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|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <table><tr><td>CPMK</td><td>CPL-3</td><td>CPL-6</td><td>CPL-9</td><td>CPL-11</td></tr><tr><td>CPMK-1</td><td></td><td></td><td>✓</td><td></td></tr><tr><td>CPMK-2</td><td>✓</td><td></td><td>✓</td><td></td></tr><tr><td>CPMK-3</td><td></td><td></td><td>✓</td><td></td></tr><tr><td>CPMK-4</td><td>✓</td><td></td><td>✓</td><td></td></tr><tr><td>CPMK-5</td><td>✓</td><td></td><td></td><td>✓</td></tr><tr><td>CPMK-6</td><td>✓</td><td></td><td></td><td></td></tr><tr><td>CPMK-7</td><td></td><td></td><td></td><td>✓</td></tr><tr><td>CPMK-8</td><td>✓</td><td></td><td>✓</td><td></td></tr><tr><td>CPMK-9</td><td></td><td></td><td>✓</td><td>✓</td></tr><tr><td>CPMK-10</td><td></td><td></td><td>✓</td><td>✓</td></tr></table> | CPMK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CPL-3                                                                            | CPL-6           | CPL-9                           | CPL-11 | CPMK-1              |   |    | ✓  |    | CPMK-2 | ✓  |    | ✓  |  | CPMK-3 |   |   | ✓ |   | CPMK-4 | ✓ |   | ✓ |   | CPMK-5 | ✓  |    |    | ✓  | CPMK-6 | ✓  |        |  |  | CPMK-7 |  |  |  | ✓ | CPMK-8 | ✓ |  | ✓ |  | CPMK-9 |  |  | ✓ | ✓      | CPMK-10 |  |  | ✓ | ✓ |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK                                                             | CPL-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CPL-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CPL-9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CPL-11                                                                           |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK-1                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK-2                                                           | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK-3                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK-4                                                           | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK-5                                                           | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ✓                                                                                |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK-6                                                           | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK-7                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ✓                                                                                |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK-8                                                           | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK-9                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ✓                                                                                |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK-10                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ✓                                                                                |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Matrik CPMK pada Kemampuan akhir tiap tahapan belajar (Sub-CPMK) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                  | <table><tr><td rowspan="2">CPMK</td><td colspan="16">Minggu Ke</td></tr><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td></tr><tr><td>CPMK-1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CPMK-2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CPMK-3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CPMK-4</td><td>✓</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CPMK-5</td><td></td><td>✓</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CPMK-6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CPMK-7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CPMK-8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CPMK-9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CPMK-10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> | CPMK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Minggu Ke                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        | 1 | 2 | 3 | 4 | 5      | 6 | 7 | 8 | 9 | 10     | 11 | 12 | 13 | 14 | 15     | 16 | CPMK-1 |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   | CPMK-2 |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  | CPMK-3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | CPMK-4 | ✓ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | CPMK-5 |  | ✓ |  |  |  |  |  |  |  |  |  |  |  |  |  |  | CPMK-6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | CPMK-7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | CPMK-8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | CPMK-9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | CPMK-10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK                                                             | Minggu Ke                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                  | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4                                                                                | 5               | 6                               | 7      | 8                   | 9 | 10 | 11 | 12 | 13     | 14 | 15 | 16 |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK-1                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK-2                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK-3                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK-4                                                           | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK-5                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK-6                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK-7                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK-8                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK-9                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPMK-10                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Deskripsi Singkat MK                                             | Mata kuliah ini memberi pengetahuan dan wawasan tentang Filosofi Proteksi, yang meliputi rasional, pengertian, dan fungsi proteksi, jenis gangguan dan pencegahannya, pengaman utama dan cadangan Relai Proteksi, meliputi pengertian, fungsi dan persyaratan relai, relai statik dan mekanik Relai Arus Lebih pengertian, prinsip kerja, jenis, konfigurasi, pemakaian Relai Jarak, meliputi, prinsip kerja, jenis, konfigurasi, pemakaian Relai Diferensial, meliputi , prinsip kerja, jenis, konfigurasi, pemakaian Relai Tegangan, meliputi, prinsip kerja, jenis, konfigurasi, pemakaian Relai Daya, meliputi, prinsip kerja, jenis, konfigurasi, pemakaian Relai Arah, meliputi, prinsip kerja, jenis, konfigurasi, pemakaian Pemutus Tenaga Proteksi Generator, meliputi jenis gangguan, piranti proteksi, konfigurasi & sistem kerja Proteksi Transformator, meliputi jenis gangguan, piranti proteksi, konfigurasi & sistem kerja Proteksi Jaringan Transmisi, meliputi jenis gangguan, piranti proteksi, konfigurasi & sistem kerja Proteksi Jaringan Distribusi, meliputi jenis gangguan, piranti proteksi, konfigurasi & sistem kerja Proteksi Motor, meliputi jenis gangguan, piranti proteksi, konfigurasi & sistem kerja.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pustaka                                                          | Utama :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <div>1. Christophe Prév  . 2006. Protection of Electrical Networks. London : ISTE,Ltd.</div> <div>2. Edy Supriyadi, 2000. Sistem Proteksi Tenaga Listrik. Yogyakarta: Adi Cita.</div> <div>3. Info Energi. 2007. Interkoneksi Sumatera-Jawa, Investasi Strategis yang Selalu Tertunda.</div> <div>4. <a href="http://infoenergi.wordpress.com/2007/04/05/interkoneksi-sumatera-jawa-investasi-strategis-yang-selalu-tertunda/">http://infoenergi.wordpress.com/2007/04/05/interkoneksi-sumatera-jawa-investasi-strategis-yang-selalu-tertunda/</a></div> <div>5. Indonesian Commercial Newsletter. 2008. Market Intelligence Report On Industri</div> <div>6. Kelistrikan di Indonesia. <a href="http://www.datacon.co.id/Listrik2008Ind.html">http://www.datacon.co.id/Listrik2008Ind.html</a></div> <div>7. Lewis Blackburn &amp; Thomas J. Domin. 2006. Protective Relaying: Principles and Applications. Taylor&amp;Francis Group,LLC.</div> |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                  | Pendukung :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dosen Pengampu                                                   | Prof. Dr. Ir. Achmad Imam Agung, M.Pd.<br>Ibrohim, S.T., M.T.<br>Unit Three Kartini, S.T., M.T., Ph.D.<br>Ir. Fendi Achmad, S.Pd., M.Pd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                  |                 |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mg Ke-                                                           | Kemampuan akhir tiap tahapan belajar (Sub-CPMK)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Penilaian                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Bantuk Pembelajaran, Metode Pembelajaran, Penugasan Mahasiswa, [ Estimasi Waktu] |                 | Materi Pembelajaran [ Pustaka ] |        | Bobot Penilaian (%) |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Indikator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Kriteria & Bentuk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Luring (offline)                                                                 | Daring (online) |                                 |        |                     |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| (1)                                                              | (2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | (4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (5)                                                                              | (6)             | (7)                             |        | (8)                 |   |    |    |    |        |    |    |    |  |        |   |   |   |   |        |   |   |   |   |        |    |    |    |    |        |    |        |  |  |        |  |  |  |   |        |   |  |   |  |        |  |  |   |        |         |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|    |                                                                                                                                                                  |                                                                                                                                                                 |                                                                                                    |                                |                                                                                                                                                                                       |                                                                                                                                                                                    |    |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 1  | Mahasiswa diharapkan mampu menerapkan konsep dasar proteksi sistem tenaga untuk mengidentifikasi dan menyelesaikan masalah proteksi dalam sistem tenaga listrik. | 1. Identifikasi masalah proteksi dalam sistem tenaga listrik<br>2. Pemahaman konsep dasar proteksi sistem tenaga<br>3. Kemampuan menyelesaikan masalah proteksi | <b>Bentuk Penilaian</b><br>: Tes, Penilaian Hasil Project / Penilaian Produk, Penilaian Portofolio | Pembelajaran Berbasis Masalah. | Penugasan Online yang memungkinkan analisis kasus studi tentang masalah proteksi dalam sistem tenaga listrik dan menyusun solusi yang tepat berdasarkan konsep yang telah dipelajari. | <b>Materi:</b> Konsep Dasar Proteksi Sistem Tenaga, Jenis-jenis Proteksi dalam Sistem Tenaga Listrik, Metode Penyelesaian Masalah Proteksi<br><b>Pustaka:</b> Handbook Perkuliahan | 0% |
