

PROGRAMME STRUCTURE FOR DIPLOMA IN MECHANICAL ENGINEERING

| COMPONENTS | COURSE CODE | COURSE | CON | AC | CURS | CRED |
|-------------------|-------------|---|-----------|----|------|-----------|
| SEMESTER 1 | | | | | | |
| Compulsory | DUB1012 | Pengajian Malaysia | 1 | 0 | 2 | 2 |
| | DUE1012 | Communicative English 1 | 1 | 0 | 2 | 2 |
| | DRB1XX0 | Asas Unit Beruniform | 0 | 2 | 0 | 0 |
| Common Core | DUW1012 | Occupational, Safety and Health | 2 | 0 | 0 | 2 |
| | DBM1013 | Engineering Mathematics 1 | 2 | 0 | 2 | 3 |
| | DBS1012 | Engineering Science | 2 | 1 | 0 | 2 |
| Discipline Core | DJJ1012 | Engineering Drawing | 1 | 2 | 0 | 2 |
| | DJJ1032 | Mechanical Workshop Practice 1 | 0 | 4 | 0 | 2 |
| | DJJ1043 | Workshop Technology | 3 | 0 | 0 | 3 |
| | | TOTAL | 27 | | | 18 |
| SEMESTER 2 | | | | | | |
| Compulsory | DUA2012 | Sains, Teknologi dan Kejuruteraan Dalam Islam * | 1 | 0 | 2 | 2 |
| | DUB2012 | Nilai Masyarakat Malaysia ** | 1 | 0 | 2 | 2 |
| | DRS2XX1 | Sukan | 0 | 2 | 0 | 1 |
| | DRB2XX1 | Unit Beruniform 1 | 0 | 2 | 0 | 1 |
| Common Core | DBM2013 | Engineering Mathematics 2 | 2 | 0 | 2 | 3 |
| Discipline Core | DJJ2022 | Electrical Technology | 2 | 2 | 0 | 2 |
| | DJJ2032 | Mechanical Workshop Practice 2 | 0 | 4 | 0 | 2 |
| | DJJ2062 | Computer Aided Design 1 | 1 | 2 | 0 | 2 |
| | DJJ2073 | Thermodynamics | 2 | 2 | 0 | 3 |
| | DJJ2093 | Fluid Mechanics | 2 | 2 | 0 | 3 |
| | | TOTAL | 26 | | | 18 |
| SEMESTER 3 | | | | | | |
| Compulsory | DUE3012 | Communicative English 2 | 1 | 0 | 2 | 2 |
| | DRK3XX2 | Kelab/Persatuan | 0 | 4 | 0 | 2 |
| | DRB3XX2 | Unit Beruniform 2 | 0 | 4 | 0 | 2 |
| Common Core | DBM3013 | Engineering Mathematics 3 | 2 | 0 | 2 | 3 |
| Discipline Core | DJJ3032 | Mechanical Workshop Practice 3 | 0 | 4 | 0 | 2 |
| | DJJ3053 | Engineering Mechanics | 2 | 2 | 0 | 3 |
| | DJJ3103 | Strength of Materials | 2 | 2 | 0 | 3 |
| | DJJ3213 | Material Science | 2 | 2 | 0 | 3 |
| | | TOTAL | 23 | | | 18 |
| SEMESTER 4 | | | | | | |
| | DUT40110 | Industrial Training | 0 | 0 | 0 | 10 |
| | | | 0 | | | 10 |
| SEMESTER 5 | | | | | | |
| Compulsory | DUE5012 | Communicative English 3 | 1 | 0 | 2 | 2 |
| Discipline Core | DJJ5032 | Mechanical Workshop Practice 4 | 0 | 4 | 0 | 2 |
| | DJJ5113 | Mechanics of Machines | 2 | 2 | 0 | 3 |
| | DJJ5123 | Pneumatic and Hydraulic | 2 | 2 | 0 | 3 |
| | DJJ5133 | Engineering Design | 3 | 0 | 0 | 3 |
| | DJJ5141 | Project 1 | 0 | 2 | 0 | 1 |
| Elective | | Elective *** | 1 | 2 | 0 | 2 |
| | DJJ5062 | Computer Aided Design 2 | 1 | 2 | 0 | 2 |
| | DJJ5172 | Instrumentation and Control | 1 | 2 | 0 | 2 |
| | DJM5072 | Control System | 2 | 1 | 0 | 2 |
| | | TOTAL | 23 | | | 16 |

| SEMESTER 6 | | | | | | |
|-----------------|----------------------|--|-----------|---|---|-----------|
| Compulsory | DUA6022 | Komunikasi dan Penyiaran Islam | 1 | 0 | 2 | 2 |
| Common Core | DPB2012 | Entrepreneurship | 2 | 1 | 0 | 2 |
| Discipline Core | DJJ6143 | Project 2 | 0 | 4 | 0 | 3 |
| | DJJ6153 | Mechanical Components and Maintenance | 2 | 2 | 0 | 3 |
| | DJJ6162 | Maintenance Engineering and Management | 2 | 0 | 0 | 2 |
| Elective | | Elective*** | 2 | 0 | 0 | 2 |
| | DJJ6202 | Diagnosis and Troubleshooting For Mechanical Component | 1 | 2 | 0 | 2 |
| | DJF6102 | Quality Control | 2 | 0 | 0 | 2 |
| | DJJ6182 | Engineering Plant Technology | 2 | 0 | 0 | 2 |
| | DJJ6192 | Industrial Management | 2 | 0 | 0 | 2 |
| | DJM1022 | C Programming | 1 | 3 | 0 | 2 |
| | DJM3082 | Programmable Logic Control | 1 | 2 | 0 | 2 |
| | DUA6042 | Tamadun Islam | 2 | 0 | 1 | 2 |
| | DUA6012 | Integrasi Malaysia | 1 | 0 | 2 | 2 |
| DBC2012 | Computer Application | 1 | 2 | 0 | 2 | |
| TOTAL | | | 18 | | | 14 |

| | Total Credit | % |
|------------------------|--------------|-------------|
| i. Compulsory | 15 | 16% |
| ii. Common Core | 15 | 16% |
| iii. Discipline Core | 50 | 53% |
| iv. Elective | 4 | 4% |
| v. Industrial Training | 10 | 11% |
| TOTAL CREDIT | 94 | 100% |

| | Total | % |
|------------------------------------|-------|----|
| i. Lecture | 49 | 42 |
| ii. Practical (Practical+Tutorial) | 68 | 58 |
| iii. Contact Hours | 117 | - |

Legend / Notes:

L : Lecture, P : Practical/Lab, T : Tutorial, C : Credit

(The numbers indicated under L, P & T represent the contact hours per week, to be used as a guide for time table preparation)

* For Muslim Students

** For Non Muslim Students

*** Students are required to complete a minimum of four credits of elective course

For Co-curriculum

1. Path 1 : Sport and Club
2. Path 2 : Uniform Unit

Uniform Unit (Students who choose Uniform Unit are required to complete 5 modules for commissioning)

1. DRB1XX0 (Asas Unit Beruniform) is a prerequisite to DRB2xx1 (Unit Beruniform 1).
2. DRB2XX1 and DRB3XX2 are graded.
3. DRB5XX0 and DRB6XX0 are optional, non-graded and audited courses with full assessment. Upon completion, students are entitled for commissioning.