



## Department of Mechanical Engineering

### Final Year Projects (Session 2017)



Sr. #	Final Year Project Title:	Supervisor	Registration Number:	Student Name:
1	Application of topology optimization in the design of screw jack	Dr. Riffat Asim Pasha	17-ME-79	Muhammad Awais
			17-ME-16	MUHAMMAD USMAN BIN AHMED
			17-ME-67	FARHAN
			17-ME-100	Hamza Nasir
			17-ME-88	Muhammad Usama Raza
2	Development of a solar-assisted, desiccant- based indirect evaporative air conditioner.	Dr. Muzaffar Ali	17-ME-54	Dawar Hussain
			17-ME-138	Mohammed Sohail.
			17-ME-45	Muhammad Jahanzeb
			17-ME-93	Hamza Nabeel Ahmad
			17-ME-99	Usama Aftab
3	Design and experimental investigation of forced and thermosiphoning heat transfer through nano fluids in Compound Parabolic Collector.	Dr. Muzaffar Ali	17-ME-107	Furqan Ali
			17-ME-95	Daniyal Ahmad
			17-ME-119	Obaid Iftikhar
			17-ME-92	Malik Shahzeb Ahmed
			17-ME-04	Shaharyar Ahmad
4	Design and development of efficient trough and receiver geometries for compound parabolic trough collector	Dr. Muzaffar Ali	17-ME-26	EHTISHAM ALI
			17-ME-65	Shahzaib Gul
			17-ME-56	Muzahir Ali
			17-ME-113	Usama Adeel
			17-ME-47	MUHAMMAD REHMAN
5	Experimentation and Simulation of M-Cycle based Heat and Mass Exchanger for Solar Assisted Air Conditioner.	Dr. Muzaffar Ali	17-ME-08	Hamza Rafaqat
			17-ME-101	Ebrahim Haque Bhatti
			17-ME-62	Mehroz Ali Malik
			17-ME-11	Muhammad Umair
			17-ME-74	Mehtab Hassan
6	Design and fabrication of impact resistant safety helmets	Dr. Muhammad Ali Nasir	17-ME-38	Roman Jamshaid
			17-ME-29	SAAD MEHFOOZ AFZAL
			17-ME-20	Muhammad Anwar Ul Hassan
7	Synthesis and characterization of silica aerogels for mechanical applications.	Dr. Muhammad Ali Nasir	17-ME-10	Jaleel Ahmad
			17-ME-73	Muhammad Zunair Ali
			17-ME-5	Waqas Ahmed
			17-ME-128	Naveen Fatima
			17-ME-77	Husnain Ali
8	Performance characteristics of nano-additives in lead-Acid Batteries.	Dr. Muhammad Ali Nasir	17-ME-83	Waseef Kamal
			17-ME-41	Waseem Akram
			17-ME-110	Syed Shahrugh Kazmi
			17-ME-80	Muhammad Asif
			17-ME-112	Muhammad Mateen
9	CFD Analysis and shape Optimisation of NACA Airfoil 0012	Dr. Muhammad Shehryar	17-ME-57	MARIA RAZZAQ
			17-ME-98	Muhammad Nauman Arshad
			17-ME-02	Mehran Javed
10	Simulation and fabrication of variable volume flowmeter	Engr. Zahid Suleman Butt	17-ME-15	Syed Muhammad Werd Abbas
			17-ME-27	M. Qasim
			17-ME-69	Harmood Ahmad
			17-ME-144	NOMAN AFZAL
			17-ME-147	Zahid
11	Design and fabrication of hoverboard	Engr. Zahid Suleman Butt	17-ME-18	BASIT NAEEM
			17-ME-51	Rashid Ahmad Naseer
			17-ME-146	Waleed Saleem
			17-ME-141	Faizullah
			17-ME-60	Muhammad Arif
12	A case study of solarization at Rawalpindi railway station	Dr. Tanzeel-ur-Rashid	17-ME-22	MUHAMMAD USMAN LIAQAT
			17-ME-130	Usama Bin Akhtar
			17-ME-103	Farhan Naveed
			17-ME-115	Hamza Zulfiqar
13	Design and Fabrication of Rapid Prototype 3D Printer.	Dr. Tanzeel-ur-Rashid	17-ME-43	Ali Raza
			17-ME-123	Amjad Ud Din Tipu
			17-ME-109	Nouman Mumraiz
14	Design and development of an automatic egg incubator.	Dr. Nazeer Ahmad Anjum	17-ME-55	Hamza javed
			17-ME-78	Sohail Akhtar
			17-ME-09	Osama Aftab Siddiqui
			17-ME-87	Muhammad Nouman Akhtar
			17-ME-75	Faizan Zaigham
15	Performance Analysis of Air conditioning system in public building.	Engr. Abdul Mobeen	17-ME-63	Syed Sameer Abbas Naqvi
			17-ME-111	Abdul Kareem Mukhtar
			17-ME-68	Ali Abbas
			17-ME-53	Mirza Abuzar Baig
			17-ME-35	Muhammad Faisal Rauf Khan
16	Design and development of self balancing gyroscopic two-wheeler	Dr. Waqar Ahmad Qureshi	17-ME-71	Muhammad hamid yaseen
			17-ME-59	Muhammad Asim
			17-ME-148	Mir Israr Maqsood
			17-ME-32	Abdul Sattar
			17-ME-14	Waleed Ahmad
17	Numerical modeling and experimental validation of Mechanical contacts	Dr. Waqar Ahmad Qureshi	17-ME-46	Hamza shah
			17-ME-118	Asad Ullah Khan
			17-ME-58	Mohammad Awais
18	Characterization of Shape Memory Alloys	Dr. Waqar Ahmad Qureshi	17-ME-44	Zohaib Hassan
			17R/16-ME-02	Waqar Ahmed Malik
			17-ME-134	Ammar Ashraf
			17-ME-131	Samaha Badi Uz Zaman Khan
			17-ME-125	Saeed Ahmed
19	Design of Oil Debris Monitoring Sensor using Deep Learning	Dr. Waqar Ahmad Qureshi	17-ME-81	Muhammad Umar Ali Nawab
			17-ME-12	Isha Sameen
			17-ME-7	MUHAMMAD ANAS RAZA

