

GRADUATION CHECKLIST INTAKE 2019/2020

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 |
|--|-----------|--|---------------------|----------------------|-------------------|
| BACHELOR OF ENGINEERING (ELECTRICAL – MECHATRONICS) | | | | | |
| 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 nd 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 3 rd 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 rd 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 | Field Elective 1 | 3 | 3 | |
| 32. | SEE* 4**3 | Field Elective 2 | 3 | 3 | |
| 33. | SEE* 4**3 | Field Elective 3 | 3 | 3 | |
| 34. | SECP 1103 | C Programming Techniques | 3 | 3 | |
| 35. | SHMS 4542 | Engineering Management | 2 | 2 | |
| | | TOTAL CREDIT OF ENGINEERING COURSES(a) | 100 | 94 | |
| MATHEMATICS 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. | SSCE 2193 | Engineering Statistics | 3 | 3 | |

| | | | | | |
|---|------------------------------|---|-----------|-----------|--|
| 5. | SSCE 2393 | Numerical Methods | 3 | 3 | |
| | | TOTAL CREDIT OF MATHEMATICS COURSES (b) | 15 | 15 | |
| UNIVERSITY GENERAL COURSES | | | | | |
| Kluster 1: Penghayatan Falsafah, Nilai & Sejarah | | | | | |
| 1. | UHMS 1182 | Penghayatan Etika dan Peradaban (Local Students) | 2 | 2 | |
| | UHIS 1022 OR UHMS 1182 | Falsafah dan Isu Semasa OR Penghayatan Etika dan Peradaban (International Students) | | | |
| 2. | UHIS 1022 | Falsafah dan Isu Semasa (Local Students) | 2 | 2 | |
| | UHLM 1012 | Malay Language for Communication 2 (International Students) | | | |
| Kluster 2: Kemahiran Insaniah (Soft Skills) | | | | | |
| 1. | UHMT 1012 | Graduate Success Attributes | 2 | 2 | |
| Kluster 3: Perluasan Ilmu | | | | | |

| | | | | | |
|---|-----------|---|------------|------------|--|
| 1. | UHIT 2302 | Science and Technology Thinking | 2 | 2 | |
| Kluster 4: Kurikulum Pembelajaran Servis | | | | | |
| 1. | UKQF 2**2 | Elective of Co-Curricular Service Learning | 2 | 2 | |
| 2. | UKQT 3001 | Extracurricular Experiential Learning (ExCEL) | 1 | 1 | |
| Kluster 5: Kemahiran Bahasa (Language Skill) | | | | | |
| 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 | |
| Kluster 5: Keusahawanan (Entrepreneurship) | | | | | |
| 1. | UBSS 1032 | Introduction to Entrepreneurship | 2 | 2 | |
| | | TOTAL CREDIT of UNIVERSITY GENERAL COURSES (c) | 21 | 21 | |
| | | TOTAL CREDIT TO GRADUATE (a + b + c) | 136 | 130 | |

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 | |