

## PRISMS ELECTIVE COURSES

For students who intend to enroll into PRISMS programme, refer to the PRISMS Section for a list of related elective courses associated with the postgraduate programmes.

### Requirements

Students who are eligible to apply for PRISMS are those with academic qualification who are in Year 3 Semester 2 with cumulative average grade value of CGPA 3.3 and above. Students can apply for PRISMS in Year 3 Semester 2 through the Program Integrasi Sarjana Muda-Sarjana (PRISMS) application form and must be recommended by the Academic Advisor, approved by the Program Director and certified by the Chair of School or Dean of Faculty.

### 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.

#### Bachelor of Engineering (Electrical - Mechatronics) - SEEM

NO.	CODE	COURSE	CREDIT EARNED (JKD)	CREDIT COUNTED (JKK)	TICK (✓) IF PASSED
<b>BACHELOR OF ENGINEERING (ELECTRICAL – MECHATRONICS)</b>					
1.	SEEE 1012	Introduction to Electrical Engineering	2	2	
2.	SEEE 1013	Electrical Circuit Analysis	3	3	
3.	SEEE 1022	Introduction to Scientific Programming	2	2	
4.	SEEE 1073	Electronic Devices and Circuits	3	3	
5.	SEEE 1223	Digital Electronics	3	3	
6.	SEEE 2073	Signals and Systems	3	3	
7.	SEEE 2133	Electronic Instrumentation & Measurement	3	3	
8.	SEEE 2263	Digital Systems	3	3	
9.	SEEE 2423	Fundamentals of Electrical Power Systems	3	3	

10.	SEEE 2523	Electromagnetic Field Theory	3	3	
11.	SEEE 2742	2 <sup>nd</sup> Year Electronic Design Lab	2	2	
12.	SEEE 3133	System Modeling & Analysis	3	3	
13.	SEEE 3143	Control System Design	3	3	
14.	SEEE 3223	Microprocessor	3	3	
15.	SEEE 3263	Electronic Systems	3	3	
16.	SEEE 3533	Communication Principles	3	3	
17.	SEEE 3732	Common 3rd Year Laboratory	2	2	
18.	SEEE 4012	Professional Engineering Practice	2	2	
19.	SEEL 4223	Digital Signal Processing I	3	3	
20.	SEEM 1113	Engineering Mechanics	3	3	
21.	SEEM 1502	Computer Aided Engineering Drawing	2	2	
22.	SEEM 3123	Hydraulic and Pneumatic Systems	3	3	
23.	SEEM 3133	Electrical Motors and Drives	3	3	
24.	SEEM 3742	Specialized 3 <sup>rd</sup> Year Laboratory	2	2	
25.	SEEM 4143	Robotics	3	3	
26.	SEEM 4333	Mechatronics System Design	3	3	
27.	SEEM 4723	Capstone Project	3	3	
28.	SEEM 4812	Final Year Project Part I	2	2	
29.	SEEM 4824	Final Year Project Part II	4	4	
30.	SEEM 4926	Practical Training	6	6	
31.	SEE* 4**3 / SEE*5**3	Field Elective 1 / PRISMS Elective 1	3	3	
32.	SEE* 4**3 / SEE*5**3	Field Elective 2 / PRISMS Elective 2	3	3	
33.	SEE* 4**3 / SEE*5**3	Field Elective 3 / PRISMS Elective 3	3	3	
34.	SECP 1103	C Programming Techniques	3	3	

35.	SHMS 4542	Engineering Management	2	2	
		<b>TOTAL CREDIT OF ENGINEERING COURSES(a)</b>	<b>100</b>	<b>94</b>	
<b>MATHEMATICS COURSES (Faculty of Science)</b>					
1.	SSCE 1693	Engineering Mathematics I	3	3	
2.	SSCE 1793	Differential Equations	3	3	
3.	SSCE 1993	Engineering Mathematics II	3	3	
4.	SSCE 2193	Engineering Statistics	3	3	
5.	SSCE 2393	Numerical Methods	3	3	
		<b>TOTAL CREDIT OF MATHEMATICS COURSES (b)</b>	<b>15</b>	<b>15</b>	
<b>UNIVERSITY GENERAL COURSES</b>					
<b>Cluster 1: Appreciation of Philosophy, Value and History (Faculty of Social Sciences and Humanities)</b>					
1.	UHMS 1182	Appreciation of Ethics and Civilizations (for Local Students)	2	2	
	UHS 1022 OR UHMS 1182	Philosophy and Current Issues (for International Students) OR Appreciation of Ethics and Civilizations (for International Students)			
2.	UHS 1022	Philosophy and Current Issues (for Local Students)	2	2	
	UHLM 1012	Malay Language 2 (for International Students)			
<b>Cluster 2: Generic Skills</b>					
1.	UHMT 1012	Graduate Success Attributes	2	2	
2.	UBSS 1032	Introduction to Entrepreneurship	2	2	
<b>Cluster 3: Knowledge Enhancement</b>					
1.	UHIT 2302	The Thought of Science and Technology	2	2	
<b>Cluster 4: Co-Curriculum and Service Learning</b>					
1.	UKQF 2**2	Elective of Co-Curricular Service Learning	2	2	
2.	UKQT 3001	Extracurricular Experiential Learning (ExCEL)	1	1	

<b>Cluster 5: Language Skills (Language Academy, Faculty of Social Sciences and Humanities)</b>					
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	
		<b>TOTAL CREDIT of UNIVERSITY GENERAL COURSES (c )</b>	<b>21</b>	<b>21</b>	
		<b>TOTAL CREDIT TO GRADUATE (a + b + c)</b>	<b>136</b>	<b>130</b>	
<b>OTHER COMPULSORY COURSES - PROFESSIONAL SKILLS CERTIFICATE (PSC).</b>					
<ul style="list-style-type: none"> <li>• Students are required to enrol and pass FIVE (5) PSC courses, in order to be eligible to graduate.</li> <li>• Please refer to page FE 8 in the UG Academic Handbook, for more information about PSC courses.</li> </ul>					
<b>COMPULSORY PSC COURSES (Enroll all 4 courses)</b>					
1	GSPX XXXX	Design Thinking for Entrepreneur			
2	GSPX XXXX	Talent and Competency Management			
3	GSPX XXXX	Faculty Engineering Safety Pass (FESP) <i>MODULE 1 - compulsory for SKM, SKT and SKE students</i> <i>MODULE 2 – compulsory for SKA, SC, SKBSK students</i>			
4	GSPX XXXX	English Communication Skills for Graduating Students (ECS)			
<b>ELECTIVE PSC COURSE (Choose 1 only)</b>					
1	GSPX XXXX	Data Analytics for Organization			
2	GSPX XXXX	Writing			
3	GSPX XXXX	Construction Measurement (Mechanical & Electrical Works)			
4	GSPX XXXX	Professional Ethics and Integrity			
5	GSPX XXXX	More elective courses to be added in future			