

1. College of Chemicals and Materials

[Bioengineering Department](#)

[Chemical Engineering Department](#)

[Chemistry Department](#)

[Materials Science & Engg. Department](#)

2. College of Computing & Mathematics

[Computer Engineering Department](#)

3. College of Design & Built Environment

[Arch. Engg & Construction Mgt. Department](#)

[Civil & Environmental Engg Department](#)

4. College of Engineering & Physics

[Aerospace Engineering Department](#)

[Control & Instrumentation Engg Department](#)

[Electrical Engineering Department](#)

[Mechanical Engineering Department](#)

[Physics Department](#)

5. College of KFUPM Business School

[Management and Marketing Department](#)

6. College of Petroleum Engg. & Geo Sciences

[Geosciences Department](#)

[Petroleum Engineering Department](#)

College of Chemicals and Materials

Bioengineering Department

[back to top](#)

Student Name: Nourah Mohammed B Alzuabi

AN EARLY WARNING SYSTEM FOR ANTIMICROBIAL RESISTANCE:

**Thesis Title : *INTEGRATING MACHINE LEARNING WITH NATIONAL
DEVELOPMENT INDICATORS***

Date & Time : Tuesday, December 16, 2025 at 02:30 PM

Major : LS

Degree : MS

Location : 6-165

Advisor : Dr. Faizan Khan

Student Name: Ridaa Mariyam

Thesis Title : *ISOLATION AND CHARACTERIZATION OF HALOPHILIC
DIBENZOTHIOPHENE (DBT) DEGRADING BACTERIA*

Date & Time : Tuesday, December 23, 2025 at 01:00 PM

Major : LS

Degree : MS

Location : Building: 6, Room: 165

Advisor : Dr. Alexis Mounda

Chemical Engineering Department

[back to top](#)

Student Name: Achmad Ferdiansyah Pradana Putra

Thesis Title : *CATALYTIC CONVERSION OF METHANE FOR HYDROGEN
PRODUCTION USING A CHEMICAL LOOPING PROCESS IN A
FLUIDIZED BED REACTOR*

Date & Time : Wednesday, December 10, 2025 at 02:00 PM

Major : CHE

Degree : PHD

Location : Auditorium, Building 4 “ Rooms 215”218

Advisor : Dr. Mohammad Hossain

Student Name: Imtiaz Ul Hasan

Thesis Title : *Lanthanide-Promoted Ni-Based Catalysts for Enhanced Syngas
Production via Dry Reforming of Methane*

Date & Time : Sunday, December 14, 2025 at 02:00 PM

Major : CHE

Degree : MS

Location : Building 63, Room: 331

Advisor : Dr. Z Malibari

Student Name: Mahmoud Nidal Mahmoud Almakhadmeh

Thesis Title : *Simultaneous Removal of Dyes from Wastewater and H₂S
Scavenging from Natural Gas*

Date & Time : Monday, December 15, 2025 at 01:00 PM

Major : CHE

Degree : MS

Location : Building 4, Room 125

Advisor : Dr. Sagheer Ahmed Sagheer Onaizi

Student Name: Mohamed Hany Fouad Aboukadoum

Thesis Title : *Formulation of Water-Based Drilling Fluids using Novel Layered*

Triple Hydroxide/Oxide: Rheology, Filtration, and H₂S Scavenging Performance

Date & Time : Monday, December 15, 2025 at 10:00 AM

Major : CHE

Degree : MS

Location : Building 63 - Room 331

Advisor : Dr. Sagheer Ahmed Sagheer Onaizi

Student Name: Ruqaiya Aziz

Thesis Title : *Efficient removal of organic dyes and pharmaceuticals by ZIF-based composites*

Date & Time : Monday, December 15, 2025 at 11:00 AM

Major : CHE

Degree : MS

Location : Building: 63 , Room: 331

Advisor : Dr. Sagheer Ahmed Sagheer Onaizi

Student Name: Ariel Hazril Gursida

Thesis Title : *TANDEM VOX/ZSM-5 CATALYST FOR N-HEXANE CATALYTIC CRACKING TO PRODUCE OLEFIN*

Date & Time : Sunday, December 21, 2025 at 10:30 AM

Major : CHE

Degree : PHD

Location : Building 4-125

Advisor : Dr. Mohammad Hossain

Chemistry Department

[back to top](#)

