



Mechanical Engineering Department

Graduation Project I (EME 5001)

Semester: 1st 2026-2027

#	Project	Supervisors	Students	
1	Design, Simulation, and Experimental Development of a Solar Simulator for Photovoltaic Panel Performance Testing	Dr.Iham Zidane Dr.Nour Moharram	Sara Bassem Abdel-Aal	221000238
			Ahmed Saied Shaaban	211010254
			Shehab Ahmed Omar	231000362
			Mostafa Reda Abdel-Aziz	231001132
			Ahme Moataz Ahmed	221001493
			Nour Hany Rezk	222000362
2	Predictive Micro-Zonal HVAC Control via Occupancy-Driven Machine Learning and Automated Dampers	Dr.Ali Ismail Dr.Essam Seddik	Ahmed Salah El-Deen Mohamed	221001555
			Ahmed Hatem Abdel-Hakeem	221011001
			Mohamed Essam Mohamed	221003765
			Omar Fakhr El-Deen	221001666
			Ahmed Yasser Abbas	221010800
3	Energy-Efficient Residential Buildings Using Polycarbonate Panels for Reducing Lighting and Cooling Energy Consumption and Carbon Emissions	Dr.Sherif Zafer Dr.Mohanad Mohamed	Adham Khaled Abdel-Hameed	221002559
			Youssef Khaled Hazem	221000221
			Mohamed Atteya El-Sayed	231003838
			Youssef Hamed Moustafa	221001985
			Mohamed Kamal Hasan	221001491
			Mohamed Ahmed Abdel-Khalek	221002548

5	Design and Development of an Energy-Efficient Atmospheric Water Generator for Sustainable Freshwater Production	Dr.Hasan El Gamal Dr.El Sayed Saber	Mohamed Gamal Abdel-Hai	18101499
			Youssef Ossama Samir	211009234
			Omar Ebrahim Abdel-Rahman	211001240
			Omar Taymour Ali	211000382
			Moamen Mohamed Mahmoud	211001934
			Yassin Abdel-Hamid Ismail	221000711
6	Enhancement of air entrainment by Plunging jet for aeration applications	Dr.Ayman Bakry Dr.Rola Afify	Fatma Awad Hemida	221003419
			Mariam Awad Hemida	221003418
			Ali Mohamed Morsi	221000690
			Mohamed Ehab Mohamed	211001811
			Abdalla Gouda Kamal El-Deen	232000551
			Yehia Mohamed Ali	231001418