Fourth-year students at the College of Education for Pure Sciences and supervisors of (BSc) graduation projects for the

academic year 2021-2022- Morning studies

Students names	Supervisor	Research Title	No
1-Iman Fares+ Rahman Othman + Taiba Zafer 2-Shahla Ahmed + walaa Khaled + Mays Ziyad	Prof. Dr. Saeed Nayef	1-Study the optical properties of Borophene by Brus Model 2-Study the electrical properties of Borophene by Brus Model	1
1-Haneen Star + Iyad Sabah + Barakat Zia 2- Abdelkader Zuhair + Esraa Emad + Suleiman Khaled	Prof. Dr. Walid Badawi	 1-The use of CD residues in the manufacture of structural sections. 2-Study some of the mechanical properties of polyester supported by waste particles of Cedar leaves. 3- Use hazelnut peels to support unsaturated polyester. 	2
Muhammad Talal + Saad Hashem + Jassim Muhammad	Assist. Prof. Dr. Bilal Kamal	1-Effects of thermal energy on materials	3
1-Ahmed Mohamed + Othman Mahmoud + Ibrahim Jamal 2-Jabbar Abed + Safaa Suhaib + Mohamed Abdel Basset	Assist. Prof. Dr.Ali Khalaf	1-Calculating the probability of quad-pole electrical transmissions B(E2) for the ground band of samarium Sm nucleus. 2-Calculate the four-pole torque of the Nd nedmium core of the ground state.	4
1-Dina Bassem + Afaq Hamid + Zainab Sabah 2-Muhammad Sahab + Abdullah Abdul Rahman + Muhammad Tariq	Assist. Prof. Dr. Walid Sobhi	1-positives and negatives of nuclear decays. 2- using mirror nuclei to study of differences between neutron and proton	5
1-Najwa Negm + Mays Ahmed + Shaima Saud 2-Maryam Deraa + Marwa Nazim + Istabraq Abdullah	Assist. Prof. Dr. Jamal Fadel	1-The role of nanotechnology in the development of solar cell performance. 2-Use transparent conductive oxides as a conductive layer in electro-optical devices.	6
1-Sheba Basir + Successful Hagar + Sarah Eid 2- Jenan + Ayat Suhail + Rand	Assist. Prof. Dr. Anmar Dirar	1- Booz Einstein statistics.2-Fermi Dirac statistics.	7
Athraa Naseer + .1 Saba Khudair + Nabaa Mustafa Abbas + .2Ali Osama Hussein + Nouf	Assist. Prof. Farid Mosaheb	1-Global warming - causes - results and solutions. 2-Using solar energy in Iraq as renewable alternative energy	8
1-Bilqis Ayoub + Mona Shehab 2-Abdullah Omar + Heba Mohsen + Shelan Ali 3-Khadija + Ola Samer + Hanan Obaid	Assist. Prof. Dr. salaam Khalaf	1-solid state lasers ,their structure, properties, and their types.2-The polarized light, it's production methods and it's types.3-The light waves interference,it's conditions it's types	9

1-Ali Mohamed + Ali Ahmed + Ahmed Asaad 2-Samar Mahmoud + Reem Sabah + Alaa Mohamed 3-Ayman Hussein + Ahmed Mahmoud + Mustafa Shaker 4-Sadiq Khaled + Alaa Kazem + Raja Sabah 1-Baha + Abu Bakr +	Dr. Mazen Hamed	1-Changing the size and surface area of porous silicon using lasers. 2-Deposition of thin films using pulse laser. 3-Study the impact of communication towers on human health. 4-Impact of the intensity of light on blood pressure, heart beats and oxygen concentration in blood. 1-Study of hybrid junction types and it's	10
Abdullah Muhammad 2-Hala Hamed + Raja Hassan + Mustafa Kamal + Ahmed Obaid	Dr. Mustafa Zain	applications. 2- Study of transparent oxides (CdO, ZnO, NiO) and their applications.	11
1-Omar Ali + Asmaa Fadel + Shaima Suleiman 2-Rania Abdullah + Amal Abed + Yaqeen tired	Dr. Adel Sobhi	1-Renewable Energies role in achieving sustainable development. 2-Study of electrical conduction in metals	12
1-Alaa Hamid + Marwa Daoud 2-Abdullah Salah + Mohamed Mahdi + Ahmed Ibrahim 3-Hadeel Suleiman + Sawsan Zughayer + Shahd Ahmed	Dr. Omar Mahidi	1-Solar water distillation. 2-Study of the electrical properties of graphene 3-Principle and applications of PIN junction	13
1-Abdul Qadir Khalil + Abdullah Siddiq + Miqdad Muhammad 2-Mufaz Hamad + Maryam Yassin + Russell Hamed 3-Sadeq Lafta + Abbas Jabbar + Yusr Badawi	Dr. Maher Nouri	 Piezoelectricity phenomena. The role of nanotechnology in disasters reduction. Medical application of Nanotechnology. 	14
1-Ali Mahmoud + Mohamed Ahmed + Ahmed Alaa 2-Shahd Ismail + Hiam Jabbar + Sarah Thaer 3-Zeina Seif El Din + Maryam Saleh + Wissam Hussein	Omar Abdulaziz	1-Global warming causes and its impact on the environment and ways to reduce its effects.2-Noise pollution sources, its effect, and ways to prevent it.3-Nuclear waste effects and disposal methods	15
Ibtihal Fawzy + Zainab Muhammad + Nissim Youssef	Samira Adnan	1-Scientific culture among students of the Department of Physics	16

Fourth-year students at the College of Education for Pure Sciences and supervisors of (BSc) graduation projects for the academic year 2021-2022-Evening studies

Students names	Supervisor	Research Title	No
Salaam Jameel + Ahmed Khalifa	Prof. Dr. Saeed Nayef	Study the physical properties of some types of paints within the near infrared spectral area.	1
Hadiya Naji + Musab Jamal	Prof. Dr. Walid Badawi	Use orange peels to strengthen PMMA	2
Esraa Adnan + Doaa	Assist. Prof.	Study the electronic properties of boron	3
Shawky	Bilal Kamal	nitride using density function theory.	3
Ali Abd + Abdullah Omar	Assist. Prof. Dr. Ali Khalaf	Calculating the levels of nuclear power of the barium nuclei.	4
Silwan Khalaf + Muhaimin Muhammad	Assist. Prof. Dr. Walid Sobhi	Nuclear reactors between positive and negative applications	5
Fatima Tariq + Hajar Saadi	Assist. Prof. Dr. Jamal Fadel	Nanomaterials and their characterization methods.	6
Laith Abed + Abdel Qader Khalifa	Assist. Prof. Dr. salaam Khalaf	Fiber optic composition - types and applications	7
Mohamed Rahim + Abeer Khaled	Dr. Mazen Hamed	Study of super electrical conductivity in materials and their applications.	8
Ammar Sarhan + Ghadeer Karim	Dr. Omar Mahidi	Preparation of nanoscale thin films using chemical vapor deposition method.	9
Youssef Abdel Baset + Yahya Khaled	Dr. Ibrahim Qais	Semiconductor laser and its applications.	10