



Graduation Project Distribution List for Fourth-Year Students For the Academic Year 2024-2025

	The Project Name	The Supervisor Name	Student Name
1	Effect of inner tube surface roughness on the performance of double tube heat exchanger	Dr. Adnan Mohammed Abdullah	Doha Wadah Nouri Shahad Ziad Ahmed
2	Exergy analysis of a simple gas turbine unit operating at different ambient temperatures	Dr. Abdulrahman Habo Mohammed	Aki Waleed Abdul-Aali Shamiya Ismail Shaabo
3	Numerical study of the formation of a metal plate by bending	Amer Yahya Gergeis	Marwaan abduhakeem Mohammed Ibrahim Saadi Mohammed
4	Refrigeration plant fault simulator	Dr. Omar Mohammed Hamdoon	Ali Aziz Jasim Ibrahim Saleh Halbows
5	Water hammer, its causes, effects and treatment methods	Dr. Taha Ahmaed Abdullah	Ahmed Younis Belal Mohammed Ahmed Thanoon
6	Calculating the amount of heat from a flat plate at the transition region from the laminar to the turbulent state	Maan Saad Al-din Aldabbagh	Karar Abas Yousif Safia Ali Hussain
7	Design and manufacturing of a laboratory instrument to measure the heights of a cams profile to investigate the follower displacements	Dr. Mhammed Najeeb Abdullah	Mukhalad Salim Jasim Ghaith Mustafa Hanfeesh Bariq Basim Hayder
8	Maintenance and restoration of a device of measuring the force exerted from a jet of water deflected by a vane	Dr. Saddam Atiya Mohammed	Usama Anwar Ahmed Tahani Abdulhameed Turki Abdulaziz Ahmaed Mohammed
9	Numerical simulation of friction spot welding	Dr. Anas Obaid Adrees	Ali Khalid Abd Mohammed Nasir Ali
10	Analytical and experimental determination of residual stresses during drilling process	Dr. Abdulhaqq Abdulqadir Hamid	Noor sabah Abdbashoo Yahya Mohanad yahya
11	Evaluation the outlet air condition of typical evaporative air cooler fully or partly shaded	Dr. Mahmood Usama Jasim	Bahnam Evan Ibrahim Andy Adeeb Elyas
12	Comparative study for delivering high ultrasonic power of different vibrational tool profiles used in several engineering and industrial applications	Dr. Ziad Shakeed Abdubaqi	Mohammed Rafee Dakheel Abullah Hamid Hasan





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13	CFD analysis of laminar flow through sudden enlargement with various chamfered Edge Angles	Dr. Ahmed Fouad Mahmood	Mustafa Mahmood Mustafa Ali Mohammed Sami
14	Study and manufacture of a spiral wind turbine for operation in remote areas	Dr. Ahmed Khalid Ibraheem	Bilal Ghassan Luqman Jamal Mohammed Bashir
15	Economic feasibility study for designing and established smart vertical parking lots in Mosul city	Dr. Omar Dhanoon Jumaah	Rakan Salih Obaid Mohammed Yaqoub Abdel Baqi
16	A numerical study on the performance of a finned heat exchanger	Dr. Muyasser Edis Al-Hasso	Mohammed Addubasit Dawood Sleman Kamran Sleman
17	Design and manufacture of a small-scale horizontal axis wind turbine	Dr. Ali Azzam Alkhabbaz	Mohammed Qaseed Ali Enas Loay Ali
18	Qualification of buckling laboratory equipment	Omar abdulrahman Mohammed	Mohammed basil Mohammed Suliman Dawood Sulaiman
19	Performance evolution of solar air heaters operating in Mosul city conditions	Eman Mohammed Ali	Mohammed Basim Hashim Basheer Ahmad Mohammed
20	An experimental study of natural convection heat transfer from a cylinder placed inside a pyramidal air duct	Nour Al-Din Salih Kheder	Abdulbasit Madloul Sabah Khedr Khalaf Husain
21	Manufacturing a composite material from polyurethane and polyester foams to determine their mechanical and thermal properties	Nour Al-Din Salih Kheder	Abdullah Jamal Hussain Mustafa Ali Shukri
22	Operation and finding of the scientific block diagram of the liquid level control device in the tank	Arab Ghazi Aziz	Mahmoud Ali Salih Mostafa Saod Ali
23	Effect of Green Inhibitor on corrosion in HACL	Zeena Moyasser Abid	Mahammed Sharif Waleed Abeer Mosheer Abdullah





