

Mechanics 2

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: The motion of projectiles 1.1 Velocity as a vector: pp. 1–4 Examples 1.1.1, 1.1.2, 1.1.3 Exercise 1A: Pr. 2, 5, 8, 9 1.2 Coordinate methods: pp. 4–12 Examples 1.2.1, Example 1.2.4 Exercise 1B: 1, 2, 4, 6, 8 | Read pp. 1–4 Read pp: 4–12 Examples 1.2.2, 1.2.3 Exercise 1B: 3, 5, 7, 9, 19 | Exercise 1A: 1, 4, 6, 7, 10 Hand in on: 31 July 2018 |
| 31-Jul-18 | 1.2 Coordinate methods: pp. 4–12 Examples 1.2.1, Example 1.2.4 Exercise 1B: 1, 2, 4, 6, 8 | Read pp: 12 – 17 Examples 1.3.1, 1.3.2 Exercise 1C: 2, 4, 5, 7, 9, 11, 13 | Exercise 1B: 3, 19 Exercise 1C: 2, 7, 11 Hand in on: 07 August 2018 |
| 07-Aug-18 | Exercise 1B: 8, 15, 18, 14 1.3 Some general formulae: pp. 12 – 17 Examples 1.3.2 Exercise 1C: 1, 3, 6, 8, 10, 12 | Exercise 1C: 2, 4, 5, 7, 9, 11, 13 | Hand in on: 14 August 2018 |
| 14-Aug-18 | Chapter 2: Moments 2.1 Rigid objects: pp. 21 – 22 2.2 Centre of mass: pp. 22 – 28 2.3 The moment of a force: pp. 23 – 28 Examples 2.3.1 Exercise 2A: 5, 6, 7 | Read pp: 21 – 26 Examples 2.3.1, 2.3.2 Exercise 2A: 2, 4 | Exercise 2A: 1, 3 Hand in on: 21 August 2018 |
| 21-Aug-18 | 2.4 Forces from supports: pp. 28 – 29 Examples 2.4.1, 2, 3 Exercise 2B: 1, 3 2.5 Forces in different directions: 33 – 38 Examples 2.5.1, 2, 3 Exercise 2C: 2(a), 3(b), 4(c), 5(a), 9 | Read pp. 28–31, 33–35 Examples 2.4.1–3, 2.5.1–3 Exercise 2B: 2, 7 Exercise 2C: 1, 2, 3, 4, 5, 14 | Exercise 2B: 2, 7 Exercise 2C: 2(d), 3(d), 4(b), 14 Hand in on: 28 August 2018 |
| 28-Aug-18 | Chapter 3: Centre of mass 3.1 One-D objects: pg. 41 – 43 3.2 Two-D objects: pp. 43 – 48 Exercise 3A: 10, 16 Miscellaneous exercise 3: 1, 5 3.3 Hanging and balancing: pp. 48 – 51 | Read pp. 41–45 Examples 3.2.1, 3.2.2 Exercise 3A: 1, 2 Miscellaneous Exercise 3: 2, 3, 4 | Exercise 3A: 2, 7 Hand in on: 04 September 2018 |
| 04-Sep-18 | Chapter 4: Rigid objects in equilibrium 4.1 Equilibrium equations: pp. 59 – 65 Examples 4.1.1, 2, 4 Exercise 4A: 1, 5 4.2 Breaking equilibrium by sliding or toppling: pp. 65 – 68 Examples 4.2.1 | Read: pp. 43–53 Examples: 4.2.1– 4.2.4 Examples: 4.4.1– 4.4.3 | Exercise 4A: 2, 3 Exercise 4B: 2, 3 Hand in on: 11 September 2018 |
| 11-Sep-18 | 4.3 Locating lines of action: pg. 68 – 70 Examples 4.3.1, 2 Exercise 4B: 4, 8 Miscellaneous Exercise 4: 11, 4 | | |

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| 18-Sep-18 | Tutorial | | |
| 25-Sep-18 | Sport Prize giving – no class | | |
| Holiday | | | |
| 09-Oct-18 | Revision | | |
| 16-Oct-18 | Revision | | |
| 23-Oct-18 | No Class | | |
| School exams and Holiday | | | |