

|  | <b>Universitas Negeri Surabaya</b><br><b>Fakultas Matematika dan Ilmu Pengetahuan Alam</b><br><b>Program Studi S1 Matematika</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |        |           |                           | Kode Dokumen    |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------|-----------|---------------------------|-----------------|------|-------|-------|--------|--------|----|----|----|--------|------|-----------|--|--------|--|--|---|--------|---|---|--|--------|--|---|--|--------|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|--------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------|--|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--------|--|--|--|---|---|--|--|--|--|--|--|--|--|--|--|--|--------|--|--|--|--|--|---|---|---|--|--|--|--|--|--|--|--|--------|--|--|--|--|--|--|--|--|---|---|---|--|--|--|--|--|--------|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|---|
|                                                                                   | <b>RENCANA PEMBELAJARAN SEMESTER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |        |           |                           |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
| MATA KULIAH (MK)                                                                  | KODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Rumpun MK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BOBOT (sks)     |        |           | SEMESTER                  | Tgl Penyusunan  |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
| Matematika Diskrit                                                                | 4420103074                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | T=3             | P=0    | ECTS=4.77 | 3                         | 7 Desember 2025 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
| OTORISASI                                                                         | Pengembang RPS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Koordinator RMK |        |           | Koordinator Program Studi |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
|                                                                                   | Prof. Drs. I Ketut Budayasa, Ph.D.; Dr. Budi Rahadjeng, S.Si., M.Si.; Muhammad Husnul Khuluq, S.Mat., M.Mat.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | .....           |        |           | RADEN SULAIMAN            |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
| Model Pembelajaran                                                                | Case Study                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |        |           |                           |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
| Capaian Pembelajaran (CP)                                                         | CPL-PRODI yang dibebankan pada MK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |        |           |                           |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
|                                                                                   | CPL-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mengembangkan pemikiran logis, kritis, sistematis, dan kreatif dalam melakukan pekerjaan yang spesifik di bidang keahliannya serta sesuai dengan standar kompetensi kerja bidang yang bersangkutan                                                                                                                                                                                                                                                                                                 |                 |        |           |                           |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
|                                                                                   | CPL-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mampu merumuskan dan menyelesaikan masalah matematika fundamental;                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |        |           |                           |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
|                                                                                   | CPL-10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Mampu membuktikan pernyataan matematika dengan berbagai metode                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |        |           |                           |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
|                                                                                   | Capaian Pembelajaran Mata Kuliah (CPMK)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |        |           |                           |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
|                                                                                   | CPMK - 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Mampu menggunakan prinsip aturan perkalian dan aturan penjumlahan                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |        |           |                           |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
|                                                                                   | CPMK - 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Mampu menerapkan konsep permutasi dan kombinasi                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |        |           |                           |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
|                                                                                   | CPMK - 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Mampu menerapkan konsep koefisien binomial, koefisien multinomial, dan prinsip sarang burung                                                                                                                                                                                                                                                                                                                                                                                                       |                 |        |           |                           |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
|                                                                                   | CPMK - 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Mampu menerapkan Fungsi Pembangkit Biasa dan Fungsi Pembangkit Eksponensial                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |        |           |                           |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
|                                                                                   | CPMK - 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Mampu menyelesaikan permasalahan relasi rekursif                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |        |           |                           |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
|                                                                                   | CPMK - 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Mampu menerapkan prinsip inklusi-eksklusi dalam menyelesaikan masalah                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |        |           |                           |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
|                                                                                   | Matrik CPL - CPMK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |        |           |                           |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <table border="1"> <thead> <tr> <th>CPMK</th> <th>CPL-3</th> <th>CPL-6</th> <th>CPL-10</th> </tr> </thead> <tbody> <tr> <td>CPMK-1</td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>CPMK-2</td> <td>✓</td> <td>✓</td> <td></td> </tr> <tr> <td>CPMK-3</td> <td></td> <td></td> <td>✓</td> </tr> <tr> <td>CPMK-4</td> <td>✓</td> <td>✓</td> <td></td> </tr> <tr> <td>CPMK-5</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>CPMK-6</td> <td></td> <td></td> <td>✓</td> </tr> </tbody> </table> |                 |        |           |                           |                 | CPMK | CPL-3 | CPL-6 | CPL-10 | CPMK-1 | ✓  |    |    | CPMK-2 | ✓    | ✓         |  | CPMK-3 |  |  | ✓ | CPMK-4 | ✓ | ✓ |  | CPMK-5 |  | ✓ |  | CPMK-6 |  |   | ✓ |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
|                                                                                   | CPMK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CPL-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CPL-6           | CPL-10 |           |                           |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
|                                                                                   | CPMK-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |        |           |                           |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
|                                                                                   | CPMK-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ✓               |        |           |                           |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
|                                                                                   | CPMK-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 | ✓      |           |                           |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
|                                                                                   | CPMK-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ✓               |        |           |                           |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
|                                                                                   | CPMK-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ✓               |        |           |                           |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
|                                                                                   | CPMK-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 | ✓      |           |                           |                 |      |       |       |        |        |    |    |    |        |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |
| 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> <td></td> </tr> <tr> <td>CPMK-2</td> <td></td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CPMK-3</td> <td></td> <td></td> <td></td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CPMK-4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CPMK-5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CPMK-6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> </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                                                                              | 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                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |        |           |                           |                 |      |       |       |        | ✓      | ✓  | ✓  | ✓  | ✓      |      |           |  |        |  |  |   |        |   |   |  |        |  |   |  |        |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |  |        |  |  |  |  |  |   |   |   |  |  |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |   |   |   |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |

