



**PROGRAM SCHEDULE**

Day 1: Thursday, 20 <sup>th</sup> June 2024									
09:00 – 13:00		Registration [Venue: Auditorium Foyer]							
09:30 – 10:10		Inaugural session [Venue: Auditorium]							
10:15 – 11:00		Plenary talk by: Prof. B K Mishra (IIT Roorkee, India) [Venue: Auditorium] Title: Composite Materials: Historical Evolution, Current Trends and Future Directions							
11:00 – 11:30		Group Photograph & Tea Break [Venue: Auditorium Foyer]							
11:30 – 12:00		Invited talk by: Prof Indra Vir Singh (IIT Roorkee, India) [Venue: Hall A] Title: A Numerical Framework based on CDM and CZM to Estimate the Fatigue Life of Laminated Composites			Invited talk by: Prof A K Sharma (IIT Roorkee, India) [Venue: Hall B] Title: Microwave assisted treatment of natural fibers for fabrication of sustainable Sisal/HDPE composites: A resource efficient approach				
<b>Technical sessions 1 (Four parallel sessions)</b>									
12:00 – 13:30		[Venue: Hall A] Session Chairs: Prof IV Singh & Prof Raj Kiran Coordinators: Maninder, Manish		[Venue: Hall B] Session Chairs: Prof AK Sharma & Prof Rajesh Coordinators: Kishan, Lokesh		[Venue: C&P Meeting Room III] Session Chairs: Prof Rajeev & Prof Vishal Singh Chauhan Coordinators: Abhishek, Sudhir		<b>Online Sessions</b> [Venue: C&P Meeting Room II] Session Chairs: Prof Parmod & Prof Raj Kumar Sahu Coordinators: Aditya, Aatish	
		<b>Time</b>	<b>Paper ID</b>	<b>Time</b>	<b>Paper ID</b>	<b>Time</b>	<b>Paper ID</b>	<b>Time</b>	<b>Paper ID</b>
		12:00 – 12:10	06	12:00 – 12:10	36	12:00 – 12:10	53	12:00 – 12:10	10
		12:10 – 12:20	18	12:10 – 12:20	37	12:10 – 12:20	222	12:10 – 12:20	12
		12:20 – 12:30	20	12:20 – 12:30	38	12:20 – 12:30	54	12:20 – 12:30	17
		12:30 – 12:40	21	12:30 – 12:40	39	12:30 – 12:40	56	12:30 – 12:40	23
		12:40 – 12:50	155	12:40 – 12:50	40	12:40 – 12:50	57	12:40 – 12:50	32
		12:50 – 13:00	24	12:50 – 13:00	41	12:50 – 13:00	59	12:50 – 13:00	33
13:00 – 13:10	31	13:00 – 13:10	42	13:00 – 13:10	60	13:00 – 13:10	34		

	13:10 – 13:20	35	13:10 – 13:20	46	13:10 – 13:20	61	13:10 – 13:20	43
	13:20 – 13:30	205	13:20 – 13:30	47	13:20 – 13:30	256	13:20 – 13:30	113
13:15 – 14:30	Lunch Break [Venue: Oak Mess]							
14:30 – 15:00	Invited talk by: Prof. MR Sanjay (King Mongkut's University of Technology North Bangkok, Thailand) [Venue: Hall A, Online Mode] Title: Natural fibers: An environmentally acceptable and sustainable green material for polymer composites				Invited talk by: Dr Amit K Gupta (R&DE Pune DRDO, India) [Venue: Hall B] Title: Manufacturing of High Performance Composites for Defence Applications			
15:00 – 15:30	Tea Break [Venue: Auditorium Foyer]							
	<b>Technical sessions 2 (Four parallel sessions)</b>							
15:30 – 17:00	[Venue: Hall A] Session Chairs: Dr Amit K Gupta & Prof Sarthak Coordinators: Shadab, Rishub		[Venue: Hall B] Session Chairs: Prof Deepak Sachan & Prof Gajendra Coordinators: Kishan, Lokesh		[Venue: C&P Meeting Room III] Session Chairs: Prof Talha & Prof Sarabjit Singh Coordinators: Abhishek, Sudhir		<b>Online Sessions</b> [Venue: C&P Meeting Room II] Session Chairs: Prof Parmod & Prof Tarlochan Singh Coordinators: Aditya, Aatish	
