

**SEBARAN MATA KULIAH KURIKULUM 2021**  
**PRODI TEKNIK MESIN**

| No                          | Kode     | Nama Mata Kuliah                            | Beban     |
|-----------------------------|----------|---------------------------------------------|-----------|
| <b>SEMESTER 1</b>           |          |                                             |           |
| 1                           | MWU51101 | Agama Islam                                 | 2         |
| 2                           | MWU51102 | Pancasila                                   | 2         |
| 4                           | MWP51101 | Fisika I                                    | 3         |
| 5                           | MWP51102 | Kimia                                       | 3         |
| 6                           | MWP51103 | Kalkulus Diferensial                        | 3         |
| 7                           | MWP51104 | Biologi                                     | 2         |
| 8                           | MWP51105 | Gambar Teknik                               | 3         |
| 9                           | MWP51106 | Pemrograman Komputer                        | 2         |
| <b>Total sks semester 1</b> |          |                                             | <b>20</b> |
| <b>SEMESTER 2</b>           |          |                                             |           |
| 1                           | MWU51203 | Kewarganegaraan                             | 2         |
| 2                           | MWU51204 | Bahasa Indonesia                            | 2         |
| 3                           | MWU51205 | Akhlaq dan Muamalah                         | 2         |
| 4                           | MWP51207 | Fisika II                                   | 3         |
| 5                           | MWP51208 | Praktikum Fisika                            | 1         |
| 6                           | MWP51209 | Kalkulus Integral                           | 3         |
| 7                           | MWP51210 | <i>English for Mechanical Engineering</i>   | 2         |
| 8                           | MWP51211 | Gambar Mesin                                | 2         |
| 9                           | MWP51212 | Material Teknik                             | 3         |
| <b>Total sks semester 2</b> |          |                                             | <b>20</b> |
| <b>SEMESTER 3</b>           |          |                                             |           |
| 1                           | MWU51106 | Kemuhammadiyahan                            | 2         |
| 2                           | MWP51113 | Matematika Teknik                           | 3         |
| 3                           | MWP51114 | Statistik                                   | 3         |
| 4                           | MWP51115 | Pengukuran Teknik                           | 3         |
| 5                           | MWP51116 | Termodinamika I                             | 3         |
| 6                           | MWP51117 | Mekanika Fluida I                           | 3         |
| 7                           | MWP51118 | Metalurgi                                   | 2         |
| 8                           | MWP51119 | Praktikum Uji Material                      | 1         |
| <b>Total sks semester 3</b> |          |                                             | <b>20</b> |
| <b>SEMESTER 4</b>           |          |                                             |           |
| 1                           | MWU51207 | Islam dan Ilmu Pengetahuan                  | 2         |
| 2                           | MWP51220 | Metode Penelitian                           | 2         |
| 3                           | MWP51221 | Pengecoran dan Pengelasan Logam + Praktikum | 3         |
| 4                           | MWP51222 | CAD-CAM & Praktikum                         | 3         |
| 5                           | MWP51223 | Termodinamika II                            | 3         |
| 6                           | MWP51224 | Mekanika Fluida II                          | 3         |
| 7                           | MWP51225 | Statika Struktur                            | 3         |
| <b>Total sks semester 4</b> |          |                                             | <b>19</b> |
| <b>SEMESTER 5</b>           |          |                                             |           |
| 1                           | MWP51126 | Metode Numerik                              | 2         |
| 2                           | MWP51127 | Praktikum Fenomena Dasar Mesin              | 1         |
| 3                           | MWP51128 | Mesin Konversi Energi                       | 3         |
| 4                           | MWP51129 | Proses Manufaktur + Praktikum               | 3         |

|                   |          |                                 |            |
|-------------------|----------|---------------------------------|------------|
| 5                 | MWP51130 | Elemen Mesin I                  | 3          |
| 6                 | MWP51131 | Perpindahan Panas I             | 3          |
| 7                 | MWP51132 | Kinematika Teknik               | 2          |
| 8                 | MWP51133 | Mekanika Kekuatan Material      | 3          |
|                   |          | <b>Total sks Semester 5</b>     | <b>20</b>  |
| <b>SEMESTER 6</b> |          |                                 |            |
| 1                 | MWP51234 | Manajemen Industri              | 2          |
| 2                 | MWP51235 | Praktik Kerja Nyata             | 2          |
| 3                 | MWP51236 | Prak. Prestasi Mesin            | 1          |
| 4                 | MWP51237 | Elemen Mesin II                 | 3          |
| 5                 | MWP51238 | Desain Rekayasa                 | 2          |
| 6                 | MWP51239 | Teknik Tenaga Listrik           | 2          |
| 7                 | MWP51240 | Perpindahan Panas II            | 3          |
| 8                 | MWP51241 | Getaran Mekanis                 | 3          |
| 9                 | MWP51242 | Dinamika Teknik                 | 2          |
|                   |          | <b>Total sks Semester 6</b>     | <b>20</b>  |
| <b>SEMESTER 7</b> |          |                                 |            |
| 1                 | MWP51143 | Kuliah Kerja Nyata              | 3          |
| 2                 | MWP51144 | Technopreneurship               | 2          |
| 3                 | MWP51145 | Sistem Kendali                  | 3          |
| 4                 | MWP51146 | Mekatronika                     | 3          |
| 5                 | MWP51147 | Proyek Rekayasa                 | 2          |
| 6                 | MWP51348 | Seminar Proposal Skripsi        | 1          |
| 7                 | MPP511xy | MK Pilihan 1                    | 3          |
| 8                 | MPP511xy | MK Pilihan 2                    | 3          |
|                   |          | <b>Total sks semester 7</b>     | <b>20</b>  |
| <b>SEMESTER 8</b> |          |                                 |            |
| 1                 | MWP51349 | Skripsi                         | 5          |
| 2                 | MPP512xy | MK Pilihan 3                    | 3          |
| 3                 | MPP512xy | MK Pilihan 4                    | 3          |
|                   |          | <b>Total sks semester 8</b>     | <b>11</b>  |
|                   |          | <b>Total sks semester 1 - 8</b> | <b>150</b> |

