



**Universitas Negeri Surabaya
Fakultas Teknik
Program Studi S1 Pendidikan Teknik Elektro**

Kode Dokumen

RENCANA PEMBELAJARAN SEMESTER

| | <table border="1"> <tr><td>CPMK</td></tr> <tr><td>CPMK-1</td></tr> <tr><td>CPMK-2</td></tr> <tr><td>CPMK-3</td></tr> <tr><td>CPMK-4</td></tr> <tr><td>CPMK-5</td></tr> <tr><td>CPMK-6</td></tr> <tr><td>CPMK-7</td></tr> <tr><td>CPMK-8</td></tr> <tr><td>CPMK-9</td></tr> <tr><td>CPMK-10</td></tr> <tr><td>CPMK-11</td></tr> <tr><td>CPMK-12</td></tr> <tr><td>CPMK-13</td></tr> <tr><td>CPMK-14</td></tr> <tr><td>CPMK-15</td></tr> <tr><td>CPMK-16</td></tr> </table> | CPMK | CPMK-1 | CPMK-2 | CPMK-3 | CPMK-4 | CPMK-5 | CPMK-6 | CPMK-7 | CPMK-8 | CPMK-9 | CPMK-10 | CPMK-11 | CPMK-12 | CPMK-13 | CPMK-14 | CPMK-15 | CPMK-16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CPMK-11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CPMK-16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Matrik CPMK pada Kemampuan akhir tiap tahapan belajar (Sub-CPMK) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th rowspan="2">CPMK</th><th colspan="16">Minggu Ke</th></tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th><th>12</th><th>13</th><th>14</th><th>15</th><th>16</th></tr> </thead> <tbody> <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></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></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></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></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></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></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></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></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></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></tr> <tr><td>CPMK-11</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-12</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-13</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-14</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-15</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-16</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> </tbody> </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-11 | | | | | | | | | | | | | | | | CPMK-12 | | | | | | | | | | | | | | | | CPMK-13 | | | | | | | | | | | | | | | | CPMK-14 | | | | | | | | | | | | | | | | CPMK-15 | | | | | | | | | | | | | | | | CPMK-16 | | | | | | | | | | | | | | | |
| CPMK | Minggu Ke | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CPMK-6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CPMK-7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CPMK-8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CPMK-9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CPMK-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CPMK-11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CPMK-12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CPMK-13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CPMK-14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CPMK-15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CPMK-16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deskripsi Singkat MK | Mata kuliah Pengukuran Elektronika memberikan pemahaman dan keterampilan dasar pengukuran dalam elektronika, kalibrasi alat ukur, serta teknik pengukuran berbagai komponen dan rangkaian elektronika. Mahasiswa juga akan melakukan pengujian pada rangkaian elektronik dan menyelesaikan proyek sederhana | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pustaka | <p>Utama :</p> <ol style="list-style-type: none"> Cooper W D. 1999. Instrumentasi Elektronik dan Teknik Pengukuran, Edisi Ke-2 . Jakarta: Penerbit Erlangga Soedjana S dan Nishino O. 2000. Pengukuran dan Alat-Alat Ukur Listrik . Jakarta: Paradnya Paramita Rudy Setiabudi. 2007. Pengukuran Besaran Listrik. Jakarta: Lembaga Penerbit FEUI (LP-FEUI) <p>Pendukung :</p> <ol style="list-style-type: none"> Sapiie S dan Nishino. 2005. Pengukuran dan Alat-Alat Ukur Listrik . Jakarta: Pradnya Paramita | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dosen Pengampu | Dr. Meini Sondang Sumbawati, M.Pd. Dr. Rina Harimurti, S.Pd., M.T. Miftahur Rohman, S.T., M.T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 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 dapat memahami pengantar pengukuran elektronika | Mahasiswa mampu menjelaskan konsep dasar pengukuran dalam elektronika | Kriteria: Pemahaman konsep dasar (70%), partisipasi diskusi (30%) Bentuk Penilaian : Aktifitas Partisipatif | Diskusi, pemberian contoh penerapan, penugasan di kelas teori dan praktikum 2 X 50 | - - | Materi: Pengukuran Elektronika Pustaka: <i>Soedjana S dan Nishino O. 2000.</i> <i>Pengukuran dan Alat-Alat Ukur Listrik . Jakarta: Paradnya Paramita</i> | 5% |
| 2 | Mahasiswa dapat menjelaskan kesalahan dalam pengukuran | Mahasiswa mampu menjelaskan jenis-jenis kesalahan dan faktor penyebabnya | Kriteria: Pemahaman konsep dasar (70%), partisipasi diskusi (30%) Bentuk Penilaian : Aktifitas Partisipatif | Diskusi, pemberian contoh penerapan, penugasan di kelas teori dan praktikum 2 X 50 | - - | Materi: Pengukuran Elektronika Pustaka: <i>Soedjana S dan Nishino O. 2000.</i> <i>Pengukuran dan Alat-Alat Ukur Listrik . Jakarta: Paradnya Paramita</i> | 5% |
| 3 | Mahasiswa dapat memahami karakteristik alat ukur elektronika | Mahasiswa dapat mengidentifikasi alat ukur berdasarkan spesifikasi dan karakteristiknya | Kriteria: Pemahaman konsep dasar (70%), partisipasi diskusi (30%) Bentuk Penilaian : Aktifitas Partisipatif | Diskusi, pemberian contoh penerapan, penugasan di kelas teori dan praktikum 2 X 50 | - - | Materi: Pengukuran Elektronika Pustaka: <i>Soedjana S dan Nishino O. 2000.</i> <i>Pengukuran dan Alat-Alat Ukur Listrik . Jakarta: Paradnya Paramita</i> | 5% |
| 4 | Mahasiswa dapat melakukan kalibrasi alat ukur multimeter analog | Mahasiswa dapat melakukan prosedur kalibrasi multimeter analog | Kriteria: Keakuratan hasil pengukuran (70%), prosedur pengukuran (30%) Bentuk Penilaian : Aktifitas Partisipatif, Praktik / Unjuk Kerja | Diskusi, pemberian contoh penerapan, penugasan di kelas teori dan praktikum 2 X 50 | - - | Materi: Pengukuran Elektronika Pustaka: <i>Soedjana S dan Nishino O. 2000.</i> <i>Pengukuran dan Alat-Alat Ukur Listrik . Jakarta: Paradnya Paramita</i> | 5% |
| 5 | Mahasiswa dapat melakukan pengukuran dengan multimeter digital | Mahasiswa mampu melakukan pengukuran tegangan, arus, dan resistansi dengan multimeter digital | Kriteria: Keakuratan hasil pengukuran (70%), prosedur pengukuran (30%) Bentuk Penilaian : Aktifitas Partisipatif, Praktik / Unjuk Kerja | Diskusi, pemberian contoh penerapan, penugasan di kelas teori dan praktikum 2 X 50 | - - | Materi: Pengukuran Elektronika Pustaka: <i>Soedjana S dan Nishino O. 2000.</i> <i>Pengukuran dan Alat-Alat Ukur Listrik . Jakarta: Paradnya Paramita</i> | 5% |

