

**K L University, Vaddeswaram**

**IV/IV B Tech (Mechanical Engineering)**

**B. Tech. PROJECT TITLES: AY 2015-16**

<b>S No.</b>	<b>Regd. No.</b>	<b>Project Work Titles</b>
1	12007392	Fracture Analysis on Compact Tension Specimen
2	12007071	
3	12007127	
4	12007087	Finite Element Analysis to assess the failure of sharp central notched carbon/epoxy laminates
5	12007503	
6	12007471	
7	12007473	
8	12007133	Design and Analysis of Composite Pressure Vessel for Aerospace industry
9	12007382	
10	12007492	
11	12007462	
12	12007283	Fabrication and Testing of an Alarm System at Unmanned Level Crossings
13	12007058	
14	12007269	
15	12007363	
16	12007419	Development of an Expert System for Condition Monitoring of a Thermal Power Plant using IR Thermography
17	12007404	
18	12007384	
19	12007395	Optimisation of Micro Air Vehicle AirFoil
20	12007254	
21	12007063	
22	12007402	Development of an Expert System for Diagnosis of Bearing Faults of Rotating Components in a Power Plant
23	12007356	
24	12007140	
25	12007466	
26	12007141	

S No.	Regd. No.	Project Work Titles
27	12007130	Simulation and Analysis of Train and Tractor Suspension System using MR Damper
28	12007250	
29	12007445	
30	12007149	Simulation and Experimental Validation of Magneto-Rheological (MR) Damper on Vehicle Suspension System
31	12007152	
32	12007405	
33	12007150	
34	12007447	Free Vibration Analysis on a cracked Cantilever Beam
35	12007449	
36	12007148	
37	12007144	
38	12007538	
39	12007159	Modeling and Transient Thermal Analysis of Stirling Engine
40	12007522	
41	12007118	
42	12007285	
43	12007358	Design of Stair Climbing Wheel Chair using Tri wheel mechanism
44	12007500	
45	12007421	
46	12007423	
47	12007080	
48	12007050	Tensile and Impact Behaviour of Reinforced Composite Material by Hand Layup Technique
49	12007263	
50	12007361	Design and fabrication of Bio Mechanical Energy Harvester
51	12007319	
52	12007004	
53	12007100	
54	12007407	Condition Monitoring of Lubricating Oils using Wear debris Analysis
55	12007065	
56	12007453	
57	12007408	

S No.	Regd. No.	Project Work Titles
58	12007251	Investigation of Mechanical properties on Aluminium 7075 reinforced with Silicon and Boron Carbide
59	12007192	
60	12007340	
61	12007261	Mechanical behaviour of Aluminium 7075 Matrix Composite with Silicon and Boron Carbide
62	12007043	
63	12007086	
64	12007469	
65	12007011	Evaluation of Mechanical Properties of Aluminum Alloy 7075 with Silicon and Boron Carbide
66	12007116	
67	12007017	
68	12007455	
69	12007294	Design of Mobile Advertizing Vehicle Focussing on Utility and Exterior Styling
70	12007300	
71	11007075	
72	12007069	
73	12007126	Centifugal Casting Defects and Inspection
74	12007450	
75	12007373	Application of Six Sigma techniques to Improve Productivity in the Manufacturing Industry
76	12007064	
77	12007225	Effect of Rolling on Aluminium Metal Matrix Composites- An Experimental Study
78	12007062	
79	12007044	
80	12007145	Design and Built a Self Starting Vertical axis Wind Turbine
81	11007234	
82	12007366	Multi Response optimisation of WEDM Process parameters using the Fuzzy AHP method
83	12007461	
84	12007306	

S No.	Regd. No.	Project Work Titles
85	12007543	Network design: Case Study Analysis
86	12007387	
87	11007037	
88	12007207	Selected Heuristic and Optimizing methods for solving Job Shop Scheduling problems
89	12007245	
90	12007006	
91	12007489	
92	12007135	Optimization of Make Span in Scheduling Problems
93	12007125	
94	12007491	
95	12007371	Optimization of Pelton Turbine Blade
96	12007502	
97	12007204	Optimization of Process Parameters and Machining of Al 359 using WEDM
98	12007388	
99	12007412	
100	12007357	
101	12007326	Design and Analysis of Cycle Sprocket utilising Taguchi approach for Optimum Process parameters
102	12007244	
103	12007305	
104	12007535	
105	12007107	Design of Transmission for a Hybrid Vehicle
106	12007199	
107	12007334	
108	12007015	Physical, Chemical and Mechanical Properties of MoO <sub>3</sub> (NANOCOMPOSITES)
109	12007347	
110	12007380	
111	12007173	
112	12007131	Design and Analysis of SAE Tubular Frame Chassis
113	12007024	
114	12007138	
115	12007085	
116	12007057	

