<table>
<thead>
<tr>
<th>Proses Process</th>
<th>Penanggung Jawab Person in Charge</th>
<th>Tanggal Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perumus Preparation</td>
<td>Dr. Kartika Fithriasari, M.Si</td>
<td>March 28, 2019</td>
</tr>
<tr>
<td>Pemeriksa dan Pengendalian Review and Control</td>
<td>Dr. Dra. Kartika Fithriasari, M.Si ; Erma Oktania Permatasari, S.Si., M.Si.</td>
<td>April 15, 2019</td>
</tr>
<tr>
<td>Persetujuan Approval</td>
<td>Prof. NUR Iriawan</td>
<td>July 17, 2019</td>
</tr>
<tr>
<td>Penetapan Determination</td>
<td>Dr. Kartika Fithriasari, M.Si</td>
<td>July 30, 2019</td>
</tr>
</tbody>
</table>
## Module Handbook
### Data Analysis

<table>
<thead>
<tr>
<th>Module name</th>
<th>Data Analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module level</td>
<td>Undergraduate</td>
</tr>
<tr>
<td>Code</td>
<td>KS184747</td>
</tr>
<tr>
<td>Course (if applicable)</td>
<td>Data Analysis</td>
</tr>
<tr>
<td>Semester</td>
<td>Seventh Semester (Ganjil)</td>
</tr>
<tr>
<td>Person responsible for the module</td>
<td>Dr. Kartika Fithriasari, M.Si</td>
</tr>
<tr>
<td>Lecturer</td>
<td>Dr. Dra. Kartika Fithriasari, M.Si ; Erma Oktania Permatasari, S.Si., M.Si.</td>
</tr>
<tr>
<td>Language</td>
<td>Bahasa Indonesia and English</td>
</tr>
<tr>
<td>Relation to curriculum</td>
<td>Undergraduate degree program, mandatory, 7th semester.</td>
</tr>
<tr>
<td>Type of teaching, contact hours</td>
<td>Lectures, &lt;50 students</td>
</tr>
<tr>
<td>Workload</td>
<td>1. Lectures : 3 x 50 = 150 minutes per week.</td>
</tr>
<tr>
<td></td>
<td>2. Practicum : 135 minutes per week.</td>
</tr>
<tr>
<td></td>
<td>3. Exercises and Assignments : 3 x 60 = 180 minutes (3 hours) per week.</td>
</tr>
<tr>
<td></td>
<td>4. Private learning : 3 x 60 = 180 minutes (3 hours) per week.</td>
</tr>
<tr>
<td>Credit points</td>
<td>3 credit points (SKS)</td>
</tr>
<tr>
<td>Requirements according to the examination regulations</td>
<td>A student must have attended at least 80% of the lectures to sit in the exams.</td>
</tr>
<tr>
<td>Mandatory prerequisites</td>
<td>Analisis Deret Waktu/Time Series Analysis</td>
</tr>
<tr>
<td></td>
<td>Analisis Multivariat/Analysis of Multivariate</td>
</tr>
<tr>
<td></td>
<td>Analisis regresi/Regression Analysis</td>
</tr>
<tr>
<td></td>
<td>Analisis data Kategori/Categorical Data Analysis</td>
</tr>
<tr>
<td>Learning outcomes and their corresponding PLOs</td>
<td>CPMK.1 Able to recall concepts in basic and advanced statistics (anova, regression, experimental design, multivariate analysis, Qualitative Data Analysis, and time series analysis), data management in statistical program packages.</td>
</tr>
<tr>
<td></td>
<td>CPMK.3 Able to present and analyze data with the right statistical methods and interpret it</td>
</tr>
<tr>
<td></td>
<td>CPMK.4 Able to formulate a real problem that can be solved by statistical methods</td>
</tr>
<tr>
<td></td>
<td>CPMK.5 Able to use computing techniques and modern computer devices required in the field of statistics and data science</td>
</tr>
<tr>
<td></td>
<td>CPMK.6 Students are able to work on projects</td>
</tr>
<tr>
<td>PLO</td>
<td>3</td>
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<tr>
<td>PLO</td>
<td>4</td>
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<tr>
<td>PLO</td>
<td>5</td>
</tr>
<tr>
<td>PLO</td>
<td>6</td>
</tr>
<tr>
<td>CPMK.7</td>
<td>Able to communicate effectively and cooperate in interdisciplinary and multidisciplinary teams</td>
</tr>
<tr>
<td>CPMK.8</td>
<td>Has professional responsibilities and ethics</td>
</tr>
<tr>
<td>CPMK.9</td>
<td>Able to motivate yourself to think creatively and learn throughout life</td>
</tr>
</tbody>
</table>

