

# CANDIDATES FOR MASTER’S DEGREES

## College of Engineering

### Biomedical Engineering

<b>Heba Farid Abed</b> Development of a MOF-Based Material for Cholesterol Detection	<b>Joel Nabil Georgeous</b> Noninvasive Breath Acetone Sensor for Diabetes Diagnosis	<b>Reem Mazen Senjab</b> The Use of Ramucirumab Conjugated Liposomes and Ultrasound in Cancer Treatment
<b>Anas Chaari</b> Enhanced Brain Source Localization Using Multimodal Signal Fusion of fNIRS and EEG Data	<b>Rukaia Khaldoun Makhoulouta</b> EEG-Based Brain Source Localization of Mental Stress	

### Chemical Engineering

<b>Lily Tariq Alshanti</b> Nanoparticle-Enhanced Ionic Liquids for Thermal Energy Storage	<b>Zeina Ashraf Elshahawi</b> Encapsulation of Ionic Liquids for Energy Storage Applications	<b>Iffat Fatima</b> Self Humidified PVDF Composite Membranes for PEM Fuel Cells
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### Civil Engineering

<b>Abdel Razzaq Khalil Abu Othman</b> Bearing Capacity Factors for Spread Footings on Soft Clay Stabilized With a Sandy Trapezoidal Trench	<b>Monia Najib Gharzeldeen</b> Behavior of Ultra-High Performance Concrete Slabs under Fire Exposure	<b>Anas Mohamed Saber</b> Shear Response of Ultra High Performance Concrete Deep Beams with Holes
<b>Abrar Ahmad</b> Shear Strength and Deformation of Recycled Concrete Aggregate-Dune Sand Admixture	<b>Habelrahman Hassan Mohyeldin Hassan</b> Experimental Evaluation of 3D Printed Concrete	<b>Hussam Abdelkarim Safieh</b> Cyclic Loading Performance of Beam-Column Joints Employing Different Ratios of Fly Ash and GGBFS Mixes
<b>Sadiq Duraid Al-Bayati</b> Behavior of Reinforced Concrete Columns Embedded with PET Bottles Under Pure Axial Compression	<b>Abdelrahman H. H. Hindieh</b> Structural Behavior of Reinforced Concrete Members Made With 100% Recycled Materials and No Cement	<b>Noureldin Islam Sallam</b> Shear Strength and Pullout Capacity of Recycled Aggregate-Dune Sand Admixture as a Backfill Soil
<b>Mohammed Layth Al-Dawood</b> Fire Performance of GFRP Beams	<b>Haifa Parayil Valappil</b> Development of High-Resolution MT-InSAR-based Structural Health Monitoring System for Use in the UAE	<b>Prateek Uppin</b> Shear Response of GFRP RC Deep Beams with Horizontal and Vertical Web Reinforcement
<b>Laila A. M. F. Alomar</b> Understanding Potential Brine Disposal Impacts of a Desalination Plant on Coastal Waters		

### Computer Engineering

<b>Mohamed Adel Almaazmi</b> Formal System Modeling of Security In Vehicular Communication Using Event-B And Tamarin Prover	<b>Reem H. R. S. Alshammari</b> Enhancing IoT Security through Artificial Intelligence	<b>Ibrahim Khaleel Eksheir</b> Scalable Machine Learning Pipelines
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### Construction Management

<b>Sara Nezar Al Armouti</b> AI-Based Decision Model Predicting Sustainability Objectives Based on Contractor's Characteristics	<b>Lara Omar Dhin</b> Construction Waste Management	
<b>Roudha Mahmoud Ali</b> Impact of Water Pipe Leakage on Road Infrastructure Integrity	<b>Tanweer Ahmed Riaydh</b> A Decision Support System for Retrofitting Structures	

