



DEPARTMENT OF MECHANICAL ENGINEERING

Details of the Projects for the Academic Year 2024-25

S.No	Title of the Major Project	Regd No	Name of the Student	Name of the Guide
1	Design a flexible, AR integrated warehouse management system for industrial scalability	21KD1A0335	KORADA APPAYYAMMA	Mr.R.Jagadeesh Kumar
		22KD5A0318	KOPPISETTI SANDEEP PRAKASH	
		21KD1A0304	BOORLI CHAITANYA	
		21KD1A0314	CHINTHALAPATI GNANESWAR VARMA	
		21KD1A0329	KALYANAM GANESH	
2	Comparative Numerical investigation of aerodynamic performance decay in two distinct aerofoil under varying rain intensities	21KD1A0301	BONU HEMANT KUMAR	Mr.Jnanaranjan Acharya
		21KD1A0333	KONDAPALLI SAI KUMAR	
		22KD5A0309	GOTTIPALLI DINESH KUMAR	
		21KD1A0323	JALAMADULA GUNASEKHAR	
		21KD1A0339	KOTTALI LAKSHMANA	
3	Design and fabrication of catalytic converter to reduce the emissions in a diesel engine	22KD5A0319	MATTA TARUN TEJA	Mrs.B.Ushaswini
		21KD1A0310	CHALLA VAMSI	
		22KD5A0323	NEYYILA VAMSI KRISHNA	
		21KD1A0308	BURLU KARTHIK	
		21KD1A0331	KILLI PRAVEEN KUMAR	
4	A STUDY OF MICROSTRUTURAL CHARACTERISTIC OF THE COATINGS ON INCONEL BY USING HVOF COATING TECHNIQUE	22KD5A0310	GUNA PRANEETH SWAMY	Mrs.K.Anusha
		22KD5A0324	NULU VASU	
		21KD1A0325	JAMPANA PRUDHVI RAJU	
		21KD1A0318	GANTA VAMSI	
		22KD5A0327	PATURI BHANU PRASAD	
5	Experimental evaluation of different types of serpentine flow field effect on the proton exchange membrane fuel cell performance	22KD5A0320	MUDDU DURGA PRASAD	Mr.D.Srinivasa Rao
		22KD5A0314	KARRI JAGADEESH	
		22KD5A0317	NADIMINTI SAI TEJA	
		22KD5A0301	ADIREDDY V A PRANAY KUMAR	
		21KD1A0345	VANGAPANDU DEEPTHI	
6	Development of Expert System for scheduling the make to order production system with Machine Learning	22KD5A0303	ALLU HIMAVATHI	Dr.K. Sridhar
		22KD5A0322	NEREDIMELLI PRANEETH	
		22KD5A0311	GUTTAPUDI YASWANTH	
		21KD1A0334	KONDRI SHANMUKH RAO	
		21KD1A0326	K. SAI VAMSI	
7	Recyclability Analysis Using Design For Manufacturing And Assembly	22KD5A0307	CHAPPA KRISHNA KOWSHIK	Mr.S.Santhosh Kumar
		22KD5A0308	GANDI GAGAN KUMAR	
		21KD1A0337	KORADA RESHMA	
		22KD5A0302	KILLADA AKASH	
		22KD5A0326	PARISE DUNDI SAKETH RAM	
8	Investigation on microstructural behaviour, mechanical properties and corrosion characteristics of Al 7010 alloy reinforced with Tic-graphene hybrid nano composite by using stir casting	22KD5A0315	KATTA POORNA SAI CHAITANYA RAMALINGAM	Mr. Appanna Duvvarapu
		21KD1A0330	KARANAM SHRAVANA LAXMI	
		21KD1A0305	BUDDEPU.DURGA PRASAD	
		22KD5A0312	JENNA SAMPATH VENKAT DURGA VIJAY KARTHIK	
		21KD1A0319	GAVARA GANESH	
9	Human-robot collaborative assembly systems for productive layout	22KD5A0313	KADALI LOKESH	Mr.P.Kameswara Rao
		21KD1A0312	CHIGURUPALLI SAI SANDEEP	
		22KD5A0305	BOBBADI LOKESH	
		21KD1A0307	BURLI ROHITH KUMAR	
		22KD5A0321	IPPILI RAMAKRISHNA	
10	Modelling and optimization of plug in fuel cell electric vehicle using MATLAB/Simulink	21KD1A0343	NADIPILLI CHOODAMANI SURYA CHERISHMA	Dr.K.V.Koteswara Rao
		21KD1A0328	KALLA GURUVARDHAN	
		21KD1A0320	GEDALA MANOJ	
		21KD1A0316	DHULIPALA VENKATA JOGESH	
		21KD1A0332	KOMMURU LOHITH KUMAR	
11	Optimization of material parameters & materials, reducing	20KD1A0316	BORA VARALAKSHMI	Dr.Satish Pujari



