



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

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కాకతీయ ప్రौद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६०१५, तेलंगाना, भारत

కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - ౫౦౬ ౦౧౫ తెలంగాణ, భారతదేశము

(An Autonomous Institute under Kakatiya University, Warangal)

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DEPARTMENT OF MECHANICAL ENGINEERING

Student Seminars Linked to SDGs

Academic Year: CAY (2024-25), CAYm1 (2023-24), CAYm2 (2022-23)

CAY 2024-25

Batch No.	Roll Number	Seminar Topic	SDGs Addressed	Name of the Supervisor
1	B23ME078L	Friction stir additive manufacturing (FSAM)	SDG8: Decent Work and Economic Growth SDG9: Industry, Innovation, and Infrastructure SDG 12: Responsible Consumption and Production	Dr.MD.Sameer
	B23ME076L			
	B22ME025			
	B22ME023			
2	B22ME001	AI/ML in Material Science and Manufacturing	SDG8: Decent Work and Economic Growth SDG9: Industry, Innovation, and Infrastructure	Dr. U. Shrinivas Balraj
	B22ME017			
	B22ME011			
	B22ME013			
3	B22ME004	Review on optimization of metal matrix composite materials	SDG 12: Responsible Consumption and Production	Dr.J.Laxman Dr G.Srinivasa rao
	B22ME008			
	B22ME010			
	B22ME005			
4	B22ME003	Thermal Management of Electronics	SDG9: Industry, Innovation, and Infrastructure SDG 12: Responsible Consumption and Production	Sri. S. Ramesh Sri.S. Anil Kumar
	B22ME024			
	B23ME073L			
5	B23ME080L	Study Design and fabrication of Automation Kit for Smart House	SDG 11: Sustainable Cities and Communities – Make cities and human settlements inclusive, safe, resilient, and sustainable	Dr K.Sridhar Dr G.Ganesh Kumar
	B23ME070L			
	B23ME077L			
	B22ME012			
6	B22ME009	Additive manufacturing for scaffolds composites	SDG8: Decent Work and Economic Growth SDG9: Industry, Innovation, and Infrastructure SDG 12: Responsible Consumption and Production	Dr. A Devaraj Dr. P Srikanth
	B22ME014			
	B23ME079L			
	B22ME016			
7	B23ME074L	Evaluation of mechanical properties of porous Alumina Ceramics using rice husk as a pore forming agent	SDG9: Industry, Innovation, and Infrastructure SDG 13: Climate Action	Dr. G. srinu
	B23ME066L			
	B23ME065L			
	B23ME071L			

Batch No.	Roll Number	Seminar Topic	SDGs Addressed	Name of the Supervisor
8	B22ME015	Design for Additive manufacturing.	SDG8: Decent Work and Economic Growth SDG9: Industry, Innovation, and Infrastructure SDG 12: Responsible Consumption and Production	Sri M.Anil Kumar
	B22ME027			
	B22ME021			
	B22ME022			
9	B23ME067L	Exploring Cost-Effective Technologies for Carbon Capture and Utilization: A Literature Review"	SDG 13: Climate Action	Sri.K.Kishor Kumar
	B23ME069L			
	B22ME028			
	B21ME046			
10	B23ME081L	Research and develop a design on autonomous water surface cleaning robot.	SDG 11: Sustainable Cities and Communities – Make cities and human settlements inclusive, safe, resilient, and sustainable	Dr.k.Raja Narender Reddy & Sri.A.Hari Kumar
	B23ME075L			
	B23ME064L			
	B22ME019			
11	B23ME061L	Unconventional Manufacturing Techniques for Composites (URSC)	SDG8: Decent Work and Economic Growth SDG9: Industry, Innovation, and Infrastructure SDG 12: Responsible Consumption and Production	Dr. P. Prabhakara Rao & Dr.S. Chandramouli
	B23ME082L			
	B21ME043			
	B23ME063L			
12	B23ME068L	Case study on mechanical performance of Biocarbon hybrid polymer composites	SDG8: Decent Work and Economic Growth SDG9: Industry, Innovation, and Infrastructure	Sri Ch.Karunakar
	B23ME072L			
	B23ME062L			
	B22ME006			