Student Name: Khaled Ossoss

Thesis Title : *CYCLOPOLYMERIZATION OF DIALLYLAMINE SALTS TO LINEAR*

AND CROSS-LINKED POLYMERS CONTAINING MOTIFS OF CROWN ETHER FOR SELECTIVE EXTRACTION OF LITHIUM-ION

Date & Time : Wednesday, December 10, 2025 at 03:00 PM

Major : CHEM

Degree : PHD

Location : building: 4 Room:125

Advisor : Dr. Shaikh Ali

Student Name: Sainey Touray

Thesis Title : *Engineered NiCo₂O₄ Based Electrode for Enhanced Performance of Supercapacitors*

Date & Time : Tuesday, December 16, 2025 at 10:00 AM

Major : CHEM

Degree : MS

Location : Room 125 building 4

Advisor : Dr. Majad Khan

Student Name: Samah Ahmed Qannaf Sawlan

Thesis Title : *Development of a New Porous Material Composite for The Electrochemical Detection of Urea*

Date & Time : Thursday, December 18, 2025 at 02:00 PM

Major : CHEM

Degree : MS

Location : 4-125

Advisor : Dr. A Al-Betar

Student Name: Maali Abdulhadi Alzoubi

Thesis Title : *Synthesis and Characterization of Graphene with Metal Oxide for hydrogen evolution reaction from the wastewater*

Date & Time : Sunday, December 21, 2025 at 01:00 PM

Major : CHEM

Degree : MS

Location : building 4 room 125

Advisor : Dr. A Al-Betar

Student Name: Ahmed Saidykhan

Thesis Title : *Experimental and Theoretical Investigations of the Excited State Dynamics of Cytosine's Tautomers*

Date & Time : Monday, December 22, 2025 at 02:00 PM

Major : CHEM

Degree : MS

Location : Building 4 room 125

Advisor : Dr. Mohamed Morsy

Student Name: Wan Ryan Asri

Thesis Title : *Development of carbon nanodots and study of their fluorescence properties*

Date & Time : Tuesday, December 23, 2025 at 02:00 PM

Major : CHEM

Degree : MS

Location : Building: 4, Room: 125

Advisor : Dr. Mohammad Siddiqui

Materials Science & Engg. Department

[back to top](#)

Student Name: Octaviani Siregar

Thesis Title : *Bio-Based 4D-Printed Auxetic Cardiac Patch: Integrating CNT-Reinforced Resin for Enhanced Flexibility and Conductivity of Myocardial Repair Application*

Date & Time : Monday, December 15, 2025 at 01:00 PM

Major : MSE

Degree : MS

Location : building 63

Advisor : Dr. Fahad Alam

Student Name: Zahidul Islam

Thesis Title : *Fabrication of Co212 Superalloy Reinforced with cBN via Spark Plasma Sintering: Insights into Mechanical, Thermal, and Corrosion Properties.*

Date & Time : Monday, December 15, 2025 at 11:00 AM

Major : MSE

Degree : MS

Location : Building 63, Room 362

Advisor : Dr. Qasem Drmash

College of Computing & Mathematics

Computer Engineering Department

[back to top](#)

Student Name: Sami Ul Haq

Thesis Title : *TOWARD DEMOCRATIZING LLMS: A FAST, ZERO-SHOT, CALIBRATION-FREE POST-TRAINING QUANTIZATION FRAMEWORK*

Date & Time : Monday, December 15, 2025 at 10:00 AM

Major : COE

Degree : MS

Location : Building: 76 Â Â Â Room: 1124

Advisor : Dr. Aiman El-Maleh

College of Design & Built Environment

Arch. Engg & Construction Mgt. Department

[back to top](#)

Student Name: Abdul Bashir Wadood Oghlo

Thesis Title : *Life Cycle Cost Optimization of 3D Printed Construction*

Date & Time : Thursday, December 11, 2025 at 04:00 PM

Major : CEM

Degree : MS

Location : Building 28- Room 200

Advisor : Dr. Ibrahim Al Turki

Student Name: Sara Yousaf

Thesis Title : *ACOUSTICAL CHARACTERIZATION OF METAMATERIALS FOR ENHANCED SOUND ABSORPTION AND INSULATION IN BUILDINGS™ APPLICATIONS*

Date & Time : Monday, December 22, 2025 at 01:00 PM

Major : ARE

Degree : MS

Location : Building 28, Room 200

Advisor : Dr. Adel Abdou

Student Name: Lubna Kamal Najjar

Thesis Title : *Leveraging Machine Learning for Life Cycle Assessment of Polyamide Fiber-Enhanced Concrete*

