**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. abulamdiKhaled ghassan awadallahMohammad Ismail NasserHamza thaer abu azzeh | 201721075201811344201520508201810863 | Solar Water Heater Storage System with Enhancement Energy by Using Nanotechnology | 1 |
| Dr. Yousef Ahmad Altork | Rashed abu alooshMarwan alwaheshAhmad bani yaseenAli alsooqi | 201910329201510081201721045201710752 | Building a Low Cost Solar Radiation Sensor Using Arduino | 2 |
| Dr. Yousef Ahmad Altork | Alyazeed abu shehadehMohammad albashawiWael hatem | 201610272201710869201720520 | Comparative Study between Different Solar Air Cooling Techniques: A Case Study at Al-Zaytoonah University of Jordan. | 3 |
| Dr. Ali Alzyoud  | Mohammad hayajnehAhmad alhajj SalehIssa majdalawiAdnan khaleel | 201820496201820919201730166201820662 | Improve the charging time of storage battery using bifacial solar panel. | 4 |
| Eng. Eman Abdelhafez  | Mustafa sukariehMohammad foodehDhikra alfalehMohammad alhawamdehAshraf Mahmoud | 201811094201720471201720824201720534201610429 | . Enhancing PV Modules Efficiency and Power Output by Titanium Oxide Nano Particles | 5 |
| Eng. Eman Abdelhafez | Ahmad alaqrabawiMahmoud ZaidanYazan shatarehHothaifeh Mohammad Ramadan | 201720800201720486201721004201710919 | Enhancing PV Modules Efficiency and Power Output by Zinc Oxide Nano Particles | 6 |
| Dr. Ali Mousa Othman  | Omar altitiGhassan odehSaeed ishtaeehRashed jaradat | 201830145201910386201910708201920028 | Experimental Study of the Effect of Cooling, Intensity and Inclination Angle of Radiation on PV panel Efficiency | 7 |
| Dr. Malik Ismail Alamaireh | Mohammad albashawiMohammad alkhawajehZaid awwad | 201710869201820472201710799 | Direct Storage Energy using molten salt | 8 |
| Eng. Eman Abdelhafez  | Bahaa abusaleemEyad abu haniYousef abbasDareen Sawalheh | 201820471201820478201910463201911368 | 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 SalmanMoayed Yousef SanjakiehHisham khaleel abujaghlef | 201910323201910854201820421 | Enhancing PV Modules Efficiency and Power Output by Mixture Nano Particles | 1 |
| Dr. Yousef Ahmad Altork | Hamza Murad AbdullahMays BaidasMohammad Samhouri | 201911113201910815201910059 | Building a Low-Cost Solar Radiation Sensor Using Arduino | 2 |
| Dr. Ali Mousa Othman | Mahmoud AlhajayaYasser DokmakAbdullah Awwad | 201820457201820569202112311 | Experimental Investigation of the effect of air-cooling of different arrangements of fanes at the efficiency of PV panels | 3 |
| Dr. Ali Alzyoud | Omar HamdanSaif AbdulhadiFadi Baqleh | 201910850201910807201820465 | Improve the performance of lead-acid batteries using Ionic liquid as an electrolyte additive | 4 |
| Dr. Malik Ismail Alamaireh | Mahmoud IsaefanLilian Abu shamAbdulrahman Qasim | 201910047201810617202111652 | 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 ShalaneAmer Samsam Ammar Alnafoos  | 201910613201911387201910622 | 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  | 201911064201920413201911403202011549 | 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  | 201820380201820138201910773 | Sensible Thermal Energy Storage Using Nanofluid | 3 |