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	time in 3D printing by using Machine learning	21KD1A0342	LATCHUPATULA MAHESH KUMAR	
		21KD1A0315	DASARI JOSEPH KIRAN	
		21KD1A0340	KURUMUJU EMANTH	
		21KD1A0303	BODDANA RAJESH	
		21KD1A0313	CHINTADA MANIBABU	
12	Experimental analysis and heattransfer characteristics of carradiator and prediction of data using ANN &ML	22KD5A0325	PALLANTLA MANIKANTA	Dr.S.Ravi Teja
		21KD1A0321	GOPSETTI SATYA BHARAT	
		21KD1A0341	LAKKOJI TARUN	
		21KD1A0302	BOBBILI MANOHAR	
		21KD1A0338	MANDALA YOVA KRISHNA VENKATA SATYAM NAIDU	
		21KD1A0327	KAKI POORNA CHANDRA	
13	Mechanical properties & Microstructural characteristics of friction stir welding (FSW) 5083 & 2195 Aluminum alloys with Graphene Nano particles	22KD5A0316	KILIMI JAYACHANDRA REDDY	Mr G.Ravi
		21KD1A0317	DUVVARAPU JAGADEESH	
		21KD1A0324	JAMI VENKATA SAKETH	
		22KD5A0306	BODDETI JAGAN MOHAN	
		21KD1A0336	KORADA MANI CHANDU	
		21KD1A0344	SEHKARAMANTRI.RAKSHITHA	
14	Enhancing fiber Mechanical Properties through Advanced Nanocoating Development	21KD1A0375	THAMADA VENU	Mr.R.Rama Krishna
		21KD1A0349	MANTRI KUMAR	
		21KD1A0377	UMMIREDI RAGHAVA	
		22KD5A0334	VADAPALLI JAGADEESH	
		22KD5A0352	GIDUTURI SAI ROHITH	
15	Wear Behavior of A356 Composites Reinforced with Nano Fe-Cr Slag Particles	22KD5A0345	TANGETI LOHITH	Dr. Y. Ravi kanth
		22KD5A0343	MAMMULA CHARAN SAI	
		21KD1A0379	VANGAPANDU VENKATESH	
		22KD5A0347	MUDDADA GANESH	
		21KD1A0368	ROUTHU JAYAPRAKASH	
16	Experimental Optimization of Vacuum Heat Treatment and Nanoparticles for Enhancing the Mechanical Properties of Aluminum Alloys	21KD1A0359	PATHIVADA JAYANTH	Mr.N. Santhosh Naveen
		21KD1A0353	MENTADA VAMSI	
		21KD1A0365	PYDA SRINIVAS	
		21KD1A0381	VETLA THARUN KUMAR	
		21KD1A0356	NAMMI TRIVIKRAM	
17	Inverse kinematics for trajectory planning of 5 Arm Articulated Robot	22KD5A0333	TIRUMALARAJU PRASANTH KUMAR VARMA	Dr. P. Timothy
		21KD1A0364	PUVVALA SHANMUKHESWARARAO	
		21KD1A0386	YERRA PRUDHVI	
		21KD1A0367	RONGALI VARA PRASAD	
		21KD1A0357	PALLI KRUSHNA KUMAR	
18	AirDrop: Intelligent Drone Aerial Dropping System	21KD1A0382	VULLI JAGADEESH KUMAR	Prof.K.Ch.Sekhar
		22KD5A0332	TAMADA HARI VENKATA SATAYANARAYANA	
		22KD5A0336	YADAGIRI VINAY	
		21KD1A0385	YELURE JAIYANTH SHYAM	
		22KD5A0341	UPPALA SAIKUMAR	
19	Experimental and Numerical Analysis of Hybrid Fiber Metal Laminates with Glass and Flax Fibers	22KD5A0338	PILLA MOHAN SAI	Dr.M.V.Krishna Mohan
		21KD1A0355	NADIPENA BHANU PRAKASH	
		21KD1A0347	MAMIDI YASWANTH KUMAR	
		21KD1A0376	THATUTHURI DEVARAJ	
		21KD1A0390	SHAIK SHAMSHUDDIN	
20	Disassembly Sequence Planning to Generate Linear and Parallel Solutions For EV batteries	21KD1A0366	PYLA TARUN SAI MANIKANTA	Dr.G.Anil Kumar
		21KD1A0361	PENTA HARIKRISHNA	
		21KD1A0362	PILLA JAGADEESH	
		22KD5A0346	GORLI RAMA CHANDRA NAIDU	
		21KD1A0358	PANDRANKI CHAITANYA MANIKANTA	
21	Task allocation and layout optimization for Human Robot collaboration by using advanced algorithm	21KD1A0360	PEETA VASU	Mr.M.Balaji
		21KD1A0374	YANDAM JANARDHAN	
		21KD1A0369	SADASIVUNI KOWSHIK VINAY	
		22KD5A0350	PONNADA SAI SURYA JASWANTH	