CAYm1 2023-24

Batch No.	Roll Number	Seminar Topic	SDGs Addressed	Name of the Supervisor
1	B21ME004	Artificial intelligence based mass distribution for reducing shaking forces and moments in a spatial mechanism	SDG8: Decent Work and Economic Growth SDG9: Industry, Innovation, and Infrastructure	Dr. P.S.S. Murthy
	B21ME015			
	B21ME005			
	B21ME028			
2	B22ME131L	Design for Additive manufacturing.	SDG8: Decent Work and Economic Growth SDG9: Industry, Innovation, and Infrastructure	Sri M. Anil Kumar
	B22ME124L			
	B21ME008			
	B22ME129L			
3	B22ME128L	Fabrication of Metal Foams: A Review	SDG8: Decent Work and Economic Growth SDG9: Industry, Innovation, and Infrastructure	Sri A. Hari Kumar
	B22ME127L			
	B21ME011			
	B21ME021			
4	B21ME010	Additive manufacturing in the field of biomedical applications	SDG8: Decent Work and Economic Growth	Dr. A. Devaraju
	B21ME001			
	B21ME030			
	B21ME002			
5	B22ME125L	Review on optimization of natural composite materials	SDG8: Decent Work and Economic Growth	Dr. J. Laxman
	B21ME022			
	B21ME009			

Batch No.	Roll Number	Seminar Topic	SDGs Addressed	Name of the Supervisor
6	B22ME126L	Enhancing Properties of Natural Fiber Composites through Natural Fillers: A Path Towards Sustainable Materials	SDG8: Decent Work and Economic Growth	Dr. K. Raja Narender Reddy
	B22ME123L			
	B21ME023			
	B21ME018			
7	B22ME122L	Study on TGA analysis on natural reinforcement composites	SDG8: Decent Work and Economic Growth	Sri Ch. Karunakar
	B21ME025			
	B21ME029			
	B21ME019			
8	B21ME003	Numerical and experimental analysis of solar collectors with different application	SDG8: Decent Work and Economic Growth	Dr. G. Srinivasa Rao
	B22ME130L			
	B22ME121L			
	B21ME017			
9	B21ME020	Study on Conjugate Mixed Convection	SDG8: Decent Work and Economic Growth	Dr. G. Ganesh Kumar
	B21ME012			
	B21ME016			
10	B21ME032	Microstructures and properties of high-entropy alloys.	SDG8: Decent Work and Economic Growth	Dr. MD. Sameer
	B21ME047			
	B22ME139L			
	B21ME045			
11	B21ME036	Mechanical properties evaluation sustainable porous bricks using rice husk	SDG8: Decent Work and Economic Growth	Dr. G. Srinu
	B21ME054			
	B21ME056			
	B21ME040			
12	B21ME042	Study of Fuel Cell	SDG8: Decent Work and Economic Growth	Sri S.Anil Kumar
	B21ME051			
	B22ME138L			
	B21ME049			
13	B22ME140L	Fabrication of a Hybrid Fibre and Multi Reinforcement Epoxy Composite for High Impact Strength	SDG8: Decent Work and Economic Growth	Dr. P. Prabhakar Rao
	B21ME052			
	B21ME041			
	B21ME053			
14	B21ME059	SUSTAINABILITY in manufacturing	SDG8: Decent Work and Economic Growth	Dr. U. Shrinivas Balraj
	B21ME039			
	B21ME048			
	B21ME058			
15	B22ME134L	Review on Centralized Monitoring System for Street Light Fault Detection and Location Tracking	SDG8: Decent Work and Economic Growth	Sri K. Kishor Kumar
	B22ME132L			
	B21ME050			
	B21ME046			
16	B21ME031	Microchannel Heat Sink	SDG8: Decent Work and Economic Growth	Sri S. Ramesh
	B21ME037			
	B22ME136L			
	B21ME035			

