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| Logo  Description automatically generated | **UNIVERSITAS SUMATERA UTARA (USU)****FAKULTAS TEKNIK****DEPARTEMEN TEKNIK ELEKTRO** | **Kode Dokumen** |
| **RENCANA PEMBELAJARAN SEMESTER** |
| **MATA KULIAH (MK)** | **KODE** | **Rumpun MK** | **BOBOT (sks)** | **SEMESTER** | **Tgl Penyusunan** |
| Pemrograman 1 | TEE1109 |  | **2** |  |  | 7 AGUSTUS 2022 |
| **OTORISASI / PENGESAHAN** | **Dosen Pengembang RPS** | **Koordinator RMK** | **Ka Prodi** |
| Tigor H Nasution, ST, MTRyandika Afdila, ST., M.EngSc | Tigor H Nasution, ST., MT | Suherman, ST., M.Comp., Ph.D |
| **Capaian Pembelajaran** | **CPL-PRODI yang dibebankan pada MK**  |  |
| CPL-1 | Mampu menerapkan pengetahuan matematika, ilmu pengetahuan alam/atau material, teknologi informasi dan kerekayasaan untuk mendapatkan pemahaman menyeluruh tentang prinsip-prinsip Teknik Elektro. |
| CPL-2 | Mampu mendesain komponen, sistem dan/atau proses untuk memenuhi kebutuhan yang diharapkan oleh masyarakat dengan dihadapkan pada batasan realistik yang meliputi aspek hukum, ekonomi, lingkungan, sosial, politik, kesehatan dan keselamatan, keberlanjutan. |
| CPL-3 | Mampu mendesain eksperimen laboratorium dan/atau lapangan serta menganalisis dan mengartikan data untuk memperkuat penilaian teknik khususnya dalam bidang Teknik Elektro. |
| CPL-4 | Mampu menyelesaikan permasalahan teknik khususnya dalam bidang Teknik Elektro secara bertanggungjawab dan memenuhi etika profesi. |
| **Capaian Pembelajaran Mata Kuliah (CPMK)**  |  |
| CPMK 1 | Mampu memahami konsep dasar pemrograman  |
| CPMK 2 | Mahasiswa mampu merumuskan algoritma untuk memecahkan permasalahan keteknikan |
| CPMK 3 | Mahasiswa mampu membuat program sederhana dengan memanfaatkan tools pemrograman |
| CPMK 4 | Mahasiswa mampu mengaplikasikan konsep pemrograman untuk menganalisa dan memvisualisasikan data |
| **Peta CPL – CPMK** |

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|  | **CPL 01** | **CPL 02** | **CPL 03** | **CPL 04** |
| CPMK 1  | **✓** |  |  |  |
| CPMK 2  |  | **✓** |  | **✓** |
| CPMK 3 |  | **✓** | **✓** | **✓** |
| CPMK 4 | **✓** | **✓** | **✓** | **✓** |

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| **Diskripsi Singkat MK** | Secara garis besar, mata kuliah ini akan melatih kompetensi antara lain menguasai konsep-konsep pemrograman umum serta bahasa pemrograman berorientasi objek modern, mampu merancang dan mengimplementasikan program sederhana, mampu menguji apakah suatu program sudah berjalan dengan benar, serta mampu menulis program yang dapat memecahkan persoalan sederhana. |
| **Bahan Kajian:** Materi pembelajaran | 1. Konsep Algoritma dan Pemrograman 2. Pengenalan Bahasa Pemrograman Python 3. Peubah, Tipe data dan Operator4. Percabangan 5. Perulangan 6. List, Tuple dan Dictionary 7. String8. Operasi File9. Fungsi 10. Pengolahan data menggunakan Numpy11. Visualisasi data menggunakan Matplotlib |
| **Pustaka** | **Utama:** |  |
| 1. Algoritma dan Pemrograman dalam Bahasa Pascal dan C. Munir, Rinaldi, 2007
2. Mark Lutz, Learning Python, 5th Edition Fifth Edition
3. Zed Shaw, Learn Python 3 the Hard Way
4. Thomas H. Cormen, Introduction to Algorithms, 3rd Edition
 |
| **Pendukung:** |  |
| 1. Al Sweigart, Automate the Boring Stuff with Python, 2nd Edition
2. Allen B. Downey, Think Python, 2nd Edition
 |
| **Dosen Pengampu** | Ryandika Afdila, ST., M.EngSc |
| **Matakuliah syarat** | - |

