PHYSICS
Mechanical Engineering Technology
Engineering Physics II
203-944-DW (all sections)
Winter 2019

Teacher	Maria Dikeakos 7A.10, local 4009, mdikeakos@dawsoncollege.qc.ca Kibreab Haile 7B.21, local 4028, khaile@dawsoncollege.qc.ca
Pre-requisites	Engineering Physics I (203-943-DW)
Co-requisites	Engineering Mathematics II (201-942-DW)
Ponderation	2-3-2 (2 hours of lecture, 3 hours of labs, and 2 hours of work outside class per week)
Course objectives	This course is intended to introduce the student to the engineering approach to the solution of kinematics and dynamics problems.
Course competencies	This course will allow the student to partially achieve the competency: 012J: Analyze the internal and external forces exerted on a mechanical object 1. Analyze the external forces exerted on a structure or a mechanical object. 2. Analyze the strength of materials. 3. Analyze kinematic motion in assemblies and systemsies and systeo6 -11.98816 -11.98805.172 0 Td eyzetblies 1.

Literacy standards

It is expected that students will be able to comprehend the course material and express themselves appropriately as a normal part of their academic performance in the course. Marks may be deducted for inadequate communication skills.

Laboratory work

Experimentation is an essential part of science. Students will be expected to perform experiments and report on their results. Your teacher will provide you with instructions for lab experiments and activities (there is no manual to purchase). Students must be present during the entire lab activity to receive credit.

Student conduct

Everyone has the right to a safe and non-violent environment. Students are obliged to conduct themselves as stated in the Student Code of Conduct and in the ISEP section on the roles and responsibilities of students (ISEP section II-D). Disruptions or excessive noise will not be tolerated. Students who do not comply with these rules will be asked to leave the class and may be referred to Student's Services for disciplinary action. Mutual respect is the key to a harmonious learning environment.

Academic integrity

Cheating, copying, or any other form of academic dishonesty will not be tolerated. Students should acquaint themselves with the policy of the College on plagiarism and cheating. According to ISEP, the teacher is required to report to the Sector Dean all cases of cheating and plagiarism a ecting a student's grade (ISEP section V-C). The usual penalty for the rst instance of cheating will be a grade of zero for the piece of work in question to all parties involved (under certain circumstances, even a rst o ence may be penalized by failure in the course). A second o ence may result in the failure of the course. Students should note that using someone else's laboratory data without authorization from the student and the teacher is cheating.

Intensive course con icts

If a student is attending an intensive course, the student must inform the teacher, within the rst two weeks of class, of the speci c dates of any anticipated absences.

Policy on religious observance

Students who intend to observe religious holidays must inform their teachers, in writing, within the rst two weeks of the semester as prescribed in the ISEP Policy on Religious Observances. (ISEP, Section IV D). This includes any religious holidays that occur during the nal exam period. Please refer to the academic calendar for the exact dates. Forms for this purpose are available from your teacher. Your teacher will inform you of any modi cations to planned course activities resulting from the teacher's own religious commitments.

Course content

The material to be covered is contained in the following chapters and sections of the text.

Weeks	Topics	Chapter & Section
1{2	Kinematics of linear motion	Ch.10: 1{5
2{4	Kinematics of angular motion	Ch.11: 1{7
5{7	Plane motion	Ch.12: 1{3
8	Review	Ch.10{12
9{10	Force and inertia	Ch.13: 1{6
11{12	Work, energy and power	Ch.14: 1{9
13{14	Conservation of momentum	Ch.15: 1{3
15	Review	Ch.13{15