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|----|---|---|--|--|-----|--|-----|
| 6 | Mahasiswa dapat melakukan kalibrasi alat ukur osiloskop | Mahasiswa mampu melakukan kalibrasi dasar pada osiloskop | Kriteria: Keakuratan kalibrasi (60%), kesesuaian prosedur (40%) Bentuk Penilaian : Aktifitas Partisipatif, Praktik / Unjuk Kerja | Diskusi, pemberian contoh penerapan, penugasan di kelas teori dan praktikum 2 X 50 | - - | Materi: Pengukuran Elektronika Pustaka: <i>Soedjana S dan Nishino O. 2000. Pengukuran dan Alat-Alat Ukur Listrik . Jakarta: Paradnya Paramita</i> | 5% |
| 7 | Mahasiswa dapat melakukan pengukuran resistansi dan kapasitansi | Mahasiswa mampu mengukur resistansi dan kapasitansi dengan multimeter | Kriteria: Keakuratan hasil pengukuran (50%), laporan praktikum (50%) Bentuk Penilaian : Penilaian Hasil Project / Penilaian Produk, Penilaian Praktikum | Diskusi, pemberian contoh penerapan, penugasan di kelas teori dan praktikum 2 X 50 | - - | Materi: Pengukuran Elektronika Pustaka: <i>Soedjana S dan Nishino O. 2000. Pengukuran dan Alat-Alat Ukur Listrik . Jakarta: Paradnya Paramita</i> | 5% |
| 8 | UTS | Ujian tengah semester | Kriteria: Pemahaman dan aplikasi materi yang sudah dipelajari Bentuk Penilaian : Penilaian Hasil Project / Penilaian Produk | Diskusi, pemberian contoh penerapan, penugasan di kelas teori dan praktikum 2 X 50 | - - | Materi: Pengukuran Elektronika Pustaka: <i>Soedjana S dan Nishino O. 2000. Pengukuran dan Alat-Alat Ukur Listrik . Jakarta: Paradnya Paramita</i> | 10% |
| 9 | Mahasiswa dapat melakukan pengukuran rangkaian resistor | Mahasiswa mampu melakukan pengukuran pada rangkaian resistor | Kriteria: Keakuratan hasil pengukuran (50%), laporan praktikum (50%) Bentuk Penilaian : Penilaian Hasil Project / Penilaian Produk, Penilaian Praktikum | Diskusi, pemberian contoh penerapan, penugasan di kelas teori dan praktikum 2 X 50 | - - | Materi: Pengukuran Elektronika Pustaka: <i>Soedjana S dan Nishino O. 2000. Pengukuran dan Alat-Alat Ukur Listrik . Jakarta: Paradnya Paramita</i> | 5% |
| 10 | Mahasiswa dapat melakukan pengukuran tegangan dan arus | Mahasiswa mampu mengukur tegangan dan arus pada rangkaian elektronika | Kriteria: Keakuratan hasil pengukuran (50%), laporan praktikum (50%) Bentuk Penilaian : Penilaian Hasil Project / Penilaian Produk, Penilaian Praktikum | Diskusi, pemberian contoh penerapan, penugasan di kelas teori dan praktikum 2 X 50 | - - | Materi: Pengukuran Elektronika Pustaka: <i>Soedjana S dan Nishino O. 2000. Pengukuran dan Alat-Alat Ukur Listrik . Jakarta: Paradnya Paramita</i> | 5% |

