

GRADUATION CHECKLIST

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 | | |
| 2 | UHAW6023 | Falsafah Sains dan Pembangunan Sosial | | 3 | | |
| 3 | UHAF6033 | Kepimpinan Dinamik | | 3 | | |
| 4 | UHAZ6113 | Budaya Malaysia I | | 3 | | |
| 5 | UHAZ6123 | Budaya Malaysia II | | 3 | | |
| 6 | UHAZ6313 | Bahasa Malaysia Akademik I | | 3 | | |
| 7 | UHAZ6323 | Bahasa Malaysia Akademik II | | 3 | | |
| 8 | UDPE1123 | Organizational Behavior dan Development | | 3 | | |
| 9 | UCSM1263 | Pengurusan Projek IT | | 3 | | |
| 10 | ULAJ6013 | Japanese Language for Postgraduates | | 3 | | |
| TOTAL CREDIT OF UNIVERSITY ELECTIVE | | | | 3 | 3 | |
| PROGRAMME CORE COURSES | | | | | | |
| 1 | MKKB1103 | Biotechnology for Engineers | | 3 | | |
| 2 | MKKB1113 | Industrial Bioprocessing | | 3 | | |
| 3 | MKKB1123 | Facilities and Infrastructures in Bioprocess Engineering | | 3 | | |
| 4 | MKKB1133 | Bioproduct Development | | 3 | | |
| 5 | UKKP0013 | Research Methodology | | 3 | | |
| TOTAL CREDIT OF PROGRAM CORE | | | | 15 | 15 | |

| PROGRAMME ELECTIVE COURSES*(Choose 1) | | | | | |
|---|--------------|---|-----------|-----------|--|
| 1 | MKKT102 3 | Herbal Quality Management | 3 | 3 | |
| 2 | MKKT103 3 | Herbal Processing | 3 | 3 | |
| 3 | MKKH13 73 | Human Factor | 3 | 3 | |
| 4 | MKKK151 3 | Advanced Transport Phenomena | 3 | 3 | |
| 5 | MKKH15 13 | Environmental Management | 3 | 3 | |
| 6 | MKKH15 23 | Pollution Control Technology | 3 | 3 | |
| 7 | MKKK161 3 | Energy Analysis and Management | 3 | 3 | |
| 8 | MKKK165 3 | Safety and Health in Process Industries | 3 | 3 | |
| 9 | MKKK168 3 | 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 | |
| <i>*The courses are offered subjected to availability of the courses for the particular semester in the School of Chemical and Energy Engineering</i> | | | | | |