

**PUSAT PENGAJIAN KEJURUTERAAN MEKANIK**  
**[SCHOOL OF MECHANICAL ENGINEERING]**  
**SENARAI PENAWARAN KURSUS [KEJURUTERAAN MEKANIK]**  
**[LIST OF COURSES OFFERED MECHANICAL ENGINEERING]**  
**SEMESTER 1, SIDANG AKADEMIK 2025/2026**  
**[SEMESTER 1, ACADEMIC SESSION 2025/2026]**

| Bil.                       | Kod Kursus | Tajuk Kursus                                                                                 | Staf Akademik                                                                                                                                                                                                                                                              | % Kerja Kursus | % Pep | Asas-asas Menilai Kerja Kursus                                                                       | Jenis/ Unit |
|----------------------------|------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------|------------------------------------------------------------------------------------------------------|-------------|
| <b>PERINGKAT 100 (OBE)</b> |            |                                                                                              |                                                                                                                                                                                                                                                                            |                |       |                                                                                                      |             |
| 1.                         | EMD 111    | Lukisan Kejuruteraan dan Reka Bentuk Berbantuan Komputer<br>[Engineering Drawing & CAD]      | <b>Prof. Madya Ir. Dr. Abdus Samad Mahmud [CM]</b><br>Prof. Madya Dr. Mohd Salman Abu Mansor<br>Dr. Siti Nur Hanisah Umar<br>Ir. Dr. Mohd. Syakirin Rusdi<br>Dr. Mohamad Ikhwan Zaini Ridzwan Pensyarah<br>[PPK Aero]                                                      | 100            | -     | 30% Ujian<br>70% Tugas                                                                               | T2          |
| 2.                         | EML 101    | Amalan Kejuruteraan<br>[Engineering Practice]                                                | <b>Prof. Madya Ir. Dr. Abdus Samad Mahmud [CM]</b>                                                                                                                                                                                                                         | 100            | -     | 20% Ujian<br>80% Amali                                                                               | T2          |
| 3.                         | EMM 101    | Mekanik Kejuruteraan<br>[Engineering Mechanics]                                              | <b>Ir. Dr. Muhammad Iftishah Ramdan [CM]</b><br>Dr. Inzarulfaisham Abd Rahim<br>Dr. Ooi Lu Ean<br>Dr. Muhammad Fauzinizam Razali                                                                                                                                           | 40             | 60    | 20% Ujian<br>20% Tugas                                                                               | T3          |
| 4.                         | EUM 113    | Kalkulus Kejuruteraan<br>[Engineering Calculus]<br>(Ditawarkan oleh PPKEE)                   | <b>Prof. Madya Dr. Loh Wei Ping [CM]</b><br>Dr. Nur Hidayah Mansor<br>Pensyarah PPK EE                                                                                                                                                                                     | 30             | 70    | 10% Ujian<br>15% Tugas<br>5% Kuiz                                                                    | T3          |