|                      |                                                                   |                                                                                                                                                                                                                                                                                                               |                                                                              |                                                                                  |                 |                                                                                                                                                                                                                                                                                                                            |                     |
|----------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Deskripsi Singkat MK |                                                                   | Mata kuliah ini mengkaji tentang konsep aturan-aturan dasar dalam counting, permutasi, kombinasi, fungsi pembangkit, relasi rekursif, dan prinsip inklusi-eksklusi, dan menerapkannya untuk menyelesaikan masalah sehari-hari melalui pembelajaran aktif metode ekspositori, tanya jawab dan pemberian tugas. |                                                                              |                                                                                  |                 |                                                                                                                                                                                                                                                                                                                            |                     |
| Pustaka              |                                                                   | Utama :                                                                                                                                                                                                                                                                                                       |                                                                              |                                                                                  |                 |                                                                                                                                                                                                                                                                                                                            |                     |
|                      |                                                                   | 1. I Ketut Budayasa. (2022). Matematika Diskrit. Unesa University Press.                                                                                                                                                                                                                                      |                                                                              |                                                                                  |                 |                                                                                                                                                                                                                                                                                                                            |                     |
|                      |                                                                   | Pendukung :                                                                                                                                                                                                                                                                                                   |                                                                              |                                                                                  |                 |                                                                                                                                                                                                                                                                                                                            |                     |
|                      |                                                                   | 1. Kenneth H. Rosen. (2011). Discrete Mathematics and Its Applications (7th edition). New York: McGraw-Hill.                                                                                                                                                                                                  |                                                                              |                                                                                  |                 |                                                                                                                                                                                                                                                                                                                            |                     |
| Dosen Pengampu       |                                                                   | Prof. Drs. I Ketut Budayasa, Ph.D.<br>Dr. Budi Rahadjeng, S.Si., M.Si.<br>Dr. Sri Suryanti, S.Pd., M.Si.<br>Reny Amalia Permata, S.Si., M.Si.<br>R.A. Diva Zatadini, S.Si., M.Si.<br>Muhammad Husnul Khuluq, S.Mat., M.Mat.                                                                                   |                                                                              |                                                                                  |                 |                                                                                                                                                                                                                                                                                                                            |                     |
| 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                    | Mampu menggunakan prinsip aturan perkalian dan aturan penjumlahan | Mampu menyelesaikan masalah terkait dengan aturan perkalian                                                                                                                                                                                                                                                   | Kriteria:<br>Kuantitatif<br><br>Bentuk Penilaian :<br>Aktifitas Partisipasif | Diskusi dan ceramah<br>3x50                                                      |                 | Materi:<br>Aturan Perkalian dan Aturan Penambahan<br>Pustaka: / Ketut Budayasa. (2022). Matematika Diskrit. Unesa University Press.                                                                                                                                                                                        | 4%                  |
| 2                    | Mampu menerapkan konsep permutasi dan kombinasi                   | Mampu menjelaskan konsep kombinasi dan permutasi                                                                                                                                                                                                                                                              | Kriteria:<br>Kuantitatif<br><br>Bentuk Penilaian :<br>Aktifitas Partisipasif | Diskusi dan eksplorasi<br>3x50                                                   |                 | Materi:<br>Permutasi dan Kombinasi<br>Pustaka: / Ketut Budayasa. (2022). Matematika Diskrit. Unesa University Press.                                                                                                                                                                                                       | 3%                  |
| 3                    | Mampu menerapkan konsep permutasi dan kombinasi                   | Mampu menerapkan konsep kombinasi dan permutasi dalam masalah-masalah counting                                                                                                                                                                                                                                | Kriteria:<br>Kuantitatif<br><br>Bentuk Penilaian :<br>Aktifitas Partisipasif | Diskusi dan eksplorasi<br>3x50                                                   |                 | Materi:<br>Permasalahan Permutasi dan Kombinasi<br>Pustaka: / Ketut Budayasa. (2022). Matematika Diskrit. Unesa University Press.<br><br>-----<br>Materi:<br>Permasalahan Permutasi dan Kombinasi<br>Pustaka:<br>Kenneth H. Rosen. (2011). Discrete Mathematics and Its Applications (7th edition). New York: McGraw-Hill. | 4%                  |

