

GRADUATION CHECKLIST

To graduate, students must pass all the stated courses in this checklist. It is the responsibility of the students to ensure that all courses are taken and passed. Students who do not complete any of the courses are not allowed to graduate.

NO.	CODE	COURSE	CREDIT EARNED (JKD)	CREDIT COUNTED (JKK)	TICK (√) IF PASSED
CHEMICAL ENGINEERING COURSES					
1	SETK 1111	Engineering Drawing	1	1	
2	SETK 1213	Statics	3	3	
3	SETK 1511	Industrial Seminar & Profession	1	1	
4	SETK 1523	Introduction to Engineering	3	3	
5	SETK 1533	Introduction to Computer Programming	3	3	
6	SETK 1123	Mass Balance	3	3	
7	SETK 1223	Thermodynamics	3	3	
8	SETK 2133	Energy Balance	3	3	
9	SETK 2233	Fluid Mechanics	3	3	
10	SETK 2243	Material Engineering	3	3	
11	SETK 2711	Thermodynamics and Material Eng. Laboratory	1	1	
12	SETK 2253	Chemical Engineering Thermodynamics	3	3	
13	SETK 2313	Transport Processes	3	3	
14	SETK 2721	Fluid Mechanics Laboratory	1	1	
15	SETK 2543	Numerical Method & Optimization	3	3	
16	SEEU 2003	Electrical Technology	3	3	
17	SETK 3263	Chemical Reaction Engineering	3	3	
18	SETK 3323	Separation Processes	3	3	
19	SETK 3413	Pollution Control Engineering	3	3	
20	SETK 3731	Pollution Control and Reaction Laboratory	1	1	
21	SETK 3552	Occupational Safety and Health in Industry	2	2	
22	SETK 3334	Unit Operation & Industrial Processes	4	4	
23	SETK 3343	Engineering Economics and Project Management	3	3	
24	SETK 3564	Process Control & Instrumentation	4	4	

25	SETK 3741	Separation Process Laboratory I	1	1	
26	SETK 3812	Undergraduate Project I	2	2	
27	SETK 3915	Industrial Training	5	HL	
28	SETK 4143	Chemical Product Design	3	3	
29	SETK 4153	Plant Design	3	3	
30	SETK 4751	Process Control Laboratory	1	1	
31	SETK 4761	Separation Processes Laboratory II	1	1	
32	SETK 4824	Undergraduate Project II	4	4	
33	SETK 4573	Process Safety & Operability	3	3	
34	SETK 4834	Plant Design Project	4	4	
35	SETK 4**3	Elective 1	3	3	
36	SETK 4**3	Elective 2	3	3	
37	SETK 4**3	Elective 3	3	3	
		TOTAL CREDIT OF CHEMICAL ENGINEERING COURSES (a)	99	94	
MATHEMATICS AND SCIENCE COURSES (Faculty of Science)					
1	SSCE 1693	Engineering Mathematics I	3	3	
2	SSCE 1793	Differential Equations	3	3	
3	SSCE 1993	Engineering Mathematics II	3	3	
4	SSCK 1623	Organic Chemistry for Engineering	3	3	
5	SSCK 1831	Organic Chemistry Practical	1	1	
6	SSCK 1203	Analytical Chemistry for Engineering	3	3	
7	SSCK 1891	Analytical Chemistry Practical	1	1	
		TOTAL CREDIT OF MATHEMATICS & SCIENCE COURSES (b)	17	17	
UNIVERSITY GENERAL COURSES					
Kluster 1: Penghayatan Falsafah, Nilai & Sejarah (Faculty of Social Sciences and Humanities)					
1	UHMS 1182	Appreciation of Ethics and Civilizations (for Local Students)	2	2	
	UHMS 1022 OR UHMS 1182	Philosophy and Current Issues (for International Students) OR Appreciation of Ethics and Civilizations (for International Students)			
2	UHis 1022	Philosophy and Current Issues (for Local Students)	2	2	
	UHLM 1012	Malay Language 2 (for			

		International Students)			
Kluster 2: Kemahiran Insaniah (Soft Skills)					
1	UHMT 1012	Graduate Success Attributes	2	2	
2	UBSS 1032	Introduction to Entrepreneurship	2	2	
3	U**2**2	Soft Skills Elective	2	2	
Kluster 3: Perluasan Ilmu					
1	UHIT 2302	The Thought of Science and Technology	2	2	
Kluster 4: Kurikulum Pembelajaran Servis					
1	UKQ* 2**2	Co-Curriculum & Service Learning	2	2	
2	UKQT 3001	Extracurricular Experiential Learning (ExCEL)	1	1	
Kluster 5: Kemahiran Bahasa (Language Skill) (Language Academy, Faculty of Social Sciences and Humanities)					
1	UHLB 1112	English Communication Skills	2	2	
2	UHLB 2122	Academic Communication Skills	2	2	
3	UHLB 3132	Professional Communication Skills	2	2	
4	UHL* 1112	Elective of Foreign Language	2	2	
		TOTAL CREDIT of UNIVERSITY GENERAL COURSES (c)	23	23	
		TOTAL CREDIT TO GRADUATE (a + b + c)	139	134	
OTHER COMPULSORY COURSES					
Professional Skills Certificate (PSC) (UTMSPACE/ School)					
1	GLL 1001	How to Get Your Self Employed			
2	GLL 1029	ISO 9001:2008 Quality Management System Requirement			
3	GLL 1040	Occupational Safety, Health and Environment			
4	GLL 1041	How to Manage Your Personal Finance			
Test of English Communication Skill (TECS) (Language Academy, Faculty of Social Sciences and Humanities)					
1	TECS 1001	Oral Interaction			
2	TECS 1002	Writing			

COURSE SYNOPSIS

CORE COURSES