| Content | This course focuses on the ability of students to be able to apply statistical methods that have been studied so far related to solving real problems in the field properly and correctly. In addition, students are equipped with the ability to use the correct analytical methods, the ability to process and analyze data and output interpretation obtained from statistical software. Students are also required to communicate the results of their analysis in the form of written and oral reports. |

| Study and examination requirements and forms of examination | • In-class exercises  
• Assignment 1, 2, 3  
• Mid-term examination  
• Final examination |

| Media employed | LCD, whiteboard, websites (myITS Classroom), zoom. |

| Reading list | 1. Data analysis and Graphic using R: An example Based approach, Cambridge Series 2010  
2. Modul Ajar Analisis Data II Jurusan Statistika ITS  
3. Paket Program SPSS; MINITAB |
<table>
<thead>
<tr>
<th>Program Studi</th>
<th>Sarjana, Departemen Statistika, FMKSD-ITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mata Kuliah</td>
<td>Analisis Data</td>
</tr>
<tr>
<td>Kode Mata Kuliah</td>
<td>KS184747</td>
</tr>
<tr>
<td>Semester/SKS</td>
<td>VII/3</td>
</tr>
<tr>
<td>MK Prasyarat</td>
<td>Analisis Deret Waktu, Analisis Multivariat, Analisis regresi, Analisis data Kategori</td>
</tr>
<tr>
<td>RP-S1</td>
<td>Dosen Pengampu Dr. Dra. Kartika Fithriasari, M.Si ; Erma Oktania Permatasari, S.Si., M.Si.</td>
</tr>
</tbody>
</table>

**Bahan Kajian**


**CPL yang dibebankan MK**

| CPL-3 Mampu menganalisis data dengan metode statistika yang tepat dan menginterpretasikannya |
| CPL-4 Mampu mengidentifikasi, memformulasi, dan menyelesaikan masalah statistika di berbagai bidang terapan |
| CPL-5 Mampu menggunakan teknik komputasi dan perangkat komputer modern yang diperlukan dalam bidang statistika dan sains data |
| CPL-6 Mampu menggunakan teknik komputasi dan perangkat komputer modern yang diperlukan dalam bidang statistika dan sains data |
| CPL-7 Mampu berkomunikasi secara efektif dan bekerjasama dalam tim yang interdisiplin dan multidisiplin |

**CP-MK**

| CPMK.1 Mampu mengingat kembali konsep-konsep dalam statistika dasar dan lanjut (anova, regresi, desain eksperimen, analisis multivariate, analisis data kualitatif, dan analisis deret waktu), manajemen data di dalam paket program statistika |
| CPMK.2 Mampu menyiapkan dan menganalisis data dengan metode statistika yang tepat dan menginterpretasikannya |
| CPMK.3 Mampu menggunakan teknik komputasi dan perangkat komputer modern yang diperlukan dalam bidang statistika dan sains data |
| CPMK.4 Mahasiswa mampu mengerjakan proyek secara mandiri (konsultasi) serta mampu melakukan penulisan laporan dan presentasi proyek dengan baik |
| CPMK.5 Mampu berkomunikasi secara efektif dan bekerjasama dalam tim yang interdisiplin dan multidisiplin |
| CPMK.6 Memiliki tanggung jawab dan etika profesi |
| CPMK.7 Mampu memotivasi diri untuk berpikir kreatif dan belajar sepanjang hayat |