Batch No.	Roll Number	Seminar Topic	SDGs Addressed	Name of the Supervisor
17	B21ME044	Characterization and Wear Behavior of Aluminum metal matrix composites Reinforced with Agricultural Wastes Particulates	SDG8: Decent Work and Economic Growth	Dr. S. Chandramouli
	B22ME141L			
	B21ME034			
	B22ME135L			
18	B21ME057	Review on available systems to prevent underloading /overloading of railway wagons	SDG8: Decent Work and Economic Growth	Dr. P. Srikanth
	B21ME038			
	B22ME137L			
19	B22ME133L	Exergy analysis of a thermal power plant	SDG8: Decent Work and Economic Growth	Dr. K. Sridhar
	B21ME033			
	B21ME055			
	B22ME142L			

CAY m2 2022-23

S. No.	Roll No.	Seminar Topic	SDGs Addressed	Name of the Supervisor
1	B20ME062	Working of Solenoid Engine	SDG 8. Decent work and Economic Growth	Dr. K. Eswaraiah
2	B20ME064	Intelligent Speed Adaptation and Accident Avoidance System	SDG 8. Decent work and Economic Growth	Dr. P. Srikanth
3	B20ME066	Automotive Batteries	SDG 8. Decent work and Economic Growth	Dr. G. Ganesh Kumar
4	B20ME067	A Review on HSFSW of AA6063-T6 Aluminium Alloy in Battery Trays for Electrical Vehicles	SDG 8. Decent work and Economic Growth	Dr. A. Deva Raju
5	B20ME069	Scram Jet Engine for Imposed Agility	SDG 8. Decent work and Economic Growth	
6	B20ME070	Paper Battery	SDG 8. Decent work and Economic Growth	Dr. J. Laxman
7	B20ME071	Self-Balancing Robot	SDG 8. Decent work and Economic Growth	
8	B20ME073	Solar Mobile Charger	SDG 8. Decent work and Economic Growth	Dr. G. Srinivasa Rao
9	B20ME076	Electromagnetic Brakes	SDG 8. Decent work and Economic Growth	Dr. P. Srikanth
10	B20ME077	Wind Energy Train	SDG 8. Decent work and Economic Growth	
11	B20ME078	Soft Robotics A Bio- Inspired Evolution in Robotics	SDG 8. Decent work and Economic Growth	
12	B20ME080	Nanomaterials: Properties, Synthesis Methods and Applications	SDG 8. Decent work and Economic Growth	Sri A. Hari Kumar
13	B20ME081	Anti-Lock Braking system	SDG 8. Decent work and Economic Growth	
14	B20ME085	AI Based Automatic Car	SDG 8. Decent work and Economic Growth	Dr. MD. Sameer
15	B20ME088	Cyborgs	SDG 8. Decent work and Economic Growth	Dr. G. Srinu

