

GRADUATION CHECKLIST INTAKE 2019/2020

To graduate, students must pass all the stated courses in this checklist with minimum B grade. Students must achieve a total of 42 credit hours with a minimum of cumulative B grade or CGPA of 3.0 and passed master research dissertation project and has submitted the approved dissertation to UTM. It is the responsibility of the students to ensure that all courses are taken and passed. Students who do not complete any of the course are not allowed to graduate.

NO.	CODE	COURSE	CREDIT EARNED (JKD)	CREDIT COUNTED (JKK)	TICK (√) IF PASSED
UNIVERSITY ELECTIVE (Choose 1)					
1	UHAP6013	Seminar Pembangunan Isu-Isu Sosial dan Ekonomi Global	3	3	
2	UHAW6023	Falsafah Sains dan Pembangunan Sosial	3	3	
3	UHAF6033	Kepimpinan Dinamik	3	3	
4	UHAZ6113	Budaya Malaysia I	3	3	
5	UHAZ6123	Budaya Malaysia II	3	3	
6	UHAZ6313	Bahasa Malaysia Akademik I	3	3	
7	UHAZ6323	Bahasa Malaysia Akademik II	3	3	
8	UDPE1123	Organizational Behavior dan Development	3	3	
9	UCSM1263	Pengurusan Projek IT	3	3	
10	ULAJ 6013	Japanese Language for Postgraduates	3	3	
TOTAL CREDIT OF UNIVERSITY ELECTIVE			3	3	
PROGRAMME CORE COURSES					
1	MKKB1103	Biotechnology for Engineers	3	3	
2	MKKB1113	Industrial Bioprocessing	3	3	
3	MKKB1123	Facilities and Infrastructures in Bioprocess Engineering	3	3	
4	MKKB1133	Bioproduct Development	3	3	
5	UKKP0013	Research Methodology	3	3	
TOTAL CREDIT OF PROGRAM CORE			15	15	
PROGRAMME ELECTIVE COURSES*(Choose 1)					
1	MKKT1023	Herbal Quality Management	3	3	
2	MKKT1033	Herbal Processing	3	3	
3	MKKH1373	Human Factor	3	3	
4	MKKK1513	Advanced Transport Phenomena	3	3	
5	MKKH1513	Environmental Management	3	3	
6	MKKH1523	Pollution Control Technology	3	3	
7	MKKK1613	Energy Analysis and	3	3	

		Management			
8	MKKK1653	Safety and Health in Process Industries	3	3	
9	MKKK1683	Process Integration	3	3	
TOTAL CREDIT OF PROGRAMME ELECTIVE			3	3	
DISSERTATION					
1	MKKB ##80	Dissertation	21	HL	
TOTAL CREDIT OF DISSERTATION			21	21	
TOTAL CREDIT TO GRADUATE			42	42	

**The courses are offered subjected to availability of the courses for the particular semester in the School of Chemical and Energy Engineering*