| 5.                         | EMT 101    | Pengkomputeran Berangka<br>[Numerical Computing]                                             | <b>Dr. Nur Hidayah Mansor [CM]</b><br>Prof. Madya Dr. Yu Kok Hwa<br>Dr. Siti Nur Hanisah Umar                                                                                                                                                                              | 100            | -     | 30% Ujian<br>20% Tugas<br>20% Kuiz<br>30% Pengaturcaraan                                             | T2          |
| 6.                         | EBB 113    | Bahan Kejuruteraan<br>[Engineering Materials]<br>(Ditawarkan oleh PPKBSM)                    | Pensyarah PPKBSM                                                                                                                                                                                                                                                           | 30             | 70    | 15% Ujian<br>15% Tugas                                                                               | T3          |
| 7.                         | LKM 400    | Bahasa Malaysia IV<br>[Malay Language IV]<br>(Ditawarkan oleh PPBLT)                         | Pensyarah Pusat Bahasa                                                                                                                                                                                                                                                     | 40             | 60    | 15% Lisan<br>20% Karangan<br>5% Kefahaman                                                            | U2          |
| 8.                         | LKM 100    | Bahasa Malaysia I<br>[Malay Language I]<br>*Pelajar Antarabangsa*<br>(Ditawarkan oleh PPBLT) | Pensyarah Pusat Bahasa                                                                                                                                                                                                                                                     | 40             | 60    | 15% Lisan<br>20% Karangan<br>5% Kefahaman                                                            | U2          |
| 9.                         | WAR 122    | Integriti dan Anti Rasuah<br>(Ditawarkan oleh Pusat Ko-K)                                    | <b>Ir. Dr. Chan Keng Wai (Penyelaras PPKM)</b><br><br>Penyelia:<br>Prof. Madya Dr. Mohamad Yusof Idroas<br>Prof. Madya Ts. Dr. Mohd Sharizal Abd Aziz<br>Dr. Hasnida Ab Samat<br>Prof. Madya Ir. Dr. Mohd Azmi Ismail<br>Prof. Madya Dr. Yu Kok Hwa<br>Mr. Mohzani Mokhtar | 100            | -     | 40% Penglibatan dalam Perancangan<br>20% Pembentangan<br>10% Keadatangan<br>20% Laporan<br>10% Ujian | U2          |

| PERINGKAT 200 (OBE) |         |                                                                                     |                                                                                                                                                                                                                                                 |     |    |                                                       |    |
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| 10.                 | EMH 211 | Termodinamik<br>[Thermodynamics]                                                    | <b>Prof. Madya Dr. Teoh Yew Heng [CM]</b><br>Ir. Dr. Ahmad Fikri Mustafa<br>Mr. Abdul Yamin Saad                                                                                                                                                | 40  | 60 | 10% Kuiz<br>20% Ujian<br>10% Tutorial                 | T3 |
| 11.                 | EMM 213 | Kekuatan Bahan<br>[Strength of Materials]                                           | <b>Dr. Norwahida Yusoff [CM]</b><br>Prof. Dr. Zaidi Mohd Ripin<br>Dr. Siti Sarah Kamaluddin                                                                                                                                                     | 40  | 60 | 20% Ujian<br>20% Tugasan                              | T3 |