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24	Environmental friendly corrosion Inhibitor for low carbon steel in NACL solution	Zeena Moyasser Abid	Ahmad Laith Sabry Tamare Fouad Massoud
25	Simulation of a hybrid photovoltaic – thermal solar panels using MATLAB simulink	Maan Husain Abbas	Hamza Yahya Qasim Mohammed Zuhair Mohammed
26	Comparison of a vertical and horizontal hybrid wind turbines	Yasser Shukr Mahmoud	Rahaf Haitham Abdulkareem Akram Ahmed Akram
27	Numerical study of the mechanical properties of a composite plate	Youssef Salem Mahmoud	Yaser Najim Al-Din Abd Ghanim Muammer Ghanim





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1	Performance enhancement of a vapor compression refrigeration system using nanofluids	Dr. Adnan Mohammed Abdullah	Shareef Idrees Khairuddin Hanaa Shehab Ahmed
2	Defect detection in composites using ultrasonics	Awad Haloush Khudhur	Younis Adel Abbas Mahmoud Abdulaziz Jumaa
3	Diagnosing some material properties using ultrasonic waves	Awad Haloush Khudhur	Mustafa Khalid Hassan Abdullah Moatasem Ghanem
4	Study of the effect of burnishing on hollow and solid cylinders during vertical forging	Amer Yahya Mohammed	Saif Radwan Nazem Ahmed Yaqoub Mohammed
5	Manufacturing a lab-scale friction stir welding device	Dr. Abdulhaq Abdulqader Hamed	Osama Firas Osama Aziza Ali Hussein
6	Design and construction of a small plastic injection molding machine	Dr. Abdulhaq Abdulqader Hamed	Hussein Ali Ahmed Hamad Hussein Mohammed
7	Performance evaluation of a solar water heating system with an oil-immersed heat exchanger in an evacuated tube	Dr. Mahmoud Osama Jassim	Anas Mahmoud Ali Andrei Mikhail Bahee
8	Performance evaluation of a solar water heating system in Mosul using the f-chart method	Dr. Mahmoud Osama Jassim	Abeer Hassan Ahmed Fidan Mohammed Yaseen
9	Study of the effect of vertical positioning of a heated cylinder between two non-vertical adiabatic walls	Dr. Anwar Mohammed Mustafa	Hussein Ali Hassan Saleh Mahmoud Jihad
10	Modeling and simulation of a domestic solar water heating system in Mosul, Iraq	Dr. Omar Mohammed Hamdoun	Mohammed Shakarallah Saleh Omar Harith Ibrahim
11	Study of the effect of die geometry on the drawing force during wire drawing process	Dr. Mohammed Najib Abdullah	Ali Mahmoud Khalil Ahmed Moayyed Qasim
12	Construction and testing of a low-cost solar heating system	Dr. Ammar Younis Ibrahim	Shahd Mohammed Hamdoun Azhar Khalid Younis
13	Maintenance and testing of a mass airflow sensor	Dr. Ammar Younis Ibrahim	Ahmed Yousif Ahmed Mahmoud Mohammed Adel
14	Design, analysis, and fabrication of ultrasonic-powered tools for face mask production	Dr. Ziad Shakeeb Abdulbaqi	Mohammed Zaid Abdulqader Hiba Yasser Mohammed
15	Design and fabrication of a belt drive conveyor	Dr. Ziad Shakeeb Abdulbaqi	Noor Farouq Saleh Wasan Raed Ramzi