| 2  | Mahasiswa diharapkan mampu menganalisis skema proteksi yang digunakan dalam sistem tenaga listrik untuk memastikan keandalan dan keamanan sistem.                | 1. Analisis skema proteksi sistem tenaga listrik<br>2. Pemahaman pentingnya proteksi dalam sistem tenaga listrik                                                | <b>Bentuk Penilaian</b><br>: Tes                                                                   | Pembelajaran Berbasis Masalah. | Diskusi daring tentang implementasi skema proteksi dalam sistem tenaga listrik                                                                                                        | <b>Materi:</b> Konsep dasar proteksi sistem tenaga listrik, Jenis-jenis skema proteksi, Implementasi proteksi dalam sistem tenaga listrik<br><b>Pustaka:</b> Handbook Perkuliahan  | 0% |
| 3  |                                                                                                                                                                  |                                                                                                                                                                 |                                                                                                    |                                |                                                                                                                                                                                       |                                                                                                                                                                                    | 0% |
| 4  |                                                                                                                                                                  |                                                                                                                                                                 |                                                                                                    |                                |                                                                                                                                                                                       |                                                                                                                                                                                    | 0% |
| 5  |                                                                                                                                                                  |                                                                                                                                                                 |                                                                                                    |                                |                                                                                                                                                                                       |                                                                                                                                                                                    | 0% |
| 6  |                                                                                                                                                                  |                                                                                                                                                                 |                                                                                                    |                                |                                                                                                                                                                                       |                                                                                                                                                                                    | 0% |
| 7  |                                                                                                                                                                  |                                                                                                                                                                 |                                                                                                    |                                |                                                                                                                                                                                       |                                                                                                                                                                                    | 0% |
| 8  |                                                                                                                                                                  |                                                                                                                                                                 |                                                                                                    |                                |                                                                                                                                                                                       |                                                                                                                                                                                    | 0% |
| 9  |                                                                                                                                                                  |                                                                                                                                                                 |                                                                                                    |                                |                                                                                                                                                                                       |                                                                                                                                                                                    | 0% |
| 10 |                                                                                                                                                                  |                                                                                                                                                                 |                                                                                                    |                                |                                                                                                                                                                                       |                                                                                                                                                                                    | 0% |
| 11 |                                                                                                                                                                  |                                                                                                                                                                 |                                                                                                    |                                |                                                                                                                                                                                       |                                                                                                                                                                                    | 0% |
| 12 |                                                                                                                                                                  |                                                                                                                                                                 |                                                                                                    |                                |                                                                                                                                                                                       |                                                                                                                                                                                    | 0% |
| 13 |                                                                                                                                                                  |                                                                                                                                                                 |                                                                                                    |                                |                                                                                                                                                                                       |                                                                                                                                                                                    | 0% |
| 14 |                                                                                                                                                                  |                                                                                                                                                                 |                                                                                                    |                                |                                                                                                                                                                                       |                                                                                                                                                                                    | 0% |
| 15 |                                                                                                                                                                  |                                                                                                                                                                 |                                                                                                    |                                |                                                                                                                                                                                       |                                                                                                                                                                                    | 0% |
| 16 |                                                                                                                                                                  |                                                                                                                                                                 |                                                                                                    |                                |                                                                                                                                                                                       |                                                                                                                                                                                    | 0% |

