**Graduation project (2) for the first semester of the academic year 2021/2022**

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| --- | --- | --- | --- | --- |
| **Supervisor** | **Student** | **ID** | **Title** | **No** |
| Dr. Malik Ismail Alamaireh | Nedal m. abulamdi  Khaled ghassan awadallah  Mohammad Ismail Nasser  Hamza thaer abu azzeh | 201721075  201811344  201520508  201810863 | Solar Water Heater Storage System with Enhancement Energy by Using Nanotechnology | 1 |
| Dr. Yousef Ahmad Altork | Rashed abu aloosh  Marwan alwahesh  Ahmad bani yaseen  Ali alsooqi | 201910329  201510081  201721045  201710752 | Building a Low Cost Solar Radiation Sensor Using Arduino | 2 |
| Dr. Yousef Ahmad Altork | Alyazeed abu shehadeh  Mohammad albashawi  Wael hatem | 201610272  201710869  201720520 | Comparative Study between Different Solar Air Cooling Techniques: A Case Study at Al-Zaytoonah University of Jordan. | 3 |
| Dr. Ali Alzyoud | Mohammad hayajneh  Ahmad alhajj Saleh  Issa majdalawi  Adnan khaleel | 201820496  201820919  201730166  201820662 | Improve the charging time of storage battery using bifacial solar panel. | 4 |
| Eng. Eman Abdelhafez | Mustafa sukarieh  Mohammad foodeh  Dhikra alfaleh  Mohammad alhawamdeh  Ashraf Mahmoud | 201811094  201720471  201720824  201720534  201610429 | . Enhancing PV Modules Efficiency and Power Output by Titanium Oxide Nano Particles | 5 |
| Eng. Eman Abdelhafez | Ahmad alaqrabawi  Mahmoud Zaidan  Yazan shatareh  Hothaifeh Mohammad Ramadan | 201720800  201720486  201721004  201710919 | Enhancing PV Modules Efficiency and Power Output by Zinc Oxide Nano Particles | 6 |
| Dr. Ali Mousa Othman | Omar altiti  Ghassan odeh  Saeed ishtaeeh  Rashed jaradat | 201830145  201910386  201910708  201920028 | Experimental Study of the Effect of Cooling, Intensity and Inclination Angle of Radiation on PV panel Efficiency | 7 |
| Dr. Malik Ismail Alamaireh | Mohammad albashawi  Mohammad alkhawajeh  Zaid awwad | 201710869  201820472  201710799 | Direct Storage Energy using molten salt | 8 |
| Eng. Eman Abdelhafez | Bahaa abusaleem  Eyad abu hani  Yousef abbas  Dareen Sawalheh | 201820471  201820478  201910463  201911368 | Utilization of Desulfurized Heavy Liquid Fuel Blends in Domestic Boiler | 9 |

**Graduation project (2) for the first semester of the academic year 2022/2023**

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| --- | --- | --- | --- | --- |
| **Supervisor** | **Student name** | **Student id** | **Title** | **No** |
| Eng. Eman Abdelhafez | Mohammad Khaled Salman  Moayed Yousef Sanjakieh  Hisham khaleel abujaghlef | 201910323  201910854  201820421 | Enhancing PV Modules Efficiency and Power Output by Mixture Nano Particles | 1 |
| Dr. Yousef Ahmad Altork | Hamza Murad Abdullah  Mays Baidas  Mohammad Samhouri | 201911113  201910815  201910059 | Building a Low-Cost Solar Radiation Sensor Using Arduino | 2 |
| Dr. Ali Mousa Othman | Mahmoud Alhajaya  Yasser Dokmak  Abdullah Awwad | 201820457  201820569  202112311 | Experimental Investigation of the effect of air-cooling of different arrangements of fanes at the efficiency of PV panels | 3 |
| Dr. Ali Alzyoud | Omar Hamdan  Saif Abdulhadi  Fadi Baqleh | 201910850  201910807  201820465 | Improve the performance of lead-acid batteries using Ionic liquid as an electrolyte additive | 4 |
| Dr. Malik Ismail Alamaireh | Mahmoud Isaefan  Lilian Abu sham  Abdulrahman Qasim | 201910047  201810617  202111652 | Design Indoor PV panels with optical fiber daylighting | 5 |

**Graduation project (2) for the first semester of the academic year 2023/2024**

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| --- | --- | --- | --- | --- |
| **Supervisor** | **Student name** | **Student id** | **Title** | **No** |
| Dr. Malik Ismail Alamaireh | Alaaaldeen Shalane  Amer Samsam  Ammar Alnafoos | 201910613  201911387  201910622 | Design of a Storage Thermal Energy System Using Two Types of PCM Materials | 1 |
| Dr. Ali Mousa Othman | Almonther Alnadaf  Yazan Samareh  Fares Abdelrazzaq  Mousa Badran | 201911064  201920413  201911403  202011549 | Cooling and Efficiency Investigation of PV Panel By Double Transparent Cover Filled With Different Colors of Water | 2 |
| Eng. Eman Abdelhafez | Malik Eydeh  Hazem Baraka  Nader Taiem | 201820380  201820138  201910773 | Sensible Thermal Energy Storage Using Nanofluid | 3 |