# COHORT 2018/2019

## CURRICULUM STRUCTURE - BEKG

Students are required to keep record of their obtained grades for a given course as shown in Appendix B (Student Audit Form - BEKG) for graduation purpose.

# COMPULSORY FOR LOCAL STUDENTS ONLY
* COMPULSORY FOR INTERNATIONAL STUDENTS ONLY
** OPTIONAL

| TYPE COURSE | YEAR 1 | | | | YEAR 2 | | | |
|---|---|---|---|---|---|---|---|---|
| | SEMESTER 1 | SEMESTER BREAK | SEMESTER 2 | LONG SEMESTER BREAK | SEMESTER 3 | SEMESTER BREAK | SEMESTER 4 | LONG SEMESTER BREAK |
| COMMON CORE & PROGRAM CORE (P) | BMFG 1313 ENGINEERING MATHEMATICS I | | BMCG 1013 DIFFERENTIAL EQUATIONS | | BEKG 2443 ENGINEERING MATHEMATICS II | | BENG 2143 ENGINEERING STATISTICS | |
| | BITG 1233 COMPUTER PROGRAMMING | | BENG 1413 DIGITAL ELECTRONICS | | BMCG 1523 ENGINEERING GRAPHICS AND CAD | | BMCG 2432 INTRODUCTION TO MECHANICAL ENGINEERING | |
| | BEKG 1123 PRINCIPLES OF ELECTRIC AND ELECTRONICS | | BEKG 1233 PRINCIPLES OF INSTRUMENTATION AND MEASUREMENT | | BEKU 2333 ELECTRIC CIRCUIT II | | BEKG 2433 ELECTRICAL SYSTEMS | |
| | BMFG 1213 ENGINEERING MATERIALS | | BEKU 1123 ELECTRIC CIRCUIT I | | BEKE 2333 ANALOGUE ELECTRONICS | | BEKP 2453 ELECTROMAGNETIC THEORY | |
| | BEKB 1131 ENGINEERING PRACTICE I | | | | BEKC 2433 SIGNAL & SYSTEMS | | BEKC 2453 COMMUNICATION SYSTEMS | |
| | | | BEKB 1231 ENGINEERING PRACTICE II | | BEKB 2331 ELECTRICAL ENGINEERING LABORATORY I | | BEKB 2431 ELECTRICAL ENGINEERING LABORATORY II | |
| CREDIT HOUR SEMESTER | 13 | | 13 | | 16 | | 15 | |
| ELECTIVE (E) | BLHL 1XX2 ELECTIVE I (UNIVERSITY) | | | | | | | |
| | | | | | | | | |
| CREDIT HOUR SEMESTER | 2 | | | | | | | |
| UNIVERSITY REQUIREMENTS (W) | BKKX XXX1 CO-CURRICULUM I | | BKKX XXX1 CO-CURRICULUM II | | BLHW 2452 ACADEMIC WRITING | | #BLHW 2712 ETHNIC RELATIONS<br>*BLHW 2752 MALAYSIAN CULTURE | |
| | | | #BLHW 1702 TITAS<br>*BLHW 1742 MALAYSIAN STUDIES | | ** BKKX XXX1 CO-CURRICULUM (SUKSIS) | | | |
| | | | BLHW 1442 ENGLISH FOR ACADEMIC PURPOSE | | | | ** BKKX XXX1 CO-CURRICULUM (SUKSIS) | |
| CREDIT HOUR SEMESTER | 1 | | 5 | | 2 | | 2 | |
| TOTAL CREDIT HOUR SEMESTER | 16 | | 18 | | 18 | | 17 | |

| TYPE COURSE | YEAR 3 | | | | YEAR 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | SEMESTER 5 | | SEMESTER 6 | SPECIAL SEMESTER | SEMESTER 7 | | SEMESTER 8 | |
| COMMON CORE & PROGRAM CORE (P) | BEKE 3533 ELECTRICAL MACHINE | SEMESTER BREAK | BEKE 4753 ELECTRICAL DRIVES | BEKU 3695 INDUSTRIAL TRAINNING | BEKU 4861 ENGINEERING SEMINAR | SEMESTER BREAK | BENG 4322 ENGINEER AND SOCIETY | |
| | BEKC 3523 CONTROL SYSTEMS ENGINEERING | | BEKC 3663 INSTRUMENTATION AND CONTROL | | BEKU 4792 FINAL YEAR PROJECT I | | BEKU 4894 FINAL YEAR PROJECT II | |
| | BEKC 3543 MICROPROSESSOR | | BEKP 4883 HIGH VOLTAGE ENGINEERING | | BEKP 4843 RENEWABLE ENERGY | | BEKP 4853 ENERGY UTILLIZATION AND CONSERVATION | |
| | BEKE 3543 POWER ELECTRONICS | | BEKB 3673 INTEGRATED DESIGN PROJECT | | BMFG 4623 ENGINEERING ECONOMY AND MANAGEMENT | | | |
| | BEKP 4773 POWER SYSTEMS ANALYSIS | | BEKB 3551 ELECTRICAL ENGINEERING LABORATORY III | | | | | |
| CREDIT HOUR SEMESTER | 15 | | 13 | 5 | 9 | | 9 | 108 |
| ELECTIVE (E) | | | BEKX XXX3 ELECTIVE I (PROGRAM) | | BXXX XXX2 ELECTIVE II (UNIVERSITY) | | BEKX XXX3 ELECTIVE III (PROGRAM) | |
| | | | | | BEKX XXX3 ELECTIVE II (PROGRAM) | | | |
| CREDIT HOUR SEMESTER | | | 3 | | 5 | | 3 | 13 |
| UNIVERSITY REQUIREMENTS (W) | BLHW 3462 ENGLISH FOR PROFESSIONAL INTERACTION | | | | | | BTMW 4012 ENTERPRENEUR-SHIP TECHNOLOGY | |
| CREDIT HOUR SEMESTER | 2 | | | | | | 2 | 14 |
| TOTAL CREDIT HOUR | 17 | | 16 | 5 | 14 | | 14 | 135 |

