



GERGES EDWAR MEHANNY BESHAY

LECTURER

Mechanical Engineering Dept. – Shoubra Faculty of Engineering – Benha University – Egypt

Personal Data

Birth	04/12/1981
Nationality	Egyptian
Marital Status	Married
Military Status	Exempted
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Language Skills	English: 533 paper-based TOEFL score
Computer Skills	OS: Microsoft Windows Office: (Word / Excel / Power Point / Access) CAD: (AutoCAD / Inventor / SolidWorks) Numerical: (MATLAB / ANSYS / Femap / Abaqus) Programing: Visual Basic Control: CNC

EDUCATION

Degree	Institution	Year
B.Sc. Mechanical Eng.	Shoubra Faculty of Engineering – Benha University	2004
M.Sc. Mechanical Eng.	Shoubra Faculty of Engineering – Benha University	2010
Ph.D. Mechanical Eng.	Shoubra Faculty of Engineering – Benha University	2016

DISSERTATIONS

Degree	Title
B.Sc.	Parameters Affecting LASER Cutting
M.Sc.	Mechanical and Tribological Characteristics of Epoxy-Based Polymeric Matrix Composites Reinforced with Various Ceramic Particulates
Ph.D.	Structural Dynamic Optimization of Wind Turbine Blades Using Material Grading Concept

EMPLOYMENT

Job	Organization	Year
Production Engineer	Egyptian Solar Energy Systems Company	2004-2005
Design Engineer	Al-Farid Pumps Company	Part-Time
Design Engineer	Segma Egypt and HEIC (99 Factory)	Part-Time
Demonstrator	Shoubra Faculty of Engineering – Benha University	2005-2011
Assistant Lecturer	Shoubra Faculty of Engineering – Benha University	2011-2016
Lecturer	Shoubra Faculty of Engineering – Benha University	2016 till now

PUBLICATIONS

Title	Journal	Year
Dynamic Optimization of Thin-walled Composite Blades of Wind Turbines	World Applied Sciences	2015

TRAINING

Course	Institution	Year
Using Computers and Files Management	Benha University	2008
Web Publishing Using Front Page	Benha University	2008
Microsoft Word Processing	Benha University	2008
Concepts of IT	Benha University	2008
Effective Presentation	Benha University	2009
Time Management and Meetings	Benha University	2010
Using Technology in Teaching	Benha University	2011
Preparation of Academic Teacher	Benha University	2014
University Management	Benha University	2014
Self-Evaluation and External Reviewing	Benha University	2014
International Publishing of Scientific Research	Benha University	2014
University Code of Ethics	Benha University	2014
Advanced Microsoft Word Processing	Benha University	2014
Advanced Microsoft Power-Point Processing	Benha University	2014
Management of Websites	Benha University	2015

TEACHING

Course	Institution
Engineering Drawing	Shoubra Faculty of Engineering
Production Technology and Workshops	Shoubra Faculty of Engineering
Engineering Mechanics and Theory of Machines	Shoubra Faculty of Engineering
Stress Analysis	Shoubra Faculty of Engineering
Strength of Materials and Testing	Shoubra Faculty of Engineering
Mechanics of Fracture and Fatigue	Shoubra Faculty of Engineering
Material Design	Shoubra Faculty of Engineering
Design of Machining and Forming Machine Tools	Shoubra Faculty of Engineering
Computer Aided Mechanical Drawing	Shoubra Faculty of Engineering
Industrial Materials	Shoubra Faculty of Engineering
Material Science and Metallurgy	Shoubra Faculty of Engineering
Manufacturing Engineering	Shoubra Faculty of Engineering
Mechanical Vibrations	Shoubra Faculty of Engineering
Faults Diagnostics Using Vibrations	Shoubra Faculty of Engineering
Automatic Control and System Dynamics	Shoubra Faculty of Engineering
Computer Aided Design and Manufacturing CAD/CAM	Shoubra Faculty of Engineering
Solid Modeling and Rapid Prototyping	Shoubra Faculty of Engineering
Robotics and Flexible Manufacturing Systems	Shoubra Faculty of Engineering
Material Handling Systems	Shoubra Faculty of Engineering

AREAS OF INTEREST

Study and Analysis of Wind Turbine Systems
Study of Composite Materials Including Nano Particles and Fibers Reinforcements
Materials Science and Engineering
Design Optimization of Mechanical Structures Subject to Dynamic Loadings and Vibrations
Theory and Applications of Metal Cutting and Forming
Study and Development of Functionally Graded Materials
Materials Fracture Mechanics and Fatigue
Materials Strength and Testing
Tribological and Surface Treatments
Heat Treatments of Metallic Materials
Non-conventional Machining such as EDM, wire EDM, EBM, ECM, LBM, and WJC.
Solid Modeling and Rapid Prototyping
Powder Metallurgy