

# Struktur Kurikulum UW6521001-CRM-2023 (CJ12)

UW6521001 – KEJURUTERAAN MEKANIKA (Pengambilan 2024/2025 dan seterusnya)								
Year 1		Year 2		Year 3		Year 4		
Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	Antarsesi	Semester 1	Semester 2
<b>CORE COURSES</b>								
KNJ1013 Statics	KNJ1023 Dynamics	KNJ2013 Solid Mechanics 1	KNJ2033 Engineering Economy & Finance	KNF3102 Engineering Ethics	KNJ3373 Finite Element Analysis (FEA)	KNF3065 Industrial Training	KNJ4192 Final Year Project 1	KNJ4214 Final Year Project 2
KNJ1072 Engineering Drawing	KNJ1433 Engineering Materials	KNJ2093 Thermodynamics 2	KNJ2103 Fluid Mechanics 2	KNP3013 Manufacturing Technology	KNP3063 Robotics and Automation		KNP4414 Integrated Design	KNP4083 Quality Control & Reliability
KNJ1041 Introduction to Mechanical Engineering	KNJ1231 Engineering Laboratory 1	KNJ2023 Fluid Mechanics 1	KNJ2251 Engineering Laboratory 3	KNP3483 Engineering Design 1	KNJ3023 Heat Transfer		KNJ4063 Mechanical Vibration	KNP4443 Engineering Management
KNP1091 Workshop Practice	KNJ1062 Electrical Engineering Technology	KNJ2511 Engineering Laboratory 2	KNJ2133 Solid Mechanics 2	KNJ 3543 Instrumentation and Measurement	KNP3493 Engineering Design 2		KNJ 4573 Control Engineering	Elektif Program C *pilih 1 daripada 5 pilihan
KNF1013 Engineering Mathematics 1	KNF1023 Engineering Mathematics 2	KNF2033 Engineering Mathematics 3	KNJ2463 Electronics and Microprocessors	KNJ3531 Engineering Laboratory 4	Elektif Program A *pilih 1 daripada 5 pilihan		Elektif Program B *pilih 1 daripada 5 pilihan	
KNJ1052 Engineering Programming	KNJ1033 Thermodynamics 1	KNJ2222 Analysis of Mechanics and Machines	KNJ2042 Numerical Methods					
<b>12 credit</b>	<b>15 credit</b>	<b>15 credit</b>	<b>15 credit</b>	<b>12 credit</b>	<b>14 credit</b>	<b>5 credit</b>	<b>14 credit</b>	<b>12 credit</b>
<b>UNIVERSITY ELECTIVE COURSES, GENERIC COURSES, MPU and CO-CURRICULUM (PPD)</b>								
PBI1102 */ PBI1092/PBI1112**		MPU3222	MPU3342**/ MPU3332/MPU3352/MP U3362/MPU3372	Universiti (KEU) (1)-3	Universiti (KEU) (2)-3			
MPU3192/MPU3142**	PBI1122**/PBI1072* / PBI1082	PBM2072/PBM2082**	MPU3432/MPU3442/MP U3452/MPU3462/MPU3 472/MPU3482/ MPU3492/MPU34102					
PPD1041	MPU3182							
<b>17 credit</b>	<b>19 credit</b>	<b>19 credit</b>	<b>19 credit</b>	<b>15 credit</b>	<b>17 credit</b>	<b>5 credit</b>	<b>14 credit</b>	<b>12 credit</b>

\*for students passed with Band MUET 1-2

\*\*for international students

Teras :	114
Elektif Universiti :	9
Generik :	4
MPU :	10
PBM :	2
Kokurikulum (PPD) :	1

\*Pengukuhan (untuk pelajar yang lulus dengan Band MUET 1-2) : 4

Jumlah :	143(147**)
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\*check kursus MPU samaada kursus wajib university

\*check on EAC requirement regarding university courses (credit hour)

	Both semester
	Semester 1
	Semester 2

Elective A (Year 3 Sem 2)	Elective B (Year 4 Sem 1)	Elective C (Year 4 Sem 2)
1. KNP3032 OPERATION RESEARCH 2. KNJ3042 ENERGY RESOURCE AND MANAGEMENT 3. KNJ3052 TRIBOLOGY 4. KNP3062 MANUFACTURING SYSTEM 1 5. KNJ3072 MATERIAL CHARACTERISATION	1. KNJ4582 MANUFACTURING MODELLING AND SIMULATION 2. KNJ4392 POLYMER AND COMPOSITE 3. KNJ4302 COMPUTATIONAL FLUID DYNAMIC 4. KNJ4012 ENGINEERING STATISTIC 5. KNP4022 MANUFACTURING SYSTEM 2 (REQUISITE-KNP3062)	1. KNP4612 MANUFACTURING SYSTEM ANALYSIS (REQUISITE-KNJ4012) 2. KNP4032 MANUFACTURING SYSTEM DESIGN (REQUISITE- KNP4022) 3. KNJ4322 INTERNAL COMBUSTION 4. KNJ 4042 CORROSION AND PREVENTION 5. KNP 4052 LEAN MANUFACTURING

Introduction to mechanical engineering -Prof. Ir Dr Andrew