Date & Time : Wednesday, December 10, 2025 at 02:30 PM

Major : CE

Degree : MS

Location : building 59, room 1014

Advisor : Dr. Haitham Elnakar

Student Name: Ahmad Alrababah

Thesis Title : *An Interpretable and Explainable Machine Learning Framework for Driver Behavior Classification*

Date & Time : Thursday, December 11, 2025 at 03:00 PM

Major : CE

Degree : MS

Location : Building: 63 Room: 331

Advisor : Dr. Syed Rahman

Student Name: Rauf Khan

Thesis Title : *From Lab to Data-Intelligence Modelling: Redefining Oil-in-Water and Molecular Separation with Machine Learning-Optimized Hydroxylated MXene and graphene oxide Membranes*

Date & Time : Tuesday, December 16, 2025 at 10:30 AM

Major : CE

Degree : MS

Location : Building 3, Room 109

Advisor : Dr. Zaher Yaseen

Student Name: Jawad Khalil

Thesis Title : *ML Based Prediction and Optimization of Compressive Strength of One-Part Alkali Activated Mortar.*

Date & Time : Tuesday, December 16, 2025 at 02:00 PM

Major : CE

Degree : MS

Location : Building: 63, Room: 121

Advisor : Dr. Amin Ali Al-Fakih

Student Name: Husam Alsarhan

Thesis Title : *Development and optimization of innovative and sustainable one-part alkali-activated binder using locally available precursors*

Date & Time : Wednesday, December 17, 2025 at 02:00 PM

Major : CE

Degree : MS

Location : Building: 4 Â Â Â Room: 125

Advisor : Dr. Amin Ali Al-Fakih

Student Name: Baraah Qasem Abdullah Alrababa'A

Thesis Title : *The Effect of Particle Shape of Coarse-Grained Materials on Spectral Induced Polarization Response and Its Relationship with Hydraulic Conductivity*

Date & Time : Thursday, December 18, 2025 at 01:00 PM

Major : CE

Degree : MS

Location : Building 63, room 362

Advisor : Dr. Ammar Al-Shammari

Student Name: Mohammad Alainya

Thesis Title : *BUCKLING OF CIRCULAR CYLINDRICAL SHELLS UNDER WIND LOADING*

Date & Time : Thursday, December 18, 2025 at 02:00 PM

Major : CE

Degree : MS

Location : 63-331

Advisor : Dr. Mohammad Al-Osta

College of Engineering & Physics

Aerospace Engineering Department

[back to top](#)

Student Name: Sherifdeen Olayinka Anafi

Effect of Geometric Imperfections on Buckling and Post Buckling
Thesis Title : ***Deformation of Filament Wound CFRP Cylindrical Structures Under Axial Compression***

Date & Time : Wednesday, December 17, 2025 at 01:00 PM

Major : AE

Degree : MS

Location : Building 63, Room 331

Advisor : Dr. Abrar Baluch

Control & Instrumentation Engg Department

[back to top](#)

Student Name: Ashhad Ali Shahid

Thesis Title : ***Design of Intelligent and Adaptive LVAD Controller for Diastolic Heart Failure Patients***

Date & Time : Sunday, December 14, 2025 at 02:00 PM

Major : SCE

Degree : MS

Location : Room No. 130, Building No. 22

Advisor : Dr. Adnan Shakoor

Student Name: Abdullah Memon

Development of a Hybrid Data-Driven and Physics-Based Battery Management System for Enhanced State Estimation and Predictive Control in Lithium-Ion Batteries

Date & Time : Sunday, December 14, 2025 at 03:00 PM

Major : SCE

Degree : MS

Location : 22-130

Advisor : Dr. Muhammad Gulzar

Student Name: Mustapha Kamel Khaldi

Thesis Title : ***Data-driven Modeling Control and Optimization of Fluid Catalytic Cracking process***

Date & Time : Tuesday, December 16, 2025 at 10:00 AM

Major : SCE

Degree : PHD

Location : Building: 22, Room: 125

Advisor : Dr. Mujahid Dhaifallah

Student Name: Jamilu Yahaya Umar

Thesis Title : *Partially Observable Markov Decision Process-based framework for Emotional Behavior of Socially Assistive Robot*

Date & Time : Tuesday, December 16, 2025 at 01:30 PM

Major : SCE

Degree : MS

Location : Building: 22 Room: 127

Advisor : Dr. Ali Nasir

Student Name: Mazen Mohamed

Thesis Title : *Advanced Control of Flexible Loads in Microgrids with EV, HVAC, and Cryptocurrency Mining*