	<b>Time</b>	<b>Paper ID</b>	<b>Time</b>	<b>Paper ID</b>	<b>Time</b>	<b>Paper ID</b>	<b>Time</b>	<b>Paper ID</b>
	15:30 – 15:40	62	15:30 – 15:40	80	15:30 – 15:40	97	15:30 – 15:40	63
	15:40 – 15:50	65	15:40 – 15:50	82	15:40 – 15:50	88	15:40 – 15:50	70
	15:50 – 16:00	67	15:50 – 16:00	83	15:50 – 16:00	108	15:50 – 16:00	71
	16:00 – 16:10	68	16:00 – 16:10	85	16:00 – 16:10	110	16:00 – 16:10	86
	16:10 – 16:20	69	16:10 – 16:20	89	16:10 – 16:20	111	16:10 – 16:20	91
	16:20 – 16:30	78	16:20 – 16:30	90	16:20 – 16:30	115	16:20 – 16:30	98
	16:30 – 16:40	168	16:30 – 16:40	94	16:30 – 16:40	126	16:30 – 16:40	99
	16:40 – 16:50	175	16:40 – 16:50	96	16:40 – 16:50	132	16:40 – 16:50	107
16:50 – 17:00	181	16:50 – 17:00	258			16:50 – 17:00	117	
19:00	<b>Cultural Program &amp; Gala Dinner [Venue: Auditorium and Fountain Park]</b>							

<b>Day 2: Friday, 21<sup>st</sup> June 2024</b>										
09:00 – 12:00	Registration [Venue: Auditorium Foyer]									
10:00 – 10:45	Plenary talk by: Prof Inderdeep Singh ( <i>IIT Roorkee, India</i> ) [Venue: Auditorium] <b>Title: Good Quality Joints in Composite Materials: A Myth or Reality</b>									
10:45 – 11:15	Group Photograph & Tea Break [Venue: Auditorium Foyer]									
11:20 – 11:55	Invited talk by: Dr Debdatta Ratna ( <i>Naval Materials Research Laboratory, DRDO</i> ) [Venue: Hall A, Online Mode] <b>Title: Toughened Polymer Matrix Composites for Industrial Applications</b>									
12:00 – 13:30	<b>Technical sessions 3 (Four parallel sessions)</b>									
	[Venue: Hall A] Session Chairs: Prof CK Nirala & Prof Raj Kiran Coordinators: Avinash, Lokesh		[Venue: Hall B] Session Chairs: Prof Shashi Prakash & Prof Raj Kumar Sahu Coordinators: Aatish, Manish		[Venue: C&P Meeting Room III] Session Chairs: Dr Somnath & Prof Rajneesh Coordinators: Rampal, Sudhir		<b>Online Sessions</b>		[Venue: CV Conference Room] Session Chairs: Prof Subhamoy Coordinators: Aditya, Maninder	
	<b>Time</b>	<b>Paper ID</b>	<b>Time</b>	<b>Paper ID</b>	<b>Time</b>	<b>Paper ID</b>	<b>Time</b>	<b>Paper ID</b>	<b>Paper ID</b>	
	12:00 – 12:10	116	12:00 – 12:10	139	12:00 – 12:10	235	12:00 – 12:10	120	08	
	12:10 – 12:20	123	12:10 – 12:20	152	12:10 – 12:20	166	12:10 – 12:20	125	259	
	12:20 – 12:30	141	12:20 – 12:30	153	12:20 – 12:30	169	12:20 – 12:30	136	179	
	12:30 – 12:40	142	12:30 – 12:40	158	12:30 – 12:40	177	12:30 – 12:40	143	162	
	12:40 – 12:50	147	12:40 – 12:50	159	12:40 – 12:50	178	12:40 – 12:50	200	251	
	12:50 – 13:00	148	12:50 – 13:00	160	12:50 – 13:00	75	12:50 – 13:00	213	93	
	13:00 – 13:10	149	13:00 – 13:10	163	13:00 – 13:10	79	13:00 – 13:10	221	72	
13:10 – 13:20	151	13:10 – 13:20	164			13:10 – 13:20	112	227		
13:20 – 13:30	185	13:20 – 13:30	183			13:20 – 13:30	182	188		
13:15 – 14:30	Lunch Break [Venue: Oak Mess]									
14:30 – 15:00	Invited talk by: Dr Rakesh Kr Bhardwaj ( <i>Defence Electronics Application Laboratory, India</i> ) [Venue: Hall A] <b>Title: Composites for Electronic Enclosure</b>									
15:00 – 15:30	Tea Break [Venue: Auditorium Foyer]									
<b>Technical sessions 4 (Four parallel sessions)</b>										

