

|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                |                                 |                 |     |           |                           |                 |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------|-----|-----------|---------------------------|-----------------|-------|-------|-------|-------|--------|----|----|----|------|-----------|--|---|--|--|--------|--|---|---|--|--------|--|--|--|---|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|--------|---|---|--|--|--|---|--|--|--|---|--|--|---|--|--|--|--------|--|--|---|--|--|--|---|--|--|--|---|--|--|---|--|--|--------|--|--|--|---|--|--|--|---|--|--|--|--|--|--|---|--|--------|--|--|--|--|---|--|--|--|---|--|--|---|--|--|--|---|
| MATA KULIAH (MK)                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | KODE                                                                                                                                                                                                           | Rumpun MK                       | BOBOT (sks)     |     |           | SEMESTER                  | Tgl Penyusunan  |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
| Matematika Keuangan Aktuaria                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 9420703020                                                                                                                                                                                                     | Mata Kuliah Wajib Program Studi | T=3             | P=0 | ECTS=4.77 | 3                         | 7 Desember 2025 |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
| OTORISASI                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Pengembang RPS                                                                                                                                                                                                 |                                 | Koordinator RMK |     |           | Koordinator Program Studi |                 |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Rudianto Artiono                                                                                                                                                                                               |                                 | .....           |     |           | AFFIATI OKTAVIARINA       |                 |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
| Model Pembelajaran                                               | Project Based Learning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                |                                 |                 |     |           |                           |                 |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
| Capaian Pembelajaran (CP)                                        | CPL-PRODI yang dibebankan pada MK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                |                                 |                 |     |           |                           |                 |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
|                                                                  | CPL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Mampu menguasai dan menerapkan konsep dasar aktuaria, matematika, statistika dan ekonomi.                                                                                                                      |                                 |                 |     |           |                           |                 |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
|                                                                  | CPL-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Mampu mengambil keputusan yang tepat, memformulasikan penyelesaian masalah prosedural berdasarkan analisis data dan informasi dengan memanfaatkan IPTEK.                                                       |                                 |                 |     |           |                           |                 |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
|                                                                  | CPL-7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Mampu menyelesaikan permasalahan terkait ilmu aktuaria secara tepat dengan kaidah ilmiah.                                                                                                                      |                                 |                 |     |           |                           |                 |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
|                                                                  | CPL-9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Mampu menguasai dasar-dasar algoritma, pemrograman, dan komputasi untuk menyelesaikan permasalahan aktuaria.                                                                                                   |                                 |                 |     |           |                           |                 |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
|                                                                  | Capaian Pembelajaran Mata Kuliah (CPMK)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                |                                 |                 |     |           |                           |                 |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
|                                                                  | CPMK - 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Menerapkan konsep dasar matematika untuk penentuan harga produk derivatif yang meliputi: forwards, futures, swaps, dan options.                                                                                |                                 |                 |     |           |                           |                 |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
|                                                                  | CPMK - 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Memformulasikan penyelesaian masalah prosedural berdasarkan analisis data dan informasi untuk penentuan harga produk derivatif yang meliputi: forwards, futures, swaps, dan options dengan memanfaatkan IPTEK. |                                 |                 |     |           |                           |                 |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
|                                                                  | CPMK - 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Menyelesaikan permasalahan terkait penentuan harga produk derivatif yang meliputi: forwards, futures, swaps, dan options.                                                                                      |                                 |                 |     |           |                           |                 |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
|                                                                  | CPMK - 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Menjelaskan dasar-dasar algoritma, pemrograman, dan komputasi untuk penentuan harga produk derivatif yang meliputi: forwards, futures, swaps, dan options.                                                     |                                 |                 |     |           |                           |                 |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
| Matrik CPL - CPMK                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                |                                 |                 |     |           |                           |                 |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
|                                                                  | <table><tr><td>CPMK</td><td>CPL-5</td><td>CPL-6</td><td>CPL-7</td><td>CPL-9</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></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                |                                 |                 |     |           |                           | CPMK            | CPL-5 | CPL-6 | CPL-7 | CPL-9 | CPMK-1 | ✓  |    |    |      | CPMK-2    |  | ✓ |  |  | CPMK-3 |  | ✓ | ✓ |  | CPMK-4 |  |  |  | ✓ |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
| CPMK                                                             | CPL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CPL-6                                                                                                                                                                                                          | CPL-7                           | CPL-9           |     |           |                           |                 |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
| CPMK-1                                                           | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                |                                 |                 |     |           |                           |                 |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
| CPMK-2                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ✓                                                                                                                                                                                                              |                                 |                 |     |           |                           |                 |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
| CPMK-3                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ✓                                                                                                                                                                                                              | ✓                               |                 |     |           |                           |                 |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
| CPMK-4                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                |                                 | ✓               |     |           |                           |                 |       |       |       |       |        |    |    |    |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |
| 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></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                                                             | 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                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                |                                 |                 | ✓   |           |                           |                 | ✓     |       |       | ✓     |        |    |    | ✓  |      |           |  |   |  |  |        |  |   |   |  |        |  |  |  |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |   |  |  |  |   |  |  |  |   |  |  |   |  |  |  |        |  |  |   |  |  |  |   |  |  |  |   |  |  |   |  |  |        |  |  |  |   |  |  |  |   |  |  |  |  |  |  |   |  |        |  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |   |

