

Fourth-year students at the College of Education for Pure Sciences and supervisors of (BSc) graduation projects for the academic year 2022-2023- Morning studies

Students names	Supervisor	Research Title	No
<p>1-Elaf Amer, Fahd Hilal, Sura Munther. 2-Wesan Adnan Ashour+ Alaa Majed Mashal + Hajar Satam Mazhi + Sahar Salam Abdul-Jabbar. 3-Saja Nouri Jubeir + - Sami Suwaid fire + Istabraq Ali Jassim. 4-Saja Ahmed Mohy + Haneen Saadi Karim + Sarah Mohammed Hussein.</p>	Prof. Dr. Saeed Nayef	<p>1- Study of the optical properties of TiO₂ nanocoatings 2-Study of electrical properties of TiO₂ nanocoatings. 3- Calculation of quantitative retention energy of TiO₂ coatings. 4- Study of optical properties of TiO₂Au nanomembranes using plasma surface resonance method.</p>	1
<p>1-Rasha Latif 2- Ahmed Emad + Haider Falah + Kamal Khaled.</p>	Prof. Dr. Walid Badawi	<p>1- The use of cloves in strengthening PMMA used in dentures. 2- The use of leaf residues to manufacture heat insulators.</p>	2
<p>1 - Naba Sabah Mashaan + Abdullah Imad Faihan, 2 -Zahraa + Zainab Saadi, Haneen Salam.</p>	Assist. Prof. Dr. Bilal Kamal	<p>1- Preparation and study of some optical properties of cadmium selenide membranes. 2- Preparation and study of some biological properties of cadmium selenide membranes using thermal evaporation.</p>	3
<p>3-Bilal Khaled + Naba Kamal + Aseel Mohsen. 2 -Mezher Ali + Othman Ammar + Abdul-Jabbar Sattar</p>	Assist. Prof. Dr. Ali Khalaf	<p>2- Calculating the electrical moments of some light nuclei. 3- Study some mechanical properties of a synthesized material of silicon carbide and carbon and calculate the attenuation coefficient.</p>	4
<p>1 -Sarah Ahmed Abd + Hoda Mohamed Abd + Taiba Mohamed Negm Shahd Ayad Ahmad 2 -Abdul Latif Mustafa + Abdul Rahman Yassin + Hassan Zakir.</p>	Assist. Prof. Dr. Walid Sobhi	<p>1- X-rays: their pros and cons. 2- Comparison of nuclear models.</p>	5
<p>1- Liqa'a Jubair Hamid + Iman Adnan Awad + Nada Zidan Khalaf</p>	Assist. Prof. Dr. Jamal Fadel	<p>1-Study of the optical properties of the compound Sn_x Zn_{1-x} O</p>	6
<p>1-Sawsan Ghayeb + Bayda Obaid + Balqees Munther Khalaf. 2-Ahmad Noor + Majd Hassan Yousef + Sabah Sotam</p>	Assist. Prof. Dr. Anmar Dirar	<p>1- Calculation and analysis of the amount of total solar radiation falling on the horizontal surface in the city of Ramadi. 2- Industrial areas within cities and their effects on the environment.</p>	7