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| **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 & Teknik** |
| **(1)** | **(2)** | **(3)** | **(4)** | **Tatap Muka(5)** | **Daring (6)** | **(7)** | **(8)** |
| 1 | Mahasiswa menguasai teori pengantar pemrograman komputer dan algoritma | 1. *The accuracy in providing the information required*
2. *The student’s fluency in reading the memo (spelling, intonation, and speed)*
3. *The correctness of the student’s answers*
 | **Kriteria:***Marking Scheme***Bentuk:***Worksheet* (Non-Tes)1. *Reading the memo provided.*
2. *Responding to the opening questions given.*
3. *Completing the table (problem-solution) according to the information in the memo.*
4. *Finding the word or phrase with similar meaning (synonym) according to the information in the memo.*

*Classifying the words or phrases with the correct headings.* | BM [(1x(2x60”)]**Kegiatan:**1. *Reviewing the previous lessons.*
2. *Reading the added learning materials.*
3. *Recording the presence.*
4. *Responding to opening questions in the ‘Discussion Forum’ section.*
5. *Submitting the assigned tasks.*

PT [(1x(2x60”)]**Task 3:***Restating the information obtained in the form of an a-150-words paragraph.* **Moda (*Learning Management System*):**elearning@usu.ac.id | TM [(1x(2x50”)]**Kegiatan:**1. *Making notes of the learning materials explained.*
2. *Responding to the questions or instructions given.*
3. *Completing all the provided exercises individually.*
4. *Discussing the exercises completed.*

**Media:***Power Point Presentation (PPT)**Zoom Meeting* *Audio Recording**English Handout***Metode Pembelajaran:**1. *Online Lecture*
2. *Discussion*
3. *Self-Paced*

*Learning* | **Pokok Bahasan:**Pengantar Pemrograman Komputer dan algoritma**Referensi:****[1], [4]** | 5% |
| 2 | Mahasiswa memahami algoritma dan bahasa pemrograman Python dasar seperti: hello word, editor Python, menampilkan output di console, membaca input dari keyboard, operasi aritmatika | 1. *The accuracy in providing the information required*
2. *The student’s fluency in reading the memo (spelling, intonation, and speed)*
3. *The correctness of the student’s answers*
 | **Kriteria:***Marking Scheme***Bentuk:***Worksheet* (Non-Tes)1. *Reading the memo provided.*
2. *Responding to the opening questions given.*
3. *Completing the table (problem-solution) according to the information in the memo.*
4. *Finding the word or phrase with similar meaning (synonym) according to the information in the memo.*

*Classifying the words or phrases with the correct headings.* | BM [(1x(2x60”)]**Kegiatan:**1. *Reviewing the previous lessons.*
2. *Reading the added learning materials.*
3. *Recording the presence.*
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5. *Submitting the assigned tasks.*

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2. *Responding to the questions or instructions given.*
3. *Completing all the provided exercises individually.*
4. *Discussing the exercises completed.*

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3. *Self-Paced*

*Learning* | **Pokok Bahasan:**Algoritma dan bahasa Pemrograman PYTHON dasar seperti: Hello Word, Editor PYTHON, Menampilkan Output Di Console, Membaca Input Dari Keyboard, Operasi Aritmatika**Referensi:****[1],[2],[3],[4]** | 5% |
| 3 | Mahasiswa menguasai , algoritma, bahasa pemrograman Python: : hello word, editor Python, menampilkan output di console, membaca input dari keyboard, operasi aritmatika | 1. *The accuracy in providing the information required*
2. *The student’s fluency in reading the memo (spelling, intonation, and speed)*
3. *The correctness of the student’s answers*
 | **Kriteria:***Marking Scheme***Bentuk:***Worksheet* (Non-Tes)1. *Reading the memo provided.*
2. *Responding to the opening questions given.*
3. *Completing the table (problem-solution) according to the information in the memo.*
4. *Finding the word or phrase with similar meaning (synonym) according to the information in the memo.*