S. No.	Roll No.	Seminar Topic	SDGs Addressed	Name of the Supervisor
16	B20ME090	High Speed Machine	SDG 8. Decent work and Economic Growth	
17	B20ME091	Hyperloop System	SDG 8. Decent work and Economic Growth	Sri S. Sripathy
18	B20ME092	Electromagnetic Suspension	SDG 8. Decent work and Economic Growth	
19	B20ME094	Car Controller Using Bluetooth Communication	SDG 8. Decent work and Economic Growth	Sri V. Srikanth
20	B20ME097	Advance Electric Vehicles	SDG 8. Decent work and Economic Growth	Sri D. Sammaiah
21	B20ME098	Cryogenic Engine	SDG 8. Decent work and Economic Growth	
22	B20ME099	Under Water Welding	SDG 8. Decent work and Economic Growth	
23	B20ME101	Regeneration Braking system in Automobiles	SDG 8. Decent work and Economic Growth	Sri A. Hari Kumar
24	B20ME106	3D Metal Printing	SDG 8. Decent work and Economic Growth	Sri V. Rajesh
25	B20ME108	Regenerative Braking System	SDG 8. Decent work and Economic Growth	
26	B20ME109	Agriculture Drone For Spraying Fertilizers And Pesticides	SDG 8. Decent work and Economic Growth	Sri V. Pradeep
27	B20ME113	CFD Analysis of a Fluid Flow Over an Extended Surface	SDG 8. Decent work and Economic Growth	Dr. G. Ganesh Kumar
28	B20ME115	Carbon Ceramic Brakes	SDG 8. Decent work and Economic Growth	Dr. J. Laxman
29	B20ME116	Friction Stir Welding	SDG 8. Decent work and Economic Growth	
30	B20ME118	About Bio Fuels	SDG 8. Decent work and Economic Growth	Dr. M. Om Prakash
31	B20ME119	Monocoque Chassis	SDG 8. Decent work and Economic Growth	
32	B21ME129L	Nitrous Oxide System in Automobile	SDG 8. Decent work and Economic Growth	Sri S. Sripathy
33	B21ME130L	Wear Characteristics of Polymer composite Material	SDG 8. Decent work and Economic Growth	
34	B21ME131L	Adaptive Cruise Control	SDG 8. Decent work and Economic Growth	Sri V. Srikanth
35	B21ME132L	Bio Mechatronic Hand	SDG 8. Decent work and Economic Growth	Sri V. Srikanth
36	B21ME133L	Floating Solar Farms	SDG 8. Decent work and Economic Growth	
37	B21ME134L	A Review on Solar Cooling Technologies	SDG 8. Decent work and Economic Growth	Sri A. Hari Kumar
38	B21ME135L	A Review on Free Valve	SDG 8. Decent work and Economic Growth	
39	B21ME136L	Turbo Charger	SDG 8. Decent work and Economic Growth	
40	B21ME137L	Active Suspension system	SDG 8. Decent work and Economic Growth	Sri V. Rajesh

S. No.	Roll No.	Seminar Topic	SDGs Addressed	Name of the Supervisor
41	B21ME138L	Transparent Solar Technology	SDG 8. Decent work and Economic Growth	
42	B21ME139L	Industrial 4.0 in the Automobile Sector	SDG 8. Decent work and Economic Growth	Dr. MD. Sameer
43	B21ME140L	Additive Manufacturing in Bio-Medical Field	SDG 8. Decent work and Economic Growth	
44	B21ME141L	Wheel Operated Pesticides Sprayer	SDG 8. Decent work and Economic Growth	Sri V. Srikanth
45	B21ME142L	Wind Mill Water Pump	SDG 8. Decent work and Economic Growth	Dr. G. Srinivasa Rao
46	B21ME143L	Magnetic Refrigeration	SDG 8. Decent work and Economic Growth	
47	B21ME144L	Hybrid Electric Vehicles: An Advanced Technology In Automobile to Reduce Fuel Consumption	SDG 8. Decent work and Economic Growth	Dr. M. Om Prakash
48	B21ME145L	3D Printing	SDG 8. Decent work and Economic Growth	
49	B21ME146L	Automotive Batteries	SDG 8. Decent work and Economic Growth	Sri V. Pradeep
50	B21ME147L	Electronic Fuel Injection System	SDG 8. Decent work and Economic Growth	
51	B21ME148L	Renewable energy Sources	SDG 8. Decent work and Economic Growth	
52	B21ME149L	Power Generation With Suspension System	SDG 8. Decent work and Economic Growth	Sri D. Sammaiah
53	B19ME129	Bio-degradable Materials for Tissue Engineering	SDG 8. Decent work and Economic Growth	Dr. A. Deva Raju