Mechanical Engineering Laboratory

MCG 4340

Teaching Staff:

Professors:

Arnaud Weck : CBY-A327, aweck@uottawa.ca
Davide Spinello : CBY-A612, dspinell@uottawa.ca
Matei Radulescu : CBY-A713, matei@uottawa.ca
Catherine Mavriplis : CBY-A331, Catherine.Mavriplis@uottawa.ca

Teaching assistants for this course are:

George Choueiri: CBY-B08-B, george@choueiri.com
Jason Van Dyke : CBY-B08-B, jvand017@uottawa.ca
Mansour Qadir : CBY-B203-F, mqadi098@uottawa.ca
Vijay Kumar Surabhi: CBY-B204, vijays_2050@yahoo.com
Usman Khan: CBY-B203-E, ukhan038@uottawa.ca

Emergency Information

The University emergency number is 562-5411 (or extension 5411 within the University). Do not call 911 for emergencies within the university.

The nearest first aid kits are: - for B206 - in the MCG secretariat on the second floor
- for D-05, D-06 and E-012 - in the MCG workshop E-012

Safety Rules

Know the location of the nearest exit, fire alarm, and extinguisher.
If it doesn't belong to you, don't touch it!
Any accident must be reported immediately to the teaching assistant or to Dr. A. Weck.

Course Outline and Organization

This course consists of nine laboratory experiments covering a number of different areas of mechanical engineering. Because of the interdisciplinary nature of the course, it is being "team taught", with three different professors responsible for experiments in (or close to) their areas of expertise. Following is a list of the experiments with the professors and teaching assistants responsible for each:

Experiment	**Room**	**Professor**	**TA**
1. Sound	B206	D. Spinello	U. Khan
2. Dynamic Balancing	B206	D. Spinello	J. Van Dyke
3. Pumps	B206	M. Radulescu	M. Qadir
4. Francis Turbine	D06	M. Radulescu	M. Qadir
5. Velocity Traverse	D06	A. Weck	V. Surabi
6. Design and Testing of a Strain-gauged Transducer	D05	D. Spinello	U. Khan
7. Boiling and Condensation	B206	M. Radulescu	J. Van Dyke
8. Design and Testing of a Structural Sandwich	D05	A. Weck	V. Surabi
9. Welding and Nondestructive Testing	E-012 (workshop)	A. Weck	G. Choueiri

The course is coordinated by Dr. A. Weck.

Grading Scheme

The mark for this course will be based on the following components:

- Seminars 5%
- Laboratory log book 20%
- Formal lab report (1) 20%
- Oral presentation (1) 20%
- Laboratory exam 35%