|   |                                                                                              |                                                                                                                                     |                                                                                                                                                                                                      |                                                        |  |                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |
|---|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 4 | Mampu menerapkan konsep koefisien binomial, koefisien multinomial, dan prinsip sarang burung | 1.Menerapkan prinsip sarang burung dalam menyelesaikan masalah<br>2.Menjelaskan konsep koefisien binomial dan koefisien multinomial | <b>Kriteria:</b><br>Kuantitatif<br><b>Bentuk Penilaian :</b><br>Aktifitas Partisipasif                                                                                                               | Diskusi dan tanya jawab<br>3x50                        |  | <b>Materi:</b><br>Koefisien Binomial, Koefisien Multinomial, dan Prinsip 'Sangkar Burung'<br><b>Pustaka: /</b><br><i>Ketut Budayasa. (2022). Matematika Diskrit. Unesa University Press.</i>                                                                                                                                                                                                                                         | 3% |
| 5 | Mampu menerapkan konsep koefisien binomial, koefisien multinomial, dan prinsip sarang burung | Menyelesaikan masalah yang berkaitan dengan koefisien binomial, koefisien multinomial, dan prinsip 'Sarang Merpati'                 | <b>Kriteria:</b><br>Kuantitatif<br><b>Bentuk Penilaian :</b><br>Aktifitas Partisipasif                                                                                                               | Tutorial, diskusi, dan tanya jawab<br>3x50             |  | <b>Materi:</b><br>Koefisien Binomial, Koefisien Multinomial, dan Prinsip 'Sangkar Burung'<br><b>Pustaka: /</b><br><i>Ketut Budayasa. (2022). Matematika Diskrit. Unesa University Press.</i><br><br><b>Materi:</b><br>Koefisien Binomial, Koefisien Multinomial, dan Prinsip 'Sangkar Burung'<br><b>Pustaka:</b><br><i>Kenneth H. Rosen. (2011). Discrete Mathematics and Its Applications (7th edition). New York: McGraw-Hill.</i> | 4% |
| 6 | Mampu menerapkan Fungsi Pembangkit Biasa dan Fungsi Pembangkit Eksponensial                  | 1.Mampu menyelesaikan fungsi pembangkit biasa<br>2.Mampu menyelesaikan fungsi pembangkit eksponensial                               | <b>Kriteria:</b><br>1.Ketepatan dalam menyelesaikan fungsi pembangkit biasa<br>2.Ketepatan dalam menyelesaikan fungsi pembangkit eksponensial<br><b>Bentuk Penilaian :</b><br>Aktifitas Partisipasif | Pendekatan case study, diskusi dan tanya jawab<br>3x50 |  | <b>Materi:</b><br>Fungsi Pembangkit<br><b>Pustaka: /</b><br><i>Ketut Budayasa. (2022). Matematika Diskrit. Unesa University Press.</i>                                                                                                                                                                                                                                                                                               | 3% |
| 7 | Mampu menerapkan Fungsi Pembangkit Biasa dan Fungsi Pembangkit Eksponensial                  | Mampu menyelesaikan masalah yang berkaitan fungsi pembangkit biasa dan eksponensial                                                 | <b>Kriteria:</b><br>Kuantitatif<br><b>Bentuk Penilaian :</b><br>Aktifitas Partisipasif                                                                                                               | Diskusi dan tanya jawab<br>3x50                        |  | <b>Materi:</b><br>Fungsi Pembangkit Biasa dan Eksponensial<br><b>Pustaka: /</b><br><i>Ketut Budayasa. (2022). Matematika Diskrit. Unesa University Press.</i>                                                                                                                                                                                                                                                                        | 4% |