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                           |                                                                                                                         |                                                                                  |                 |                                                                                                                                                                                                    |                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Deskripsi Singkat MK | Matematika Keuangan Aktuaria merupakan mata kuliah inti yang membekali mahasiswa dengan konsep matematika dasar untuk menilai instrumen keuangan yang berupa produk derivatif. Mata kuliah ini mencakup pemahaman tentang penentuan harga produk derivatif yang meliputi: forwards, futures, swaps, dan options. Mahasiswa akan belajar menggunakan alat matematika untuk menyelesaikan masalah keuangan kompleks yang relevan dengan praktik aktuaria profesional. |                                                                           |                                                                                                                         |                                                                                  |                 |                                                                                                                                                                                                    |                     |
| Pustaka              | Utama :                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                           |                                                                                                                         |                                                                                  |                 |                                                                                                                                                                                                    |                     |
|                      | 1. Stephen Garrett, 2013, An Introduction to the Mathematics of Finance: A Deterministic Approach, Second edition, Butterworth-Heinemann                                                                                                                                                                                                                                                                                                                            |                                                                           |                                                                                                                         |                                                                                  |                 |                                                                                                                                                                                                    |                     |
|                      | Pendukung :                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                           |                                                                                                                         |                                                                                  |                 |                                                                                                                                                                                                    |                     |
|                      | 1. McDonald, R. L., Cassano, M., & Fahlenbrach, R. (2006). Derivatives markets. Boston: Addison-Wesley.<br>2. Ross, Westerfield, Jordan. (2008). Fundamentals of Corporate Finance. McGrawHill<br>3. Zvi Bodie, Alex Kane & Alan Marcus. 2018. Investment, 11th ed. Berkshire: McGraw-Hill Education                                                                                                                                                                |                                                                           |                                                                                                                         |                                                                                  |                 |                                                                                                                                                                                                    |                     |
| Dosen Pengampu       | Rudianto Artiono, S.Pd., M.Si.                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                           |                                                                                                                         |                                                                                  |                 |                                                                                                                                                                                                    |                     |
| 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                    | Menerapkan konsep dasar matematika dalam penentuan harga produk derivatif                                                                                                                                                                                                                                                                                                                                                                                           | Menerapkan konsep dasar matematika dalam penentuan harga produk derivatif | <b>Kriteria:</b> Terlampir<br><br><b>Bentuk Penilaian :</b> Aktifitas Partisipasif                                      | Kuliah, Responsi, Tutorial, diskusi kelompok dan Latihan Soal 150                | Belajar Mandiri | <b>Materi:</b> Pengantar Produk Derivatif<br><b>Pustaka:</b> Stephen Garrett, 2013, An Introduction to the Mathematics of Finance: A Deterministic Approach, Second edition, Butterworth-Heinemann | 3%                  |
| 2                    | Menerapkan konsep dasar matematika dalam penentuan harga produk forwards                                                                                                                                                                                                                                                                                                                                                                                            | Menerapkan konsep dasar matematika dalam penentuan harga produk forwards  | <b>Kriteria:</b> Penilaian Partisipasi melalui kegiatan diskusi<br><br><b>Bentuk Penilaian :</b> Aktifitas Partisipasif | Kuliah, Responsi, Tutorial, diskusi kelompok dan Latihan Soal 150                | Belajar Mandiri | <b>Materi:</b> Penentuan Harga Forwards<br><b>Pustaka:</b> Stephen Garrett, 2013, An Introduction to the Mathematics of Finance: A Deterministic Approach, Second edition, Butterworth-Heinemann   | 3%                  |