<p>1-Ahmed Ismail + Yas - Khudair + Mohammed Shams El-Din 2 -Aseel Hamoud Farhan + Zeina Mufleh Muhaisen.</p>	<p>Assist. Prof. Dr. salaam Khalaf</p>	<p>1-Light diffraction and its types. 2-Optical fibers, properties and types</p>	8
<p>1-Ahmed Salam + - Abdullah Mohamed + Osman Hikmat 2 -Haider Omar Abdul Qahar + Abdullah Haitham Abdullah + Jarrah Badr 3 -Ayat Abdul Karim + Aisha Yassin + Esraa Nadim + Intisar Naji. 4 -Esraa Ahmed Khalifa + Doaa Iyad Hamid + Hala Abdullah.</p>	<p>Dr. Mazen Hamed</p>	<p>1-The use of black silicon in solar cell applications. 2-Preparation of nano films using the PLD method. 3-Preparation of nanomaterials using .electrolysis process 4-Chemical sensors and their applications.</p>	9
<p>1 -Mays Ahmed Mohammed + Samar Mahmoud Cooks + Ruba Barakat. 2 -Duha Abdulrahman Jiyad + Noor Nassif Jassim. Farah Qasim</p>	<p>Dr. Mustafa Zain</p>	<p>1- Study of electrical power generation using solar cells. 2- Study of the electrical properties heterojunction (P-N) and its applications in solar cells.</p>	10
<p>1 -Taiba Ibrahim + Maryam Abdul Sattar + Zainab Fareed. 2 -Omar Faiz + Dalia Shaker + Fatima Tawfiq 3 -Aya Hamid + Sahar Faisal + Ayat Saadi</p>	<p>Dr. Adel Sobhi</p>	<p>1-A theoretical study on nuclear energy and its peaceful use. 2-Solar photovoltaic cells and the effect of solar radiation intensity and climatic flux on them. 3- Use of solar energy to generate electricity (clean renewable energy).</p>	11
<p>1 -Abtahal Mohammad, Amani Mohammad. + Ayeh Hamid Fayyaz</p>	<p>Dr. Omar Mahidi</p>	<p>1-The effect of changing energy gap values on the electrical and optical properties of thin and composite films</p>	12
<p>1 -Mustafa Hamid Rabie + Malak Nafi Mohammed + Zainab Mahmoud Khalaf. 2 -Abdul Razzaq Saud + Naseem Mohammed + Mohammed Khalif. 3 -Ali Saleh + Ali Razzaq + Faris Hasan.</p>	<p>Dr. Mahir Noori</p>	<p>1- Dey solar cells their characteristics and manufacturing methods. 2-Study of the properties of P3HT:PCBM organic photovoltaic cells. 3-Superconductivity.</p>	13
<p>1-Obaida Amer + Hamza Farhan + Ruqayya Hamid</p>	<p>Omar Abdulaziz</p>	<p>1- The phenomenon of surface plasma resonance (SPR) in noble metals and its applications in biosensors.</p>	14

<p>1-Serageldin + Auf Abdul Rahman + Liqa Saleh Faraj Rafa Majid+</p> <p>2-Mohamed Shaker + Mohamed Ahmed + Samer Samir</p> <p>3-Osama Matar Anad + Mustafa Turki Rekan + Youssef Sabah Abd + Ahmed Mohammed Khalifa.</p>	<p>Samira Adnan</p>	<p>1-The level of scientific thinking among the outputs of the Department of Physics and its relationship to their scientific culture.</p> <p>2-Physical enlightenment among students of the Department of Physics.</p> <p>3--Difficulties of teaching physics in the preparatory stage.</p>	<p>15</p>
<p>1-Omaima Mowaffaq Saghir+</p> <p>Taiba Saud Abdul Aziz + Naba Hamed</p>	<p>Dr. Ibrahim Qais Abdulrahman</p>	<p>.1- Communication system using laser beams</p>	<p>16</p>
<p>1-Walid Hamid + Mustafa Musleh + Duha Alaa</p>	<p>Marwa Abdul karim</p>	<p>1-Isotopes in physics.</p>	<p>17</p>



Fourth-year students at the College of Education for Pure Sciences and supervisors of (BSc) graduation projects for the academic year 2022-2023- Evening studies

Students names	Supervisor	Research Title	No
1 .Sayl Ba'ath Hamdallah 2 .Ahmad Hajam Shahuz	Prof. Waleed Sobhi	Electromagnetic radiation, molecular structure and atomic structure	1
1-Ibrahim Mahmoud Abdulaziz 2 .Hussain Khalid Jameel	Assoc. Prof. Bilal Kamal	Study of the electronic properties of aluminum phosphide	2
1-Zina Khalil Ahmed 2 .Congratulations Hisham Mohammad	Dr. Jamal Fadel	Study of optical properties of transparent conductive oxides	3
1-Ismail Hamoud Khalaf 2 .Juma Ali Suleiman	Dr. Mazen Hamed	Smart Alloys	4
1- Wissam Ali Khalaf 2 .Younis Qasim Abdul Karim	Dr. Adel Sobhi	Nanotechnology, its importance and role in human life	5

