



**INSTITUT TEKNOLOGI SEPULUH NOPEMBER**  
**FAKULTAS SAINS DAN ANALITIKA DATA**  
**PROGRAM STUDI MAGISTER STATISTIKA**  
**DEPARTEMEN STATISTIKA**

**Kode  
Dokumen**  
  
**REV-1**

**RENCANA PEMBELAJARAN SEMESTER**

| MATA KULIAH (MK)                                                            |                                         | KODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Rumpun MK                               | BOBOT (sks)                             |     | SEMESTER                   | Tgl<br>Penyusunan |
|-----------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------|-----|----------------------------|-------------------|
| Kapita Selekt Statistika Terapan                                            |                                         | SS255335                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Analitika Data Ekonomi dan<br>Finansial | T=3                                     | P=0 | III                        | Agustus<br>2026   |
| OTORISASI                                                                   |                                         | Pengembang RPS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         | Koordinator RMK                         |     | Kepala PRODI               |                   |
|                                                                             |                                         | Dr. Sutikno, S.Si., M.Si.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                         | Dr. Muhammad Sjahid Akbar, S.Si., M.Si. |     | Irhamah, S.Si, M.Si, Ph.D. |                   |
| Capaian<br>Pembelajaran<br>(CP)<br><br><i>Learning<br/>Outcome<br/>(LO)</i> | CPL-PRODI yang dibebankan pada MK       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                         |     |                            |                   |
|                                                                             | CPL-2<br><i>PLO-2</i>                   | Mampu mengembangkan dan memecahkan permasalahan ilmu pengetahuan dan teknologi dalam bidang keilmuan nya melalui riset dengan pendekatan inter atau multidisiplin hingga menghasilkan karya inovatif dan teruji dalam bentuk tesis dan makalah yang telah diterima di jurnal ilmiah nasional terakreditasi atau diterima di seminar internasional bereputasi.<br><i>Able to develop and solve science and technology problems in their field through research with an inter or multidisciplinary approach to produce innovative and tested works in the form of theses and papers that have been accepted in accredited national journals or accepted at reputable international seminars.</i> |                                         |                                         |     |                            |                   |
|                                                                             | CPL-3<br><i>PLO-3</i>                   | Mampu mengelola pembelajaran diri sendiri, dan mengembangkan diri sebagai pribadi pembelajar sepanjang hayat untuk bersaing di tingkat nasional, maupun internasional, dalam rangka berkontribusi nyata untuk menyelesaikan masalah dengan mengimplementasikan teknologi informasi dan komunikasi dan memperhatikan prinsip keberlanjutan.<br><i>Able to manage their own learning and develop themselves as personal lifelong learners to compete at national and international levels, in order to make a real contribution to solving problems by implementing information and communication technology and paying attention to the principle of sustainability.</i>                        |                                         |                                         |     |                            |                   |
|                                                                             | CPL-8<br><i>PLO-8</i>                   | Mampu menganalisis dan mengevaluasi metode statistika untuk merumuskan solusi pada permasalahan teoritis dan riil dengan pendekatan multidisipliner<br><i>Able to analyze and evaluate statistical methodologies to formulate solutions for theoretical and real-world problems using a multidisciplinary approach.</i>                                                                                                                                                                                                                                                                                                                                                                        |                                         |                                         |     |                            |                   |
|                                                                             | CPL-9<br><i>PLO-9</i>                   | Mampu menganalisis dan mengevaluasi metode statistika berbasis komputasi atau analitik yang inovatif untuk mengatasi permasalahan riil di bidang bisnis, industri, ekonomi, finansial, sosial dan pembangunan berkelanjutan, lingkungan, kesehatan, serta mengevaluasi dampaknya terhadap pengambilan keputusan<br><i>Able to analyze and evaluate innovative computation- or analytics-based statistical methods to address real-world problems in business, industry, economics and finance, social and sustainable development, environment, and health, and to assess their impact on decision-making.</i>                                                                                 |                                         |                                         |     |                            |                   |
|                                                                             | Capaian Pembelajaran Mata Kuliah (CPMK) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                         |     |                            |                   |