S No.	Regd. No.	Project Work Titles
117	12007227	Characterisation of Nano Composite (TiO <sub>2</sub> - V <sub>2</sub> O <sub>5</sub> )
118	12007302	
119	12007540	
120	12007410	Mechano-Chemical assisted Synthesis and Spectroscopic Characterisation of MoO <sub>3</sub> -V <sub>2</sub> O <sub>5</sub>
121	12007550	
122	12007367	
123	12007003	Characterisation of MoO <sub>3</sub> -TiO <sub>2</sub> Nano Composite
124	12007054	
125	12007067	
126	12007014	
127	12007308	Spectroscopic/ Characterisation of Nano Materials (Al <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> )
128	12007121	
129	12007262	
130	12007193	
131	12007260	Novel performance measures applied to Cell Formation problems
132	12007504	
133	12007280	
134	12007301	
135	12007022	Application of Meta Heuristic Techniques to Cell Formation Problems
136	12007247	
137	12007278	
138	12007184	
139	12007186	
140	12007164	Application of VOIDS based method and TLBO Heuristic Techniques to Cell Formation Problems
141	12007031	
142	12007342	
143	12007203	
144	12007304	Optimization of WEDM process parameters using TOPSIS method
145	12007390	
146	12007434	Multi Process Parameter Optimization of WEDM on Titanium Alloy using Grey Taguchi Method
147	12007379	

S No.	Regd. No.	Project Work Titles
148	12007233	
149	12007432	
150	12007137	
151	12007425	Design and Fabrication of Frame of Solar Car
152	12007120	
153	12007454	
154	12007163	
155	12007097	Design and Development of Two Wheeled Upright Vehicle
156	12007035	
157	12007073	
158	12007458	Modeling and Analysis of Ventilated Disc Brake
159	12007520	Optimisation of machining parameters for Cutting (WEDM) of Aluminium Alloy 1100 by using RSM
160	12007158	
161	12007189	
162	12007209	
163	12007238	Failure analysis on Cylinder Head Gasket
164	12007365	
165	12007235	
166	12007040	Simultaneous Scheduling of Machines and AGVs in FMS by using Teaching Learning based Optimisation
167	12007422	
168	12007332	
169	12007091	
170	11007154	Simultaneous Scheduling of Machines and AGVs in FMS by using Ant Colony Optimisation
171	11007218	
172	11007245	
173	11007064	
174	11007230	Simultaneous Scheduling of Machines and AGVs in Films by using Simulated Annealing Algorithm
175	10101689	
176	11007002	
177	11007129	
178	11007379	
179	12007092	Fabrication of Surface Composites using Friction Stir Processing
180	12007023	

S No.	Regd. No.	Project Work Titles
181	12007049	
182	12007481	
183	12007531	Influence of Process parameters on WEDM of Inconel 901 using one factor at a atime approach
184	12007221	
185	12007476	
186	12007397	
187	12007505	
188	12007034	Machining of Aluminium 359 using Wire-EDM and Optimization of Process Parameters
189	12007310	
190	12007128	
191	12007223	
192	9101106	
193	12007129	
194	12007098	Validation and CURB Reduction in NDT
195	12007482	
196	12007175	
197	12007206	
198	12007518	Optimal Process Parameters in Steps of WEDM Process using Taguchi method
199	12007444	
200	12007002	
201	12007027	
202	12007182	Experimental Investigation of Soap Nut Oil as a BioDiesel in CI Engine
203	12007113	
204	12007056	
205	11004318	
206	12007291	Study of Heat Transfer through Rotating Rectangular Duct
207	12007079	
208	12007288	
209	12007351	
210	12007443	Study of Heat Transfer in Elliptical Duct
211	12007480	
212	12007194	Simulation of Solar Cavity receiver
213	12007224	
214	12007185	

S No.	Regd. No.	Project Work Titles
215	12007212	
216	12007088	Modelling of an Adsorption Chiller
217	12007041	
218	12007401	
219	12007488	Heat Transfer analysis of a Heat Exchanger using CFD
220	12007517	
221	12007281	CFD Analysisi of Clary-Y Aerofoil with and without Vortex Generator
222	12007325	
223	12007228	
224	12007529	Transient Thermal Analysis of Engine Heat with Fins
225	12007499	
226	12007104	
227	12007059	
228	12007353	Experimental Investigation of Mechanical Properties of Reinforced Natural Fiber Composites (Hemp, Sisal, Ladyfinger, Glass fiber) with and without using Molybdic Acid
229	12007197	
230	12007252	Flow Visualisation over Unsymmetrical and Symmetrical Models
231	12007299	
232	12007167	Thermal Analysis of Disc brakes and Liquid Cooling System of Electric ATV
233	12007151	
234	12007546	Design and Analysis of Liquid Dessicant Cooling System
235	12007119	
236	12007045	
237	12007456	
238	11007238	
239	12007009	Design and Study of Dual Axis wind Turbine
240	12007329	
241	12007183	
242	12007033	
243	11007360	



