University Mechanical Engineering

Scheme of Work ·

A starting allocation over 30 teaching weeks, weighted by each topic's number of subtopics — adjust to your own calendar. The last column lists the Library material that already covers the topic.

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Weeks	Topic	Subtopics	Library material
1–3	**1. Engineering Mechanics – Statics** –	1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8	Handout · 8 Learn lessons · Slide deck · Vocabulary list · 8 exercise sheets
4–6	**2. Mathematical Methods for ME**	2.1, 2.2, 2.3, 2.4, 2.5, 2.6	Handout · 6 Learn lessons · Slide deck · Vocabulary list · 6 exercise sheets
7–9	**3. Engineering Mechanics – Dynamics** –	3.1, 3.2, 3.3, 3.4, 3.5, 3.6	Handout · 6 Learn lessons · Slide deck · Vocabulary list · 6 exercise sheets
10–12	**4. Engineering Materials**	4.1, 4.2, 4.3, 4.4, 4.5, 4.6	Handout · 6 Learn lessons · Slide deck · Vocabulary list · 6 exercise sheets
13–15	**5. Thermodynamics**	5.1, 5.2, 5.3, 5.4, 5.5, 5.6	Handout · 6 Learn lessons · Slide deck · Vocabulary list · 6 exercise sheets
16–17	**6. Mechanics of Materials**	6.1, 6.2, 6.3, 6.4, 6.5, 6.6	Handout · 6 Learn lessons · Slide deck · Vocabulary list · 6 exercise sheets
18–19	**7. Fluid Mechanics**	7.1, 7.2, 7.3, 7.4, 7.5, 7.6	—
20–21	**8. Manufacturing Processes**	8.1, 8.2, 8.3, 8.4, 8.5, 8.6	—
22–23	**9. Machine Design**	9.1, 9.2, 9.3, 9.4, 9.5, 9.6	—
24–25	**10. Heat Transfer**	10.1, 10.2, 10.3, 10.4, 10.5, 10.6	—
26–27	**11. Theory of Machines and Vibrations**	11.1, 11.2, 11.3, 11.4, 11.5, 11.6	—
28–30	**12. System Dynamics and Control**	12.1, 12.2, 12.3, 12.4, 12.5, 12.6, 12.7	—