



#### a) Time & Place

Lecturer time/place	Activity
8:00am-10:00am (Monday), DK5	Lecture
9:00am-10:00am (Wednesday), DK8	Lecture

#### b) Lecturer(s)

No	Lecturer/Tutor	Email	Teaching load (Hour)	
			Lecture	Tutorial
1	ZUL FAHMI BIN MOHAMED JAAFAR, DR. (ZFMJ) (CM)	cezuljaafar@usm.my	21	
2	MOHD ROSLI BIN MOHD HASAN, DR. (MRMH)	cerosli@usm.my	20	

#### c) Course Mapping

No.	Course Outcome	PO (SCE)	LT (SCE)	SS	Assessment	CP	CA	KP	OE	S
CO1	Able to apply pavement engineering knowledge to solve problems related to choice of pavement materials, design and construction	PO1	C3	CTPS3	Examination Test (13) Assignment (3)	CP1 CP2		KP5		
CO2	Able to analyse problems related to pavement engineering	PO3	C4	CTPS3	Examination Test (13) Assignment (3)	CP1 CP2		KP5		

**PO:** Programme Outcome; **LT:** Learning Taxonomy; **SS:** Soft Skills; **CP:** Complex Problem; **CA:** Complex Activities; **KP:** Knowledge Profile; **OE:** Open Ended; **S:** Sustainability; **SCE:** School of Civil Engineering

#### d) Course Distribution

Coursework	50%	Examination	50%
i. Test	20%		
ii. Assignment	30%		

#### e) Teaching Plan

Week	Session	Date	Lecturer / Contact Hour	Topics	Assessment	CO	PO	LT	
1	1	12-10-2020	MRMH (2)	Introduction to Pavement Engineering					
	2	14-10-2020	ZFMJ (1)	Aggregates					
2	1	19-10-2020	ZFMJ (2)	Aggregates					
	2	21-10-2020	ZFMJ (1)	Aggregates					
3	1	26-10-2020	ZFMJ (2)	Aggregates					
	2	28-10-2020	MRMH (1)	Binders					
4	1	02-11-2020	MRMH (2)	Binders					
	2	04-11-2020	MRMH (1)	Binders	Assignment 1	CO1 CO2	PO1 PO3	C1 C2 C3 C4	
5	1	09-11-2020	MRMH (2)	Binders					
	2	11-11-2020	ZFMJ (1)	Mix types					
6	1	16-11-2020	ZFMJ (2)	Mix types					
	2	18-11-2020	ZFMJ (1)	Mix design					
7	1	23-11-2020	ZFMJ (2)	Mix design					
	2	25-11-2020	ZFMJ (1)	Mix design	Test 1	CO1 CO2	PO1 PO3	C2 C3 C4	
8	MID-SEMESTER BREAK								
9	1	07-12-2020	MRMH (2)	Pavement design					

	2	09-12-2020	MRMH (1)	Pavement design				
10	1	14-12-2020	MRMH (2)	Pavement design				
	2	16-12-2020	MRMH (1)	Pavement design				
11	1	21-12-2020	ZFMJ (2)	Mix production				
	2	23-12-2020	ZFMJ (1)	Pavement construction				
12	1	28-12-2020	ZFMJ (2)	Pavement construction	Assignment 2	CO1 CO2	PO1 PO3	C2 C3 C4
	2	30-12-2020	ZFMJ (1)	Pavement construction				
13	1	04-01-2021	ZFMJ (2)	Pavement construction				
	2	06-01-2021	Site Visit	Mix design Pavement construction	Assignment 3 (CP1,CP2)	CO1 CO2	PO1 PO3	C2 C4
14	1	11-01-2021	MRMH (2)	Road maintenance				
	2	13-01-2021	MRMH (1)	Road maintenance				
15	1	18-01-2021	MRMH (2)	Road maintenance				
	2	20-01-2021	MRMH (1)	Road maintenance	Test 2 (CP1,CP2)	CO1 CO2	PO1 PO3	C1 C2 C3
16	Revision Week							

#### f) Examination Plan

Question	Topic	CO	PO (SCE)	LT	CP	OE	S
1	Mix types Mix design	CO1 CO2	PO1 PO3	C1 C2 C3 C4	CP1 CP2		
2	Binders	CO1 CO2	PO1 PO3	C1 C2 C3 C4	CP1 CP2		
3	Mix production Pavement construction	CO1 CO2	PO1 PO3	C1 C2 C3 C4	CP1 CP2		
4	Pavement design Road maintenance	CO1 CO2	PO1 PO3	C1 C2 C3 C4	CP1 CP2		

Answer **4** out of **4** questions.

Prepared by: ZFMJ

Approved by: LTL (10-10-2020 6:40 pm)

