

**King Khalid University**

**College of Engineering/Mechanical Engineering Department**

**Graduation projects (Semester S372 - Spring, 2017)**

<b>Supervisor</b>	<b>Project Title</b>	<b>No</b>
Dr. Ashraf Lashine	Fabrication and Investigation of Turbulence Solar Still	<b>1</b>
Dr. Mostafa A. H. Abdelmohimen	Design of a fire fighting system for a Part of Building (A) in KKU	<b>2</b>
Dr. Mohamed Abdelaziz	Fabrication of Fe <sub>3</sub> O <sub>4</sub> / polymer composite and studying the mechanical properties	<b>3</b>
Dr. Mohamed Abdelaziz	Fabrication graphite /polymer composite and studying the wear properties	<b>4</b>
Dr. Ibrahim Essissi	Fabrication of a solar water heater with reflector cover	<b>5</b>
Dr. Ahmed Salil	Analysis of the Role of Phase Change materials (PCMs) in Maintaining Comfort Temperature inside an Automobile	<b>6</b>
Dr. Bayumi Elassal	Design and Fabrication of double glazing flat plate solar collector	<b>7</b>
Dr. Abdelhalim Alakbawy	Design and use of a Fatigue Test Machine in Plane Bending for Composite Specimens and Bonded Joints	<b>8</b>
Dr. Ali Anqi	Designing and fabrication of laminar flow fountain	<b>9</b>
Dr. Said Althamer	Study and modeling of an Electromechanical System	<b>10</b>

**Graduation projects (Semester S371 Fall, 2017)**

<b>Supervisor</b>	<b>Project Title</b>	<b>No</b>
Dr. Mohammed Sakr	Analysis on the effect of the number of air change on the infiltration rate through domestic refrigerator	<b>1</b>
Dr. Ibrahim Elsayed Elseesy	Performance analysis of solar air heater with v-corrugated absorber	<b>2</b>
Dr. Salem Algarni	Design and fabrication of a fog collector for testing fog water collection in the Southwest of the Kingdom of Saudi Arabia	<b>3</b>
Dr. Gulam Mohammed Sayeed Ahmed	Design and fabrication of a radially grooved automotive disc brake	<b>4</b>
Dr. Vinith Tirth	Estimation and Analysis of Domestic Carbon Footprints in Asir-KSA and Designing a Low CFP House	<b>5</b>
Dr. Mohammed Shehata	Effects of Biodiesel Addition on Diesel Engine Performance and Emissions Characteristics	<b>6</b>

**Graduation projects (Semester S362 Spring, 2016)**

<b>Supervisor</b>	<b>Project Title</b>	<b>No</b>
Dr. Ibrahim Elsayed Awwad Elseesy	Improving of performance of solar air heater	<b>1</b>
Dr. Faouzi Ben Bechir Askri	Improvement of a hydraulic testing bed for centrifugal pumps	<b>2</b>
Dr. Abdelhalim Abdelmohseen Alakabawy	Design and Manufacturing of a Cantilever-Type Rotating Bending fatigue Testing Machine	<b>3</b>
Dr. Mostafa Abdelmohimen Hussien	Effect of pulsating flow on the film cooling of gas turbine blade	<b>4</b>
Dr. Salem Ahmed Algarni	Assessment of Fog Collection as a Sustainable Water Resource in the Southwest of the Kingdom of Saudi Arabia	<b>5</b>
Dr. Sofiene Mellouli	Experimental Investigation of Performance Improvement of a Domestic Refrigerator Using Phase Change Material	<b>6</b>
Dr. Abhilash Edacherian	Theoretical and Experimental Studies on Hydrodynamic Journal Bearing	<b>7</b>
Dr. Baiumy Taha Abdel Moati El-Assal	Performance Improvement of Flat Pate Solar Collector Using Side Reflectors	<b>8</b>
Dr. Vineet Tirth	Estimation And Analysis of Carbon Footprint in a Case Study in KSA And Suggestions For Its Neutralization	<b>9</b>
Dr. Gulam Mohammed Sayeed Ahmed	An experimental investigation on effect of metallic composition in friction welding weld strength	<b>10</b>
Mr. Mohammed Shabbir Ahmed	Theoretical and Experimental Studies on Hydrodynamic Journal Bearing	<b>11</b>
Dr. Jamel Mohamed Bechir Madiouli	Study Of The Effect of Thermal Isolation During Cooling And Heating	<b>12</b>
Dr. Ashraf Ahmed Abdelgawad Lashin	A Study of Green House in Abha – Saudi Arabia.	<b>13</b>
Dr. Ashraf Ahmed Abdelgawad Lashin	A Study of Turbulence Effect in Water Solar Desalination.	<b>14</b>
Dr. Ashraf Ahmed Abdelgawad Lashin	Solar Water Desalination by Using Dual Axis Tracker System.	<b>15</b>
Dr. Ashraf Ahmed Abdelgawad Lashin	Design and Fabrication of an Ergonomic Solar Vehicle at King Khalid University.	<b>16</b>