*Classifying the words or phrases with the correct headings.* | BM [(1x(2x60”)]**Kegiatan:**1. *Reviewing the previous lessons.*
2. *Reading the added learning materials.*
3. *Recording the presence.*
4. *Responding to opening questions in the ‘Discussion Forum’ section.*
5. *Submitting the assigned tasks.*

PT [(1x(2x60”)]**Task 3:***Restating the information obtained in the form of an a-150-words paragraph.* **Moda (*Learning Management System*):**elearning@usu.ac.id | TM [(1x(2x50”)]**Kegiatan:**1. *Making notes of the learning materials explained.*
2. *Responding to the questions or instructions given.*
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4. *Discussing the exercises completed.*

**Media:***Power Point Presentation (PPT)**Zoom Meeting* *Audio Recording**English Handout***Metode Pembelajaran:**1. *Online Lecture*
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3. *Self-Paced*

*Learning* | **Pokok Bahasan:**, Algoritma , Bahasa Pemrograman PYTHON: : Hello Word, Editor PYTHON, Menampilkan Output Di Console, Membaca Input Dari Keyboard, Operasi Aritmatika**Referensi:****[1],[2],[3],[4]** | 5% |
| 4 | Mahasiswa mampu menerapkan teori , tipe data, variable dan konstanta, konsep keputusan: logika if, if majemuk dan switch | 1. *The accuracy in providing the information required*
2. *The student’s fluency in reading the memo (spelling, intonation, and speed)*
3. *The correctness of the student’s answers*
 | **Kriteria:***Marking Scheme***Bentuk:***Worksheet* (Non-Tes)1. *Reading the memo provided.*
2. *Responding to the opening questions given.*
3. *Completing the table (problem-solution) according to the information in the memo.*
4. *Finding the word or phrase with similar meaning (synonym) according to the information in the memo.*

*Classifying the words or phrases with the correct headings.* | BM [(1x(2x60”)]**Kegiatan:**1. *Reviewing the previous lessons.*
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3. *Recording the presence.*
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3. *Self-Paced*

*Learning* | **Pokok Bahasan:**, Tipe Data, Variable dan Konstanta , Konsep Keputusan: Logika If, If Majemuk dan Switch**Referensi:****[1],[2],[3],[4]** | 5% |
| 5 | Mahasiswa dapat mengerjakan latihan tentang praktikum konsep keputusan: logika if, if majemuk dan switch | 1. *The accuracy in providing the information required*
2. *The student’s fluency in reading the memo (spelling, intonation, and speed)*
3. *The correctness of the student’s answers*
 | **Kriteria:***Marking Scheme***Bentuk:***Worksheet* (Non-Tes)1. *Reading the memo provided.*
2. *Responding to the opening questions given.*
3. *Completing the table (problem-solution) according to the information in the memo.*
4. *Finding the word or phrase with similar meaning (synonym) according to the information in the memo.*

*Classifying the words or phrases with the correct headings.* | BM [(1x(2x60”)]**Kegiatan:**1. *Reviewing the previous lessons.*
2. *Reading the added learning materials.*
3. *Recording the presence.*
4. *Responding to opening questions in the ‘Discussion Forum’ section.*
5. *Submitting the assigned tasks.*

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*Learning* | **Pokok Bahasan:**Praktikum Konsep Keputusan: Logika If, If Majemuk dan Switch**Referensi:****[1],[2],[3],[4]** | 5% |
| 6 | Mahasiswa memahami perkembangan teori perulangan: for, while dan do-while | 1. *The accuracy in providing the information required*
2. *The student’s fluency in reading the memo (spelling, intonation, and speed)*
3. *The correctness of the student’s answers*
 | **Kriteria:***Marking Scheme***Bentuk:***Worksheet* (Non-Tes)1. *Reading the memo provided.*
2. *Responding to the opening questions given.*
3. *Completing the table (problem-solution) according to the information in the memo.*
4. *Finding the word or phrase with similar meaning (synonym) according to the information in the memo.*

*Classifying the words or phrases with the correct headings.* | BM [(1x(2x60”)]**Kegiatan:**1. *Reviewing the previous lessons.*
2. *Reading the added learning materials.*
3. *Recording the presence.*
4. *Responding to opening questions in the ‘Discussion Forum’ section.*
5. *Submitting the assigned tasks.*