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		21KD1A0351	MEDISETTI ANJIBABU	
22	Task allocation and layout optimization for human robot collaborative assembly systems by reinforcement learning algorithms	22KD5A0329	SAMPARTHI ESWARPRASAD	Mr.I.Anil Kumar
		21KD1A0348	MAMIDIPAKA AYYAPPA	
		21KD1A0346	MADDILA VEDA PRABHAS	
		22KD5A0342	SINGARAPU NAVEEN	
		22KD5A0335	VEEKA SURANNA DORA	
23	Experimental investigation on CRDI diesel engine fuelled with alternative fuel	22KD5A0344	MARTHI DURGARAO	Dr.S.Ravi Teja
		21KD1A0352	PADALI KESAVA	
		22KD5A0348	PATNAYAKUNI VARAHA NARASIMHA BABAJI	
		22KD5A0337	MUDUNURU JNANENDRA VARMA VADAVALLASA HEMASUNDHARA RAO	
		21KD1A0378	RAO	
24	Evaluation of Mechanical Properties and Microstructural Behavior of AA 2099 in addition of Graphene under Friction Stir Welding	22KD5A0353	MANKU KRISHNA VAMSI	Mr.Ch.Polayya
		21KD1A0370	SAMBANGI GOWTHAM	
		22KD5A0339	TIRUMALARAJU.RAHUL VARMA	
		21KD1A0373	SARISA LOKESH	
		21KD1A0384	YELLAPU NAVEEN	
25	Study The Mechanical Characterisation of High Entropy Alloys	21KD1A0371	SANGAREDDY CHINNARAO	Mr.M.Daniel Silas Kumar
		21KD1A0350	MARRI RAJESH VARMA	
		22KD5A0354	APPIKONDA UDAY KUMAR	
		22KD5A0330	SIRAGAM SRAVAN KUMAR	
		21KD1A0389	CHANDANALA MANISH	
26	Performance Optimization of Solar Chimney System: A Combined Numerical and Experimental Analysis	21KD1A0354	MUTYALA RAJ PRAKASH	Mr.M.Gangadhar Rao
		22KD5A0328	REDDY LOHIT KUMAR	
		21KD1A0387	SEERA JAGADEESH	
		21KD1A0372	SANKURUBOTHU LOKESH	
		21KD1A0380	VANJARAPU HEMANTH	
		20KD1A0382	PAILA ROHITH REDDY	
27	Predicting the performance characteristics of EV Vehicles using machine learning algorithms.	22KD5A0331	SISTLA VENKATA SAI SAMPATH	Dr.Satish Pujari
		22KD5A0349	SARIPALLI BHANU VARA PRASAD	
		22KD5A0351	BANTU SANDEEP	
		21KD1A0383	YELAMANCHILI SATYA PREETHAM	
		20KD1A0385	PILLA SAI LOHITH	
		21KD1A0363	PITTA VENU GOPAL	


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