| Perte-
| Kembamui
| Kemampuan Akhir
| Keluasan (materi
| Metode
| Estimasi
| Bentuk Evaluasi
| Kriteria dan Indikator Penilaian
| Bobot
| Bobot
| Meeting |
| Sub CP-MK |
| Sub-CLO |
| Final Capability |
| pembelajaran |
| Learning Extent (Learning Materials) |
| Methods Learning |
| Estimated Time |
| Evaluation Form |
| Assessment Criteria and Indicator |
| Scoring Weight |
| 1. Mampu mengingat kembali konsep-konsep dalam statistika dasar dan lanjut (anova, regresi, desain eksperimen, |
| Ruang lingkup mata kuliahan, anova, regresi, desain eksperimen, Analisis multivariate, Analisis Data Kualitatif, Analisis Deret Waktu, |
| Ceramah Interaktif-Latihan Soal-Praktikum (CILSP) Interactive Lecture |
| 200 menit 200 Minutes |
| Observasi Aktifitas di kelas Activity Observation in Class |
| Dapat menjelaskan konsep-konsep di dalam statistika dasar dan lanjut (anova, regresi, analisis multivariate, Analisis data kualitatif, dan analisis deret waktu). Can explain concepts in basic and advanced statistics (anova, |
| 5%/5% |
Program Studi | Sarjana, Departemen Statistika, FMKSD-ITS  
Mata Kuliah | Analisis Data  
Kode Mata Kuliah | KS184747  
Semester/SKS | VII/3  
MK Prasyarat | Analisis Deret Waktu, Analisis Multivariat, Analisis regresi, Analisis data Kategori  
RP-S1 | Dosen Pengampu | Dr. Dra. Kartika Fithriasari, M.Si ; Erma Oktania Permatasari, S.Si., M.Si.  

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<thead>
<tr>
<th>Pertemuan Meeting</th>
<th>Kemampuan Akhir Sub CP-MK</th>
<th>Keluasan (materi pembelajaran)</th>
<th>Metode Pembelajaran Learning Methods</th>
<th>Estimasi Waktu Estimated Time</th>
<th>Bentuk Evaluasi Evaluation Form</th>
<th>Kriteria dan Indikator Penilaian Assessment Criteria and Indicator</th>
<th>Bobot Penilaian Scoring Weight</th>
</tr>
</thead>
</table>
| 1 | Analisis multivariate, Analisis Data Kualitatif, dan analisis deret waktu), manajemen data di dalam paket program statistika.  
1. Able to recall concepts in basic and advanced statistics(anova, regression, experimental design, multivariate analysis, qualitative data analysis, and time series analysis), data management in statistical program packages. | Review manajemen data MINITAB dan SPSS, R Scope of courses, anova, regression, experimental design, multivariate analysis, qualitative data analysis, and time series analysis), data management in statistical program packages. | Exercise-Practice (CILSP) | 200 menit | Observasi Aktivitas di kelas Activity Observation in Class | regression, multivariate analysis, qualitative data analysis, and time series analysis). | 5%/10% |
| 2 | Mampu menyajikan data univariate dan multivariate dalam bentuk tabel dan grafik menggunakan | Penyajian data univariate dan multivariate dalam bentuk tabel dan grafik dengan MINITAB dan SPSS, Statistik deskriptif dari | Ceramah Interaktif- Latihan Soal-Praktikum (CILSP) | 200 menit | Observasi Aktivitas di kelas Activity Observation in Class | 1. Mampu membuat tabel dan grafik dari data univariate dan multivariate dengan MINITAB dan SPSS.  
2. Mampu menghitung statistik deskriptif dari data univariate dan  | 5%/10% |
<table>
<thead>
<tr>
<th>Pertemuan</th>
<th>Kemampuan Akhir</th>
<th>Keluasan (materi pembelajaran)</th>
<th>Metode Pembelajaran</th>
<th>Estimasi Waktu</th>
<th>Bentuk Evaluasi</th>
<th>Kriteria dan Indikator Penilaian</th>
<th>Bobot Penilaian</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>paket program statistika.</td>
<td>data univariate dan multivariate dengan MINITAB dan SPSS, pengujian distribusi normal multivariate dengan R</td>
<td>Interactive Lecture-Exercise-Practice (CILSP)</td>
<td>200 menit</td>
<td>Observasi Aktivitas di kelas</td>
<td>multivariate dengan MINITAB dan SPSS.</td>
<td>5%/15%</td>
</tr>
<tr>
<td>2.</td>
<td>Able to present univariate and multivariate data in the form of tables and graphs using statistics program packages.</td>
<td>Presentation of univariate and multivariate data in the form of tables and graphs with MINITAB and SPSS, Descriptive statistics of univariate and multivariate data with MINITAB and SPSS, testing distribusi normal multivariate with R</td>
<td>Active lectures in the lab, practice</td>
<td>200 menit</td>
<td>Activity Observation in Class</td>
<td>1. Able to create tables and graphs from univariate and multivariate data with MINITAB and SPSS.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Students are able to do the estimation</td>
<td>Mahasiswa dapat:</td>
<td>200 Minutes</td>
<td>Mahasiswa dapat:</td>
<td></td>
<td>2. Able to calculate descriptive statistics of univariate and multivariate data with MINITAB and SPSS.</td>
<td></td>
</tr>
</tbody>
</table>

