

FACULTY OF MECHANICAL ENGINEERING
UNIVERSITI TEKNOLOGI MALAYSIA
SKMU2113 – Engineering Science

Course Planning (Semester 2, 2017/2018)

Week	Date (Sunday)	Lecture & Topics			Topics
		Lecture 1	Lecture 2	Lecture 3	
1	11 Feb	A	A	A	<u>Part 1</u> A – Statics of Rigid Body (3 hrs) B – Stress and Strain (6 hrs) C – Torsion (3 hrs) D – Shear Force and Bending Moment (3 hrs) E – Bending Stress (6 hrs)
2	18 Feb	B	B	B	
3	25 Feb	B	B	B	
4	04 Mar	C	C	C	
5	11 Mar	D	D	D	
6	18 Mar	E	E	E	
7	25 Mar	E	E	E	
8	01 Apr	MID-SEMESTER BREAK			<u>Part 2</u> F – Thermodynamics Definition and Basic Concept (3 hrs) G – Properties of Pure Substance (6 hrs) H – Ideal Gas (3 hrs) I – Energy, Heat and Work (3 hrs) J – First Law of Thermodynamics (6 hrs)
9	08 Apr	F	F	F	
10	15 Apr	G	G	G	
11	22 Apr	G	G	G	
12	29 Apr	H	H	H	
13	06 May	I	I	I	
14	13 May	J	J	J	
15	20 May	J	J	J	
16	27 May	REVISION WEEK			

Course Assessment:

TEST 1(Part 1)	20	(Week 5)
TEST 2(Part 1)	20	(Week 9)
TEST 1(Part 2)	20	(Week 14)
TEST 2(Part 2)	20	(Week 16)
Assignment (Part 1)	10	
Assignment (Part 2)	10	
Total	100	%

Textbook(Part 2):

Y.A. Cengel and M.A. Boles, *Thermodynamics: An Engineering Approach*, McGraw-Hill.

References:

1. Nash, W.A., *Theory and Problems of Statics and Mechanics of Materials*, McGraw-Hill.
2. Spiegel, L and Limbrunner, G.F., *Applied Statics and Strength of Materials*, Prentice Hall.
3. Morrow, H.W. and Kokernak, R.P., *Statics and Strength of Materials*, Prentice Hall.
4. M.J. Moran and H.N. Shapiro, *Fundamentals of Engineering Thermodynamics*, John Wiley & Sons.
5. R.E. Sonntag, C. Borgnakke & G.J. Van Wylen, *Fundamentals of Thermodynamics*, John Wiley & Sons.

Course Instructors:

	Section 01	Section 02	Section 03	Section 04
Part 1	Mr Zafri C23-230 07-5534701 zafri@mail.fkm.utm.my	Dr Ardiyanshah C23-410 07-5534677 ardi@mail.fkm.utm.my	Dr Ayub C23-424 07-5554892 mayub@mail.fkm.utm.my	Dr Hishamuddin C24-315 07-5534708 ahisham@mail.fkm.utm.my
Part 2	Dr Md Mizanur C23-228 07-5534605 mdmizanur@utm.my	Dr Ibthisham C23-316 07-5534635 ibthisham@mail.fkm.utm.my	Dr Natrah C23-215 07-5534663 natrah@mail.fkm.utm.my	Dr Aminuddin C23-216 07-5534657 amins@mail.fkm.utm.my