

Physics 101 Lecture Schedule - Winter 2018 (Term 172) : Revised 04Feb2018

Week	Date	Topics	Chapter	Sec	Useful Links
1	21 Jan. 23 25	Units, Changing units, Significant Figures Length, time, mass (powers of ten), Dimensional Analysis 1-D motion, Displacement, Velocity and acceleration	01 01 02	1 2,3 1-3	Sig. Figures 1
2	28 30 01 Feb.	Constant acceleration, Free fall, Graphical Integration Vectors and Their components. Adding Vectors Multiplying Vectors	02 03 03	4-6 1,2 3	Components 1 Adding 1
Thursday – 01Feb2018 -- Last day for dropping courses without permanent record					
3	04 06 08	2D & 3D motion with constant acceleration. Projectile motion, Uniform Circular Motion Relative Motion in 1 D and 2 D	04 04 04	1-3 4,5 6,7	Displacement 1 Projectile1,2 Circular 1, 2
4	11 13 15	Review Newton's laws Some particular forces	--- 05 05	--- 1 2	Gravity 1
5	18 20 22	Applying Newton's laws Friction Uniform Circular Motion	05 06 06	3 1 3	Ramp 1 Friction 1
First Major Exam (Chapters 1 – 6): 05Mar2018 (8:00PM – 10:00PM) in Building 54					
6	25 27 01 Mar.	Review Kinetic Energy and Work Work done by Weight and Spring - power	--- 07 07	--- 1-3 4-6	Circular 2, 3
Thursday- 01Mar2018 – Last day for dropping courses with grade of “W”					
7	04 06 08	Potential energy Conservation of Energy Review	08 08 ---	1 2,4,5 ---	Spring 1 Pendulum 1
8	11 13 15	Center of mass, Newton’s second law for a system of particles Linear momentum and impulse Conservation of Linear momentum, Kinetic Energy in Collisions	09 09 09	1,2 3,4 5,6	COM 1 Conservation 1
9	18 20 22	Collisions in 1-D and 2-D Rotational motion, Rotational Variables Kinetic Energy and Rotational Inertia	09 10 10	7,8 1-3 4,5	Collisions 1
Thursday, 29Mar2018: Last day for withdrawal from all courses with grade of "W"					
10	25 27 29	Torque and Work in Rotational Motion Review Rolling, Kinetic Energy of Rolling	10 --- 11	6-8 --- 1-3	Torque 1 Rolling 1
11	01 Apr. 03 05	Torque and Angular momentum Conservation of angular momentum Review	11 11 ---	4-6 7,8 ---	Ang. Mom. 1 Young's Modulus
Second Major Exam (Chapters 7 – 11): 09Apr2018 (6:00PM – 8:00PM) in Building 57					
12	08 10 12	Equilibrium, Examples of Static Equilibrium Elasticity Newton’s law of Gravitation	12 12 13	1,2 3 1-3	Shear Modulus 1
13	15 17 19	Gravitation Inside Earth, Gravitational-potential energy Kepler's laws, Satellites Fluids at Rest	13 13 14	4,5 6-7 1-3	Kepler 1
14	22 24 26	Pascal’s Principles, Archimedes Principle. The Continuity Equation, Bernoulli’s equation Oscillations, Simple Harmonic Motion (SHM), Energy in SHM	14 14 15	4,5 6,7 1,2	Buoyancy 1 Bernoulli 1
15	29 01 May 03	The Simple Pendulum, The Physical Pendulum Review Review	15 -- --	4 -- --	
Thursday – 26Apr2018: Last day for withdrawal from all courses with grade of WP/WF					
Final Exam (Chapters 1 – 15), Saturday, 05May2018 at 7:00PM					
<i>I Wish you a successful semester.</i>			<i>Dr. M. B. Haider (Physics 101- Coordinator)</i>		

PHYS101 Course Grading Policy

Assessment:

Grading Policy	%
Class Work	10
Lab Work	20
Major Exam I	20
Major Exam II	20
Final Exam	30
Total	100

Letter Grades Distribution	
$A^+ \geq 80$	$53 \leq C < 60$
$77 \leq A < 80$	$47 \leq D^+ < 53$
$73 \leq B^+ < 77$	$41 \leq D < 47$
$67 \leq B < 73$	$F < 41$
$60 \leq C^+ < 67$	

- a) **Class work** (with average score 6.0/10):
Class score shall be derived from students' performance in quizzes or combination of quizzes and homework.
- b) **Lab work** (with average score 14.0/20)
The lab score shall be derived from a combination of lab reports/quizzes/lab final exam. Those who have taken the course in previous semesters and scored 'F' grade would be eligible to carry their previous lab grade. To carry the previous lab grade, the student must file the petition by filling up the form available at the following [link](#). Please send the filled form at the following e-mail address: mogtaba@kfupm.edu.sa. The e-mail must be sent from the student's KFUPM e-mail account. The decision on the submitted petitions will be posted at the course website.
- c) **Exams**
All exams will be of multiple-choice type. A sheet of important formulae will be provided during the exam.
- d) **Upgrade**
A student who would have 5 absences or less during the semester will be promoted to the next higher letter grade (for example from F to D or B to B+ etc.) only if he needs one point or less for the next grade.
- e) **Make-up Exam Policy**
A student who misses an exam with a valid excuse must present an officially authorized document to the course coordinator within 3 days after the date of the exam for the make-up exam. However, if a student misses the final exam with a valid excuse then an 'IC' grade will be assigned to the student and the student will take the make-up exam in the following semester. Without an official excuse, the score for the exam will be zero. Personal excuses are not accepted.