|    |                                                                                                              |                                                              |                                                                                            |                                 |  |                                                                                                                                                                        |     |
|----|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 8  | 1.Mampu menerapkan prinsip pencacahan fundamental<br>2.Mampu menerapkan konsep dan prinsip fungsi pembangkit | Tes                                                          | <b>Kriteria:</b><br>Kuantitatif<br><br><b>Bentuk Penilaian :</b><br>Tes                    |                                 |  | <b>Materi:</b><br>Prinsip Pencacahan Fundamental, Fungsi Pembangkit<br><b>Pustaka: /</b><br>Ketut Budayasa. (2022). <i>Matematika Diskrit. Unesa University Press.</i> | 20% |
| 9  | Mampu menyelesaikan permasalahan relasi rekursif                                                             | Mampu menyelesaikan relasi rekursif linear homogen derajat-k | <b>Kriteria:</b><br>Kuantitatif<br><br><b>Bentuk Penilaian :</b><br>Aktifitas Partisipatif | Diskusi dan tanya jawab<br>3x50 |  | <b>Materi:</b> Relasi Rekursif Linear<br><b>Pustaka: /</b><br>Ketut Budayasa. (2022). <i>Matematika Diskrit. Unesa University Press.</i>                               | 4%  |
| 10 | Mampu menyelesaikan permasalahan relasi rekursif                                                             | Mampu menyelesaikan relasi rekursif dengan fungsi pembangkit | <b>Kriteria:</b><br>Kuantitatif<br><br><b>Bentuk Penilaian :</b><br>Aktifitas Partisipatif | Ceramah dan diskusi<br>3x50     |  | <b>Materi:</b> Relasi Rekursif dengan Fungsi Pembangkit<br><b>Pustaka: /</b><br>Ketut Budayasa. (2022). <i>Matematika Diskrit. Unesa University Press.</i>             | 3%  |
| 11 | Mampu menyelesaikan permasalahan relasi rekursif                                                             | Mampu menyelesaikan sistem relasi rekursif                   | <b>Kriteria:</b><br>Kuantitatif<br><br><b>Bentuk Penilaian :</b><br>Aktifitas Partisipatif | Diskusi dan ceramah<br>3x50     |  | <b>Materi:</b> Sistem Relasi Rekursif<br><b>Pustaka: /</b><br>Ketut Budayasa. (2022). <i>Matematika Diskrit. Unesa University Press.</i>                               | 4%  |
| 12 | Mampu menerapkan prinsip inklusi-eksklusi dalam menyelesaikan masalah                                        | Mampu menjelaskan konsep prinsip inklusi-eksklusi            | <b>Kriteria:</b><br>Kuantitatif<br><br><b>Bentuk Penilaian :</b><br>Aktifitas Partisipatif | Diskusi dan ceramah<br>3x50     |  | <b>Materi:</b> Prinsip Inklusi-Eksklusi<br><b>Pustaka: /</b><br>Ketut Budayasa. (2022). <i>Matematika Diskrit. Unesa University Press.</i>                             | 3%  |
| 13 | Mampu menerapkan prinsip inklusi-eksklusi dalam menyelesaikan masalah                                        | Mampu menerapkan prinsip inklusi-eksklusi                    | <b>Kriteria:</b><br>Kuantitatif<br><br><b>Bentuk Penilaian :</b><br>Aktifitas Partisipatif | Diskusi dan ceramah<br>3x50     |  | <b>Materi:</b> Prinsip Inklusi-Eksklusi<br><b>Pustaka: /</b><br>Ketut Budayasa. (2022). <i>Matematika Diskrit. Unesa University Press.</i>                             | 4%  |