**Graduation projects (Semester S361 Fall, 2016)**

<b>Supervisor</b>	<b>Project Title</b>	<b>No</b>
Dr. Ibrahim Elsayed Awwad Elseesy	Solar box for thermal uses	<b>1</b>
Dr. Faouzi Ben Bechir Askri	Modeling and simulation of a magnetic refrigeration system.	<b>2</b>
Dr. Abdelhalim Abdelmohseen Alakabawy	Design and Fabrication for tube Bending machine (forming	<b>3</b>
Dr. Baiumy Taha Abdel Moati El-Assal	Performance Improvement of Flat Pate Solar Collector Using Side Reflectors	<b>4</b>
Mr. Mohammed Shabbir Ahmed	Study the Effect of Heat Treatment on Mechanical Properties of Steel	<b>5</b>
Dr. Ashraf Ahmed Abdelgawad Lashin	Comparison Between Productivity of Solar Desalination Still With Solar Collector and Solar Still Combined With Photovoltaic Unit.	<b>6</b>
Dr. Ashraf Ahmed Abdelgawad Lashin	Using Solar Collector Combined With Solar Water Desalintion Still	<b>7</b>
Mohamed Abdelghany Elkotb Abdelghany	Study the Effect of Heat Treatment on the Mechanical Properties of Steel	<b>8</b>

**Graduation projects (Semester S352 Spring, 2015)**

<b>Supervisor</b>	<b>Project Title</b>	<b>No</b>
Dr. Ibrahim Elsayed Awwad Elseesy	An experimental study of an air heating system by solar energy	<b>1</b>
Dr. Faouzi Ben Bechir Askri	Study and design of a testing station for hydraulic pumps	<b>2</b>
Dr. Abdelhalim Abdelmohseen Alakabawy	Design and Manufacturing of A Bending fatigue Testing Machine (four-point loading for rotating bending fatigue test)	<b>3</b>
Dr. Mostafa Abdelmohimen Hussien	Experimental Investigation of Heat Transfer to Pulsating Flow Through Circular Duct	<b>4</b>
Dr. Sofiene Mellouli	Study and Design of Solar Powered Wheelchair	<b>5</b>
Dr. Amir Ibrahim Ali Arabi	Experimental Investigations of Transient Response of Temperature Feedback Control System	<b>6</b>
Dr. Abhilash Edacherian	Design and Fabrication of an Automated Horizontal Centrifugal Casting Machine	<b>7</b>
Dr. Baiumy Taha Abdel Moati El-Assal	Design and Construction of Flat Plate Solar collector	<b>8</b>
Dr. Jamel Mohamed Bechir Madiouli	STUDY OF THE AIR CONDITIONING FOR RESIDENTIAL UNIT	<b>9</b>
Dr. Ashraf Ahmed Abdelgawad Lashin	Water Desalination Still Combined With Refrigeration System	<b>10</b>
Dr. Ashraf Ahmed Abdelgawad Lashin	A Study of Experimental Trombe Wall in Abha - Saudi Arabia.	<b>11</b>
Mohamed Abdelghany Elkotb Abdelghany	Simulating the Effect of Angle of Misalignment on Rigid Coupling Components	<b>12</b>

**Graduation projects (Semester S351 Fall, 2015)**

<b>Supervisor</b>	<b>Project Title</b>	<b>No</b>
Dr. Ibrahim Elsayed Awwad Elseesy	Construction of a solar water heating system for domestic uses	<b>1</b>
Dr. Faouzi Ben Bechir Askri	Study of effect of different parameters on the efficiency of water pumping system using Lanthanum-Nickel hydride.	<b>2</b>
Dr. Abdelhalim Abdelmohseen Alakabawy	Design and use of a Bending Fatigue Test Machine (for simple beam)	<b>3</b>
Dr. Amir Ibrahim Ali Arabi	Modeling and Simulation of Clutch Engagement Phase in Starting Up of Automatic Manual Transmission (AMT)	<b>4</b>
Dr. Abhilash Edacherian	Face Milling Studies on Aluminum Alloy Matrix Silicon Carbide Particulate Composite (Al-SiCp)	<b>5</b>
Dr. Baiumy Taha Abdel Moati El-Assal	Design and Construction of Flat Plate Solar collector	<b>6</b>
Mr. Mohammed Shabbir Ahmed	Face Milling Studies on Alluminium Alloy Matrix Silicon Carbide Particulate (Al-SiCp)	<b>7</b>
Dr. Ashraf Ahmed Abdelgawad Lashin	Enhancement of Solar Desalination Still by Using Parabolic Trough.	<b>8</b>
Dr. Ashraf Ahmed Abdelgawad Lashin	Improving A Solar Desalination System.	<b>9</b>
Mohamed Abdelghany Elkotb Abdelghany	Design Gearbox of a Machine Tool	<b>10</b>