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|----|--|--|--|--|-----|--|-----|
| 11 | Mahasiswa dapat melakukan pengukuran frekuensi dan periode | Mahasiswa mampu mengukur frekuensi dan periode sinyal dengan osiloskop | Kriteria: Keakuratan hasil pengukuran (50%), laporan praktikum (50%) Bentuk Penilaian : Penilaian Hasil Project / Penilaian Produk, Penilaian Praktikum | Diskusi, pemberian contoh penerapan, penugasan di kelas teori dan praktikum 2 X 50 | - - | Materi: Pengukuran Elektronika Pustaka: <i>Soedjana S dan Nishino O. 2000. Pengukuran dan Alat-Alat Ukur Listrik . Jakarta: Paradnya Paramita</i> | 5% |
| 12 | Mahasiswa dapat melakukan pengukuran rangkaian power supply | Mahasiswa mampu mengukur tegangan keluaran dan ripple pada power supply | Kriteria: Keakuratan hasil pengukuran (50%), laporan praktikum (50%) Bentuk Penilaian : Penilaian Hasil Project / Penilaian Produk, Penilaian Praktikum | Diskusi, pemberian contoh penerapan, penugasan di kelas teori dan praktikum 2 X 50 | - - | Materi: Pengukuran Elektronika Pustaka: <i>Soedjana S dan Nishino O. 2000. Pengukuran dan Alat-Alat Ukur Listrik . Jakarta: Paradnya Paramita</i> | 5% |
| 13 | Mahasiswa dapat melakukan pengukuran penguat operasional | Mahasiswa mampu melakukan pengukuran sinyal keluaran penguat operasional | Kriteria: Keakuratan hasil pengukuran (50%), laporan praktikum (50%) Bentuk Penilaian : Penilaian Hasil Project / Penilaian Produk, Penilaian Praktikum | Diskusi, pemberian contoh penerapan, penugasan di kelas teori dan praktikum 2 X 50 | - - | Materi: Pengukuran Elektronika Pustaka: <i>Soedjana S dan Nishino O. 2000. Pengukuran dan Alat-Alat Ukur Listrik . Jakarta: Paradnya Paramita</i> | 5% |
| 14 | Mahasiswa dapat mengembangkan proyek sederhana rangkaian elektronika | Mahasiswa mampu merancang dan membuat proyek sederhana | Kriteria: Kreativitas proyek (50%), ketepatan rangkaian (50%) Bentuk Penilaian : Penilaian Hasil Project / Penilaian Produk | Diskusi, pemberian contoh penerapan, penugasan di kelas teori dan praktikum 2 X 50 | - - | Materi: Pengukuran Elektronika Pustaka: <i>Soedjana S dan Nishino O. 2000. Pengukuran dan Alat-Alat Ukur Listrik . Jakarta: Paradnya Paramita</i> | 5% |
| 15 | Mahasiswa dapat menyelesaikan proyek sederhana rangkaian elektronika | Mahasiswa mampu menyelesaikan dan menguji proyek sederhana yang dikembangkan | Kriteria: Fungsi rangkaian (50%), kualitas penyelesaian proyek (50%) Bentuk Penilaian : Penilaian Hasil Project / Penilaian Produk, Penilaian Praktikum | Diskusi, pemberian contoh penerapan, penugasan di kelas teori dan praktikum 2 X 50 | - - | Materi: Pengukuran Elektronika Pustaka: <i>Soedjana S dan Nishino O. 2000. Pengukuran dan Alat-Alat Ukur Listrik . Jakarta: Paradnya Paramita</i> | 10% |