16	Design study of a mechanical vibratory system for laboratory and academic purposes using MATLAB	Ahmed Fattah Ahmed Khalid Elias Hamo	Abdullah Louay Ihsan
17	Effect of sand and dust ingress on gas turbine engines	Dr. Mohammed Saleh Mohammed Naif	Aya Ali Aziz Khitam Jajan Hameed
18	Numerical analysis of a double-pipe heat exchanger	Dr. Younis Mahal Najm	Anmar Ali Dhohaif Ibrahim Mohammed Ali
19	Theoretical study of the effect of grain boundary diffusion rate on the sintering process	Dr. Anas Obeid Idrees	Mohammed Jameel Obeid Sultan Abdullah Ali
20	Effect of strain rate on necking location during bulge forming process	Dr. Anas Obeid Idrees	Mohammed Khaldoun Ibrahim Musab Ghanem Sultan
21	Experimental study on the effect of air quantity on the performance of a central air conditioning system	Maan Saaduddin Al-Dabbagh	Khalid Hassan Younis Mohammed Waleed Shakir
22	Practical analysis of a double-pipe heat exchanger	Raed Ahmed Ali	Aya Waadallah Abdulsalam Sura Atallah Saleh
23	Performance and operation improvement of a liquid level control system	Arab Ghazi Aziz	Ubaida Luqman Aziz Iyad Abduljawad Odheib
24	Simulation of airflow around a cylinder in a free-stream zone using Ansys Fluent	Iman Mohammed Ali	Dalal Ahmed Thamer Rama Duraid Mohammed
25	Effect of welding techniques on mechanical properties of welded joints	Qais Hazem Ismail	Ismat Yashar Abdullah Mustafa Ahmed Idrees
26	Effect of heat treatment on corrosion resistance of carbon steel in saltwater	Ghidaa Ibrahim Hussein	Afnan Raheeq Taha Dalia Mohammed Yousif
27	Study of temperature change effect on thermal conductivity of low-conductivity materials	Nooruddin Saleh Khudhur	Moumen Lateef Jassim Yousif Osama Majeed
28	Design and construction of a laser engraving machine	Suha Hashem Ahmed	Zahraa Mohammed Ali Maha Ali Hussein





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1	Design and Performance Analysis of a Heat Exchanger Operating with a Compression Refrigeration Cycle	Dr. Adnan Mohammed Abdullah	Sufyan Jamal, Abdulwahab Ibrahim
2	Ultrasonic Classification of Acrylic Composites Reinforced with Silicon Carbide (SiCp) and Alumina (Al ₂ O ₃) Particles	Awad Haloush Khudhur	Aseel Yousif, Maha Aqeel
3	Study and Evaluation of Some Mechanical Properties and Microstructure of Heat Treatable Carbon Steel	Amer Yahya Al-Jurjais	Hashem Younis, Suleiman Osama
4	Design, Analysis, Simulation and Construction of a Centrifugal Speed Governor	Dr. Abdulhaq Abdulqader	Doha Akram, Zubaida Mazen
5	Modeling and Designing a Mold for Producing a Plastic Product by Injection Molding	Dr. Mohammed Najib Abdullah	Taghreed Yaseen
6	Construction of a Basin Solar Collector Designed for Domestic Use	Dr. Ammar Younis Ibrahim	Kazem Mohammed, Anmar Musaad
7	Design and Implementation of Laboratory Experiments Using Arduino Control Board	Dr. Ahmed Fattah Ahmed	Sarah Khalid, Aya Sami
8	Design Study of a Spider-Like Swinging Cart Using MSC ADAMS Software	Dr. Ahmed Fattah Ahmed, Asst. Prof. Dr. Alaa Daham Younis	Hakam Faleh Hassan, Saud Laith Nazem, Farah Hussein Younis
9	Determining Forming and Wrinkling Limits of Metal Tubes During Bending Process	Dr. Anas Ubaid Al-Balood	Abdulrahman Munthir, Abdulrazzaq Mohammed
10	Design and Manufacturing of an Automatic Plotter Controlled by a Microcontroller	Dr. Omar Thanoon Jumaa	Taha Ahmed, Mohammed Waad
11	Manufacturing and Testing of a Manual Water Pump	Bahjat Majid Mustafa	Mohammed Abduljaleel, Anas Adel
12	Study of the Effect of Air Filters on the Performance of a Central Air Conditioning System	Moan Saad Al-Din Al-Dabbagh	Saba Riyadh, Zahraa Haidar
13	Performance Improvement of a Solar Water Heating System with an Immersed Heat Exchanger in Oil Inside a Vacuum Tube Solar Collector	Dr. Mahmoud Osama Jassim	Younis Abdulkarim Abduljabbar
14	Design and Analysis of a Grooved Mass Tool Operating with Ultrasonic Power	Dr. Ziad Shakeeb Al-Sarraf	Mohammed Nabil, Emad Hassan