|   |                                                                                                                                                          |                                                                                                                                                          |                                                                                                                                                    |                                                                   |                 |                                                                                                                                                                                                                                                                                                                                                                                                             |     |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 3 | Memformulasikan penyelesaian masalah prosedural berdasarkan analisis data dan informasi untuk penentuan harga produk forwards dengan memanfaatkan IPTEKS | Memformulasikan penyelesaian masalah prosedural berdasarkan analisis data dan informasi untuk penentuan harga produk forwards dengan memanfaatkan IPTEKS | <b>Kriteria:</b><br>Terlampir<br><br><b>Bentuk Penilaian :</b><br>Praktik / Unjuk Kerja                                                            | Kuliah, Responsi, Tutorial, diskusi kelompok dan Latihan Soal 150 | Belajar Mandiri | <b>Materi:</b><br>Penen<br><b>Pustaka:</b><br><i>Stephen Garrett, 2013, An Introduction to the Mathematics of Finance: A Deterministic Approach, Second edition, Butterworth-Heinemann</i><br><b>Materi:</b><br>Penentuan Harga Forwards<br><b>Pustaka:</b><br><i>Stephen Garrett, 2013, An Introduction to the Mathematics of Finance: A Deterministic Approach, Second edition, Butterworth-Heinemann</i> | 5%  |
| 4 | Menyelesaikan permasalahan terkait penentuan harga produk forwards                                                                                       | Menyelesaikan permasalahan terkait penentuan harga produk forwards                                                                                       | <b>Kriteria:</b><br>Presentasi Hasil Projek<br><br><b>Bentuk Penilaian :</b><br>Aktifitas Partisipatif, Penilaian Hasil Project / Penilaian Produk | Kuliah, Responsi, Tutorial, diskusi kelompok dan Latihan Soal 150 | Belajar Mandiri | <b>Materi:</b><br>Penentuan Harga Forwards<br><b>Pustaka:</b><br><i>Stephen Garrett, 2013, An Introduction to the Mathematics of Finance: A Deterministic Approach, Second edition, Butterworth-Heinemann</i>                                                                                                                                                                                               | 10% |
| 5 | Menjelaskan dasar-dasar algoritma, pemrograman dan komputasi untuk penentuan harga produk forwards                                                       | Menjelaskan dasar-dasar algoritma, pemrograman dan komputasi untuk penentuan harga produk forwards                                                       | <b>Kriteria:</b><br>Terlampir<br><br><b>Bentuk Penilaian :</b><br>Tes                                                                              | Kuliah, Responsi, Tutorial, diskusi kelompok dan Latihan Soal 150 | Belajar Mandiri | <b>Materi:</b><br>Penentuan Harga Forwards<br><b>Pustaka:</b><br><i>Stephen Garrett, 2013, An Introduction to the Mathematics of Finance: A Deterministic Approach, Second edition, Butterworth-Heinemann</i>                                                                                                                                                                                               | 5%  |

