



Northern Technical University
Technical Engineering College / Mosul
Dept. of Power Mechanics Engineering Technology
Postgraduate Studies - Thesis



No	Student Name	Thesis Title	Supervisor
1	Arkan Sabhan Hussein	Performance of Rhombic Storage Solar Collector Under Climatic Conditions of Mosul	Prof. Dr. Omar Khalil Ahmed
2	Osama Akram Younis	Investigation of Thermal Performance Using Three Working Fluids (H ₂ O, Novec 1000 and Oil Transformer) in Pool Boiling	Dr. Nabeel M. Abdulrazzaq
3	Zeina Ahmed Mohammed	Performance Analysis of Single-Pass Solar Air Heater System Using Coil Tube Filled by Phase Change Material: An Experimental Study	Assist. Prof. Ahmed Mustafa Saleem
4	Sinar Rafe Najm Al-Din	Enhancement Heat Transfer in Double Pipe Heat Exchanger using Hybrid nanofluids (Al ₂ O ₃ -TiO ₂ water) under Turbulent Flow Regime	Assist. Prof. Dr. Qais Abid Yousif
5	Abdul Rahman Ayad Mahmoud	Thermal Behavior of a Heat Storage Unit with Different Materials in a Solar Air Heating System	Assist. Prof. Ahmed Mustafa Saleem
6	Mohammed Ali Basim	Improving the Performance of Solar Water Distiller System using Porous Medium and Phase Change Material under Mosul / Iraq Climatic Conditions	Prof. Dr. Omar Rafae Alomar
7	Mohammed Ghani Dhiab	Energy, Exergy and Economic Analysis of Al-Qayyarah Gas Power Plant	Assist. Prof. Dr. Obed Majeed Ali
8	Yahya Yousif Yahya	Thermal Performance Enhancement of Single-Pass Solar Air Heater Using Different PCM: An Experimental Study	Assist. Prof. Ahmed Mustaffa Saleem
9	Shahad Moufawq Younis	Enhancement the Performance of Heat Sink Using Metal Foam Partially Filled with Phase Change Material	Asst. Prof. Dr. Ayad Suleiman Abdullah
10	Omar Younis Hammada	An Experimental Study on The Performance of Water-Based PVT Solar Collector Integrated with Phase Change Material	Prof. Dr. Omar Rafae Alomar
11	Amina Natheer Abdullah	Evaluating the Performance of Solar Air Heater Collector by Adding Jet Impingement with V-Corrugated Absorber Plate Integrated with Thermal Storage Material Behind the Perforated Jet Plate in Mosul City	Prof. Dr. Omar Rafae Alomar



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No	Student Name	Thesis Title	Supervisor
12	Noor Mandil Ajjaj	The Effect of the Vertical Mechanical Vibration on Natural Convection Heat Transfer: An Experimental Study	Assist. Prof. Dr. Qais Abid Yousif
13	Ihsan Mohammed Ali Ibrahim	Experimental Investigation of Solar-Driven Heat Pump System	Assist. Prof. Dr. Nabeel M. Abdulrazzaq
14	Mohammed Abdul Farhan Mukhlef	Design and Manufacture of a Thermo-Acoustic Refrigerator by Applying High-Amplitude Sound Waves	Assist. Prof. Dr. Qais Abid Yousif
15	Marwan Mohammed Ali	Performance Improvement of Solar PV Modules Using Different Cooling systems Experimental study	Assist. Prof. Firas Aziz Ali