15:30 – 17:00	[Venue: Hall A] Session Chairs: Prof Atul & Prof Muslim Malik Coordinators: Avinash, Lokesh		[Venue: Hall B] Session Chairs: Prof Rahul Vaish & Prof Shashank Pathak Coordinators: Rohit, Manish		[Venue: C&P Meeting Room III] Session Chairs: Prof Viswanath & Prof Ravindra Bukke Coordinators: Rampal, Sudhir		<b>Online Sessions</b> [Venue: C&P Meeting Room II] Session Chairs: Prof Sarthak & Prof Shashwat Coordinators: Abhijay, Kshitij	
	<b>Time</b>	<b>Paper ID</b>	<b>Time</b>	<b>Paper ID</b>	<b>Time</b>	<b>Paper ID</b>	<b>Time</b>	<b>Paper ID</b>
	15:30 – 15:40	186	15:30 – 15:40	207	15:30 – 15:40	234	15:30 – 15:40	73
	15:40 – 15:50	187	15:40 – 15:50	208	15:40 – 15:50	238	15:40 – 15:50	228
	15:50 – 16:00	189	15:50 – 16:00	212	15:50 – 16:00	64	15:50 – 16:00	230
	16:00 – 16:10	191	16:00 – 16:10	214	16:00 – 16:10	271	16:00 – 16:10	231
	16:10 – 16:20	197	16:10 – 16:20	216	16:10 – 16:20	76	16:10 – 16:20	233
	16:20 – 16:30	204	16:20 – 16:30	225	16:20 – 16:30	193	16:20 – 16:30	246
17:10 – 17:30	<b>Valedictory [Venue: Auditorium]</b>							
19:30	<b>Gala Dinner [Venue: Fountain Park]</b>							

**Contributory Paper Details**

<b>Abstract/Paper ID</b>	<b>Abstract/Paper Title</b>	<b>Name of Presenting Author</b>
<b>6</b>	Failure pressure strength of wall loss defective pipelines repaired with composite fiber-reinforced polymer	Sandip Rudha Budhe
<b>8</b>	Effect of wing attachment bolts on the drooping phenomenon in CFRP composite aircraft wing	Arunkumar V
<b>10</b>	Retention of mechanical properties of carbon/fiber epoxy vitrimer composite material: Towards recyclable and reusable carbon fiber	Sudhanshu Nartam
<b>12</b>	Experimental validation of permeable composite conical shell for combined external pressure and axial load	Gopikrishna R
<b>17</b>	REVIEW OF NANOCARBON TUBES AND NANOMATERIALS IN CIVIL ENGINEERING INDUSTRY	GIRISH C GANDHI

18	Effect of MWCNT on Basalt Fibre-Reinforced Polymer composite at elevated temperatures.	Adhiraj Pratap Singh
20	Nonlinear Performances of Laminated Composite Skewed Cylindrical Shells under Hygrothermal Environment with Imperfection	Ashish Giri
21	Numerical modeling of damage behaviour in unidirectional carbon/carbon composites	Dr. Pavan G S
23	Seismic performance based assessment of Concrete Bridge piers reinforced with Fe- based SMA bars	N.Meenalochani
24	Effect of interfacial VACNT on the transverse deformation of antisymmetric angle-ply composite laminates	Leeladhar Rajput
31	Multi-level modelling of epoxy/MWCNT composite and experimental validation	Nilanjan Das Chakladar
32	Enhancing compressive strength of aluminum composite through stir casting technique with TiO <sub>2</sub> /BN reinforcement	ANIL CHOURASIYA
33	“Study microstructural characteristic and mechanical behavior of bimodal hybrid TiO <sub>2</sub> -SiC/Al6082 composites fabricated by stir-squeeze casting”	Subodh Kumar
34	Powder metallurgy processing of Al-HEA composite: Microstructure and mechanical characteristics.	Pradip Kumar Verma
35	Investigation of sandwich plates subjected to low-velocity impact	Rahul Reddy Gajjala
36	Behaviour of Syntactic Foam under Triaxial Stress State for Infrastructure Applications	Khaja Kamal Fayaz Ahmed
37	Polymer-Ceramic PVDF-TrFE-BSTO composite synthesis for fabricating high frequency ultrasound sensors	Nagendra Singh