|   |                                                                                                                                                         |                                                                                                                                                         |                                                                                                                                                    |                                                                   |                 |                                                                                                                                                                                                              |     |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 6 | Menerapkan konsep dasar matematika dalam penentuan harga produk futures                                                                                 | Menerapkan konsep dasar matematika dalam penentuan harga produk futures                                                                                 | <b>Kriteria:</b><br>Penilaian Partisipasi melalui kegiatan diskusi<br><br><b>Bentuk Penilaian :</b><br>Aktifitas Partisipasif                      | Kuliah, Responsi, Tutorial, diskusi kelompok dan Latihan Soal 150 | Belajar Mandiri | <b>Materi:</b><br>Penentuan Harga Futures<br><b>Pustaka:</b><br><i>Stephen Garrett, 2013, An Introduction to the Mathematics of Finance: A Deterministic Approach, Second edition, Butterworth-Heinemann</i> | 3%  |
| 7 | Memformulasikan penyelesaian masalah prosedural berdasarkan analisis data dan informasi untuk penentuan harga produk futures dengan memanfaatkan IPTEKS | Memformulasikan penyelesaian masalah prosedural berdasarkan analisis data dan informasi untuk penentuan harga produk futures dengan memanfaatkan IPTEKS | <b>Kriteria:</b><br>Terlampir<br><br><b>Bentuk Penilaian :</b><br>Praktik / Unjuk Kerja                                                            | Kuliah, Responsi, Tutorial, diskusi kelompok dan Latihan Soal 150 | Belajar Mandiri | <b>Materi:</b><br>Penentuan Harga Futures<br><b>Pustaka:</b><br><i>Stephen Garrett, 2013, An Introduction to the Mathematics of Finance: A Deterministic Approach, Second edition, Butterworth-Heinemann</i> | 5%  |
| 8 | Menyelesaikan permasalahan terkait penentuan harga produk futures                                                                                       | Menyelesaikan permasalahan terkait penentuan harga produk futures                                                                                       | <b>Kriteria:</b><br>Presentasi Hasil Projek<br><br><b>Bentuk Penilaian :</b><br>Aktifitas Partisipasif, Penilaian Hasil Project / Penilaian Produk | Kuliah, Responsi, Tutorial, diskusi kelompok dan Latihan Soal 150 | Belajar Mandiri | <b>Materi:</b><br>Penentuan Harga Futures<br><b>Pustaka:</b><br><i>Stephen Garrett, 2013, An Introduction to the Mathematics of Finance: A Deterministic Approach, Second edition, Butterworth-Heinemann</i> | 10% |
| 9 | Menjelaskan dasar-dasar algoritma, pemrograman dan komputasi untuk penentuan harga produk futures                                                       | Menjelaskan dasar-dasar algoritma, pemrograman dan komputasi untuk penentuan harga produk futures                                                       | <b>Kriteria:</b><br>Terlampir<br><br><b>Bentuk Penilaian :</b><br>Tes                                                                              | Kuliah, Responsi, Tutorial, diskusi kelompok dan Latihan Soal 150 | Belajar Mandiri | <b>Materi:</b><br>Penentuan Harga Futures<br><b>Pustaka:</b><br><i>Stephen Garrett, 2013, An Introduction to the Mathematics of Finance: A Deterministic Approach, Second edition, Butterworth-Heinemann</i> | 5%  |

|    |                                                                                                                                                       |                                                                                                                                                       |                                                                                                                               |                                                                   |                 |                                                                                                                                                                                                              |     |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 10 | Menerapkan konsep dasar matematika dalam penentuan harga produk swaps                                                                                 | Menerapkan konsep dasar matematika dalam penentuan harga produk swaps                                                                                 | <b>Kriteria:</b><br>Penilaian Partisipasi melalui kegiatan diskusi<br><br><b>Bentuk Penilaian :</b><br>Aktifitas Partisipatif | Kuliah, Responsi, Tutorial, diskusi kelompok dan Latihan Soal 150 | Belajar Mandiri | <b>Materi:</b><br>Penentuan Harga Swaps<br><b>Pustaka:</b><br><i>Stephen Garrett, 2013, An Introduction to the Mathematics of Finance: A Deterministic Approach, Second edition, Butterworth-Heinemann</i>   | 3%  |
| 11 | Memformulasikan penyelesaian masalah prosedural berdasarkan analisis data dan informasi untuk penentuan harga produk swaps dengan memanfaatkan IPTEKS | Memformulasikan penyelesaian masalah prosedural berdasarkan analisis data dan informasi untuk penentuan harga produk swaps dengan memanfaatkan IPTEKS | <b>Kriteria:</b><br>Terlampilir<br><br><b>Bentuk Penilaian :</b><br>Praktik / Unjuk Kerja                                     | Kuliah, Responsi, Tutorial, diskusi kelompok dan Latihan Soal 150 | Belajar Mandiri | <b>Materi:</b><br>Penentuan Harga Swaps<br><b>Pustaka:</b><br><i>Stephen Garrett, 2013, An Introduction to the Mathematics of Finance: A Deterministic Approach, Second edition, Butterworth-Heinemann</i>   | 5%  |
| 12 | Menjelaskan dasar-dasar algoritma, pemrograman dan komputasi untuk penentuan harga produk swaps                                                       | Menjelaskan dasar-dasar algoritma, pemrograman dan komputasi untuk penentuan harga produk swaps                                                       | <b>Kriteria:</b><br>Terlampilir<br><br><b>Bentuk Penilaian :</b><br>Tes                                                       | Kuliah, Responsi, Tutorial, diskusi kelompok dan Latihan Soal 150 | Belajar Mandiri | <b>Materi:</b><br>Penentuan Harga Swaps<br><b>Pustaka:</b><br><i>Stephen Garrett, 2013, An Introduction to the Mathematics of Finance: A Deterministic Approach, Second edition, Butterworth-Heinemann</i>   | 15% |
| 13 | Menerapkan konsep dasar matematika dalam penentuan harga produk options                                                                               | Menerapkan konsep dasar matematika dalam penentuan harga produk options                                                                               | <b>Kriteria:</b><br>Penilaian Partisipasi melalui kegiatan diskusi<br><br><b>Bentuk Penilaian :</b><br>Aktifitas Partisipatif | Kuliah, Responsi, Tutorial, diskusi kelompok dan Latihan Soal 150 | Belajar Mandiri | <b>Materi:</b><br>Penentuan Harga Options<br><b>Pustaka:</b><br><i>Stephen Garrett, 2013, An Introduction to the Mathematics of Finance: A Deterministic Approach, Second edition, Butterworth-Heinemann</i> | 3%  |

