

Dr. Iyad Assaf

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CURRENT POSITION

Head of the Mechanical and Mechatronics Engineering Department, An- Najah National University, 2013-present

EDUCATION

- PhD. In Mechanical Engineering Design and Impact. The University of Manchester, UK, 2006. This has involved conducting both experiment and Finite Element (ABAQUS) investigations on the deformation mechanisms and energy absorption of laterally loaded plates.
- MSc. Mechanical Engineering Design, UMIST University, UK, 2000-2001
- BSc. Mechanical Engineering, Birzeit University, Palestine, 1992-1998

WORK EXPERIENCE

- Assistant Professor, Mechanical Engineering Department, An-Najah National University, Nablus, West Bank, Palestine. August 2007 - Present.
- Quality Assurance Committee Coordinator, Mechanical Engineering Department, An-Najah National University, Nablus, West Bank, Palestine. 2009 - Present.
- Mechanical and Mechatronics Engineering Department Exam Committee (member), An-Najah National University, Nablus, West Bank, Palestine. 2009 - Present.
- Mechanical and Mechatronics Advisory Board member. An-Najah National University, Nablus, West Bank, Palestine. August 2007 - Present.
- Vehicles inspection committee coordinator. A task from the An-Najah National University to inspect vehicle at Hisham Hijjawi Collage of Technology. 2010
- Machines receipt committee member. A task from the An-Najah National University to receipt machines to Hisham Hijjawi Collage of Technology Lab. 2010

ADDITIONAL CAREER EXPERIENCE - PART TIME

- Part time lecturer at An-Najah National University, Mechanical Engineering department. 2006, first, second and summer semesters.
- Assistant lecturer in Mechanical Engineering Department at University of Manchester for undergraduate first year students from the year 2002 to 2005 in the following:
 - Torsion lab
 - Coursework marking in Static and Dynamic subjects
- Assistant lecturer in Mechanical Engineering Department at University of Manchester for undergraduate third year students from the year 2002 to 2005. in Instrumentation and Measurement lab

- Assistant lecturer at Mechanical Engineering Department at University of Manchester for postgraduate (MSc) students from the year 2002 to 2005 in the following:
 - Plate penetration lab: includes experimental and Finite Element (ABAQUS) classes. For Finite Element Analyses laboratory, I prepared both model of the plate perforation experiment and a set of instructions for MSc students to carry out the lab exercise.
 - Behavior of a circular plate under Hydraulic pressure lab: Finite Element work (ABAQUS), prepared the model and set the instructions for the MSc students to carry out the lab exercise.
- Machine maintenance at Malhees company/west bank in 1997 (university summer training)
- Assistant lecturer at Mechanical Engineering Department Birzeit University for undergraduate second year students in the years 1996 in mechanical engineering drawing.

ACTIVITIES INSID THE UNIVERSITY

- Writing the Self Study Reports for the mechanical and Mechatronics Department (20010-2012)
- Re-reviewing and wording the two self study reports for the Mechanical and Mechatronics Department.
- Re-reviewing the learning outcomes for all the courses related to the Mechanical and Mechatronics Department and mapping them with the student's outcomes.
- Follow up the ABET centre for mapping the courses exams and mapping them with the ABET Outcomes.
- Attend all the meetings made by Dr. Adnan Nayfeh for ABET accreditation.
- Vehicles inspection to inspect vehicle at Hisham Hijjawi Collage of Technology. 2010
- Machines receipt committee member. A task from the An-Najah National University to receipt two turning machines and one milling machine at Hisham Hijjawi Collage of Technology. 2010

SOCIAL AND ORGANIZATIONAL SKILLS

- Course training for the mechanical Engineering student in Finite Element (ABAQUS/ CAE), 2008- 2010. An-Najah National University.

Conferences

- Palestinian Industry (reality and challenges). An-Najah National University 2012. attend without paper.

COMPUTER SKILLS

- Computers skills (Word, Excel, Power point)
- ABAQUS/Codes and ABAQUS/CAE software
- ANSYS software
- AutoCAD software
- MATHCAD software
- Pro/Engineer software

TRAINING & WORKSHOPS

- Smart Board Application workshop. Excellent learning Centre, An-Najah National University, 2013
- Four workshops for designing E-learning courses using Moodle. E-learning centre, An-Najah National University, 2012
- Learning for Solving Problems workshop, Excellent learning Centre , An-Najah National University, 2012
- Learning Related to Local Society. Excellent learning Centre , An-Najah National University, 2012
- Mind Mapping workshop. An-Najah National University, 2012
- Moodle software training workshop. E-learning centre, An-Najah National University, 2012
- Training courses for using Moodle Software for designing E-learning courses
- Courses Learning Outcomes Design workshop. Excellent learning Centre, An-Najah National University, 2012
- ABET workshops, Abet centre, An-Najah National University, 2009, 2010, 2012, 2013
- Graduate Personal Development Programme. Final year research students. UMIST, 2003
- Impact and Explosion engineering course. Department of mechanics, aerospace and manufacturing, UMIST. December, 2002.
- Finite Element Analyses (ABAQUS) course. UMIST, 2002
- Maintenance of vehicle motor course. Birzeit university, 1996

COURSES TAUGHT:

BACHELOR COURSES:

- Static
- Dynamic
- Engineering Workshop I
- Engineering Economy
- Operations Management
- Numerical Analysis
- Fluid Mechanics
- Machine Design I and II
- Manufacturing Processes
- Material Science
- Theory of Machine
- Welding and casting
- Hydraulic Machine
- Strength of Materials
- Undergraduate final year projects

E-Learning Courses

- Workshop I

- Manufacturing and operation processes
- Hydraulic Machines

MASTER LEVEL COURSES:

- Operations Management

Laboratories Supervisor

- Thermal Laboratories
- Heat Transfer Laboratories
- Mechanics of Machines and Vibration Laboratories
- Properties and Mechanics of Material Laboratories
- Engineering workshop Laboratories