



الجدول الزمني لتوزيع محتوى مقرر الفيزياء العامة للسنة التحضيرية

Weeks	Topics	Sample Problems	Chapter
1	1- Measurements: 1-1. Measuring things		1, 2
	1-2. The International System Units		
	1-3. Changing Units		
	1-4. Length. (page 3 Only)		
	1-5. Time (definition only)		
	1-6. Mass (definition only)		
	1-7 (definition only)		
	2-2: Motion		
	2-3: Position and Displacement		
	2-4: Average velocity and average speed	2-1	
	2-5: Instant. Velocity and speed	2-3	
2	2-6: Acceleration	2-4 (a-b)	2
	2-7: Constant acceleration	2-5	
	2-9: Free-Fall	2-7, 2-8	
3	3-2: Vectors and scalars	3-1	3
	3-3: Adding vectors		
	3-4: Components of vectors	3-2	
	3-5: Unit vectors		
	3-6: Adding vectors by components	3-4	
4	3-8: Multiplying vectors	3-7, 3-9	3, 4
	Motion in Two and Three Dimensions: 4-1:	4-1	
	4-2: Position and displacement	4-2(a)	
5	4-3: Average velocity and instant. Velocity	4-3	
	4-4: Average acceleration and instant. Acc.	4-4	
	4-5: Projectile motion, (page 65 Only)	4-5	
	4-6: Projectile motion analysed	Problem 21, 38	
6	4-7: Uniform circular motion – No Proofs	4-7, 4-10	4,5
	Chapter 5: Force and Motion-I:		
	5-1: What is acceleration, 5-1: Newton's 1 st Law		
	5-3: Newton's first law		
	5-4: Force , (not inertial frames)		
	5-5: Mass		
	5-6: Newton's second law	5-1. 5-2	
7	5-7: Some particular forces		5
	5-8: Newton's third law		
	5-9 :	5-4,5-5	
	Sample problem :	5-8,5-9	

8	Chapter 6: Force and Motion—II: 6-1		6, 7
	6-2: Friction , (only page117)		
	6-3: Properties of friction	6-1	
	6-5: Uniform circular motion	6-2	
	Sample problem : 6-2 (acceleration only)	6-6	
	Chapter 7: Kinetic Energy and Work: 7-1		
	7-2: What energy		
9	7-3: Kinetic energy		
	7-4: Work		
	7-5: Work and kinetic energy		
	Sample problem :	7-2, 7-3	
10	7-6: Work done by the gravitational force, (Work done in lifting and lowering an object (NO))	7-4 (a)	7,9
	7-7: Work done by a spring force, (work done by an applied force (NO))	7-7	
	7-8: Work done by a general variable force	7.8	
	7-9: Power	7-11	
11	Chapter 9: Center of Mass and Linear Momentum: 9-1		9
	9.2: Center of Mass, (solid bodies NO))	9-1	
	9-3: Newton's second law of system of particles, (to equation 9-15, (proof of equation 9-14 NO))	9-3	
	9-4: Linear Momentum		
	9-5: The linear momentum of system of particles		
	9-7:	9-6	
	الاختبار النهائي في جميع الفصول		