



Graduation research projects for the Department of Physics 2022-2023

The name of the fourth student	The name of the third student	The name of the second student	The name of the first student	Project names		The name of the supervising professor
Mawaddah Ali Abdul Ghani	Noor Hassan	Hajar Tariq Muhammad	Shukran Abdul Salam Sabah	The mechanism of optical fiber work in the communication system	1-	D.. Marwan Hafeez Yonus
	Zahra Rakan Ghanem	Ayman Aziz Ajweed	Yassin Qusai Yassin	Simulation of the decay of a spiral spring using MATLAB software	2-	



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Rahma Shamil Sultan	Sarah promised God Jonah	The goodness of Khaled Jassim + Ban Ammar Salem	Ahmed Jasser Badr	Study the effect of some input signal parameters on the internal modulation of a semiconductor laser	1-	Dr. Musab Saleh Mohammed
Hadeel Tariq Subhi	Esraa Saleh Abdel Razzaq	Nour Hazem Khazal	Elaf Saad Salem	Internal intensity modulation for green-type lasers DPSSFD	2-	



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Waqas Saad Ibrahim	Blessed be Saad Muhammad	Fathi Ahmed testified	Zahraa Abdel Salam Ismail	organic light emitting diodes	1-	Dr. Ragheed Michael Ibrahim
Amna Nafeh Jarallah	Good Riad Fawzy	Safa Ali Ahmed	Zahraa Talal Mohammed	Erbium ion doped optical fiber amplifier	2-	



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Osama Mohamed Fathi+ Fatima Zahraa Tariq+ Youssef Akram Yahya	Fahd Abdulaziz Mohammed+ Halima Muslim Abdul +Hassan Thanoun Hammadi	Alaa Hussein Ali+ Hamida Habib Abbas	Asma Mohamed Ibrahim+ Ayman Ahmed Ali	Levels of radiation power emitted from ,study the towers of Internet networks in the city of Mosul		Dr. Raad Ahmed Rasool



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Dalal Daoud Suleiman	Elaf Ahmed Khudair	Talal Nayef met	Ahmed Yasser Badr	Growth of silicon nanowires using a metal-assisted chemical etching technique	1-	Dr.. Yasser Hussein Muhammad
Saleh Awwad Saleh+Fawzi Daham Hatash	Sarah Akram Ghanem	Sumaya Saad Ali	Nada Anwar Shaker	Low temperature growth of zinc oxide nanorods by chemical bath...	2-	



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	Lamia and God Mohammed	Zaid Ramadan Muhammad Ali	Forgiveness Salem Hassan	laser	1-	Dr.. Moataz Saleh Hassan
Ghazi Saleh Aboudi +Ayman Namik Hazem	Muhammad Abdul Hakim Sultan	Ahmed Salem Ali	Ahmed Faris Nazir	Nanotechnologyj	2-	



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Forgiveness Ramadan Ismail	Yes, Zia Ahmed	Shaima Ali Hamid	Zahraa Fathi Mohamed	Raghad Ahmed Bilal	New and renewable energy and the challenges of providing sustainable energy	1-	Dr. Mohsen Walid Muhammad
Muhammad Bashar Fadel	Mostafa Medhat Yehia	Yahya Kamal Akram	Muhammad Abdul Hakim Muhammad	Ahmed Fayez Zaki	Studying the sources of radioactive contamination and energy production	2-	



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	Mohamed Saad Sabry	Ali Ammar Mohammed	Anas Ayad Muhyiddin	Study of the optical and electrical properties of porous silicon	Dr. Ghazwan Ghazi Ali
			Ibrahim Laith Ezzeddine	Characteristics study of transparent carrier oxides by chemical spray method	
Safa Khaled Mashhad	Huda Saad Abed	Noor Talib Abdul Qadir	Bassam Idris testified	Study of the structural and topographical properties of porous silicon	