### Electrical Engineering

<b>Saleh Ali Abdalla</b> Optimization Techniques for Adaptive Video Streaming	<b>Shoaib Ahmed</b> Artificial Intelligence-Driven Electric Vehicle Traction System for Sustainable Transportation	<b>Yazan Barbar</b> Blockchain-Based Cyber Attack Detection in Protective Relaying
<b>Omar Abdelaziz Abdelaziz</b> Photovoltaics Fault Diagnosis and Cleaning Estimation Using Machine Learning Based Techniques	<b>Tariq Mohamed Salim Mohamed Almutawa</b> Management of Battery Swap Stations for EVs in the UAE	<b>Osama Moustafa Elbeltagy</b> Optimizing Energy Consumption for Enhanced Efficiency in Data Centers
<b>Zainab R. M. Abuowda</b> Calibration and Verification of a Microwave Tomography System for Biomedical Applications	<b>Saif Rashid Alsuwaidi</b> Management of Battery Swap Stations for EVs in the UAE	<b>Tarnim Usama Nos</b> DASH Streaming Using Layered Coding
	<b>Mohammad Rabih Aziz</b> Predistortion of Dual-band Power Amplification Systems	<b>Yousef Hassan Serag</b> Smart Grid Resilience



## Engineering Systems Management

<b>Sara Hussein Abu Iktish</b> Healthcare System Optimization Using Data Science: Trauma Room	<b>Haneen M. E. M. Alrabiah</b> Evaluating the Economic Feasibility of Environmentally Friendly Healthcare Waste Management Practice	<b>Farah K. A. Balaha</b> Design and Implementation of an Artificial Intelligent Machining System for Quality 4.0
<b>Azza Abdulla Al-Ali</b> Optimizing Fleet Charging of Electrical Vehicles	<b>Abdalla Abdelrahman Alshamsi</b> Exploring The Potential of Generative Artificial Intelligence in Chemical Engineering	<b>Rahaf Adel Haroun</b> The Supplier Selection Certification in the Era of Digital Technologies
<b>Soha Al-Asheh</b> Management in Healthcare	<b>Fatema Khamis Alshehhi</b> Using AI For Process Improvement in the Oil and Gas Industry	<b>Mohamed Ali Mohamed</b> Electrification of Public Transport
<b>Laila Ayman Al Baya'a</b> Transformation of Automotive Preventive Maintenance to Predictive Maintenance	<b>Abdalla Waheeb Alzarooni</b> Build Sustainable Data Centers Using Optimization Techniques and IoT Devices	<b>Nasija Suhail</b> The Utilization of Augmented Reality in Engineering Education
<b>Hamad A. Rahman Albinali</b> Cost Optimization Model for the Multi-Resource Leveling		

## Machine Learning

<b>Dia' Addeen Ibrahim Abuhani</b> Measuring Trees Alpha Diversity Through Unsupervised Learning	<b>Muhammed Noshin Poovan Kulathil</b> Lossless ReLU Matrix Factorization: A Novel Approach for Low-Rank Compression	<b>Ansah Juned Siddiqui</b> Multi Modal Fusion for Skin Cancer Prognosis
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## Mechanical Engineering

<b>Mohammed Nazih Al Hadi</b> Theoretical and Experimental Analysis of Electrostatic MEMS Resonators for Sensing and Filtering	<b>Abdalhadi M. H. Fayad</b> A Comprehensive Analysis for Improved ASTM Standard Accuracy	<b>Abdulrahman Yosri Salem</b> Electric Vehicle Battery Life Cycle Management Framework
<b>Omran Radwan Chaker</b> Investigating the Impact of Heat Treatment on Chemical Short-Range	<b>Kareem Ahmed Morsi</b> Innovative Design, Modeling and Construction of Loop Heat Pipe for Thermal Management Applications	<b>Masa Bashar Ahmad Touqan</b> Crack Detection and Identification Using 3D Digital Image Correlation

## Mechatronics Engineering

<b>Amer Khamis Al Juran</b> Optimizing Multi-Sensor Fusion with Intelligent System For Real-Time Navigation	<b>Fatma Ali Alfalasi</b> <b>Karim Mohamed Diab</b> H-Adaptive and Gaussian Processes Techniques for High-Accuracy State Estimation of Ground Vehicles	<b>Mohammad Khaled Rashwan</b> Adaptive Hybrid Sensor Fusion for Enhanced Outdoor Vehicle Localization in Complex Environments
<b>Abdelrahman Ahmed Alblooshi</b> Quadrotor Altitude/Attitude Control using Adaptive PID		<b>Shadi Mohamad Saadeddin</b> A Hybrid Control Approach for Autonomous Vehicles Based on Model Predictive Control