			17-ME-66	Muhammad Ahmad
			17-ME-13	Fahad Bin Hussain
20	Design and Development of Health Monitoring System for IC Engine	Dr. Waqar Ahmad Qureshi	17-ME-19	Muhammad Numan Afzal
			17-ME-89	Hoomain
			17-ME-28	Muhammad Ali Wahla
			17-ME-70	Asad Ullah Khan
21	Thermal Management of Lithium Ion Batteries	Dr. Abid Hussain	17-ME-124	Usman ishaq
			17-ME-25	Muhammad Ahsan Raza
			17-ME-94	Muhammad Usman
			17-ME-91	Munim Ali Khan
			17-ME-127	Muhammad Farhan
22	Design and Analysis of a cooling system for Hybrid solar panels.	Dr. Abid Hussain	17-ME-97	Sohaib Ahmad
			17-ME-37	Usman Zafar
			17-ME-61	Muhammad Ali Abbas
			17-ME-49	Muhammad Shujha Amir
			17-ME-52	Muhammad Rashid
23	Hybrid Thermal Management of pin fin heat sink	Dr. Abid Hussain	17-ME-3	IZHAN SAJID
			17-ME-48	Mohammad Rehan
			17-ME-102	Arfat Ahmed
			17-ME-21	Umair Mussarat Shah
			17-ME-42	Hanzla Shahid
24	Design and study of water accumulator system using thin air as a medium	Dr. Abid Hussain	17-ME-72	Ali Hassan
			17-ME-108	Muhammad Yousaf Malik
			17-ME-36	Moeaz Ahmad Whala
			17-ME-30	Muhammad Shakeel
			17-ME-105	Haider Ali Cheema
25	Investigation of surface treatment on mid steel for anti corrosion in cryogenic condition.	Dr. Aneela Wakeel	17-ME-135	GHULAM JAILLANI
			17-ME-132	HAMZA KHAN
			17-ME-84	Ahmad Raza
			17-ME-129	Ahmad Hayat
26	Investigation of Failure in Cylindrical Liner of Diesel Engine	Dr. Aneela Wakeel	17-ME-01	Rimsha Ehsan
			17-ME-06	Adnan Latif
			17-ME-117	Muhammad Suleman Sadiq
			17-ME-39	Nouman Jamil
			17-ME-24	Muhammad Nouman
27	Combustion Efficiency Analysis of Internal Combustion Engine using Fuel Pre-Injection With Intake Air.	Dr. Azhar Hussain	17-ME-136	Waheed Noor
			17-ME-121	Masood Ur Rehman
			17-ME-142	Gul Zaman
			17-ME-76	Muhammad Imran
			17-ME-139	Jabir Hassan
28	Efficiency analysis of Diesel Engine to Use Air and Fuel Mixture.	Dr. Azhar Hussain	17-ME-90	Muhammad Akif
			17-ME-33	Muhammad Yaseen
			17-ME-120	Muhammad Ahmad Nawaz
			17-ME-96	Nadir Abbas
			17-ME-114	Rehan Ahmad
29	To study the effect on efficiency of engine by improving diffusion of air and fuel	Dr. Azhar Hussain	17-ME-85	Umair Sarfraz
			17-ME-64	Nazar Fareed
			17-ME-31	ADEEL AKRAM
			17-ME-116	Muhammad Jawad ul hassan
			17-ME-137	Muhammad Arif Bashir
30	Cellulose-based pervaporation membranes for oil-water emulsion	Dr. Mudassar	17R-16-ME-147	Ehtisham Ahmed Shah
			17-ME-149	Ashfaq Hussain
			17-ME-104	Muhammad Ahmad
			17-ME-140	Tehseen Murtaza
			17R/16-ME-143	Mohd safiullah wani
31	Investigation of structure property relationship in modified BiFeO <sub>3</sub> -BaTiO <sub>3</sub> piezoceramics	Dr. Rizwan Ahmed Malik	17-ME-40	Shaharyar Ahmad
			17-ME-106	Tassawar Shahzad
			17-ME-133	Muhammad Ismail
			17-ME-82	Muhammad Hassan Saeed
32	Design and fabrication of automatic light control system	Engr. Zahid Suleman Butt	16-ME-77	AbRAR Nawaz cheema
			16-ME-32	Sohaib Mazhar Bhutta