| 12.                 | EMT 211 | Kebarangkalian dan Statistik Kejuruteraan<br>[Engineering Probability & Statistics] | <b>Prof. Madya Dr. Loh Wei Ping [CM]</b><br>Dr. Ramdziah Md Nasir                                                                                                                                                                               | 40  | 60 | 15% Ujian<br>20% Tugasan<br>5% Kuiz                   | T3 |
| 13.                 | EMD 231 | Reka Bentuk Elemen Mesin<br>[Mechnine Element Design]                               | <b>Dr. Inzarulfaisham Abd Rahim [CM]</b><br>Dr. Mohamad Ikhwan Zaini Ridzwan<br>Dr. Muhammad Fauzinizam Razali                                                                                                                                  | 100 | -  | 30% Ujian<br>70% Tugasan                              | T3 |
| 14.                 | EPP 201 | Teknologi Pembuatan I<br>[Manufacturing Technology I]                               | <b>Prof. Madya Ir. Dr. Ahmad Baharuddin Abdullah [CM]</b><br>Dr. Anwar Ali Anshari<br>Dr. Mohammad Nishat (PPK Aero)                                                                                                                            | 40  | 60 | 20% Ujian<br>20% Tugasan/Kuiz                         | T3 |
| 15.                 | LSP 201 | B. Inggeris Akademik<br>[Academic English]<br>(Ditawarkan oleh PPBLT)               | Pensyarah Pusat Bahasa                                                                                                                                                                                                                          | 50  | 50 | 50% Kerja Kursus<br>50% Peperiksaan Akhir             | U2 |
| 16.                 | HFF 225 | Falsafah dan Ilmu Semasa [Philosophy and Current Affairs]                           | <b>Prof. Madya Dr. Teoh Yew Heng (Penyelaras PPKM)</b><br>Penyelia:<br>Mr. Abdul Yamin Saad<br>Prof Madya Dr Mohamad Yusof Idroas<br>Prof. Madya Ir. Dr. Mohd Azmi Ismail<br>Dr. Ing. Muhammad Razi Abdul Rahman<br>Ir. Dr. Ahmad Fikri Mustafa | 100 | -  | 30% Esei<br>30% Pembentangan<br>30% Ujian<br>10% Kuiz | U2 |
| PERINGKAT 300 (OBE) |         |                                                                                     |                                                                                                                                                                                                                                                 |     |    |                                                       |    |
| 17.                 | EMC 301 | Pengukuran dan Instrumentasi<br>[Measurement & Instrumentation]                     | <b>Dr. Norzalilah Mohd Nor [CM]</b><br>Prof. Madya Ir. Dr. Yen Kin Sam<br>Dr. Siti Sarah Kamaludin                                                                                                                                              | 40  | 60 | 15% Projek<br>10% Kuiz<br>15% Ujian                   | T3 |
| 18.                 | EMC 331 | Sistem Dinamik dan Kawalan [Syatem Dynamics and Control]                            | <b>Dr. Ahmad Syazwan Ahmad Kamal [CM]</b><br>Dr. Norzalilah Mohd Nor<br>Ir. Dr. Muhammad Iftishah Ramdan<br>Ts. Dr. Syamimi Binti Shamsuddin (IPPT)                                                                                             | 50  | 50 | 10% Tugasan<br>10% Kuiz<br>20% Ujian<br>10% Simulasi  | T3 |
| 19.                 | EMH 341 | Termodinamik Gunaan<br>[Applied Thermodynamics]                                     | <b>Dr. Khairil Faizi Mustafa [CM]</b><br>Prof. Ir. Dr. Mohd Zulkifly Abdullah<br>Prof. Madya Ir. Dr. Mohd Azmi Ismail                                                                                                                           | 40  | 60 | 20% Ujian<br>20% Tugasan                              | T3 |