#### DAFTAR MATA KULIAH PILIHAN

| No | Kode                                          | Nama Mata Kuliah                                | Beban |
|----|-----------------------------------------------|-------------------------------------------------|-------|
|    | <b>KELOMPOK MINAT MATERIAL DAN MANUFAKTUR</b> |                                                 |       |
| 1  | MPP51150                                      | Korosi dan Pengendaliannya                      | 3     |
| 2  | MPP51151                                      | Teknologi Pengelasan                            | 3     |
| 3  | MPP51152                                      | Sistem Manufaktur                               | 3     |
| 4  | MPP51153                                      | Komputasi Material                              | 3     |
| 5  | MPP51154                                      | Bahan Keramik                                   | 3     |
| 6  | MPP51155                                      | Mekanika Kekuatan Material Lanjut               | 3     |
| 7  | MPP51270                                      | Teknologi Permesinan Logam                      | 3     |
| 8  | MPP51271                                      | Teknik Pengendalian Mutu                        | 3     |
| 9  | MPP51272                                      | Teknologi Perancangan dan Pengendalian Produksi | 3     |
| 10 | MPP51273                                      | Otomasi Produksi                                | 3     |
| 11 | MPP51274                                      | Standarisasi dan Kontrol Kualitas               | 3     |
| 12 | MPP51275                                      | Bahan Komposit                                  | 3     |

|    |                                       |                                                  |   |
|----|---------------------------------------|--------------------------------------------------|---|
|    |                                       |                                                  |   |
|    | <b>KELOMPOK MINAT KONVERSI ENERGI</b> |                                                  |   |
| 1  | MPP51156                              | Motor Bakar                                      | 3 |
| 2  | MPP51157                              | Sistem Tenaga Uap                                | 3 |
| 3  | MPP51158                              | Mesin Pendingin dan Pemanas                      | 3 |
| 4  | MPP51159                              | Pompa dan Kompresor                              | 3 |
| 5  | MPP51160                              | Perpindahan Panas Lanjut                         | 3 |
| 6  | MPP51161                              | Termodinamika Teknik Lanjut                      | 3 |
| 7  | MPP51162                              | Komputasi Dinamika Fluida                        | 3 |
| 8  | MPP51276                              | Turbin Gas dan Sistem Propulsi                   | 3 |
| 9  | MPP51277                              | Teknologi Tenaga Surya                           | 3 |
| 10 | MPP51278                              | Fuel Cell                                        | 3 |
| 11 | MPP51279                              | Energi Terbarukan                                | 3 |
| 12 | MPP51280                              | Ketel Uap                                        | 3 |
| 13 | MPP51281                              | Dinamika Gas                                     | 3 |
|    | <b>KELOMPOK MINAT OTOMOTIF</b>        |                                                  |   |
| 1  | MPP51163                              | Mesin Bensin dan Diesel                          | 3 |
| 2  | MPP51164                              | Teknologi Otomotif Sepeda Motor dan Mobil        | 3 |
| 3  | MPP51165                              | Teknik Pemeliharaan dan Perawatan Mesin Otomotif | 3 |
| 4  | MPP51166                              | Teknologi Pelapisan                              | 3 |
| 5  | MPP51167                              | Dinamika Kendaraan                               | 3 |
| 6  | MPP51168                              | Sistem Transmisi dan Penggerak                   | 3 |
| 7  | MPP51169                              | Sistem Rem                                       | 3 |
| 8  | MPP51282                              | Sistem Hybrid                                    | 3 |
| 9  | MPP51283                              | Sistem Kemudi dan Kendali                        | 3 |
| 10 | MPP51284                              | Biofuel                                          | 3 |
| 11 | MPP51285                              | Unit Kendali Elektronik                          | 3 |
| 12 | MPP51286                              | Body Repair                                      | 3 |
| 13 | MPP51287                              | Sistem Kendaraan Listrik                         | 3 |
| 14 | MPP51288                              | Pesawat Angkat dan Alat Berat                    | 3 |