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Maysam Bassem Muhammad +Haitham Shukr Mahmoud	Canar Saleh Hussein	Abdullah Suleiman testified	The verse of Ryan Khader	Spectroscopy Physics	1-	Dr.. Siham Younis Mustafa
Ahmed Mahdi Qassem+ Taha Mohammed Saeed	Hassan Kamal Ali	Faisal Ali Muhammad	Hussein Ali Mahmoud	Fundamental constants in physics	2-	



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Forgiveness Qahtan Adnan+ Muhammad Yunus testified	Nour Ghanem Hussein	Elaf Saad Salem	Dear Hanan Sabah	Absorption study of some liquids	1-	Dr.. MishtasAbdul DaoDr
Ahmed Shehab Reda	Thamer Mohamed Mahmoud	Nazhan Jassim Muhammad	Zaid Good morning	The interaction of charged particles with matter	2-	



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Marwa Qassem Mohammed	Ali Muhammed Khudair	Abdullah Raad Hassan	Sabreen Ali Khalil	Black hole	1-	Bashar in the name of Jaro



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Ahmed Abdul Karim Abdullah+ Karam Hatem Ahmed	Hamza Ahmed Sheikho	Attia Abdel Fakhry	Hatem Shalash Saleh	Mechanical properties of polymers	1-	Asma Zaki Khalil
Hussain Qasim Hussain+Saad Saleh Wahb	Hussein Ali Hassan	Salem Abdel Majeed Awad	Abdullah Ahmed Hussein	Nanostructures and some of their applications in the medical field	2-	



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Anfal Rashad Fayez	Esraa Nizar Khalil	Othman Hamad Hadi	Ahmed Ali Khalaf	Abdul Rahman Ahmed Hamid	Radioisotope applications	1-	Hala Nizar Muhammad



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Yasser Ali Khedr+Duha Abdullah Habib	Yunus Tariq Jarallah	Ahmed Ibrahimhfor linen	Ahmed Taha Mohamed	Ultraviolet radiation and treatment of jaundice	1-	Dr.. The magnificence of Naji Al-Shammari
	Abdullah Hussein Saleh	Hussein Majeed Saleh	I want a rewardprighteous,	Nanotechnology applications in medicine	2-	
Abdullah Awad Abdullah+Ali Younis Jassim	Ahmed Khaled Mashaan	Mustafa Ahmed Ali	The sins of Fathi Younes	Design and fabrication of thin film antenna	3-	



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Nour Awni Eddin Ismail+Haneen Abdul Wahab Ibrahim	Youssef Mohamed Sami Hussein	Yahya Majed Mahmoud Mohamed	Muzaffar Ziyad Saad Allah	Electrical breakdown and study the effect of changing the distance between the discharge electrodes on the discharge curves	1-	Dr..Moayad Abdullah Ahmed
Ali Hussein sacrificed+ Muhammed Khaled Muhammed	Ibrahim Fadel Ibrahim	Mohamed Ahmed Abdel	Hossam Abdel Rahman Mahmoud	Studying the effect of polishing on the surface roughness of certain metals using different polishing materials	2-	



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Sajja Abdul Ghafoor Shehab+ Kawthar Mahmoud Naguib	Rahma Ali Hussain	Sheikha Khalaf Fathi	Hanan Dahham Ahmed	Study the properties of infrared detectors	1-	Dr.. Ali Abbas Mohammed Saleh
	Hanan Mohamed Blue	Ream Hamed Awwad	Manar Ismail Nazim	Study of the current-voltage characteristics of a silicon cell at different temperatures	2-	



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Hilal Khaled Akil+ Falah Rakan Muhammad	Muhammed Suleiman is back	Maan Binyan Ahmed	Saif Khalaf Saleh...	artificial neural networks	1-	Dr. Yunus's Thanoon
Zeina Salem Younes	Zahraa Zahed Musa	Fahd Abdulaziz Mohammed	Karam Bashar Aziz...	James Webb Telescope	2-	