38	PVDF-Bi <sub>2</sub> O <sub>3</sub> Composite film synthesis for fabricating high frequency ultrasound sensors.	Shivam Rakhoullya
39	Maximizing Efficiency and Accuracy: Exploring the Role of Maxwell Elements in Viscoelastic Material Modelling	Dr. Raj Kumar Sahu
40	Bird Strike on Hybrid Composite Coupon- Test/Analysis Correlation	Prakash Jadhav
41	Natural Frequency Behavior of Composite Laminated Plates with an Extended Finite Element Approach	Kishan Dwivedi
42	Deformation characteristics of hyperelastic material in the presence of a crack by three-way synchronized measurements of load, strain and optical imaging	Spandan Bandyopadhyaya
43	A FOCUS ON PRODUCTION AND CHARACTERISATION OF T700 CARBON COMPOSITE BY ADDITIVE MANUFACTURING	ARUN KRISHNAN
46	Stress distribution and failure pattern of stairwise staggered composites	RESMY J DEVAN
47	Probability-Based Analysis of Mg-based Aircraft Fuselage Section by using Drop Test	DR.SAKSHI SINGH
53	Design and development of CFRP reflector for 4.6m diameter ship Borne terminal(SBT) Antenna	Varun kumar/D Mahesh Prakash/Ceena Sunil
54	Manufacturing of light-weight metallic components using extrusion-based metal additive manufacturing	Naveen Kumar Bankapalli
56	Investigations on surface damage due to water jet erosion of glass fiber-reinforced polymer composites	Manjeet Rani
57	Effect of microwave heat treatment on mechanical properties of carbon fiber reinforced PEEK composites developed using compression molding	Sudhir kumar Chaudhary

<b>59</b>	Free Vibration Analysis of Variable Stiffness Laminated Composite Plates with Embedded Delamination	Ankit Singh chandel
<b>60</b>	Experimental Study on the Influence of Aspect Ratio and Pulse Shaper on the Dynamic Behavior of Epoxy Polymer	Muddu Rahul Bharadwaj
<b>61</b>	Experimental and Modelling Studies on the Dynamic Behaviour of Epoxy under Compressive Loading	Palak Bhagoria
<b>62</b>	Delamination Behaviour of CFRP Laminated Composites using Cohesive Zone Modelling: A Numerical study	Rohit Kumar
<b>63</b>	Effect of Cryorolling on Microstructure and Mechanical Properties of 8011 Aluminium Alloys”	Manish N Parmar
<b>64</b>	Parametric optimization of microwave-drilled holes in kenaf-reinforced polypropylene composite using response surface methodology (RSM)	Rampal
<b>65</b>	The effect of molarity of ferrocene solution on the carbon nanotubes growth over the carbon fiber surface using microwave radiation	Mohd Shadab Ansari
<b>66</b>	A Comprehensive Study on Mechanical Properties of Carbon Fiber Reinforced Plastics with Graphene Nano Platelets at Varied Compositions	Rishubh Gupta
<b>67</b>	Vibration Characteristics of Functionally Graded Porous Beam Embedded in Elastic Foundations using Refined Higher Order Shear Deformation Theory and Boundary Characteristics Orthogonal Polynomial	Subrat Kumar Jena
<b>68</b>	Development of Aluminium based functionally graded porous material by Selective laser melting	Jasvinder Singh
<b>69</b>	A Review of the Tribological Properties of Nanocomposites	Ansh Shah
<b>70</b>	Development and Mechanical Characterization of Hybrid Polymer Composite Reinforced with Zinc-Oxide	MAHESH KUMAR MERAVI
<b>71</b>	Mecahnical charcterization of hybrid polymer compositereinforced with graphene-oxide	S KARTIK SHUBHAM