i. ***CHOOSE THREE (3) COURSES FROM ELECTIVE PROGRAM
ii. CHOOSE ONE (1) COURSE FROM THIRD LANGUAGE
iii. CHOOSE ONE (1) COURSE FROM GENERAL UNIVERSITY

| | | | | | |
|---|---|---|---|---|---|
| ELECTIVE PROGRAM | INDUSTRIAL POWER | BEKP 3683 DISTRIBUTION SYSTEM DESIGN | BEKP 4873 POWER SYSTEM PROTECTION | | |
| | CONTROL, INSTRUMENTATION & AUTOMATION | BEKC 3673 INDUSTRIAL CONTROL AND AUTOMATION | BEKC 4773 INTELLIGENT CONTROL SYSTEMS | BEKC 4683 DIGITAL CONTROL SYSTEMS | BEKM 4863 INDUSTRIAL ROBOTICS |
| | POWER ELECTRONICS & DRIVES | BEKE 3673 INDUSTRIAL POWER ELECTRONICS | BEKE 3663 POWER ELECTRONICS SYSTEM | BEKE 4763 MODERN ELECTRICAL DRIVES | BEKE 4873 ELECTRIC MACHINE DESIGN |
| ELECTIVE UNIVERSITY | I THIRD LANGUAGE | BLHL 1212 BAHASA MANDARIN 1 | BLHL 1612 BAHASA KOREA 1 | BLHL 1112 BAHASA ARAB 1 | BLHL 1412 BAHASA JERMAN 1 |
| | | BLHL 1312 BAHASA JEPUN 1 | *BLHL 1012 BAHASA MELAYU KOMUNIKASI 1 | | |
| | II GENERAL | BXXX XXX2 PEMIKIRAN KRITIS DAN KREATIF | BXXX XXX2 KOMUNIKASI ORGANISASI | BXXX XXX2 PSIKOLOGI INDUSTRI DAN ORGANISASI | BXXX XXX2 KEMAHIRAN PERUNDINGAN |
| | | BXXX XXX2 FALSAFAH SAINS DAN TEKNOLOGI | BXXX XXX2 SOSIOLOGI INDUSTRI | | |

*** Subjected to the courses offer by the faculty in the current semester

# EQUIVALENT CODE AND PRE-REQUISITE - BEKG

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# COMPULSORY FOR LOCAL STUDENTS ONLY
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** OPTIONAL