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Abdullah Hamed+ Forgiveness Abdul Karim	Jumana Abdel Baset	And the age of Jarallah	Baraa Abdel Sattar	Laser applications in preserving the environment	1-	Dr.Fathi Mohammed Jassim
Muhammad Issa Ali+ Abdul Salam Abdul Jabbar Mahmoud	Hassan Salem Znoun	Ali Abdul Azal Ahmed	Hamza Mohamed Antar	Laser and nanotechnology	2-	



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Abdullah Raad Ghanem+ Jazzhar Ahmed Abdel Saleh	Yasser Shihab Saleh	Mahmoud Mohamed Nazzal	Yasser Omar Mohammed	Achievements and challenges in fractionation of radioactive waste	1-	Dr. Rabiea Behnam Khadr
	Abeer Zaid Khazal	Noor Nasser Muhammad	Doaa Bakr Ibrahim	Benefits and risks of x-rays	2-	



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Ahmed Mohamed Obaid+ Bedaa Ali Zambour	Asma Khaled Idris	Amna Khalil Fundo	Wijdan Sattam Hassan	Study of the use of laser in dermatology	1-	Dr.. Uday Fallah Amin
Ahmed Ali Najm+ Khaled Ali Munizal	Radi Abdel Hammoud	Najm Abdel Yassin	Mahmoud Daoud Suleiman	Study of the types of notched fiber sensors Brack (FBG) and their applications	2-	



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Youssef Saad Said+ Ali Qassem Hamed	Mahmoud Bashar Abdul Karim	Dalal Amer Yahya	Mercy Ali Mahmoud	Homogeneous exposure study in a point quantum semiconductor laser.	1-	Dr.. EvanBehnam Karume
Ahmed Abbas Hassan	Hussein Atwan Hammadi	Judgment of Muhammad Khadr	Hamid Abdul Wahid Hamid	Analysis and study of the electrical properties of quantum dot semiconductor lasers	2-	



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MHamad Yunus Hamid+ pioneerKhaled Ayoub	Fahad Shehab Fattah	Abdel Qader Mohamed Saleh	Youssef Mohamed Saleh	Analysis of the verbal interaction of students / teachers in the College of Education for Pure Sciences	1-	Dr.. Ahmed Gohar Mohamed Amin



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	Mohamed Samir Abdel Qader	Amir Mouloud Abbas	Esraa Ziyad Tariq	optically active materials	1-	Ziad Tariq Ahmed
			Good Mohammed Najm	The use of lasers in measurement	2-	
Reem Saad Younes	Zubaida Luqman Idris	Sraa Qutayba Hami	Hadeel Mazen Muhammad	matrices in optics	3-	



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	Lubna Nazim Younes	Zubaida Ali Ghanem	Zahraa Amer Mahmoud	Study of the nonlinear properties of a membrane ZnO using Z-scan technology	1-	Dr.. Ammar Tahsin Zaker
	The news of Nizar Yahya	Zainab Aghwan Mahdi	Insam Omar Saleh	Generate short laser pulses using the MOSFET	2-	
	Sincerity of the request	Nour Mohammed Aboush	Esraa Iyad Zaki	Diagnosis of some blood diseases using laser	3-	



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Zahraa Abdullah Faraj+ Hajar Jassim Matar	Safa Saleh Suleiman	The magic of Saddam Noah	Aseel Abdel Hadi Ibrahim	Fabrication of a polymeric solar cell and improving its performance using multi- walled carbon nanotubes.	1-	Hisham Anwar Saleh Shehab
Ezzedine Nashwan Ahmed+ Yahya Ryan Ahmed	Muhammad Taher Iyad Taher	Moamen Mohammed MaysR	Muhannad Khaled Muhammad Ali	A study of the effect of double doping on the electrical properties of polyaniline.	2-	



