

## 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 course are not allowed to graduate.

NO	CODE	COURSE	CREDIT EARNED (JKD)	CREDIT COUNT-ED (JKK)	TICK (✓) IF PASSED
<b>COMPUTER SCIENCE COURSES</b>					
<b>CORE COURSES (74 CREDITS)</b>					
1	SECI1013	Discrete Structure	3	3	
2	SECJ1013	Programming Technique I	3	3	
3	SECR1013	Digital Logic	3	3	
4	SECP1513	Technology & Information System	3	3	
5	SECI1113	Computational Mathematics	3	3	
6	SECI1143	Probability & Statistical Data Analysis	3	3	
7	SECJ1023	Programming Technique II	3	3	
8	SECR1033	Computer Organisation and Architecture	3	3	
9	SECD2523	Database	3	3	
10	SECD2613	System Analysis and Design	3	3	
11	SECJ2013	Data Structure and Algorithm	3	3	
12	SECR2213	Network Communications	3	3	
13	SECV2113	Human Computer Interaction	3	3	
14	SECJ2203	Software Engineering	3	3	
15	SECV2223	Web Programming	3	3	
16	SECR2043	Operating Systems	3	3	
17	SECJ2154	Object Oriented Programming	4	4	
18	SECJ3032	Software Engineering Project I	2	2	
19	SECJ3203	Theory of Computer Science	3	3	
20	SECJ4118	Industrial Training	8	HL	
21	SECJ4114	Industrial Training Report	4	4	
22	SECJ4134	Software Engineering Project II	4	4	
23	SECD3761	Technopreneurship Seminar	1	1	
<b>ELECTIVES COURSES (34 CREDITS) – Choose SECJ3104 and 10 other elective courses from the following list (which can include up to maximum of 4 PRISMS courses, for qualified students)</b>					
<b>SECJ ELECTIVES COURSES</b>					
24	SECJ2253	Requirements Engineering & Software Modelling	3	3	
25	SECJ2363	Software Project Management	3	3	

26	SECJ3104	Applications Development	4	4	
27	SECJ3553	Artificial Intelligence	3	3	
28	SECJ3303	Internet Programming	3	3	
29	SECJ3323	Software Design & Architecture	3	3	
30	SECJ3603	Knowledge-Based & Expert Systems	3	3	
31	SECJ3343	Software Quality Assurance	3	3	
32	SECJ3563	Computational Intelligence	3	3	
33	SECJ 3623	Mobile Application Programming	3	3	
34	SECJ3403	Special Topic in Software Engineering	3	3	
35	SECJ3483	Web Technology	3	3	
36	SECJ4383	Software Construction	3	3	
37	SECJ4423	Real-Time Software Engineering	3	3	
38	SECJ4463	Agent-Oriented Software Engineering	3	3	
<b>PRISMS ELECTIVES COURSES</b>					
39	SECR 5033	Information Security Governance and Risk Management	3	3	
40	SECR 5043	Cloud Computing Security	3	3	
41	SECJ 5013	Secure Software Engineering	3	3	
42	SECR 5053	Penetration Testing	3	3	
43	SECJ 5023	Advanced Theory of Computer Science	3	3	
44	SECJ 5033	Advanced Data Structure and Algorithms	3	3	
45	SECJ 5043	Advanced Artificial Intelligence	3	3	
46	SECP 5013	Advanced Analytics for Data Science	3	3	
47	SECP 5023	Big Data Management	3	3	
48	SECP 5033	Business Intelligence and Analytics	3	3	
49	SECP 5043	Data Science Governance	3	3	
50	SECP 5053	Massive Mining and Streaming	3	3	
51	SECP 5063	Statistics for Data Science	3	3	
<b>TOTAL CREDIT OF COMPUTER SCIENCE COURSES</b>			<b>108</b>	<b>100</b>	
<b>(a)</b>					
<b>UNIVERSITY GENERAL COURSES</b>					
<b>Cluster 1: Appreciation of Philosophy, Value and History</b>					
<b>(Faculty of Social Sciences and Humanities)</b>					
For Malaysian Students					
1	UHS1022	Falsafah dan Isu Semasa	2	2	
2	UHMS1182	Penghayatan Etika dan Peradaban	2	2	
For International Students					
1	UHS1022	Falsafah dan Isu Semasa	2	2	
	UHMS1182	Penghayatan Etika dan Peradaban			
2	UHLM1012	Malaysia Language for Communication	2	2	

<b>Cluster 2: Generic Skills</b>					
1	UBSS1032	Introduction to Entrepreneurship	2	2	
2	UHMT1012	Graduate Success Attributes	2	2	
<b>Cluster 3: Knowledge Enhancement</b>					
1	UHIT2302	The Thought of Science and Technology	2	2	
<b>Cluster 4: Co-Curriculum and Service Learning</b>					
1	UKQF2xx2	Service Learning Co-curriculum Elective	2	2	
2	UKQT3001	Extracurricular Experiential Learning	1	1	
<b>Cluster 5: Language Skills (Language Academy, Faculty of Social Sciences and Humanities)</b>					
1	UHLB1122	English Communication Skills	2	2	
2	UHLB2122	Academic Communication Skills	2	2	
3	UHLB3132	Professional Communication Skills	2	2	
4	UHLx1112	Foreign Language Elective	2	2	
<b>Other University Electives</b>					
1	Uxxx2xx2	Any 1 course from Cluster 2 or Cluster 3	2	2	
<b>TOTAL CREDIT of UNIVERSITY GENERAL COURSES (c)</b>			23	23	
<b>TOTAL CREDIT TO GRADUATE (a + b + c)</b>			131	123	

<b>OTHER COMPULSORY COURSES</b>		
<b>No.</b>	<b>PSC COURSE</b>	
<b>COMPULSORY COURSES</b>		
1	Design Thinking for Entrepreneur	
2	Talent and Competency Management	
3	English Communication Skills for Graduating Students (ECS)	
<b>ELECTIVE COURSES</b>		
4	Occupational Safety, Health & Environment (OSHE) ( <i>Compulsory to all FE students</i> )	
5.	Choose ONE elective course from the following list: 5. Data Analytics for Organization 6. Construction Measurement (Mechanical & Electrical Works) 7. Professional Ethics and Integrity 8. Other electives courses offered in future	