Date & Time : Sunday, December 21, 2025 at 01:00 PM

Major : SCE

Degree : MS

Location : Building: 22, Room: 125

Advisor : Dr. Md Shafiullah

Electrical Engineering Department

[back to top](#)

Student Name: Shahriar Sadid

Thesis Title : *Parametric Channel Estimation with Active RIS-aided Communication System.*

Date & Time : Wednesday, December 10, 2025 at 08:00 AM

Major : EE

Degree : MS

Location : Building 59 Room 2003

Advisor : Dr. S. Al-Ahmadi

Student Name: Saeed Issa

Thesis Title : *High Order Frequency Selective Surfaces Based Polarization Rotators and Their Applications*

Date & Time : Thursday, December 11, 2025 at 02:30 PM

Major : EE

Degree : MS

Location : Building: 59 Â Â Â Room: 2023

Advisor : Dr. Ali Al-Reshaid

Student Name: Ali Maher Mohammed

Thesis Title : *Robust Photovoltaic Parameter Estimation Using Various Optimization Algorithms*

Date & Time : Sunday, December 14, 2025 at 01:00 PM

Major : EE

Degree : MS

Location : Bulding 63, Room 127

Advisor : Dr. Muhammad Khalid

Student Name: Ahmed Kamal Mukhtar Babiker

Thesis Title : *Techno-Economic Optimization of Multi-Electrolyzer Systems for Green Hydrogen Production in Decarbonized Energy Systems*

Date & Time : Sunday, December 14, 2025 at 01:00 PM

Major : EE

Degree : MS

Location : 59-2017

Advisor : Dr. Fahad Al Ismail

Mechanical Engineering Department

[back to top](#)

Student Name: Majid Alotaibi

Thesis Title : *Role of Low-carbon Hydrogen in Decarbonizing the Chemical Industry in Jubail and Yanbu: A Life Cycle and Technoeconomic Assessment*

Date & Time : Wednesday, December 10, 2025 at 10:00 AM

Major : ME

Degree : MS

Location : Building 63, Room 127

Advisor : Dr. Awad Alquaity

Student Name: Yazeed Issam Hamed

Thesis Title : *Life Cycle Assessment and Total Cost of Ownership of Diesel and Fuel Cell Electric Trucks for Saudi Arabia's Freight Sector*

Date & Time : Thursday, December 11, 2025 at 02:00 PM

Major : ME
Degree : MS
Location : 63-362
Advisor : Dr. Fahad Alzahrani

Student Name: Abdulaziz Alkhurayef

Thesis Title : *Over-reading Solution for Wet Gas Flow Metering with Differential Pressure Meters*

Date & Time : Monday, December 15, 2025 at 01:00 PM

Major : ME
Degree : MS
Location : Building 63 Room 126
Advisor : Dr. A Al-Sarkhi

Student Name: Muhammad Wahid

Thesis Title : *Experimental Investigation of Photovoltaic Efficiency through Passive Cooling: A Heatsink and Organic-Inorganic Phase Change Material Approach*

Date & Time : Wednesday, December 17, 2025 at 10:00 AM

Major : ME
Degree : MS
Location : Building: 63, Room: 037
Advisor : Dr. Ravishankar Sathyamurthy

Student Name: Saqlain Zaid

Thesis Title : *Evaluation of Degradation Behavior in Dissolvable Magnesium structures*

Date & Time : Wednesday, December 17, 2025 at 01:00 PM

Major : ME
Degree : MS
Location : B63-R123
Advisor : Dr. J. Al-Bin-Mousa

Student Name: Mahmoud Fakouri

Thesis Title : *Performance Enhancement of Double Pass Solar Air Heater Using Activated Carbon Nanoparticles-Coated Absorber Plate for Solar Drying Applications*

Date & Time : Thursday, December 18, 2025 at 10:00 AM

Major : ME
Degree : MS
Location : Building 63, Room 362
Advisor : Dr. Ravishankar Sathyamurthy

Student Name: Abdullah Ali Abdullah Yahya

Thesis Title : *Drop Test Performance of Type V Composite Hydrogen Storage Vessels: Comparative Analysis of Cylindrical, Spherical, and Toroidal Geometries*

Date & Time : Tuesday, December 23, 2025 at 03:00 PM

Major : ME
Degree : MS
Location : 63-225
Advisor : Dr. Mariam Jaber

Physics Department

[back to top](#)

Student Name: Yuda Prima Hardianto

Thesis Title : *Carbon Composite Transition Metals-Doped Nickel Based Layered Double Hydroxide for Nickel-Zinc Battery Enhancement*