<b>72</b>	Determination of Optimal Process Parameters in AWJ Machining of AA-6061 [B4C-SiC] Hybrid Metal Matrix composite using Grey Relational Analysis	KETAN D. PANCHAL
<b>73</b>	Tribological and profilometer analysis of hybrid metal matrix composite under varying normal load and sliding velocity.	Bhagwan Singh Lovevanshi
<b>75</b>	Investigating the effect of ply angle on different dome geometry	Chaitanya Apte
<b>76</b>	Effect of cleat material, cleat thickness and bolt diameter on moment rotation capacity of FRP beam-to-column joint: Experimental and Numerical investigation	Ajith Mathew
<b>78</b>	“Effect of Surathkal Beach Sand on Mechanical Properties of Polymer Composites”	ARUNKUMAR BHEEMANALLI
<b>79</b>	Mechanical Behaviour Comparison of Direct Connection Methods in FRP Beam-to-Column Joint	Dr. Yashida Nadir
<b>80</b>	Effect of boundary conditions on bistable behavior in rectangular plates	Abhijeet Kumar
<b>81</b>	Comparative study of hemp and flax based bio-composites at different weight fraction	Aatish Sharma
<b>82</b>	3D Printing Of Hydrogel Composites For Bioprosthetic Tricuspid Heart Valve - A Review	Salay Dhruv
<b>83</b>	Design and Performance Evaluation of a Ceramic Composite Insulation for High-Temperature Applications	Chandan Mukherjee
<b>85</b>	A numerical estimation for transverse elasto-plastic behavior of the unidirectional fiber reinforced compo-sites	Şafak YILMAZ

<b>86</b>	A Comprehensive Literature Review on Bamboo Fibre-Reinforced Composites: Mechanical Properties, Manufacturing Processes, and Applications	Deepak Thakare/ Surbhi Razdan
<b>88</b>	Meso-scale Approach for Predicting Thermo-mechanical Characteristics of Marine Grade Glass Fiber Reinforced Polymer Composites	Abhishek Kumar Gupta
<b>89</b>	Simultaneous Stiffness and Damping of Triangle and Hexagon Based Composite Structures	Sandip Haldar
<b>90</b>	An Energy based perspective into deformation of plates with anisotropic material properties	Anup Kumar Pathak
<b>91</b>	The application of a Geometrical Fluid Model to analyze the blood rheology and the pulsatile flow in arteries with stenosis	Karan Kamboj
<b>93</b>	Comparative Study of Diagrid and Voronoi Grid in Tall Building using SAP2000: A Way Forward”.	Niharika Sharma
<b>94</b>	"Microwave drilling of sisal epoxy composite plate under graphite tool with conical tip"	Mohit kumar
<b>96</b>	Thermal vibration characteristics of functionally graded carbon nanotube reinforced sandwich plate with auxetic core using isogeometric analysis	VASUDEV SINGH SENGAR
<b>97</b>	Blast response of sandwich panel with re-entrant auxetic core	Aswanth V Utham
<b>98</b>	Natural convection heat transfer through composite aluminum heated tube	Dr. Ramesh Chandra Nayak
<b>99</b>	Asymptotically correct dimensional reduction of hyperelastic film fabric laminate using VAM	Dr. Ramesh Gupta Burela
<b>107</b>	Recent trends in depositing composite layer on AISI 1020 steel substrate by different cladding methods: A Review	Kamlesh Kumar Singh
<b>108</b>	Synthesis of Cerium Oxide Nanozymes and their Antibacterial Action	PRIYANKA RAJWANI
