

# DEPARTMENT OF MATHEMATICS AND NATURAL SCIENCES

## Overview

### Program Mission

The Department of Mathematics and Natural Sciences are committed to serving the needs of the Engineering departments by providing quality education. Emphasis is on using the latest digital courseware, innovation and the application of scientific and technical knowledge to solve real-world problems. The courses are designed to cover both, the conceptual and the practical aspects of learning by providing the students with the right tools that will allow them to enter a career in higher education, industry or government.

### Program Description

The Math and Sciences offer courses in Math, Physics, and Chemistry. These courses are part of the core curriculum and fulfil the requirements in the various degrees offered within the Faculty of Engineering Technology and Science. Emphasis is on innovation and the application of scientific and technical knowledge to solve human problems.

### Program Goals

1. Develop a firm understanding of the fundamental principles and application of Physics, Mathematics, and Chemistry.
2. Ability to apply basic statistics, calculus, differential equations, and linear techniques
3. Ability to identify, analyze, and solve applied science problems.
4. Develop the students' ability to communicate and work in teams

## Faculty and Academic Staff

### Al Ain Men's

**Eyad Adnan**, Masters Mathematics, University of Karachi, Pakistan

**Ghassan Malkawi**, PhD Mathematics, Universiti Utara Malaysia

**Riyad Hussein**, PhD Physics, University of Strathclyde, UK

### Al Ain Women's

**Haroun Barghouthy**, Masters Physics, University of Jordan, Jordan

**Philippe Poulin**, PhD Mathematics, McGill University, Canada

### Abu Dhabi Men's

**Abdel-Razzaq Mugdadi**, PhD Mathematical Sciences, Northern Illinois University, USA

**Ali Abu-Nada**, PhD, Applied Physics, Southern Illinois University Carbondale, USA

**Elmi Elias**, Master of Chemistry, University of Kerala, India

**Hyun Yeun**, PhD Mathematics, University of Sheffield, UK

**Jamal Fakih**, Master of Science Civil Engineering, University of Toledo, USA

**Kattayat Sandhya**, Masters Physics, University Of Calicut, India

**Manuel Eusebio**, PhD Science Education (Mathematics), De la Salle University, Philippines

**Mohamed Ghazzali**, PhD Chemistry, Chalmers University of Tech, Sweden

**Nabila Azzam**, PhD Mathematics, University of Manchester, UK

**Osman Elawad**, PhD Science-Material Physics, University of Claude Bernard, France

**Renuka Seenivasan**, PhD Physics, Bharathidasan University, India

**Roque Batulan**, PhD Mathematics Education, Centro Escolar University, Philippines

**Varna Shriyan**, Master of Radiation Physics, Mangalore University, India

**Waleed Abuelela**, PhD Mathematics, University of Birmingham, UK

### Abu Dhabi Women's

**Ala Alzaalig**, PhD Mathematics Science, Michigan Technological University, USA.

**Khaled Manasrah**, PhD Mathematics, Southern Illinois University, USA

**Madduma Arachchige Helanka Jayani Perera**, PhD Chemistry, Oklahoma State University, USA

**Marianne Tarun**, PhD Materials Science and Engineering, Washington State University, USA

**Samaila Waje**, PhD Physics, Universiti Putra, Malaysia

### Dubai Men's

**El-Sayed Ghaith**, PhD Materials Science and Engineering, Nagoya Institute of Technology, Nagoya, Japan.

**Ghada Ali**, Masters Information Technology, University of Southern Queensland, Australia

**Gomathy Krishnan**, Masters Physics, Madurai Kamaraj University, India

**Mamoon Ahmed**, PhD Mathematics, The University of Newcastle, Australia.

**Michael Siomau**, Ph.D in Physics from RuprechtKarl Univ of Heidelberg, Germany.

**Mohammad Yasein**, PhD Mathematics, New Mexico State University, USA.

**Neha Gupta**, Masters Physics, Guru Nanak Dev University, India

**Osama Abdelbagi**, Masters Energy, Heriot Watt University, UK

**Salti Samarah**, PhD Mathematics, University of Connecticut, USA

### Dubai Women's

**Amjad Lone**, Ph.D Mathematics (Probability Theory), University of Florida, USA

**Yassine Benachour**, PhD in Physics from University of Paris-Sud.

### Fujairah Men's

**Jinendrika Anushi Weliwita**, PhD Mathematics, University of Leeds, UK

**Mohammad Mahmoud Salem Al Masalmeh**, Masters Mathematics, Jordan Univ.for Science &Tech., Jordan

**Raheema Muhammad Aslam**, PhD Physics, University of Navarra, Spain

**Zahid Shareef**, PhD Mathematics, University Kebangsaan, Malaysia

### **Fujairah Women's**

**Jess Claire Sanchez**, Masters of Science Applied Mathematics, University of South Eastern Philippines, Philippines

**Roy Forrest**, PhD Physics, University of Surrey, UK

### **Ras Al Khaimah Men's**

**Nathir Al-Rawashdeh**, PhD Chemistry, Georgetown University, USA

**Rami Alahmad**, PhD Applied Mathematics, The University of Alabama at Birmingham, USA

**Ziad Rafhi**, Masters Statistics, Business and Computer University, Lebanon

### **Ras Al Khaimah Women's**

**Ahmad Abdelhadi**, PhD Physics, Clemson University, USA

**Douglas Daniels**, Masters Mathematics, University of Mississippi, USA

### **Sharjah Men's**

**Abdelghani Taouti**, Masters Telecommunication Engineering, Victoria University, Australia

**Hicham Itani**, Masters Applied Mathematics, Southern Methodist University, USA

**Leesal Iype**, PhD Physics, Mahatma Gandhi University, India

**Suhas Poyyilveetil**, PhD Physics, Indian Institute of Technology, Madras, India

### **Sharjah Women's**

**Amer Al-Jarrah**, PhD Applied Radiation Physics, University Sains Malaysia, Malaysia

**Azar Salami**, PhD Mathematics, Laval University, Canada

**Ihab Abdelwahed**, Masters Mathematical Science, Tennessee State University, USA

**Mohammad Afzaal**, PhD Chemistry, The University of Manchester, UK

**Seema Karkain**, PhD Chemistry, University of South Florida, USA

**Smitha Josey**, Masters Physics, Mahatma Gandhi University, India

**Suhaila Alhosany**, Master of Science Mathematics, Southern University, Baton Rouge, USA

**Tamar Krikorian**, Masters Applied Mathematics, Ryerson University, Canada

### **Western Region Colleges**

**Fawaz Hrahsheh**, PhD Physics, Missouri University of Science and Technology, USA

**Gratchia Mkrttchian**, PhD Applied Science, G. S Petrov Plastics Institute, Russia

**Moaz Altarawneh**, PHD Physics, Florida state University, USA

**Safwan Jaradat**, PhD Nuclear Engineering, Missouri University of Science and Technology, USA