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	Khader Aliwi Hussain	Laith Thaer Mohammed	Muhammad Omar Farooq	Attitudes of students of the Department of Physics in the College of Education for Pure Sciences towards the teaching profession	1-	Dr. Yahya Jary Yahya
Marwa Nemat Taha+ Roses and God Mahmoud	Aya Saud Ibrahim	Amna Mohamed Ibrahim	Muhammad Nofal Ali	The level of science operations skills among students of the Department of Physics in the College of Education for Pure Sciences	2-	



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Noor Ahmed Hamid	Houda Muhammad Yunus	Anfal Faris Musa	Safana Saber Mahmoud	Nuclear radiation therapy	1-	Moatasem Mahmoud Youssef
Mohamed Hamad Ahmed	Muhammad Dia Younes	Hassan Ismail Hassan	Suleiman Yahya Thanoun	Nuclear reactors and their peaceful uses	2-	

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		Lamia BashoKinventory	Khufshi Khadija Youssef	Microwave and satellite study	1-	Lubna Hakki Ismail Dawood
	Alaa Hammoud Ahmed	Hatem Sami Ibrahim	Fathi Ragab Ahmed	X-ray diffraction study	2-	
			The mercy of Laith Khazal	Studying the uses of magnetic resonance imaging and its applications	3-	
			Saja Fouad Nemat	Sustainability of the heart / study of the functioning of some medical devices and their applications	4-	



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Sami Mahmoud Hamad	Abdel Salam Ahmed Khedr	Mohamed Ahmed Saleh	Omar Abdel-Wahhab Khadr	The level of attitude of the students of the College of Education for Pure Sciences towards the virtual laboratory in the light of some variables	1- Dr. Aziz Muhammad Ali
Forgiveness of Omar Mansi	Salem Ali flowers	Blessed be Majeed Muhammad	Saja Zakir Younes	The level of mental motivation among students of the College of Education for Pure Sciences in the light of some variables	2-



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Duha Abdul Sattar Qasim	Aya Mahmoud Waad	Zakaria Amir Khaled	Mujahid Khalil Hussein	The level of motivation of fourth grade scientific students towards learning physics in the light of some variables	1-	Dr.. Radwan Mohamed Mustafa
Mizar Abdel Aziz Younis+Muhammad Haseeb Mahmoud	Ammar Yasser Tahseen	Abdullah Saadallah Mansour	Sughar Khudair Fares	The level of possession of the skills of integrated science operations by students of the Department of Physics and its relationship to some variables	2-	



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Abdul Rahman Muhammad Ali	Alaa Muhammad Taha Muhammad	Dina Firas Essam	Mariam Iyad Muhammad	Difficulties in teaching physics for the fourth preparatory class from the point of view of male and female teachers of the subject in the city of Mosul	Amir Fadel Hamid
Hassan Ali studied+ May God have mercy on him, Khalil Jassim	Enas Maher Abdel	Have mercy on your ranks, Faisal	Baraa Tahseen Ali	Patterns of cognitive preferences among fourth-grade students in the Department of Physics	



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Dalal Ziyad Tariq	Nour Hassan Ali Saleh	Salem Eido promise	Aya Mostafa Abdel	Effect of temperature on solar cell efficiency	1-	Zahra Muhammed Hussain



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Laa Abdul Karim Ismail+Mostafa Ahmed Saleh	Sabreen Maan Abdullah	Avin Hussain Ali	Rafel Mayser Farhan	Nuclear radiation	1-	Dr.. Yasser Yahya Qassem
Tamer Elias Muhammad	Maysam Musab Muhammad	Saja Mohamed Ahmed	Fatima Muhammad Ali	Nuclear radiation source and effects	2-	
The news of Ghassan Abdul Malik	Bahaa Yasser Abdullah	Ahmed Samir Najm	Ali Abdul Khaleq Mishaan	Atmosphere	3-	