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| 20.                        | EML 351 | Makmal Kejuruteraan I<br>[Engineering Laboratory I]                                                     | <b>Dr. Norwahida Yusoff [CM]</b><br>Ir. Dr Chan Keng Wai<br>Prof. Ir. Dr. Mohd Zulkifly Abdullah<br>Prof. Madya Ir. Dr. Mohd Azmi Ismail<br>Dr. Ooi Lu Ean<br>Prof. Madya Dr. Yu Kok Hwa<br>Dr. Nur Hidayah Mansor<br>Mr. Abdul Yamin Saad<br>Dr. Siti Nur Hanisah Umar<br>Prof. Madya Dr. Khaled Ali Mohammad Al-Attab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 100 | -  | 30% Ujian<br>70% Laporan                    | T2 |
| 21.                        | EMM 331 | Mekanik Pepejal [Solid Mechanics]                                                                       | <b>Ir. Dr. Feizal Yusof [CM]</b><br>Prof. Madya Dr. Abdullah Aziz Saad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 40  | 60 | 20% Ujian<br>20% Tugasan                    | T3 |
| 22.                        | EPP 331 | Teknologi Pembuatan II<br>[Manufacturing Technology II]                                                 | <b>Dr. Nurul Farhana Mohd Yusof [CM]</b><br>Prof. Madya Dr. Mohamad Yusof Idroas<br>Prof. Madya Dr. Ahmad Zhafran Ahmad Mazlan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 40  | 60 | 20% Ujian<br>20% Tugasan                    | T4 |
| 23.                        | LSP 404 | B. Inggeris Teknikal dan Kejuruteraan<br>[Technical and Engineering English]<br>(Ditawarkan oleh PPBLT) | Pensyarah Pusat Bahasa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 50  | 50 | 50% Kerja Kursus<br>50% Peperiksaan Akhir   | U2 |
| <b>PERINGKAT 400 (OBE)</b> |         |                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |    |                                             |    |
| 24.                        | EMD 431 | Projek Capstone Kejuruteraan Mekanik<br>[Mechanical Engineering Integrated Design]                      | <b>Ir. Dr. Ahmad Fikri Mustafa [CM]</b><br>Penyelia:<br>Prof. Madya Dr. Yu Kok Hwa<br>Ir. Dr. Feizal Yusof<br>Ir. Dr. Chan Keng Wai<br>Dr. Inzarulfaisham Abd Rahim<br>Prof. Dr. Mohamad Aizat Abas<br>Dr. Mohamad Ikhwan Zaini Ridzwan<br>Dr. Ooi Lu Ean<br>Dr. Nurul Farhana Mohd Yusof<br>Prof. Madya Dr. Teoh Yew Heng<br>Prof. Dr. Zaidi Mohd Ripin<br><br>Pemeriksa:<br>Prof. Ir. Dr. Mohd Zulkifly Abdullah<br>Prof. Madya Dr. Mohamad Yusof Idroas<br>Prof. Madya Dr. Ahmad Zhafran Ahmad Mazlan<br>Prof. Madya Ts. Dr. Mohd Sharizal Abd Aziz<br>Dr. Khairil Faizi Mustafa<br>Mr. Abdul Yamin Saad<br>Ir. Dr. Muhammad Iftishah Ramdan<br>Dr. Nur Hidayah Mansor<br>Prof. Madya Ir. Dr. Mohd Azmi Ismail<br>Prof. Madya Ir. Dr. Abdus Samad Mahmud<br>Prof. Madya Dr. Khaled Ali Mohammad Al'Attab | 100 | -  | 40% Pembentangan<br>40% Laporan<br>20% Viva | T4 |

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| 25. | EMD 461 | Projek Tahun Akhir 1<br>(Final Year Project 1)                                                | <b>Dr. Muhammad Fauzinizam Razali [CM]</b><br>Prof. Ir. Dr. Mohd Zulkifly Abdullah<br>Prof. Dr. Zaidi Mohd Ripin<br>Prof. Madya Dr. Abdullah Aziz Saad<br>Prof. Madya Dr. Mohamad Yusof Idroas<br>Prof. Madya Ir. Dr. Abdus Samad Mahmud<br>Prof. Madya Dr. Loh Wei Ping<br>Prof. Dr. Mohamad Aizat Abas<br>Prof. Madya Ts. Dr. Mohd. Sharizal Abdul Aziz<br>Prof. Madya Dr. Teoh Yew Heng<br>Ir. Dr. Chan Keng Wai<br>Ir. Dr. Feizal Yusof<br>Prof. Madya Ir. Dr. Mohd Azmi Ismail<br>Ir. Dr. Ahmad Fikri Mustafa<br>Ir. Dr. Mohd. Syakirin Rusdi<br>Mr. Abdul Yamin Saad<br>Prof. Madya Dr. Ahmad Zhafran Ahmad Mazlan<br>Dr. Inzarulfaisham Abd. Rahim<br>Dr. Khairil Faizi Mustafa<br>Prof. Madya Dr. Khaled Ali Mohammad Al'Attab<br>Dr. Mohamad Ikhwan Zaini Ridzuan<br>Ir. Dr. Muhammad Iftishah Ramdan<br>Dr.-Ing. Muhammad Razi Abdul Rahman<br>Dr. Ooi Lu Ean<br>Prof. Madya Dr. Yu Kok Hwa<br>Dr. Nurul Farhana Mohd Yusof<br>Dr. Nur Hidayah Mansor<br>Dr. Norwahida Yusoff<br>Dr. Siti Sarah Kamaluddin<br>Dr. Siti Nur Hanisah Umar | 100 | -  | 100% Disertasi                                     | T2 |
