sponsors											
10.30 - 10.45 Hrs	Tea Break											
10.45 - 11.15 Hrs	Session 25 (Room: 5001)			Session 26 (Room: 5002)			Session 27 (Room: 5003)			Session 28 (Room: 5004)		
	Keynote 17			Keynote 18			Keynote 19			Keynote 20		
	Prof Poonam Kumari, IIT Guwahati						Prof N NODA, Kyushu Ins. of Tech., Japan			Prof Ramesh Singh, IIT Bombay		
11.15 - 12.30 Hrs	Compostie and Nano structure			Renewable Energy And Climate Change			Multi-physics And Flexible Multi Body Dynamics			Machining and dynamics and Chatter		
	Paper ID	Presenter Name	Paper Title	Paper ID	Presenter Name	Paper Title	Paper ID	Presenter Name	Paper Title	Paper ID	Presenter Name	Paper Title
	331	Kiran Kumar K Amit Kumar Niranjan Sahoo	Dynamic Shock Absorption Behavior of Closed-Cell Metallic Foams and Glass Fiber Composites: A Shock Tube Experimental Study	325	Pradeep Malaji Mr Basavaraj Satappagol Asif Momin Girish Khodnapur Grzegorz Litak Sondipon Adhikari	Energy Harvesting from a Two Degrees-of-Freedom Vibratory System with Inertial Amplifier: Modeling, Analysis, and Biomedical Application	66	Tushar Santosh Adepu Kumaraswamy Gaurav Sharma Sriramulu Bokka	Kinematic Analysis and Realization of a Compound Planetary Gear Train for Compact High-Torque Applications	85	Souvik Das Kundan K. Singh	Analysis and Development of Optimum Structure for Automated Tap Testing of Micro Cutting tool
	327	Dhruv Chaudhary Anchith Murthy Srinivasa Prasad	Dynamic Analysis of Re-entrant Auxetic Honeycomb structures for implementation in Helmet Liner	83	Atul B Harsh Chittora	Effect of wind velocity and installation angle on pressure and velocity distribution on PV module for vibration control using CFD approach.	175	Sanjana Talukdar Santosh K. Dwivedy Poonam Kumari	A two-way coupled chemo-mechanics numerical scheme to determine electrochemical performance of batteries	84	Mr. Sumitava Paul , Dr. Kundan K. Singh	Vibration Signal-Based Clustering Approach for Cutting Tool and Workpiece Contact Detection in Micromachining Process
	318	Shashank Pandey	Effect of Porosity and Geometrical Imperfection on Crack Propagation Analysis of S-FGM blade under Cyclic Cryogenic Thermal Shock	167	Mr. Jishnu Rajeev , Dr. Kishor Kumar V V	Boosting Solar-Powered Peltier Cooler Performance Using PCM-Integrated Heat Sinks for Better Renewable Energy Utilization	170	Vishakha Vilas Harlapur Pranav Lad Salil Kulkarni	Non-linear dynamics of a bi-stable mechanical oscillator with a toggle spring mechanism	94	Mr. SURAJ KUMAR , Dr Mittal R K , Mr. Soham Mujumdar , Mr. Ramesh K. Singh	Investigation of Tool-Tip Stiffness Variation Along the Cutting Path in Robotic Micromilling
	75	Anandakumar Paramasivam	A Data-Driven Design Strategy for Over-Molded Composites Using GAN and Machine Learning	172	Shamim Pathan Prayag Sutar Purva Jambhale	Machine learning based fault detection in rotating system.	102	Mr. Arunshrek G. , Dr. Allen Anilkumar , Dr. Ashesh Saha	Vibration isolation using bio inspired compliant springs			
	111	Dr. Manjeet Keshav , Dhruv Pancholi	Finite Element Modeling and Analysis of Cochlear Implant Electrode Arrays	171	Dr PANKAJ KUMAR , Dr. S. Narayanan	Vibration and Acoustic energy harvesting of linear and nonlinear systems under random excitation and stochastic analysis by neural networks and radial basis functions approach						
	164	SUMIT GAUR Srikant Sekhar Padhee	Ensuring Desired Dynamic Behavior of Composite Strip like structure under stochastic environment	272	GANGA D , Arjun Sasikumar	Noise-Robust Feature Extraction and Fault Diagnosis in Rotating Machinery Using EEMD and Random Forest						
12.30- 13.15 Hrs	Valedictory session											
13.15- 14.30 Hrs	Lunch											