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2. *Responding to the questions or instructions given.*
3. *Completing all the provided exercises individually.*
4. *Discussing the exercises completed.*

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3. *Self-Paced*

*Learning* | **Pokok Bahasan:**Mahasiswa memahami perkembangan teori perulangan: for, while dan do-while**Referensi:****[1],[2],[3],[4]** | 5% |
| 7 | Mahasiswa dapat mempresentasikan pengetahuan praktikum konsep perulangan: for, while dan do-while | 1. *The accuracy in providing the information required*
2. *The student’s fluency in reading the memo (spelling, intonation, and speed)*
3. *The correctness of the student’s answers*
 | **Kriteria:***Marking Scheme***Bentuk:***Worksheet* (Non-Tes)1. *Reading the memo provided.*
2. *Responding to the opening questions given.*
3. *Completing the table (problem-solution) according to the information in the memo.*
4. *Finding the word or phrase with similar meaning (synonym) according to the information in the memo.*

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2. *Reading the added learning materials.*
3. *Recording the presence.*
4. *Responding to opening questions in the ‘Discussion Forum’ section.*
5. *Submitting the assigned tasks.*

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2. *Responding to the questions or instructions given.*
3. *Completing all the provided exercises individually.*
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2. *Discussion*
3. *Self-Paced*

*Learning* | **Pokok Bahasan:**Praktikum Konsep Perulangan: For, While dan Do-While**Referensi:****[1],[2],[3],[4]** | 5% |
| 8 | UJIAN TENGAH SEMESTER |  |  |  |  |  |  |
| 9 | Mahasiswa menguasai teori konsep array, matriks dan strings: array indexing dan slicing | 1. *The accuracy in providing the information required*
2. *The student’s fluency in reading the memo (spelling, intonation, and speed)*
3. *The correctness of the student’s answers*
 | **Kriteria:***Marking Scheme***Bentuk:***Worksheet* (Non-Tes)1. *Reading the memo provided.*
2. *Responding to the opening questions given.*
3. *Completing the table (problem-solution) according to the information in the memo.*
4. *Finding the word or phrase with similar meaning (synonym) according to the information in the memo.*

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3. *Recording the presence.*
4. *Responding to opening questions in the ‘Discussion Forum’ section.*
5. *Submitting the assigned tasks.*

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2. *Responding to the questions or instructions given.*
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*Learning* | **Pokok Bahasan:**Konsep Array, Matriks dan Strings: Array Indexing dan Slicing**Referensi:****[1],[2],[3],[4]** | 5% |
| 10 | Mahasiswa memahami konsep array, matriks dan strings: array and strings manipulation | 1. *The accuracy in providing the information required*
2. *The student’s fluency in reading the memo (spelling, intonation, and speed)*
3. *The correctness of the student’s answers*
 | **Kriteria:***Marking Scheme***Bentuk:***Worksheet* (Non-Tes)1. *Reading the memo provided.*
2. *Responding to the opening questions given.*
3. *Completing the table (problem-solution) according to the information in the memo.*
4. *Finding the word or phrase with similar meaning (synonym) according to the information in the memo.*

*Classifying the words or phrases with the correct headings.* | BM [(1x(2x60”)]**Kegiatan:**1. *Reviewing the previous lessons.*
2. *Reading the added learning materials.*
3. *Recording the presence.*
4. *Responding to opening questions in the ‘Discussion Forum’ section.*
5. *Submitting the assigned tasks.*

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2. *Responding to the questions or instructions given.*
3. *Completing all the provided exercises individually.*
4. *Discussing the exercises completed.*

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2. *Discussion*
3. *Self-Paced*

*Learning* | **Pokok Bahasan:**Konsep Array, Matriks dan Strings: Array And Strings Manipulation**Referensi:****[1],[2],[3],[4]** | 5% |
| 11 | Mahasiswa menguasai praktikum array, matriks dan string | 1. *The accuracy in providing the information required*
2. *The student’s fluency in reading the memo (spelling, intonation, and speed)*
3. *The correctness of the student’s answers*
 | **Kriteria:***Marking Scheme***Bentuk:***Worksheet* (Non-Tes)1. *Reading the memo provided.*
2. *Responding to the opening questions given.*
3. *Completing the table (problem-solution) according to the information in the memo.*
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2. *Reading the added learning materials.*
3. *Recording the presence.*
4. *Responding to opening questions in the ‘Discussion Forum’ section.*
5. *Submitting the assigned tasks.*