<b>110</b>	Machinability study of the Carbon fiber reinforced polymer (CFRP) using ultrasonic assisted rotary electrochemical discharge machining (UR-ECDM) method	Dr. SARBJIT SINGH
<b>111</b>	FATIGUE STUDY OF COMPOSITE LUG	KARTHIK S SARODE
<b>112</b>	Damage detection in composite structures using time-frequency analysis	Angel Mary Lakra
<b>113</b>	Studies on Fiber/Matrix Interface Degradation in Composites due to Moisture Absorption	MANIKANDANBABU K
<b>115</b>	Sub-surface damage detection in GFRP composites using electrical impedance tomography	Naresh V Datla
<b>116</b>	Investigation and Analysis of Energy Absorption Capacity of Epoxy/Carbon Woven Composites of Various Weave Patterns	Avinash Thakur
<b>117</b>	Vibration Analysis of Doubly Curved Shells Laminated Composite Using Carrera Unified Formulation	Satish Sahu
<b>120</b>	Study on a combined pile raft foundation having batter piles subjected to lateral loads using finite element analysis	Reshma Illuri
<b>123</b>	Tribological and Mechanical behaviour of hydrogel nanocomposites: a review	Jenish Patel
<b>125</b>	Effect of Surface Modifications on Drag Reduction of Delta Wing	Aditya Nistala
<b>126</b>	Development of Mg-Zn-Zr composites with refined microstructure using Friction Stir Processing	Dr. Kamal Kumar

<b>132</b>	A Comparative Exploration of Tensile and Flexural Resistance in Kevlar and Carbon Fiber-Reinforced Thin Composite Structures	RENU SAHU
<b>136</b>	Investigating the Crashworthiness Behaviour of Crash Box Filled with Hybrid Lattice Filler	Rajnandini Das
<b>139</b>	Surface Roughness Improvement of 3D printed PAHT CF15 Composites Using Laser Texturing	Shashi Prakash
<b>141</b>	Effect of fabrication defects on elastic and fatigue properties of carbon fibre reinforced polymer composites	Lokesh Raj
<b>142</b>	A Technical Status Review of 3D Printing Advancements and Application for Military Engineering	Vaishnavi Tandel
<b>143</b>	Status of Technological Developments in Materials for 3D Printing and Application in Military Engineering	Hetvi Shukla
<b>147</b>	Machining of composite materials using ECDM process: An overview	ARUN NANDA
<b>148</b>	A review on processing of natural fiber polymer matrix composites via microwave energy	Rohit Saini
<b>149</b>	Drilling of Polymer Matrix Composites using Ultrasonic machining process: An overview	Navjot Singh
<b>151</b>	Development of an Armoured Vehicle for Special Army Operations and a Systematic Review of All-Terrain Vehicles in War Time	Saurav B Solanki, Navdip B Chauhan
<b>152</b>	Investigating the Impact of Varied Current and Rota-tional Speeds on the Machining Performance of Al7075 Alloy using Electrical Discharge Turning	Roopak Varshney
<b>153</b>	Free vibration response of thickness-tapered laminated plates under hygrothermal environment	Jatin Poojary
<b>155</b>	Crack growth study in carbon fiber reinforced composite (CFRC) using phase field method	Manish Singh Rajput
<b>158</b>	Physicochemical analysis of PCL/MWCNTs nano-bio-com-posites as a maxillofacial implant material for bone tissue re-generation	Pradeep P V
<b>159</b>	Enhancing Corrosion Resistance of Aluminum 6082 in Aqueous Urea Solution: A Cost-Effective Polymeric Coating Approach	SRINIDHI MANCHIMSETTY
<b>160</b>	Optimization of Material Characteristics in LTD of ZTA Composite	Dr. Surendra Kumar Saini