S No.	Regd. No.	Project Work Titles
244	12007441	Experimental Investigation on 4 stroke diesel Engine by using Linseed Oil
245	12007381	
246	12007172	
247	12007374	Experimental Investigation on Diesel Engine by using Duel Bio Fuel (animal fat and palm oil) as Bio -Diesel
248	12007370	Performance and Emmission Characteristics of a Diesel Engine using Castor Seed Oils and its Blends
249	12007030	
250	12007205	
251	12007174	
252	12007177	
253	12007110	
254	12007335	
255	12007394	Automatic Braking System
256	12007191	
257	10101942	
258	12007076	Analysis of Drag Force on Automobiles
259	12007077	
260	12007413	
261	12007019	Design and CFD Analysis of Savonius Turbine (VAWT)
262	12007188	
263	12007037	
264	12007359	Design & Analysis 3-DOF Parallel Manipulator for Cardiopulmonary Resuscitation
265	12007346	
266	12007559	
267	12007255	Design and Development of Telemanipulation System with Visual and Haptic Feedback
268	12007256	
269	12007457	
270	12007431	
271	12007508	Solar powered Vehicle
272	12007534	
273	12007324	
274	12007541	

S No.	Regd. No.	Project Work Titles
275	12007026	Modeling of EMG Controlled Prosthetic Leg
276	12007042	
277	12007295	
278	12007312	
279	12007438	Design and Fabrication of Seed Sowing Robot
280	12007435	
281	12007528	
282	12007161	Design and Analysis of Roll Cage for Non-Conventional All-Terrain Vehicle
283	12007109	
284	12007166	
285	12007542	Fabrication of Chassis and Implementation of Electrical Power Train and Cooling System for Rural Utility Vehicle
286	12007396	
287	12007338	
288	12007368	
289	12007549	Design of Flootation Tank for Solid Waste Segregation
290	12007391	
291	12007551	
292	12007433	Design & Fabrication of Steering Knuckle in Passenger ATV Vehicle
293	12007327	
294	12007484	
295	12007406	
296	12007099	Detection of Surface Flaws for Body above and below Sea Level
297	12007218	Analysis of Boiler Tube Failures and Remedies
298	12007290	
299	12007451	
300	12007282	
301	12007548	Viscosity Measurement and Influence of Additives - A Braking Torque based on Experiment
302	12007021	
303	12007393	
304	12007360	

S No.	Regd. No.	Project Work Titles
305	12007414	Characterisation of Nano-Materials (MoO <sub>3</sub> - Al <sub>2</sub> O <sub>3</sub> ): A Melting Point rising Application established through Spectroscopic Analysis
306	12007460	
307	12007470	
308	12007293	
309	12007331	Manufacturing of Dosa making Machine
310	12007512	
311	12007106	
312	12007439	Reversing and Averting of Downstream Kinetic Energy of a River or Rivulet with Conduits and closed piping made of Reinforced Composites
313	12007474	
314	12007336	Design & Analysis of Suspension system of an ATV
315	12007115	
316	12007180	
317	12007483	
318	12007314	Pneumatically driven Vehicle with a Rechargeable Battery for Conserving Energy
319	12007490	
320	12007556	
321	12007284	Failures of Machines in Coal Mines
322	12007134	
323	12007313	
324	12007276	
325	12007068	
326	12007544	Design Mechanism for a Bicycle with help of Bevel Gear System
327	12007047	
328	12007416	
329	12007349	Rover Exploration using Solar power
330	12007436	
331	12007178	
332	12007215	
333	12007102	Immersion Cooler: Design, Development & Optimisation
334	12007005	

S No.	Regd. No.	Project Work Titles
335	12007153	
336	12007477	Design & Manufacturing of Magnetically Levitated wheel using the principles of linear, rotational and arbitrary motions
337	12007440	
338	12007479	
339	12007053	
340	12007265	
341	12007375	Enhancement of Heat Transfer Rate in Parabolic Trough Collector Receiver using Porous Media
342	12007516	
343	12007533	
344	12007563	
345	12007155	Mechatronic Solution for Vibration Control of patient bed in ambulances
346	12007525	
347	12007315	Design and Analysis of Two Degree of Freedom Parallel Manipulator for Chest Compression
348	12007398	
349	12007010	Modeling and Fabrication of Mechanical Knee Mechanism for Prosthetic Leg
350	12007376	
351	12007036	Design & Improvement of Vehicle Suspension System
352	12007222	
353	12007055	
354	12007190	
355	12007060	Material Optimization of Prosthetic Knee Gear using Taguchi Technique
356	12007323	
357	12007242	
358	12007539	
359	12007354	Design & Manufacturing of Suspension System of Hybrid Vehicle
360	12007389	