| 26. | EMT 302 | Pemodelan Matematik<br>di Dalam Kejuruteraan<br>[Mathematical<br>Modelling In<br>Engineering] | <b>Prof. Dr. Mohamad Aizat Abas [CM]</b><br>Dr.-Ing. Muhammad Razi Abdul Rahman                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 100 | -  | 30% Ujian<br>20% Tugasan<br>20% Kuiz<br>30% Projek | T3 |
| 27. | EME 411 | Kaedah Berangka<br>untuk Jurutera<br>[Numerical Methods for<br>Engineers]                     | <b>Dr.-Ing. M. Razi Abdul Rahman [CM]</b><br>Prof. Dr. Mohamad Aizat Abas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100 |    | 45% Ujian<br>5% Kuiz<br>30% Projek<br>20% Tugasan  | E3 |
| 28. | EME 431 | Penyejukan &<br>Penyamanan Udara<br>[Refrigeration and Air<br>Conditioning]                   | <b>Ir. Dr. Chan Keng Wai [CM]</b><br>Prof. Madya Dr. Khaled Ali Mohammad Al-Attab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 50  | 40 | 20% Ujian<br>25% Tugasan<br>5% Kuiz                | E3 |
| 29. | EME 451 | Pengkomputaran<br>Dinamik Bendalir<br>[Computational Fluid<br>Dynamics]                       | <b>Prof. Madya Ts. Dr. Mohd Sharizal Abd. Aziz [CM]</b><br>Prof. Dr. Farzad Ismail (PPK Aero)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 100 | -  | 50% Ujian<br>30% Tugasan<br>20% Projek             | E3 |
| 30. | EML 451 | Latihan Industri<br>[Industrial Training]                                                     | <b>Ir. Dr. Mohd. Syakirin Rusdi [CM]</b><br>Pensyarah PPKM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 100 | -  | 100% Laporan                                       | T5 |
| 31. | EPC 451 | Robotik dan Kilang<br>Pintar<br>[Robotic and Smart<br>Factory]                                | <b>Dr. Norzalilah Mohd Nor [CM]</b><br>Ir. Dr. Abdul Haadi Abdul Manap<br>Ir. Ts. Dr. Muhammad Hafiz Hassan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 40  | 60 | 10% Ujian<br>30% Tugasan/Projek                    | E3 |
| 32. | EPE 461 | Penglihatan Mesin<br>Industri<br>[Industrial Machine<br>Vision]                               | <b>Prof. Madya Ir. Dr. Yen Kin Sam [CM]</b><br>Ir. Ts. Dr. Muhammad Hafiz Hasan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 40  | 60 | 10% Ujian<br>30% Tugasan                           | E3 |
| 33. | EPM 331 | Pengurusan dalam<br>Kejuruteraan<br>[Management in<br>Engineering]                            | <b>Dr. Hasnida Ab Samat [CM]</b><br>Ir. Dr. Nur Amalina Muhammad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 40  | 60 | 10% Ujian<br>15% Tugasan<br>15% Penulisan          | E2 |

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| 34. | EBB 324 | Pakej Elektronik<br><i>[Electronic Packaging]</i>                                                                                   | <b>Profesor Ir. Dr. Mariatti Jaafar @ Mustapha [CM]</b><br>Ir. Ts. Dr. Muhamed Abdul Fatah Muhamed Mukhtar<br>Ir. Dr. Mohamad Riduwan Ramli<br>Profesor Madya Dr. Abdullah Aziz Saad<br>Ir. Dr. Mohd. Syakirin Rusdi<br>Dr. Nor Azlin Binti Ghazali<br>Ts. Dr. Nur Zatil 'ismah Binti Hashim<br>Ts. Dr. Siti Fatimah Binti Abd Rahman | 100 | - | TBC                                     | E3 |
| 35. | LSP 404 | B. Inggeris Teknikal dan<br>Kejuruteraan <i>Technical</i><br><i>and</i><br><i>Engineering English</i><br>(Ditawarkan oleh<br>PPBLT) | Pensyarah Pusat Bahasa                                                                                                                                                                                                                                                                                                                | 100 | - | 30% Tugas<br>30% Penulisan<br>40% Lisan | U2 |

**Dikemaskini: 24.09.2025**