



Dr. Muflih Alhazmi

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Education

Doctorate University of Sussex	2018
Master's University of Sussex	2013
Bachelor of Mathematics Northern Border University	2002
Academic Leadership Diploma King Abdulaziz University	2021

Work experience

Vice Dean of the College of Science for Academic Affairs Northern Border University	2021 - Present
Head of the mathematics department Northern Border University	2018 - 2021
Teaching postgraduate courses Northern Border University	2018 - 2019

Scientifics Research

Micromachines 2022

Numerical Study of Heat Transfer Enhancement within Confined Shell and Tube Latent Heat Thermal Storage Microsystem Using Hexagonal PCMs

International Journal of Analysis and Applications 2022

Differential Equations Models and Their Applications in Metallurgy

Journal of Energy Storage 2022

A numerical investigation of a heat transfer augmentation finned pear-shaped thermal energy storage system with nano-enhanced phase change materials.

International Communications in Heat and Mass Transfer

Impacts of the rotation and various thermal conditions of cylinders within lid-driven enclosures filled with glass balls in the presence of radiation: FEM simulation

International Journal of Numerical Methods for Heat

MHD Convective Process Due to Rotation of Cylinders and Movement of a Wavy Wall of Two-Sided Wavy Enclosures with Radiation

Alexandria Engineering Journal

Non-homogenous nanofluid model for 3D convective flow in enclosures filled with hydrodynamically and thermally heterogeneous porous media

Results in Physics Scopus Coverage Years: From 2011 to Present

Numerical Solution and Dynamical Behaviors for Solving Fractional Nonlinear Rubella Ailment Disease Model

Applied Sciences

Entropy Generation and MHD Convection within an Inclined Trapezoidal Heated by Triangular Fin and Filled by a Variable Porous Media

International Journal of Advanced Computer Science and Applications

Exploring Mechanisms for Pattern Formation through Coupled Bulk-Surface PDEs in Case of Non-linear Reactions

Awards and Honors

A congratulatory letter from His Excellency the Dean of the Deanship of Scientific Research, dated 2021, as one of the northernmost sites published in the University of the Borders in the database (SCOPUS)

A letter of thanks and appreciation from His Excellency the Dean of the College of Science in appreciation of the symposium of the First Mathematics Department for the academic year 2019-2020 , entitled "Electronic Education: Science by the Pen".

Five (5) scientific and research excellence awards from Northern Border University for publishing (5) scientific papers

A letter of congratulation from His Excellency the Northern Border University Vice Dean for Graduate Studies and Scientific Research regarding the approval of granting me the Excellence Award for the research submitted

Scientific conferences and Symposia

- The virtue of the compactness property - NBU
- Saudi Ninth Conference - Birmingham
- British applied mathematics colloquium BAMC - Oxford
- Modelling, numerical analysis and applications - Cambridge
- On the Weinstein-Wigner transform and localization operators
- On the windowed Fourier transform related to the spherical mean operator
- Arar's methods for the resolution of real algebraic equations

- Strategic planning: an overview
- Performance management
- An overview of the strategic plan for research and innovation of Northern Border University
- Arabs and Mathematics
- Mathematics in our life

Administrative tasks and committee membership

- Student Affairs Officer at the College of Science
- Member of the subject file committee in the College of Science
- Mathematics department board
- College of Science Council
- Head of the Mathematics Department at Northern Border University
- Chairman of the Committee for the Preparation and Follow-up of the Operational Plan for the Mathematics Department
- Member of the Academic Affairs Committee at the College of Science
- Member of the Student Excuses Committee at the College of Science
- Member of the College of Science's restructuring committee
- Member of the Academic Programs Restructuring Committee at Northern Border University
- Member of the committee to set proposed controls and provisions related to the ethics of scientific research at the Northern Border University
- Member of the Crisis Management Committee at the Faculty of Science
- Member of the Organizing Committee of Conferences and Seminars at Northern Border University
- Vice Dean of the College of Science for Academic Affairs
- Secretary of the College of Science Council
- Head of the Student Advisory Council for the Mathematics Program (male - female)
- Chairman of the Crisis and Emergency Management Committee at the College of Science
- Member of the Coordinating Committee for the first year of health colleges
- Member of the Admission and Registration Committee at Northern Border University
- Head of a committee to study student excuses at the College of Science
- Chairman of the Committee for the Preparation of the Organizational Structure of the College of Science
- Head of the Academic Support Unit at the College of Science
- Head of the Student Disciplinary Committee at the College of Science
- Member of the Standing Committee on Academic Systems and Plans at the University
- Member of the Standing Committee for Admission and Registration
- Member of the permanent committee for laboratories and laboratories and their equipment at the university
- Head of the restructuring secretariat of the College of Science Council
- Member of the Quality Supervisory Committee at the College of Science
- Member of the Executive Committee of the Programs for Optimal Investment of Educational Cadres at the University - one of the Teacher Preparation Programs
- Head of a committee to inventory all the college needs

Courses and seminars

- Personal Strategy and Productivity
- Quality Management and Development in Higher Education
- Academic Leadership in Saudi Universities: Challenges and Opportunities
- Problem Solving and Decision Making
- Conflict Management eithin Academic Environment
- Leading and Empowering team Members
- Report and description of the "course, program, field field"
- Basics of scientific research
- Institutional development expert
- Academic Leader Program
- Building standardized tests at the end of the Exit Exam program and applying them at Northern Border University
- Preparing new faculty members
- Performance indicators, benchmarking, and preparing a corporate CV report
- Practical workshop entitled Change Management
- Special Training Program Description and Report "Course - Program - Field Experience"
- Academic Advising