| SEMESTER | CODE | COURSE | CATEGORY | CREDIT HOUR | EQUIVALENT CODE | PRE-REQUISITE |
|---|---|---|---|---|---|---|
| SEMESTER 1 | BLHL 1XX2 | ELECTIVE I (UNIVERSITY) | W | 2 | | |
| | BKKX XXX1 | CO-CURRICULUM I | W | 1 | | |
| | BMFG 1313 | ENGINEERING MATHEMATICS I | P | 3 | | |
| | BITG 1233 | COMPUTER PROGRAMMING | P | 3 | | |
| | BEKG 1123 | PRINCIPLES OF ELECTRIC AND ELECTRONICS | P | 3 | | |
| | BMFG 1213 | ENGINEERING MATERIALS | P | 3 | | |
| | BEKB 1131 | ENGINEERING PRACTICE I | P | 1 | | |
| | | | **TOTAL** | **16** | | |
| SEMESTER 2 | #BLHW 1702 *BLHW 1742 | TITAS MALAYSIAN STUDIES | W | 2 | | |
| | BLHW 1442 | ENGLISH FOR ACADEMIC PURPOSE | W | 2 | | |
| | BKKX XXX1 | CO-CURRICULUM II | W | 1 | | |
| | BMCG 1013 | DIFFERENTIAL EQUATIONS | P | 3 | | |
| | BENG 1413 | DIGITAL ELECTRONICS | P | 3 | | |
| | BEKG 1233 | PRINCIPLES OF INSTRUMENTATION AND MEASUREMENT | P | 3 | | |
| | BEKU 1123 | ELECTRIC CIRCUIT I | P | 3 | | |
| | BEKB 1231 | ENGINEERING PRACTICE II | P | 1 | | |
| | | | **TOTAL** | **18** | | |
| SEMESTER 3 | BLHW 2452 | ACADEMIC WRITING | W | 2 | | |
| | BEKG 2443 | ENGINEERING MATHEMATICS II | P | 3 | | |
| | BMCG 1523 | ENGINEERING GRAPHIC AND CAD | P | 3 | | |
| | BEKU 2333 | ELECTRIC CIRCUIT II | P | 3 | | |
| | BEKE 2333 | ANALOGUE ELECTRONICS | P | 3 | | |
| | BEKC 2433 | SIGNAL & SYSTEMS | P | 3 | | |
| | BEKB 2331 | ELECTRICAL ENGINEERING LAB I | P | 1 | | |
| | | | **TOTAL** | **18** | | |
| SEMESTER 4 | #BLHW 2712 *BLHW 2752 | ETHNIC RELATIONS MALAYSIAN CULTURE | W | 2 | | |
| | BENG 2143 | ENGINEERING STATISTICS | P | 3 | | |
| | BEKG 2433 | ELECTRICAL SYSTEMS | P | 3 | | |
| | BMCG 2432 | INTRODUCTION TO MECHANICAL ENGINEERING | P | 3 | | |
| | BEKC 2453 | COMMUNICATION SYSTEMS | P | 3 | | |
| | BEKP 2453 | ELECTROMAGNETIC THEORY | P | 2 | | |
| | BEKB 2431 | ELECTRICAL ENGINEERING LAB II | P | 1 | | |
| | | | **TOTAL** | **17** | | |
| SEMESTER 5 | BLHW 3462 | ENGLISH FOR PROFESSIONAL INTERACTION | W | 2 | | |
| | BEKE 3533 | ELECTRICAL MACHINE | P | 3 | | |
| | BEKC 3523 | CONTROL SYSTEMS ENGINEERING | P | 3 | | |

| SEMESTER | CODE | COURSE | CATEGORY | CREDIT HOUR | EQUIVALENT CODE | PRE-REQUISITE |
|---|---|---|---|---|---|---|
| | BEKC 3543 | MICROPROCESSOR | P | 3 | | |
| | BEKE 3543 | POWER ELECTRONICS | P | 3 | | |
| | BEKP 4773 | POWER SYSTEMS ANALYSIS | P | 3 | | |
| | | | **TOTAL** | **17** | | |
| **SEMESTER 6** | BEKX XXX3 | ELECTIVE I (PROGRAM) | P | 3 | | |
| | BEKE 4753 | ELECTRICAL DRIVES | P | 3 | | |
| | BEKC 3663 | INSTRUMENTATION AND CONTROL | P | 3 | | |
| | BEKP 4883 | HIGH VOLTAGE ENGINEERING | P | 3 | | |
| | BEKB 3673 | INTEGRATED DESIGN PROJECT | P | 3 | | |
| | BEKB 3551 | ELECTRICAL ENGINEERING LABORATORY III | P | 1 | | |
| | | | **TOTAL** | **16** | | |
| **SPECIAL SEMESTER** | BEKU 3695 | INDUSTRIAL TRAINING | P | 5 | | |
| | | | **TOTAL** | **5** | | |
| **SEMESTER 7** | BMFG 4623 | ENGINEERING ECONOMY AND MANAGEMENT | P | 3 | | |
| | BEKU 4861 | ENGINEERING SEMINAR | P | 1 | | |
| | BEKU 4792 | FINAL YEAR PROJECT I | P | 2 | | |
| | BEKP 4843 | RENEWABLE ENERGY | P | 3 | | |
| | BXXX XXX2 | ELECTIVE II (UNIVERSITY) | E | 2 | | |
| | BEKX XXX3 | ELECTIVE II (PROGRAM) | E | 3 | | |
| | | | **TOTAL** | **15** | | |
| **SEMESTER 8** | BTMW 4012 | ENTERPRENEURSHIP TECHNOLOGY | W | 2 | | |
| | BENG 4322 | ENGINEER AND SOCIETY | P | 2 | | |
| | BEKU 4894 | FINAL YEAR PROJECT II | P | 4 | | BEKU 4792 |
| | BEKP 4853 | ENERGY UTILLIZATION AND CONSERVATION | P | 3 | | |
| | BEKX XXX3 | ELECTIVE III (PROGRAM) | E | 3 | | |
| **TOTAL** | | | | **14** | | |
| **MINIMUM TOTAL CREDIT** | | | | **135** | | |