

**Aerospace Engineering**                      **Division:**  
**Level and Major: Bsc Aerospace Eng**

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**Course Title: Experimental Aerodynamics**    **Number of Credits: 3**                      **Prerequisite**  
**Lecturer: Dr. Mahmoud Mani**

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**Course Description:**

**Course Goals and Objectives:**

Getting familiar with methods in aerodynamic experiments, wind tunnel types, wind tunnel design, result reduction

**Course Topics:**

- Introduction
- Non-dimensional numbers
- Wind tunnel types and their use
- Wind tunnel design
- Measurement equipment
- Flow visualization
- Results reduction

**Reading Resources:**

- Pope, A “Low speed wind tunnel testing”

**Evaluation:**

Final exam: 100%