

Mechanics 1

SCHEDULE 2018-2019 (NB: Will be updated regularly)

Updated: 26 September 2018

Date	Lecture	Self-study	
			To be handed in
24-Jul-18	General information Chapter 1: Velocity and acceleration 1.1 Motion with constant velocity: pp. 1–2 Example: 1.1.1, 1.1.2 Exercise 1A; Pr 1, 2, 5, 6 1.2 Graphs for constant velocity: pp. 2–4 Exercise 1A; Pr 8 1.3 Acceleration: pp. 4 – 5	Read: pp. 1-5 Examples: 1.1.1, 1.1.2, Exercise 1A: 3, 4, 7, 9 Exercise 1B: 3, 5,6	Exercise 1A: 3, 4, 7, 9 Exercise 1B: 3, 5,6 Hand in on: 31 July 2018
31-Jul-18	1.4 Equations for constant acceleration: pp. 5–8 Example: 1.4.1, 1.4.2 Exercise 1B; Pr 1, 2, 4, 7 1.5 More equations: pp. 8–11 Example: 1.5.1, 1.5.2 Exercise 1C; Pr 1, 3, 5, 12	Read: pp. 5-11 Examples: 1.4.1, 1.4.2 Example: 1.5.1, 1.5.2 Exercise 1C: 2, 4, 6, 7, 8, 10	Exercise 1C: 2, 4, 6, 7, 10 Hand in on: 07 August 2018
07-Aug-18	1.6 Multi-stage problems: pp. 11–13 Example: 1.6.1, 1.6.2, 1.6.3 1.7 Average velocity: pp. 14–16 Example: 1.7.1 Exercise 1D; Pr 1, 4, 9	Read: pp. 11-16 Examples: 1.6.1, 1.6.2, 1.6.3 Exercise 1D: 2, 3	Exercise 1D: 2, 3 Hand in on: 14 August 2018
14-Aug-18	Chapter 2: Force and motion 2.1 Newton's first law: pp. 19 – 20 2.2 Force and acceleration: pp. 20 – 22 Examples: 2.2.1, 2.2.2 2.3 Some other types of force: pp. 22 – 24 Exercise 2A: 2, 5, 11	Read: pp. 19-24 Examples: 2.2.1, 2.2.2, 2.3.1 Exercise 2A: 1, 3, 6, 12, 15	Exercise 2A: 1, 3, 12 Hand in on: 21 August 2018
21-Aug-18	2.4 Forces acting together: pp. 24 – 26 Examples: 2.4.1, 2.2.1 2.5 The particle model: pp. 27 – 28 Exercise 2B: 2, 11 Miscellaneous Ex., pp. 28-30: Pr 10, 11, 15	Read: pp. 24-27 Examples: 2.4.1, 2.4.2, 2.4.3, 2.4.4 Exercise 2B: 1, 7, 8, 9 Miscellaneous Ex., pp. 28-30: Pr 1, 13, 14	Exercise 2B: 1, 7 Miscellaneous Ex., pp. 28-30: Pr 1, 14 Hand in on: 28 August 2018
28-Aug-18	Chapter 3: Vertical motion 3.1 Acceleration due to gravity: pg. 30 3.2 Weight: pp. 32 – 36 3.3 Normal contact force: pp. 36 – 37 3.4 Mass and weight: pp. 38 – 41 Examples: 3.2.1- 3.2.4 Exercise 3A: 3, 8, 12, 14, 17	Read: pp. 31-34 Examples: 3.2.1- 3.2.4 Exercise 3A: 1, 2, 4, 10, 15	Exercise 3A: 4, 10, 15 Hand in on: 04 September 2018
04-Sep-18	Chapter 4: Resolving forces 4.1 Resolving horizontally and vertically: pp. 43 – 44 4.2 Forces at an angle: pp. 44 – 49 Examples: 4.2.1- 4.2.4 Exercise 4A: 1 (a), 4,8	Read: pp. 43-53 Examples: 4.2.1- 4.2.4 Examples: 4.4.1- 4.4.3 Exercise 4A: 1, 5 Exercise 4B: 3, 8, 13	Exercise 4A: 1 (b), (d), 5 Exercise 4B: 8, 16 Hand in on: 11 September 2018

11-Sep-18	4.3 Some useful trigonometry: pg. 50 4.4 Revolving in other directions: pp. 50 – 56 Examples: 4.4.1, 4.4.3 Exercise 4B: 2, 5, 8 Miscellaneous Ex. 4, pp. 56-59: Pr 6, 12 2, 3, 10, 11		
18-Sep-18	Tutorial		
25-Sep-18	Sport Prize giving – no class		
Holiday			
09-Oct-18	Revision		
16-Oct-18	CLASS TEST		
23-Oct-18	No Class		
School exams and Holiday			