<b>162</b>	Hybrid Composite Aluminium 5083 reinforced with Titanium dioxide and Haematite with	Manoj Kumar K
<b>163</b>	Nonlinear bending analysis of sandwich beams with auxetic honeycomb core and curvilinear fiber facesheets	Krishan Kumar Gupta
<b>164</b>	Deep Learning Approaches for Vision Transformers Based Detection of Surface Defects in Aluminium Die Casting	Varun Bhat and Veeresh G Balikai
<b>166</b>	Warpage in 3D Printed Nylon-Based Carbon Fiber Composites	Vishal Gupta
<b>168</b>	THERMAL BUCKLING OF 3D PRINTED AUXETIC CORE SANDWICH BEAMS	JEYARAJ P
<b>169</b>	Free vibration Analysis of Functionally Graded Folded Plates under Thermal Environment	Rajshekhar Das
<b>175</b>	Investigation on corrosion behavior of polydimethylsiloxane and nanofillers-based polymer nanocomposite coated galvanized iron	RAMESH M R
<b>177</b>	"Frequency domain analysis of the viscoelastic composite structure using complex modulus method" and "Delamination Analysis of the Lap Shear Joint Made with Fibre Reinforced Plastic (FRP) Composite"	Vishwanil Sarnaik



<b>178</b>	Experimental Investigation on use of Parali Powder as partial replacement of Sand in Concrete for Sustainable Development	Dr. Ronak Motiani
<b>179</b>	Effect of Composition on Structural evolution and Glass forming ability of the Zr-Ag alloys during rapid solidification process using MD Simulations	Dr. Soumya Saswati Sarangi
<b>181</b>	Fatigue and Modal analysis of pylon of aircraft using Metal matrix composites	Shubham sharma
<b>182</b>	Determination of effective mechanical properties of Menger sponge-based composite: a finite element study	Manish Kumar Sharma
<b>183</b>	Effect of light and heavy fluid loading on the vibroacoustic behaviors of viscoelastic composite core sandwich panel	Rakesh Panda
<b>185</b>	Comparative finite element analysis of CoCr and CFR-PEEK tibial implant for total ankle replacement	Jyoti
<b>186</b>	Design & Analysis of Piezoelectric Energy Harvester for the Cochlear Implant	Vishesh Singh
<b>187</b>	Finite Element Modelling of Re-entrant Honeycomb Auxetic Metamaterial and to Find its Effective In-Plane Properties	Amit Pandey
<b>188</b>	Buckling and Free Vibration of Nonuniformly Heated Functionally Graded polymer composite plates reinforced with graphene nanoplatelets	Krishan Chander
<b>189</b>	Video motion amplification technique for structural health monitoring for concrete bridge structures	Maninder Pal Singh
<b>191</b>	Uncertainty quantification of a concrete gravity dam using Polynomial chaos expansion	Kshitij Tandon
<b>193</b>	Effect of Stacking sequence on the delamination of lap shear joint composed of fiber reinforced plastic	Rakesh Deore
<b>197</b>	Load carrying capacity of repaired Al7075-T6 alloy through carbon fiber reinforced epoxy patch	Subhajith Roy
<b>200</b>	Study Of Mode-I Interlaminar Fracture Toughness in Triaxial Braided Composites	Dr. Gayatri Vineela Marrivada
<b>204</b>	MODEL ASSISTED NON-DESTRUCTIVE EVALUATION OF DEFECTS USING TERAHERTZ TIME DOMAIN ANALYSIS	Vikas Tomar
<b>205</b>	Design and Development of Self-Deployable Composite Structures Using Kevlar Fibre Reinforcement Plastic	PREMPAL KUMAR
