Raed Ali Ahmed Alkhasawneh

Assistant Professor

Personal Data

Nationality | Jordanian

Date of Birth |3/12/1971

Department | General Courses

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Office Phone No. | 32152

Language Proficiency

Language	Read	Write	Speak
Arabic	Excellent	excellent	excellent
English	Excellent	Very good	Very good
Others			

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2007	PhD	University Putra of Malaysia	Malaysia
2002	Master	University Putra of Malaysia	Malaysia
1994	Bachelor	Al-Yarmouk University	Jordan

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	*RUNGE-KUTTA METHODS FOR SOLVING ORDINARY AND DELAY DIFFERENTIAL EQUATIONS*
Master	*SOLVING DELAY DIFFERENTIAL EQUATIONS BY RUNGE-KUTTA METHOD USING DIFFERENT TYPES OF INTERPOLATION*
Fellowship	

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work		Date
Assistant Professor	Dammam University	KSA	2/3/2009 – until Now
Assistant Professor	Al-Zarqa University	Jordan	1/10/2007 – 1/3/2009

Scientific Achievements

Published Refereed Scientific Researches
(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Fudziah Ismail, Raed Alkhasawneh & Mohmmad Suleiman	*Embedded Pair of Diagonally Implicit Runge-Kutta Method for Solving Ordinary Differential Equations*	SAINS MALAYSIANA 2010
2	Raed Alkhasawneh, Fudziah Ismail & Mohammad Suleiman	*Embedded diagonally implicit Runge–Kutta–Nystrom 4(3) pair for solving special second-order IVPs*	Applied Mathematics & Computation 2007
3	Fudziah Ismail, Raed Alkhasawneh & Mohmmad Suleiman	*mbedded Singly Diagonally Implicit Runge-Kutta-Nystrom General Method (3,4) in (4,5) for Solving Second Order IVPs*	IAENG International Journal of Applied Mathematic 2007
4	Fudziah Ismail & Raed Alkhasawneh	*Solving delay differential equations using embedded singly diagonally implicit Runge-Kutta methods*	Journal of Acta Mathematica Vietnamica 2007
5	Fudziah Ismail, Raed Alkhasawneh & Mohmmad Suleiman	*Comparison of interpolation used in solving Delay Differential Equation by Runge-Kutta method*	Int. Comput. Math. 2003
6	*Numerical Treatment of Delay Differential Equations by Runge-Kutta method using Hermite Interpolation*	*Numerical Treatment of Delay Differential Equations by Runge-Kutta method using Hermite Interpolation*	MATHEMATIKA 2002

Refereed Scientific Research Papers Accepted for Publication

#	Name of Investigator(s)	Research Title	Journal	Acceptance Date
	Dr. Zeyad Alzhour Dr. Raed Alkhasawneh	*The General Solutions of Fractional Time-Varying Descriptor Systems with Variable Coefficients*	*FILOMAT*	2016

Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
	Dr. Raed Alkhasawneh Dr. Motasem Alsomadi Dr. Firas Haddad	*3D Facial Recognition Using Combined Radial Curves with Automatic Local Geometrical Features for Pose, Occlusions and Expression Variations*	10/1/2014

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
	The First International Conference on Mathematics and Statistics (ICoMS-1),	Malaysia, *June 19-21, 2006*	Participant
	The 2nd IMT-GT 2006 Regional Conference on Mathematics, Statistics and Applications	Malaysia, *June 13-15, 2006*	Participant
	International Conference on Research and Education in Mathematics	Malaysia, *2nd – 4th April 2003*	Participant

Membership of Scientific and Professional Societies and Organizations

- *Editorial abroad in the International Journal of Open Problems in Mathematics and Applications. http://ijopma.yolasite.com/*

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Principle of Mathematics	MATH 110	Lectures
2	Mathematics for Business	MATH 120	Lectures
3	Principle f Statistics	STAT 101	Lectures
4	Statistics for Business	STAT 103	Lectures
5	Insurance	FIN 361	Lectures
6	Numerical Analysis	MATH 411	Lectures
7	Discrete Mathematics	MATH 301	Lectures

Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

1	**Principle of Mathematics (MATH 110):** This course is designed to provide students with a basic understanding of mathematics. The course covers the mathematical principles concepts such as groups and intervals. Algebraic operations, signals rule, roots, logarithms, algebraic factoring and relative fractions are also covered by this course. Solving equations of first and second order, inequalities, sequences (geometric and arithmetic), matrices, determinates and economic applications are introduced.
2	**Mathematics for Business (MATH 120):** This course is designed to give students expanded knowledge of mathematic applications for personal use and business applications. It also aims to deepen students' abilities to solve problems and economic problems mathematically and overcome them by learning the concept of functions and types and the related topics to functions such as limits and continuity in addition to differentiation and integration, Finally the application of functions on some economic issues can help the students to acquire the skill and the ability to recruit mathematics in their field of study.

3	**Principle f Statistics (STAT 101):** This course is designed to provide students with a basic understanding of statistics. The course covers of descriptive statistics with concepts of dispersion, central tendency measurements. Graphical and tabular displays are also covered. Simple linear regression and correlations are also covered. Understanding concept of index price number and analysing the time series and their components are introduced.
4	**Statistics for Business (STAT 103):** This course focus on the second part of the knowledge of statistics, which is Applied Statistics, it contains basic and selected topics that meet the needs of the students in all the various disciplines of the College (linking the process of life in several topics related to several areas such as marketing and banks …. etc. with the concepts of Applied Statistics), in order to deepen the students' abilities to solve some of the issues and economic problems statistically and overcome by learning the concept of probability theory and the related topics to this theory such as probability distributions, sampling distribution, confidence intervals types and test hypotheses, and promote methods of statistical analysis using the software of SPSS in some subjects, including help student to acquire the skill and ability to analyze more easily and faster and more accurate..
5	**Insurance (FIN 361):** This course explores the principles of risk management and insurance. The course provides an understanding of the foundations, applications and selection of insurance. Fundamentals of life and health insurance as well as property and liability insurance will be included. Enterprise risk management for corporations, financial risk management, overview of employee benefits, and strategic policies to mitigate risk will also be covered.
6	**Numerical Analysis (MATH 411):** Numerical analysis is concerned with finding numerical solutions to problems that analytical solutions do not exist or are not readily obtainable. This course provides an introduction to the subject and treats the topics of solving nonlinear equations in one variable, interpolation and approximation of functions by simpler computational building blocks, numerical differentiation and divided differences, numerical integration, numerical solutions of ordinary differential equations and boundary value problems, and direct methods for solving linear systems. These topics are of great practical importance in science, engineering, and also have intrinsic mathematical interest.
7	**Discrete Mathematics (MATH 301):** Propositional logic, logical equivalence, Quantifiers; Sets; vector and matrices; Relations, Equivalence Relations, Partial Ordering Relations; Functions, Sequences, Indexed Classes of Sets, Recurrence Relations, Recursively defined functions, Mathematical induction; Properties of integers; Basic counting techniques, Binomial coefficients and Pascal triangle, Pigeonhole Principle; Graph theory, Tree graphs, Directed graphs; Binary trees; Boolean Algebra are introduced.

Administrative Responsibilities, Committee and Community Service
(Beginning with the most recent)

Administrative Responsibilities

#	From	To	Position	Organization
1	01/9/2012	01/1/2013	Head of Quantitative Methods and Mathematics Department	University of Dammam

Committee Membership

#	From	To	Position	Organization
1	2/11/2013	current	*Chairman of the Evaluation Committee*	University of Dammam
2	1/1/2011	10/11/2012	Head of Cultural and Social Commission	University of Dammam
	1/1/2011	10/11/2012	Member of the courses table	University of Dammam

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	*All latest Windows and MSOffice applications*
2	*Maple and Latex software's*

Last Update

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