1. Mahasiswa mampu melakuukan pendugaan titik parameter satu populasi berdistribusi normal maupun tidak dengan bantuan paket program.
2. Mahasiswa dapat:
   - **Pendugaan titik parameter satu populasi berdistribusi normal**
   - **Pendugaan titik parameter satu populasi tidak berdistribusi normal**

3. Mahasiswa dapat:
   - **Menghitung taksiran mean dan varians untuk satu populasi berdistribusi normal.**
   - **Menghitung taksiran mean dan varians untuk satu populasi tidak berdistribusi normal dengan bootstrap.**
   - **Menduga taksiran interval parameter satu populasi berdistribusi normal**
| Perte-| Kemampuan Akhir Sub CP-MK | Keluasan (materi pembelajaran) | Metode Pembelajaran | Estimasi Waktu | Bentuk Evaluasi | Kriteria dan Indikator Penilaian | Bobot Penilaian |
|———|———|———|———|———|———|———|———|
| muan | Sub-CLO Final Capability | Extent (Learning Materials) | Learning Methods | Estimated Time | Evaluation Form | Assessment Criteria and Indicator | Scoring Weight |
| Meeting | | | | | | | |
| | of the point and interval of one normal distribution population or not with the help of the program package | | | | | | |
| | • Pendugaan interval parameter satu populasi berdistribusi normal. | | | | | | |
| | • Pendugaan interval parameter satu populasi tidak berdistribusi normal. | | | | | | |
| | • Estimation of parameter points of one normally distributed population | | | | | | |
| | • Estimation of parameter points of one population is not normally distributed | | | | | | |
| | • The estimation of the parameter interval of one population is normally distributed. | | | | | | |
| | • The estimation of the parameters interval of one population is not normally distributed. | | | | | | |
| 4.5 | Mahasiswa dapat: | | | | | | |
| 4. | 1. Menduga parameter model regresi. | | | | | | |
| | 2. Calculating mean estimates and variances for a single population is not normally distributed with bootstrap. | | | | | | |
| | 3. Expects the estimated parameter interval of one population to be normal or abnormal. | | | | | | 

