

Bio-Data

Name: *Fathia Mohammed Ali Al Samman*

Assistant Professor

Mathematics Department,

Northern Boarder University, KSA.

▪ Personal data:

Gender:	Female
Nationality:	Yemeni
Religion:	Muslim.
Language:	Arabic And English.
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▪ Qualification

B.Ed. Mathematics	Department of Mathematics, Faculty of Education, SANAA University, YEMEN.
M.Sc. Mathematics	Department of Mathematics, Faculty of Science, University of PUNE, INDIA.
Ph.D. Mathematics (Applied Mathematics-Fluid Mechanics-Heat and Mass Transfer),	Department of Mathematics, Faculty of Science, University of PUNE, INDIA.

▪ Scientific data

General specialty	Mathematics
Specialization	(Applied Mathematics) - Fluid Mechanics (Numerical Analysis)
PhD thesis title	Some free convection problems in fluid mechanics

▪ **Training courses & Workshops:**

2003	Workshop in Latex and free Mathematical software. Pune 9 th to 14 th June 2003. INDIA
2008	Mastery Project “Training and Development Program for the preparation of Science and Mathematics Subject Methodology Courses 18–29 August 2008 AMSTERDAM.
2008	Workshop in Quality Assurance in Higher Education(1) 16-18 Nov 2008 Center of International cooperation (CIS) Vrije Universities AMSTERDAM NETHERLAND HOLLAND
2009	Workshop in Problem Solving Course Training and Development 16-20 May 2009. Mastery Project.
2009	Workshop in Quality Assurance in Higher Education (2) 20-21 July 2009. Mastery Project. Many Workshop in Preparing Course Manual and Course Description. Mastery Project.
2012	A course on the necessary capabilities for faculty members to describe programs and courses in light of quality, Northern Border University, Saudi Arabia
2014	Quality Weeks course in Yemeni universities
2018	Academic guidance course for faculty members at Northern Border University, Saudi Arabia
2018	Electronic exam design course on the Blackboard system, Northern Border University, Saudi Arabia
2018	Designing electronic tests on the Blackboard system.
2019	Training program for description and course report - program - field experience at Northern Border University, Saudi Arabia
2019	Key performance indicator, benchmarking and elaborating an institutional self study report
2019	Designing and measuring the program learning outcomes in accordance with the Saudi qualification framework
2019	Writing and designing the program/ the course / the field trainings’ specifications and reports
2021	Training program for characterization and course report - program - field experience.
2021	Academic advising course for faculty members.
2021	Practical application of best practices in writing the course report
2021	Training on the electronic transaction system "Barq"
2021	Define and measure learning outcomes.
2022	Web of Science, its components, databases and journals with impact factor IF.

2022	Scientific references and their electronic indexing in scientific papers using Mendley programming.
2022	Formulate learning outcomes for academic programs and measure them
2022	Scientific research ethics.
2022	Fundamentals of the International Classification of Refereed Scientific Journals.
2022	Characteristics of graduates of academic programs (measurement design)
2022	Using modern teaching strategies
2022	Use the Assign Safe investigation tool (Blackboard) To promote originality in assignments and research submitted by students

▪ **Department committee membership:**

2022-2024	Academic Advising Committee
2022-2024	Member of the Laboratories Committee
2023	Systems and Plans Committee
2020-2022	Member of the Quality Committee
2020-2022	Member of the scientific committee

▪ **Scientific production (published):**

Title	Publication data		
	Date	Publisher name	Vol No.
1) Effects of stratification on transient natural convection from an isothermal semi-infinite vertical plate embedded in a porous medium'	2004	<i>Bull. Cal. Math</i>	Vol. 96, (1), pp. 51-64.
2) Effects of mass transfer on the transient free convection flow of a dissipative fluid along a semi-infinite vertical plate with constant heat flux	2003	<i>Int. J. Heat Mass Transfer</i>	Vol. 46, pp. 999-1011.
3) Transient free convection flow of a viscous dissipative fluid with mass transfer past a semi-infinite vertical plate	2002	<i>Indian Journal of Engineering and Materials Sciences</i>	Vol. 9, pp. 49-57.
4) Neural intelligent approach for heat transfer applications of trihybrid Cross bio-nanofluid over wedge geometry	2024	Modern Physics Letters B	2450439 (28 pages)

5) Influence of Baffle Size and Position on Natural Convective Heat Transport in a Skewed Cavity by Finite Element Method	2024	Modern Physics Letters B	2450490 (22 pages)
6) An Optimal Estimation Approach in Stratified Random Sampling Utilizing Two Auxiliary Attributes with application in agricultural, demography, finance, and education sectors	2024	Heliyon	Volume: 10 Issue: 17