

17. Mapping of Programme Learning Outcomes to Subjects

BIL	KOD KURSUS	NAMA KURSUS	Knowledge	Practical skills	Problem solving, Critical thinking & Scientific Skills	Communication, Leadership and Teamworking Skills	Social Skills and Responsibilities	Values, Ethics, Attitude & professionalism	Information Management Lifelong Learning Skills
			PO1	PO2	PO3	PO4	PO5	PO6	PO7
KURSUS TERAS (Wajib SEMUA)									
1.	ULAJ 6013	Japanese Language (all students)		✓		✓		✓	
2.	MSCJ 1523	Methods of Engineering Mathematics	✓	✓	✓				
3.	MSCJ 1533	Numerical Methods in Engineering	✓	✓	✓				
4.	MSCJ 1033	Research Methodology	✓	✓	✓	✓	✓	✓	✓
5	MSCJ 2180	Dissertation	✓	✓	✓	✓	✓	✓	✓
Elective courses (Choose one Mathematics course and two engineering courses)									
6	MSCJ 1513	Partial Differential Equations	✓	✓	✓				
7	MSCJ 1753	Fluids Mechanics and Heat Transfer	✓	✓	✓				
8	MSCJ 1733	Soliton and Nonlinear Waves	✓	✓	✓				
9	MSCJ 1713	Statistical Modelling and Simulation	✓	✓	✓	✓		✓	
CIVIL ENGINEERING ELECTIVES									
1	MKAB 9073	Environmental Modelling	✓	✓					
2	MKAE 1133	Water Pollution Control	✓	✓					
3	MKAG1043	Geotechnical Modeling	✓	✓					
4	MKAH 1243	Groundwater Hydrology	✓	✓	✓				
5	MKAH 1253	Groundwater Modelling	✓	✓	✓				
6	MKAH 1313	Computational Fluid Mechanics	✓	✓					
7	MKAS 1163	Theory of Plate and Shell	✓		✓		✓		
ELECTRICAL ENGINEERING ELECTIVES									
1	MKEM 1773	Multivariable and Optimal Control Systems	✓	✓	✓	✓			
2	MKEM 1833	Linear System Theory	✓	✓	✓				
3	MKEM 1853	Discrete Time and Computer Control Systems	✓	✓	✓	✓			
4	MKEL 1223	Random Process	✓	✓	✓	✓	✓		
5	MKEL 1233	Image Processing	✓	✓	✓	✓			
MECHANICAL ENGINEERING ELECTIVES									
1	MMP 1603	CAD/CAM	✓		✓		✓		

2	MKMM 1113	Computational Methods for Engineers	✓	✓	✓	✓			
3	MKMM 1213	Advanced Engineering Mathematics	✓		✓				
4	MKMM 1153	Computational Methods in Solid Mechanics	✓	✓				✓	✓
5	MKMM 1183	Theories of Elasticity and Plasticity	✓	✓	✓				✓
6	MKMM 1543	CAD and its Applications	✓	✓	✓	✓			✓
UNIVERSITY COMPULSORY COURSE FOR INTERNATIONAL STUDENTS (Choose one)									
1	UHAZ 6123	Malaysian Society and Culture				✓		✓	
2	ULAM 6323	Malay Language for Postgraduates				✓			✓