University of Mosul

College of Science

Department of New & Renewable Energy

Graduation projects for the Energy Department for the academic year 2022-2023

Name of project	Student name	Lecturer name	no
Study and design of a wind turbine	Muhammad Khalil Ismail	Dr. Ghada Ghanem Younes	1
Production of fuel from orange peels Producing energy from food waste. Dual axis sun tracking system.	Aya Nizar Chalabi Nour Younis Muhammad Abdul Rahman Saleh Khadr	Dr. Lubna Abdel Aziz Saleh	2
Tire recycling Thermal insulation	Ahmed Abdel Qader Mahmoud Abdul Rahman Salahuddin Attia	M.sc. Sarah Khaled Saeed	3
The element actinium and its relationship to nuclear energy Artificial sun...a second sun The radioactive element radon	Mohamed Dureid Tawfiq Manar Hussein Ali Othman Sarah Abdul Mohsen	M.sc. thana yaqub Youssef	4
Wind Energy Clean energy and climate change	tabark Fares Afnan Ismail	M.sc. Zahra Badiaa Ibrahim	5
Redon gas Nuclear Energy	Lubna Saab Muhammad Yahya Suhaib Muhammad	M.sc. Rana Hisham Mahmoud	6
Radioactive waste Production of ethanol from cellulose	Omar Laith Ahmed Karam Omar	M.sc. Zainab Walid Majid	7

Study of wind speed variation on wind turbine performance in the city of Mosul	Farouk Zain Al -Abidin Musa	M.sc. Mustafa Hussein Ibrahim	8
Solar panel Measurements by using Arduino	Abdul Rahman Abdullah Suleiman	Dr. Nagham Salem Mohammed	9
Providing electricity to a park using solar energy Polymer solar cells	Outafia Antoine Mikhail aumnia Ahmed	Prof. Alaa Ismail Ayoub	10
Extracting biogas from household waste Converting paper waste into materials of economic value Different ways to utilize sawdust	Youssef Mohamed Youssef baida waad Abdul Qadir Sahar Ibrahim Khalil	Dr. Hamed Abdullah Saleh	11
Lithium Batteries for Solar Cell Batteries and recycling Recycling agricultural waste and converting it into energy	ahd Mahmoud Hassan Sarah Muhammad Yassin Mustafa Yassin Saeed	Dr. Saad Fadel Mahmoud	12
Biochar is an inexpensive material for removing heavy metals from water	Hoda Hassan Qasim	M.sc. Dua Hassan Yahya	13
Renewable energy and the extent of awareness of its importance among the people of Mosul Solar cells between manufacturing and application	Faten Marwan Yahya Omar Abdul Karim Sawan	Dr. Ma'ad Salem	14

Water purification using solar energy	Qamar Radwan Suleiman	Dr.. Ibtisam Yahya Abdullah	15
The working principle of solar cells and the effect of their inclination angle Study the effect of heat on solar cells	Ali Ahmed Mohamed Mustafa Mahmoud Mohamed Fathi Al -Badrani	Dr. Hazem Saleh Ahmed	16
Studying the effect of weather elements on solar cells Solar concentrators off – grid Equipping a medical complex in a remote village with electrical energy using off-grid solar cells	Mai Hashem Mahmoud Ahmed Abdullah Al – Kawani Kawthar Taha Abdullah	M.sc. Bashir Khalil Ahmed	17
Methods of preparing semiconductors used in the manufacture of solar cells Studying the reactions of some semiconductors for use in manufacturing solar cells Recycling dry battery components to produce conductive materials	wahaj Bashuk Ahmed Zaid ali gharbi Alaa Fawaz Mahmoud	Dr. Lamya Adnan Naguib Sersam	18
Requirements for designing a home solar energy system. Variable resistor manufacturing. A study on converting a computer power supply into a small voltage power supply	Abdul Rahman Battar Sarah Radwan Osama Zaid	Dr. Muhammad Mahmoud Younis	19

A comparative study of the performance of artificial neural networks (ANN) and incremental connectivity (INC) algorithms in maximum power point tracking (MPPT) for photovoltaic energy systems.	Abbas Fadel Abbas	M.sc. Zakaria Abdul Wahid Hamid	20