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|                                                  |                                                                                                                                                                                                                                                                                                   |
| <b>Bahan Kajian:<br/>Materi<br/>Pembelajaran</b> | Matematika, Teori Statistika, Deskripsi dan Eksplorasi, Pemodelan, Kesehatan dan Lingkungan<br><i>Mathematics, Statistical Theory, Description and Exploration, Modeling, Health and Environment</i>                                                                                              |
| <b>Pustaka</b>                                   | <b>Utama :</b>                                                                                                                                                                                                                                                                                    |
|                                                  | Jurnal-jurnal statistika internasional seperti : Journal of Royal Statistical Society, Econometrica, Journal of Econometrics, Journal of Time Series Analysis, Journal of Applied Statistics, Journal of Statistical Computation and Simulation, Journal of American Statistical Association, etc |
|                                                  | <b>Pendukung :</b>                                                                                                                                                                                                                                                                                |
|                                                  |                                                                                                                                                                                                                                                                                                   |
| <b>Dosen<br/>Pengampu</b>                        | Dr. Sutikno, S.Si., M.Si.                                                                                                                                                                                                                                                                         |
| <b>Matakuliah<br/>syarat</b>                     | -                                                                                                                                                                                                                                                                                                 |

| Mg Ke- | Kemampuan akhir<br>tiap tahapan belajar<br>(Sub-CPMK)                                                                                                                                                                                          | Penilaian                                                                                                                                                                                                     |                                             | Bantuk Pembelajaran,<br>Metode Pembelajaran,<br>Penugasan Mahasiswa,<br>[Estimasi Waktu] |                 | Materi<br>Pembelajaran<br>[Pustaka]                                                  | Bobot<br>Penilaian (%) |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------|------------------------|
|        |                                                                                                                                                                                                                                                | Indikator                                                                                                                                                                                                     | Kriteria &<br>Bentuk                        | Luring (offline)                                                                         | Daring (online) |                                                                                      |                        |
| (1)    | (2)                                                                                                                                                                                                                                            | (3)                                                                                                                                                                                                           | (4)                                         | (5)                                                                                      | (6)             | (7)                                                                                  | (8)                    |
| 1      | 1. Memahami aspek-aspek penting dalam publikasi di jurnal internasional statisika, serta berbagai macam jurnal yang ada<br><i>1. Understand the important aspects of publication in international statistical journals, as well as various</i> | 1. Mengetahui berbagai macam jurnal internasional statistika, kualitas dan topik topik didalamnya<br><i>1. Knowing various kinds of international statistical journals, their quality, and topics in them</i> | Observasi kelas<br><i>Class observation</i> | PBL;<br>Diskusi<br><i>PBL; Discussion</i><br><br>150 menit<br><i>150 minutes</i>         |                 | 1. Pendahuluan :<br>Jurnal statistika<br><i>1. Introduction: Statistical journal</i> | 5%/5%                  |

| Mg Ke- | Kemampuan akhir tiap tahapan belajar (Sub-CPMK)                                                | Penilaian                                                                                    |                                                                           | Bentuk 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)                 |
|        | <i>types of journals.</i>                                                                      |                                                                                              |                                                                           |                                                                                                                                                   |                 |                                                       |                     |
| 2 – 4  | 2. Mampu memahami materi topik pilihan 1<br><i>2. Able to understand the topic of choice 1</i> | 1. Memahami materi jurnal untuk topik 1<br><i>1. Understand journal material for topic 1</i> | Tugas review dan presentasi<br><i>Review and presentation assignments</i> | PBL; Ceramah;<br>Diskusi, konsultasi, seminar<br>PBL; <i>Lecture; Discussions, consultations, seminars</i><br><br>450 menit<br><i>450 minutes</i> |                 | 1. Topik pilihan 1<br><i>1. 1. Topics of choice 1</i> | 10%/15%             |
| 5 – 7  | 3. Mampu memahami materi topik pilihan 2<br><i>3. Able to understand the topic of choice 2</i> | 1. Memahami materi jurnal untuk topik 2<br><i>1. Understand journal material for topic 2</i> | Tugas review dan presentasi<br><i>Review and presentation assignments</i> | PBL; Ceramah;<br>Diskusi, konsultasi, seminar<br>PBL; <i>Lecture; Discussions, consultation, seminars</i><br><br>450 menit<br><i>450 minutes</i>  |                 | 1. Topik pilihan 2<br><i>1. Topics of choice 2</i>    | 15%/30%             |