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|----|----------------------|---|--|--|-----|--|-----|
| 16 | Ujian akhir semester | Mahasiswa mampu mempresentasikan hasil karyanya | Kriteria: presentasi (50%), laporan (50%) Bentuk Penilaian : Penilaian Hasil Project / Penilaian Produk | Diskusi, pemberian contoh penerapan, penugasan di kelas teori dan praktikum 2 X 50 | - - | Materi: Pengukuran Elektronika Pustaka: Soedjana S dan Nishino O. 2000. Pengukuran dan Alat-Alat Ukur Listrik . Jakarta: Paradnya Paramita | 15% |
|----|----------------------|---|--|--|-----|--|-----|

Rekap Persentase Evaluasi : Case Study

| No | Evaluasi | Percentase |
|----|--|------------|
| 1. | Aktifitas Partisipatif | 22.5% |
| 2. | Penilaian Hasil Project / Penilaian Produk | 50% |
| 3. | Penilaian Praktikum | 20% |
| 4. | Praktik / Unjuk Kerja | 7.5% |
| | | 100% |

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. **Kriteria Penilaian** adalah patokan yang digunakan sebagai ukuran atau tolok ukur ketercapaian pembelajaran dalam penilaian berdasarkan indikator-indikator yang telah ditetapkan. Kriteria penilaian merupakan pedoman bagi penilai agar penilaian konsisten dan tidak bias. Kriteria 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 proposisional dengan tingkat kesulitan pencapaian sub-CPMK tsb., dan totalnya 100%.
12. TM=Tatap Muka, PT=Penugasan terstruktur, BM=Belajar mandiri.

RPS ini telah divalidasi pada tanggal 18 Desember 2024

Koordinator Program Studi S1
Pendidikan Teknik Elektro

UPM Program Studi S1
Pendidikan Teknik Elektro



FENDI ACHMAD
NIDN 0701129003



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