

Curriculum-vitae

Dr – Ghada Awad Elkarim

Personal Data:

Name: Ghada Awa Elkarim Mohammed Ahmed Ahmed

Nationality : Sudanese

Birth Date : 15-11-1971

Religion : Muslim.

Language : Arabic, English

Material status : Married-

Current Address : Al-Baha university –faculty of science – mathematics department

E-mail: ghada.ahmed832@yahoo.com

Occupation:

- Assistance professor of applied mathematics-faculty of science –Al-Baha University
- Assistant Professor of Applied mathematics -Alneelain University mathematics department
- Assistant Professor of Applied mathematics-university of medical science and technology-faculty of computer science and information technology

Qualification:

1. **PhD.** in Applied mathematics(modeling and computational mathematics) Alneelain university 2/1/2011
2. **M.Sc.** (industrial and computational mathematics)-Khartoum University 2007.
3. **B.Sc.** in mathematics- faculty of science- Alneelain University -with Grade Excellent with honour 1993

Professional experience:

- 1) Assistance professor mathematics department faculty of science –Albaha University K.S.A
- 2) Assistance professor mathematics department faculty of computer science and information technology - university of medical science and tecnologia-2010-2012
- 3) Assistance Professor in mathematics department - Alneelain University 2010-2012
- 4) Lecture: mathematics department faculty of computer science and information technology- University of medical science and tecnologia2007-2010

5) Lecturer: mathematics department- faculty of Mathematical science and statistic Alneelain University 2007-2010

6) Teaching assistant: department of mathematics- Yanbu – Education College
K.S.A. 1996 - 2005

7) Teaching assistant: department of mathematics, faculty of science
Alneelain university 1993-1996

Teaching experience:

Under graduate

1) Teaching calculus1, calculus2 ,calculus3 for mathematics students

2) Teaching calculus1, calculus2 for science students

3) Teaching calculus1, calculus2 for computer science and IT students

4) Teaching ordinary and partial differential equations for mathematics students and science, computer science and IT students

5)Teaching function of several variables ,Approximation of functions ,fluid mechanics ,Quantum mechanics ,special functions ,numerical method mathematical method optimization ,programing and modeling using matlab complex Analysis , linear Algebra and any courses related to my study for mathematics students.

Post graduate:

1) Supervisor and CO-Supervisor for M.Sc. and Diploma students at applied mathematics field at Alneelain uneveristy from 2011 up to now.

2) Teaching matlab and the application of the following courses

i) Optimization ii) finite difference method iii) fluid mechanics for M.Sc. Of industrial and computational mathematics students 2009-2011

3) Teaching partial differential equation to M.Sc. of statistic students – Alneelain uneversity 2011-2012

Supervision (B.Sc. students)

1) Computational mathematics Alneelain university 2010-2012

2) Ordinary and partial differential equations Alneelain university 2010-2012

3) Fluid mechanics Alneelain university 2010-2012

4) Mathematical method Alneelain university 2010-2012

5) Numerical methods Alneelain university 2010-2012.

6) Calculus2 and calculus3 Alneelain university 2010-2012.

7) Special functions Alneelain university 2010-2012.

8) Special function –numerical methods- partial differential equations from 2010 up to now - Albaha university

Internal Examiner to graduate projects in Alneelain University

Publications:

- 1) On the fractional-order glucose–insulin interaction
- 2) Mathematical Modelling and optimal control of pneumonia disease in sheep and goats in Al-Baha region with cost-effective strategies

AIMS MATHEMATICS–April 2022

3) Application on Non Linear Waves Traffic Flow

4) *Sensitivity analysis of a fractional order model of pneumonia disease in sheep and goats in Al-Baha region of the Kingdom of Saudi Arabia*

5) Ghada. And M.A. JUBARA -Traffic flow waves (2009)

6) Ghada. And M.A. JUBARA flood waves 2010

conferences:

3) First conference – Graduate College –Alneelain university 2009

4) Second conference –Graduate College –Alneelain University 2010

5) Work shop –computational of mathematics –Khartoum University and university of medical science and technology August 2010

6) Work shop talented students-Riyadh- K.S.A 2013

7) Member of school of Modeling and simulation –Khartoum university-Sudan

الاعمال الاداريه:

منسقة وحدة الجودة قسم الرياضيات من 1437 الى الان

منسقة قسم الرياضيات 1437-1435

منسقة ماجستير الرياضيات 1437-1435

رئيس شعبة الرياضيات جامعة العلوم الطبية والتكنولوجيا-السودان 2012-2009

عضو لجان تحكيم موهبة

1- مسار الابتكار 1433

2-مسار البحث العلمي 1434