University of Tripoli

Faculty of Engineering

Mechanical and Industrial Department

Name: Tarek Kh. S. Aburuga

Sir Name: Aburuga

Nationality: Libyan

Date of Birth: November 28/1972

Place of Birth: Tripoli

Marital Status: Married

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Education

PhD in Mechanical Engineering Faculty. University of Belgrade Serbia 2013

MSc in Mechanical and Industrial Department University of Tripoli 2005

BSc in Mechanical and Industrial Department university of Tripoli 1995

Teaching & Research interests

Undergraduate Level

- Mathematics.
- Mechanics (Statics).
- Mechanics (Dynamics).
- Introduction to Properties of Materials.
- Programming.
- Introduction Numerical Methods.
- Introduction Finite Element Methods.
- Strength of Materials.
- Solid Mechanics.
- Mechanics of machines.
- Machine Design.
- Mechanical Vibrations.

- Fracture Mechanics.
- Mechanics of Composite Materials.
- Automatic Control.

Postgraduate Level

- Advanced Mathematics.
- Advanced Numerical Methods.
- Advanced Finite Element Methods
- Simulations of manufacturing Process.
- Model Analysis.
- Theory of Elasticity.

Experience

- Researcher assistant in Electronic research Center, Tripoli-Libya (1996-2000)
- Researcher assistant in Electronic research Center, Tripoli-Libya (2000-2003)
- Head of Composite Material Department in Electronic research Center (2003-2005)
- Lecturer Assistant in Mechanical and Industrial Department university of Tripoli (2005-to 2013).
- Lecturer in Mechanical and Industrial Department university of Tripoli (20013 up to present).
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- Part time teaching in Mechanical Engineering Department in Jafara University (2005-2008).
- Part time teaching in Mechanical Engineering Department in Jafara University (2014-2015).
- Project Management (with Microsoft Project) . International Energy Center Tripoli-Libya (2010).

Training Courses

AUTOCAD Two and Three Dimensions (1996).

PROENGINEER (1997).

Finite Element Analysis (Nastran), Belgrade-Serbia (2001).

Composite Materials Course, Tehran-Iran (2004).

Skills

- Good in English Language.
- Microsoft Word.
- Microsoft Excel.
- Microsoft PowerPoint
- Microsoft Project.
- FORTRAN.
- MATLAB.
- AUTOCAD.
- ABAQUS.
- NASTRAN.
- ANSYS.

Conferences and Seminars:

- Galarkin Finite Element Analysis for Anisotropic Plate (2004).
- The Effect of H-Convergence and P-Convergence on The Accuracy Solutions For Different Types Of Rectangular Elements For Plate Bending Problems (2005).
- Stress Concentration Factors for Simply Supported Rectangular Orthotropic Plate (2006).
- Measurement of Local Tensile Properties of Welded Joint Using Digital Image Correlation Method (2011).