#### Rekap Persentase Evaluasi : Case Study

| No | Evaluasi | Persentase |
|----|----------|------------|
|    |          | 0%         |

#### Catatan

1. **Capaian Pembelajaran Lulusan Prodi (CPL - Prodi)** adalah kemampuan yang dimiliki oleh setiap lulusan prodi yang merupakan internalisasi dari sikap, penguasaan pengetahuan dan ketrampilan sesuai dengan jenjang prodinya yang diperoleh melalui proses pembelajaran.

2. **CPL yang dibebankan pada mata kuliah** adalah beberapa capaian pembelajaran lulusan program studi (CPL-Prodi) yang digunakan untuk pembentukan/pengembangan sebuah mata kuliah yang terdiri dari aspek sikap, ketrampilan umum, ketrampilan khusus dan pengetahuan.
3. **CP Mata kuliah (CPMK)** adalah kemampuan yang dijabarkan secara spesifik dari CPL yang dibebankan pada mata kuliah, dan bersifat spesifik terhadap bahan kajian atau materi pembelajaran mata kuliah tersebut.
4. **Sub-CPMK Mata kuliah (Sub-CPMK)** adalah kemampuan yang dijabarkan secara spesifik dari CPMK yang dapat diukur atau diamati dan merupakan kemampuan akhir yang direncanakan pada tiap tahap pembelajaran, dan bersifat spesifik terhadap materi pembelajaran mata kuliah tersebut.
5. **Indikator penilaian** kemampuan dalam proses maupun hasil belajar mahasiswa adalah pernyataan spesifik dan terukur yang mengidentifikasi kemampuan atau kinerja hasil belajar mahasiswa yang disertai bukti-bukti.
6. **Kreteria Penilaian** adalah patokan yang digunakan sebagai ukuran atau tolok ukur ketercapaian pembelajaran dalam penilaian berdasarkan indikator-indikator yang telah ditetapkan. Kreteria penilaian merupakan pedoman bagi penilai agar penilaian konsisten dan tidak bias. Kreteria dapat berupa kuantitatif ataupun kualitatif.
7. **Bentuk penilaian:** tes dan non-tes.
8. **Bentuk pembelajaran:** Kuliah, Responsi, Tutorial, Seminar atau yang setara, Praktikum, Praktik Studio, Praktik Bengkel, Praktik Lapangan, Penelitian, Pengabdian Kepada Masyarakat dan/atau bentuk pembelajaran lain yang setara.
9. **Metode Pembelajaran:** Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, dan metode lainnya yg setara.
10. **Materi Pembelajaran** adalah rincian atau uraian dari bahan kajian yg dapat disajikan dalam bentuk beberapa pokok dan sub-pokok bahasan.
11. **Bobot penilaian** adalah prosentasi penilaian terhadap setiap pencapaian sub-CPMK yang besarnya proposional dengan tingkat kesulitan pencapaian sub-CPMK tsb., dan totalnya 100%.
12. TM=Tatap Muka, PT=Penugasan terstruktur, BM=Belajar mandiri.