<p>| Program Studi | Sarjana, Departemen Statistika, FMKSD-ITS |
|———|———|
| Mata Kuliah | Analisis Data |
| Kode Mata Kuliah | KS184747 |
| Semester/SKS | VII/3 |
| MK Prasyarat | Analisis Deret Waktu, Analisis Multivariat, Analisis regresi, Analisis data Kategori |
| RP-S1 | Dosen Pengampu | Dr. Dra. Kartika Fithriasari, M.Si ; Erma Oktania Permatasari, S.Si., M.Si. |</p>
<table>
<thead>
<tr>
<th>Pernghubungan Meeting</th>
<th>Kemampuan Akhir Sub CP-MK</th>
<th>Keluasan (materi pembelajaran)</th>
<th>Metode Pembelajaran</th>
<th>Estimasi Waktu</th>
<th>Bentuk Evaluasi</th>
<th>Kriteria dan Indikator Penilaian</th>
<th>Bobot Penilaian Scoring Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(sederhana, berganda dan dummy) serta menguji asumsi yang disyaratkan dengan bantuan software statistika</td>
<td>• Regresi dummy</td>
<td>Active lectures in the lab, Practice</td>
<td>200 Minutes</td>
<td>Activity Observation in Class</td>
<td>2. Menguji parameter model regresi (serentak dan individu) 3. Memilih model terbaik. Students can: 1. Guess the parameters of the regression model. 2. Test regression model parameters (simultaneous and individual) 3. Choose the best model.</td>
<td>5%/25%</td>
</tr>
<tr>
<td></td>
<td>4. Students are able to model regressions (simple, multiple and dummy) as well as test the required assumptions with the help of statistics software</td>
<td>• Pengujian asumsi residual</td>
<td></td>
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<tr>
<td></td>
<td>5. Students can solve the problem of experimental design</td>
<td>• Simple regression</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>• Multiple regresi</td>
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<td></td>
<td>• Dummy regression</td>
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<td></td>
<td></td>
<td>• Residual assumption testing</td>
<td></td>
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<tr>
<td></td>
<td>6-7</td>
<td>• Rancangan Acak Lengkap</td>
<td>Ceramah aktif di lab, praktikum</td>
<td>200 menit 200 Minutes</td>
<td>Observasi Aktifitas di kelas</td>
<td>Mahasiswa dapat menganalisa hasil untuk : 1. Rancangan Acak lengkap. 2. Rancangan Blok Acak lengkap. 3. Rancangan percobaan faktorial. Students can analyze the results for: 1. Complete Random Design. 2. Complete Random Block Design. 3. The design of the experiment is factorial.</td>
<td>5%/25%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Rancangan Blok Acak Lengkap</td>
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<td></td>
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<td>• Rancangan faktorial untuk K faktor.</td>
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<td></td>
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<td>• Complete Random Design</td>
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<td></td>
<td></td>
<td>• Complete Random Block Design</td>
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<td></td>
<td></td>
<td>• Factorial design for K factors.</td>
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<tr>
<td>8</td>
<td>using the package program and test the required assumptions</td>
<td>Analisis Komponen Utama dengan MINITAB, SPSS. Analisis Faktor dengan MINITAB, SPSS, R Analysis of Key Components with MINITAB, SPSS. Factor Analysis with MINITAB, SPSS, R</td>
<td>Ceramah aktif di lab, praktikum Active lectures in the lab, Practice</td>
<td>200 menit 200 Minutes</td>
<td>Tes &amp; Observasi Aktivitas di kelas (TOA) Test &amp; Activity Observation in Class</td>
<td>Mampu menganalisis data real dengan metode analisis komponen utama dan Analisis Faktor dengan menggunakan MINITAB dan SPSS,R Able to analyze real data with key component analysis methods and Factor Analysis using MINITAB and SPSS,R</td>
<td>5%/50%</td>
</tr>
<tr>
<td>9</td>
<td>Mampu mampu menerapkan Analisis Komponen utama dan Analisis Faktor dengan bantuan paket program statistika. 6. Able to apply key Component Analysis and Factor Analysis with the help of statistics program package.</td>
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<tr>
<td>10-11</td>
<td>Mampu menerapkan Analisis Diskriminan dan Analisis Cluster dengan bantuan paket program statistika</td>
<td></td>
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</tbody>
</table>

