**Dr. Iyad Assaf**

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**CURRENT POSITION**

Assistant Professor, Mechanical Engineering Department, An-Najah National University, Nablus, West Bank, Palestine. August 2007 - 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**

* Head of the Mechanical and Mechatronics Engineering Department, An- Najah National University, 2013-2016
* Supervisor the international institute of Mechanical Engineers (IMECHE) - An-Najah National University branch 2013-2018
* 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 - 2016.
* 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 Departments for the second visit of the ABET accreditation (2018-2019)
* Writing the annual year report for both Mechanical and Mechatronics departments (2013- present).
* Writing the continuous improvement each semester for both Mechanical and Mechatronic departments (2013-present).
* Supervisor all activities done by the IMECHE. An-Najah National University, 2013-2018
* Visit the mechanical and mechatronics local companies for making more scientific activities for the department students in the next year.2016
* Supervisor of the Mechanical and Mechatronics Engineering show I and II. Najah National University, 2015 and 2016
* Performed maintenance and repair all the department laboratories.2016, 2017,2018
* A committee coordinator for auditing exam of mechanics of materials course related to civel engineering department 2015.
* A committee coordinator for auditing exam of dynamics course related to mechanical engineering department 2019
* Writing the Self Study Reports for the mechanical and Mechatronics Departments (20010-2012).
* Re-reviewing and wording the two self study reports for the Mechanical and Mechatronics Departments.
* Re-reviewing the learning outcomes for all the courses related to the Mechanical and Mechatronics Departments 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**

* Supervisor all the activities done by the international institute of Mechanical Engineers - An-Najah National University branch that include scientific activities, work shop, lectures done by the local industries and None-curriculum activities. 2015-2018
* Work shop for how to write the undergraduate project and how to present it correctly including the report structures and the oral presentation, 2016. An-Najah National University.
* Supervisor of the workshop done about Darwin theory for six hours at Optical Collage, An-Najah National University. 2016
* Lectures in static course for the second year engineering students every day in the university break time during the fall semester, 2015, An-Najah National Univesity.
* Course training for the mechanical Engineering student in Finite Element (ABAQUS/ CAE), 2008- 2010. An-Najah National University.

**Conferences**

* Attend technical seminar about types of air conditions done by Sumsung company and top service mechanical contracting. Granpark, Ramallah, 2017.
* Attend conference on new trends in higher education. An-Najah National University.2016
* 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**

* Workshop for cooperation ways between Palestinian Poultry Co. and the Engineering faculty. An-Najah National University. 2017
* Work shop for how to write the undergraduate project and how to present it correctly including the report structures and the oral presentation, 2016
* Field visit to Napco company to support the relation between the local industry and the mechanical and mechatronics department, 2016
* 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