|    |                                                                                                                                                         |                                                                                                                                                         |                                                                                                                                                    |                                                                   |                 |                                                                                                                                                                                                              |     |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 14 | Memformulasikan penyelesaian masalah prosedural berdasarkan analisis data dan informasi untuk penentuan harga produk options dengan memanfaatkan IPTEKS | Memformulasikan penyelesaian masalah prosedural berdasarkan analisis data dan informasi untuk penentuan harga produk options dengan memanfaatkan IPTEKS | <b>Kriteria:</b><br>Terlampir<br><br><b>Bentuk Penilaian :</b><br>Praktik / Unjuk Kerja                                                            | Kuliah, Responsi, Tutorial, diskusi kelompok dan Latihan Soal 150 | Belajar Mandiri | <b>Materi:</b><br>Penentuan Harga Options<br><b>Pustaka:</b><br><i>Stephen Garrett, 2013, An Introduction to the Mathematics of Finance: A Deterministic Approach, Second edition, Butterworth-Heinemann</i> | 5%  |
| 15 | Menyelesaikan permasalahan terkait penentuan harga produk options                                                                                       | Menyelesaikan permasalahan terkait penentuan harga produk options                                                                                       | <b>Kriteria:</b><br>Presentasi Hasil Projek<br><br><b>Bentuk Penilaian :</b><br>Aktifitas Partisipatif, Penilaian Hasil Project / Penilaian Produk | Kuliah, Responsi, Tutorial, diskusi kelompok dan Latihan Soal 150 | Belajar Mandiri | <b>Materi:</b><br>Penentuan Harga Options<br><b>Pustaka:</b><br><i>Stephen Garrett, 2013, An Introduction to the Mathematics of Finance: A Deterministic Approach, Second edition, Butterworth-Heinemann</i> | 15% |
| 16 | Menjelaskan dasar-dasar algoritma, pemrograman dan komputasi untuk penentuan harga produk options                                                       | Menjelaskan dasar-dasar algoritma, pemrograman dan komputasi untuk penentuan harga produk options                                                       | <b>Kriteria:</b><br>Terlampir<br><br><b>Bentuk Penilaian :</b><br>Tes                                                                              | Kuliah, Responsi, Tutorial, diskusi kelompok dan Latihan Soal 150 | Belajar Mandiri | <b>Materi:</b><br>Penentuan Harga Options<br><b>Pustaka:</b><br><i>Stephen Garrett, 2013, An Introduction to the Mathematics of Finance: A Deterministic Approach, Second edition, Butterworth-Heinemann</i> | 5%  |

#### Rekap Persentase Evaluasi : Project Based Learning

| No | Evaluasi                                   | Persentase |
|----|--------------------------------------------|------------|
| 1. | Aktifitas Partisipatif                     | 32.5%      |
| 2. | Penilaian Hasil Project / Penilaian Produk | 17.5%      |
| 3. | Praktik / Unjuk Kerja                      | 20%        |
| 4. | Tes                                        | 30%        |
|    |                                            | 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. **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.

RPS ini telah divalidasi pada tanggal 2 Oktober 2025

Koordinator Program Studi S1  
Sains Aktuaria



AFFIATI OKTAVIARINA  
NIDN 0022107806

UPM Program Studi S1 Sains  
Aktuaria



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