- Analisis Diskriminan dengan MINITAB, SPSS
- Analisis Cluster dengan MINITAB, SPSS, R
- Discriminant Analysis with MINITAB, SPSS
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>7.</td>
<td>Able to implement Discriminant Analysis and Cluster Analysis with the help of statistical program package</td>
<td>Cluster Analysis with MINITAB, SPSS, R</td>
<td>Ceramah aktif di lab, praktikum Active lectures in the lab, Practice</td>
<td>200 menit 200 Minutes</td>
<td>Observasi aktifitas di kelas Activity Observation in Class</td>
<td>Analysis method by using MINITAB, SPSS, R</td>
<td>-</td>
</tr>
<tr>
<td>8.</td>
<td>Mampu menerapkan Analisis Regresi Logistik biner dengan bantuan paket program statistika 8. Able to implement binary Logistic Regression Analysis with the help of statistical program package</td>
<td>Analisis Regresi Logistik dengan MINITAB, SPSS, R laporan dan presentasi Logistics Regression Analysis with MINITAB, SPSS, R reports and presentations</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5%/60%</td>
</tr>
<tr>
<td>9.</td>
<td>Mampu memformulasikan suatu permasalahan riil yang dapat diselesaikan dengan metode statistika 9. Able to formulate a real problem that</td>
<td>Mahasiswa memformulasikan permasalahan riil yang dapat diselesaikan dengan metode analisa data yang sudah dipelajari Students formulate real problems that can be solved by the data</td>
<td>Projet mandiri, presentasi Independent Project, Presentation</td>
<td>200 menit 200 Minutes</td>
<td>Kerja lapangan dan observasi kelas Fieldwork and classroom observation</td>
<td>Mahasiswa mampu memformulasikan problem riil dilapangan ke dalam problem statistik Students are able to formulate real problems in the field into statistical problems</td>
<td>-</td>
</tr>
</tbody>
</table>
Program Studi: Sarjana, Departemen Statistika, FMKSD-ITS  
Mata Kuliah: Analisis Data  
Kode Mata Kuliah: KS184747  
Semester/SKS: VII/3  
MK Prasyarat: Analisis Deret Waktu, Analisis Multivariat, Analisis regresi, Analisis data Kategori  
RP-S1: Dosen Pengampu: Dr. Dra. Kartika Fithriasari, M.Si ; Erma Oktania Permatasari, S.Si., M.Si.

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<thead>
<tr>
<th>Perte- muan Meeting</th>
<th>Kemampuan Akhir Sub CP-MK</th>
<th>Keluasan (materi pembelajaran) Sub-CLO Final Capability</th>
<th>Metode Pembelajaran Learning Methods</th>
<th>Estimasi Waktu Estimated Time</th>
<th>Bentuk Evaluasi Evaluation Form</th>
<th>Kriteria dan Indikator Penilaian Assessment Criteria and Indicator</th>
<th>Bobot Penilaian Scoring Weight</th>
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</thead>
<tbody>
<tr>
<td>14-15</td>
<td>can be resolved by statistical methods</td>
<td>analysis method that has been studied</td>
<td>Konsultasi, project mandiri Consultation, Independent Project</td>
<td>200 menit 200 Minutes</td>
<td>Laporan, softskill Report, softskill</td>
<td>Mahasiswa mampu melakukan proses pengumpulan data serta analisa data secara komprehensif. Students are able to conduct a comprehensive data collection and data analysis process.</td>
<td>40%/100%</td>
</tr>
<tr>
<td>10. Mahasiswa mampu mengerjakan proyek secara mandiri (konsultasi)</td>
<td>Mahasiswa melakukan studi lapangan, dan pengolahan data serta melakukan konsultasi progress project Students conduct field studies, and data processing as well as consulting progress projects</td>
<td>Presentasi dan tanya jawab Presentation and Q&amp;A</td>
<td>200 menit 200 Minutes</td>
<td>Mahasiswa mampu membuat laporan tertulis dengan baik serta mengkomunikasikannya secara lisan Students are able to make a good written report and communicate it orally</td>
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<td>11. Mahasiswa mampu melakuka Penulisan laporan dan presentasi proyek dengan baik Students are able to do report writing and project presentation well</td>
<td>Mahasiswa mempresentasikan hasil analisa projectnya secara berkelompok Students present the results of their project analysis in groups</td>
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<tr>
<th>Program Studi</th>
<th>Sarjana, Departemen Statistika, FMKSD-ITS</th>
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<tr>
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<td>Dosen Pengampu</td>
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<td>Dr. Dra. Kartika Fithriasari, M.Si ; Erma Oktania Permatasari, S.Si., M.Si.</td>
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</tbody>
</table>

**PUSTAKA/References:**
1. Data analysis and Graphic using R: An example Based approach, Cambrigde Series 2010
2. Paket Program SPSS; MINITAB
3. Modul Ajar Analisis Data Il Jurusan Statistika ITS