|    |                                                                                                                                                                                                                                            |                                                                                                        |                                                                                            |                             |  |                                                                                                                                                                                                                    |     |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 14 | Mampu menerapkan prinsip inklusi-eksklusi dalam menyelesaikan masalah                                                                                                                                                                      | Mampu menjelaskan bentuk umum prinsip inklusi-eksklusi                                                 | <b>Kriteria:</b><br>Kuantitatif<br><br><b>Bentuk Penilaian :</b><br>Aktifitas Partisipasif | Diskusi dan ceramah<br>3x50 |  | <b>Materi:</b><br>Prinsip Inklusi-Eksklusi<br><b>Pustaka: /</b><br>Ketut Budayasa. (2022). <i>Matematika Diskrit</i> . Unesa University Press.                                                                     | 3%  |
| 15 | Mampu menerapkan prinsip inklusi-eksklusi dalam menyelesaikan masalah                                                                                                                                                                      | Mampu menyelesaikan relasi rekursif dengan banyak obyek yang memiliki sifat sebanyak genap atau ganjil | <b>Kriteria:</b><br>Kuantitatif<br><br><b>Bentuk Penilaian :</b><br>Aktifitas Partisipasif | Diskusi dan ceramah<br>3x50 |  | <b>Materi:</b><br>Prinsip Inklusi-Eksklusi<br><b>Pustaka: /</b><br>Ketut Budayasa. (2022). <i>Matematika Diskrit</i> . Unesa University Press.                                                                     | 4%  |
| 16 | 1.Mampu menerapkan konsep dan prinsip pencacahan fundamental<br>2.Mampu menerapkan konsep dan prinsip fungsi pembangkit<br>3.Mampu menerapkan konsep dan prinsip relasi rekursif<br>4.Mampu menerapkan konsep dan prinsip inklusi-eksklusi | UAS                                                                                                    | <b>Kriteria:</b><br>UAS<br><br><b>Bentuk Penilaian :</b><br>Tes                            |                             |  | <b>Materi:</b><br>Prinsip Pencacahan Fundamental, Fungsi Pembangkit, Relasi Rekursif, Prinsip Inklusi-Eksklusi<br><b>Pustaka: /</b><br>Ketut Budayasa. (2022). <i>Matematika Diskrit</i> . Unesa University Press. | 30% |

#### Rekap Persentase Evaluasi : Case Study

| No | Evaluasi               | Persentase |
|----|------------------------|------------|
| 1. | Aktifitas Partisipasif | 50%        |
| 2. | Tes                    | 50%        |
|    |                        | 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 20 Juli 2025

Koordinator Program Studi S1  
Matematika



RADEN SULAIMAN  
NIDN 0026036701

**UPM** Program Studi S1  
Matematika



NIDN 0029068302

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