| Mg Ke-  | Kemampuan akhir tiap tahapan belajar (Sub-CPMK)                                                         | Penilaian                                                                                    |                                                                           | Bentuk 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)                 |
| 8 – 9   | 4. Mampu memahami materi topik pilihan 3<br><i>4. Able to understand the choice of topic material 3</i> | 1. Memahami materi jurnal untuk topik 3<br><i>1. Understand journal material for topic 3</i> | Tugas review dan presentasi<br><i>Review and presentation assignments</i> | PBL; Ceramah;<br>Diskusi, konsultasi, seminar<br><i>PBL; Lecture; Discussion, consultation, seminar</i><br><br>300 menit<br><i>300 minutes</i> |                 | 1. Topik pilihan 3<br><i>1. Topic choice 3</i>     | 15%/45%             |
| 10 – 11 | 5. Mampu memahami materi topik pilihan 4<br><i>5. Able to understand the topic of choice 4</i>          | 1. Memahami materi jurnal untuk topik 4<br><i>1. Understand journal material for topic 4</i> | Tugas review dan presentasi<br><i>Review and presentation assignments</i> | PBL; Ceramah;<br>Diskusi, konsultasi, seminar<br><i>PBL; Lecture; Discussion, consultation, seminar</i><br><br>300 menit<br><i>300 minutes</i> |                 | 1. Topik pilihan 4<br><i>1. Topics of choice 4</i> | 15%/60%             |

| Mg Ke- | Kemampuan akhir tiap tahapan belajar (Sub-CPMK)                                                                                                                        | Penilaian                                                                                                                                                                                    |                                                                           | Bentuk 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)                 |
| 12-14  | 6. Mampu melakukan evaluasi sebuah karya ilmiah<br><i>6. Able to evaluate a scientific work</i>                                                                        | 1. Mengidentifikasi dan memahami bagaimana menghasilkan sebuah karya ilmiah yang bagus<br><i>1. Identify and understand how to produce a good scientific paper</i>                           | Tugas review dan presentasi<br><i>Review and presentation assignments</i> | PBL; Ceramah;<br>Diskusi, konsultasi, seminar<br><i>PBL; Lecture; Discussions, consultations, seminars</i><br><br>450 menit<br><i>450 minutes</i> |                 | 1. Evaluasi karya ilmiah<br><i>1. Evaluation of scientific work</i>                                                                             | 15%/75%             |
| 15-16  | 7. Mampu menyusun draft karya ilmiah berstandar jurnal internasional<br><i>7. Able to compile drafts of scientific papers with international standards of journals</i> | 1. Mampu menulis draft karya ilmiah yang layak dipublikasikan di jurnal internasional<br><i>1. Able to write drafts of scientific papers worthy of publication in international journals</i> | Tugas laporan<br><i>Report assignments</i>                                | PBL; Ceramah;<br>Diskusi, konsultasi, seminar<br><i>PBL; Lecture; Discussions, consultations, seminars</i><br><br>300 menit<br><i>300 minutes</i> |                 | 1. Konsultasi draft karya ilmiah berstandar internasional<br><i>1. Consultation on drafts of scientific papers with international standards</i> | 25%/100%            |