<b>207</b>	EFFECT OF DEGRADATIVE ENVIRONMENTS ON THE PERFORMANCE OF FIRE PROXIMITY CLOTHING	SHIVANGI DWIVEDI
<b>208</b>	Enhancing Mechanical Properties of Polyethylene-based Nanocomposites Through Graphene Oxide: A Molecular Dynamics-based Study	Bharat Bhushan Sharma
<b>212</b>	Free vibration characteristics of FG beams using finite element analysis	Mehakdeep kaur
<b>213</b>	Structural Analysis of an Ornithopter Wing	Yash Shah
<b>214</b>	On the free vibration behavior of auxetic metamaterial beams using first-order shear deformation theory	Arshnoor Singh
<b>216</b>	Examining the Seismic Impact of Composite Structures by Main Shocks and aftershocks Effect	Dr. Kavita Verma
<b>221</b>	Analysis of Two-stage Helical Gearbox for All Terrain Vehicle	Nishant Pandit
<b>222</b>	Enhancing the performance of Injection Moulding Machining process by using the response surface methodology	Dr Ashish Goyal

	techniques	
<b>225</b>	4D printing using active composite materials	Pankaj Kumar
<b>227</b>	A Systematic Review of the utilization of various Machine Learning models to predict the Compressive strength	Somanshi Aggarwal
<b>228</b>	Topology Optimization in Additive Manufacturing in the context of Industry 4.0	Jayesh A. Shinde
<b>230</b>	Design and Analysis of an Epicyclic Gear Train for Formula Student Electric Drivetrain	Harsh Vishal Vijekar
<b>231</b>	Design and Analysis of Differential Bar of a Rover	Sakshi Vijay Basrur
<b>233</b>	Thermal and Stress Analysis of Piston and Connecting Rod for Engine Seizure Condition	Reuben Manjaly
<b>234</b>	Sustainable Composite Manufacturing: Analyzing Toray Industries Inc.'s ESG Framework and Operational Efficiency Strategies	Mr. Affan Ali
<b>235</b>	Simulation of Circumferential Semi Elliptical Parthrough Crack in Bi-material Pipe using Extended Finite Element Method	SOMNATH BHATTACHARYA
<b>238</b>	Mechanical behaviour of 3D printed fiber-reinforced soft functional hydrogel composite: A finite element study	Rohit Goyal
<b>246</b>	Intelligent Manufacturing in the Tennessee Eastman Process through Statistical Ranking Model	Prateek Upadhayay/ Nishant Prajapati/ Rudransh Kherra/ Sanjay Kumar
<b>250</b>	Static analysis of composite and sandwich spherical shells using a four-node flat shell quadrilateral finite element	Vaishali Atulkumar Dagade
<b>251</b>	Aerodynamic Performance Analysis of a Three-Bladed Vertical Axis Wind Turbine Using Composite and Sandwich Materials.	Yash Dagade
<b>254</b>	Experimental Investigation and Optimization of Gear Oil for Different Varying Concentration of Graphene Nanoparticles as additive	Vaijanath admankar/ Jitendra bhat/ Bhapkar US
<b>256</b>	Polymer based bilayer electrospun scaffold with enhanced surface properties for skin tissue engineering application	Neha Thakare
<b>258</b>	Creating State-of-the-Art Thin Film Nanocomposite Membranes through Cutting-Edge Vapor Phase Interfacial Polymerization for Effective Separation Solutions	Dr. Pravin G. Ingole
<b>259</b>	Statistics of Local Fields in Hyperelastic Composites using Full-Field Homogenization	Krishna Murthy Pabpu
<b>271</b>	High strain rate testing and simulation of 3D-printed carbon fibre composites	Solaipraksh V, Raguraman Munusamy