Date & Time : Wednesday, December 10, 2025 at 01:30 PM

Major : PHYS
Degree : PHD
Location : Building 6, Room 125
Advisor : Dr. Zain Yamany

Student Name: Anas Ibrahim Al Hasan

Thesis Title : *Temperature - Induced Spin Current Generation via Spin Pumping*

Date & Time : Wednesday, December 17, 2025 at 02:00 PM

Major : PHYS
Degree : MS
Location : Building 6, room 125
Advisor : Dr. Adel Abbout

Management and Marketing Department

[back to top](#)

Student Name: Rahma Abo Auf

Thesis Title : *The Impact of Augmented Reality on Impulsive Purchase Behavior: Focus on Time Pressure and Psychological Ownership*

Date & Time : Wednesday, December 17, 2025 at 11:00 AM

Major : BS

Degree : MS

Location : 128

Advisor : Dr. Ghazanfar Ali Abbasi

College of Petroleum Engg. & Geo Sciences

Geosciences Department

[back to top](#)

Student Name: Claudia Carolina Muñoz

Thesis Title : *Experimental Evaluation of CO₂ interaction with sandstone and its associated minerals under reservoir conditions*

Date & Time : Wednesday, December 10, 2025 at 09:00 AM

Major : GEOL

Degree : MS

Location : Building 76, Room 1226

Advisor : Dr. Khalid Al-Ramadan

Student Name: Yang Cui

Thesis Title : *Advanced Deep Learning Approaches for Distributed Acoustic Sensing Data Processing*

Date & Time : Wednesday, December 17, 2025 at 05:00 PM

Major : GEOP

Degree : MS

Location : Building 76, Room 1218

Advisor : Dr. Umair Waheed

Student Name: Lutfi Mulyadi

Thesis Title : *Post-Stack Seismic Inversion Using Machine Learning*

Date & Time : Thursday, December 18, 2025 at 02:30 PM

Major : GEOP

Degree : PHD

Location : 76-1226

Advisor : Dr. Abd-UI-Latif Al-Shuhail

Student Name: Alessandro Benito Traversa Gonzalez

Thesis Title : *SeisDiffFNO: Seismic Data Enhancement Using Fourier Neural Operator with Diffusion Model*

Date & Time : Thursday, December 18, 2025 at 01:00 PM

Major : GEOP

Degree : MS

Location : room 1218, building 76

Advisor : Dr. Umair Waheed

Student Name: Ali Hussain Al Muallem

Thesis Title : *COMPARATIVE EVALUATION OF SHEAR WAVE VELOCITY PROFILING USING MASW AND SEISMIC TOMOGRAPHY IN EASTERN SAUDI ARABIA*

Date & Time : Tuesday, December 23, 2025 at 02:00 PM

Major : GEOP

Degree : MS

Location : Room 1218 at building 76

Advisor : Dr. Abd-UI-Latif Al-Shuhail

Petroleum Engineering Department

[back to top](#)

Student Name: Abdullah Kamal Al Adi

Thesis Title : *DIAMMONIUM PHOSPHATE COMPATIBILITY IN FRACTURING FLUIDS SYSTEM TARGETING DEEP CONSOLIDATION*

Date & Time : Tuesday, December 09, 2025 at 09:00 AM

Major : PETE

Degree : MS

Location : B-76, Room 1226

Advisor : Dr. Murtada Al-Jawad

Student Name: Mohammed Hasnain Mohammed Zahir Saiyed

Thesis Title : *Hydrogen Transport and Reaction Mechanisms in Pyrite-Rich Geological Formations*

Date & Time : Sunday, December 14, 2025 at 10:00 AM

Major : PETE

Degree : MS

Location : Room 1226, Building 76.

Advisor : Dr. Mohamed Mahmoud

Student Name: Amir Shokry Youssef

Thesis Title : *Evaluation of Secondary Formation Damage During Filter Cake Removal*

Date & Time : Monday, December 15, 2025 at 11:00 AM

Major : PETE

Degree : PHD

Location : Building 76 - Room 1238

Advisor : Dr. Salaheldin Elkatatny

Student Name: Mohammed Mahtab Ahmed

Thesis Title : *Enhancing CO₂ Sequestration in Saline Aquifers Using Chelating Agents*

Date & Time : Thursday, December 18, 2025 at 01:30 PM

Major : PETE

Degree : MS

Location : Room 1226, Building 76

Advisor : Dr. Rahul Gajbhiye