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2. *Responding to the questions or instructions given.*
3. *Completing all the provided exercises individually.*
4. *Discussing the exercises completed.*

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*Learning* | **Pokok Bahasan:**Praktikum Array, Matriks dan String**Referensi:****[1],[2],[3],[4]** | 5% |
| 12 | Mahasiswa mampu menerapkan teori pengujian program dan penelusuran error | 1. *The accuracy in providing the information required*
2. *The student’s fluency in reading the memo (spelling, intonation, and speed)*
3. *The correctness of the student’s answers*
 | **Kriteria:***Marking Scheme***Bentuk:***Worksheet* (Non-Tes)1. *Reading the memo provided.*
2. *Responding to the opening questions given.*
3. *Completing the table (problem-solution) according to the information in the memo.*
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*Classifying the words or phrases with the correct headings.* | BM [(1x(2x60”)]**Kegiatan:**1. *Reviewing the previous lessons.*
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4. *Responding to opening questions in the ‘Discussion Forum’ section.*
5. *Submitting the assigned tasks.*

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2. *Responding to the questions or instructions given.*
3. *Completing all the provided exercises individually.*
4. *Discussing the exercises completed.*

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2. *Discussion*
3. *Self-Paced*

*Learning* | **Pokok Bahasan:**Pengujian Program dan Penelusuran Error**Referensi:****[1],[2],[3],[4]** | 5% |
| 13 | Mahasiswa dapat mengerjakan latihan tentang konsep fungsi dan prosedur | 1. *The accuracy in providing the information required*
2. *The student’s fluency in reading the memo (spelling, intonation, and speed)*
3. *The correctness of the student’s answers*
 | **Kriteria:***Marking Scheme***Bentuk:***Worksheet* (Non-Tes)1. *Reading the memo provided.*
2. *Responding to the opening questions given.*
3. *Completing the table (problem-solution) according to the information in the memo.*
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3. *Completing all the provided exercises individually.*
4. *Discussing the exercises completed.*

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2. *Discussion*
3. *Self-Paced*

*Learning* | **Pokok Bahasan:**Konsep Fungsi dan Prosedur**Referensi:****[1],[2],[3],[4]** | 5% |
| 14 | Mahasiswa memahami perkembangan teori praktikum konsep fungsi dan prosedur | 1. *The accuracy in providing the information required*
2. *The student’s fluency in reading the memo (spelling, intonation, and speed)*
3. *The correctness of the student’s answers*
 | **Kriteria:***Marking Scheme***Bentuk:***Worksheet* (Non-Tes)1. *Reading the memo provided.*
2. *Responding to the opening questions given.*
3. *Completing the table (problem-solution) according to the information in the memo.*
4. *Finding the word or phrase with similar meaning (synonym) according to the information in the memo.*

*Classifying the words or phrases with the correct headings.* | BM [(1x(2x60”)]**Kegiatan:**1. *Reviewing the previous lessons.*
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5. *Submitting the assigned tasks.*

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4. *Discussing the exercises completed.*

**Media:***Power Point Presentation (PPT)**Zoom Meeting* *Audio Recording**English Handout***Metode Pembelajaran:**1. *Online Lecture*
2. *Discussion*
3. *Self-Paced*

*Learning* | **Pokok Bahasan:**Praktikum Konsep Fungsi dan Prosedur**Referensi:****[1],[2],[3],[4]** | 5% |
| 15 | Mahasiswa memahami konsep oop dan modularisasi | 1. *The accuracy in providing the information required*
2. *The student’s fluency in reading the memo (spelling, intonation, and speed)*
3. *The correctness of the student’s answers*
 | **Kriteria:***Marking Scheme***Bentuk:***Worksheet* (Non-Tes)1. *Reading the memo provided.*
2. *Responding to the opening questions given.*
3. *Completing the table (problem-solution) according to the information in the memo.*
4. *Finding the word or phrase with similar meaning (synonym) according to the information in the memo.*

*Classifying the words or phrases with the correct headings.* | BM [(1x(2x60”)]**Kegiatan:**1. *Reviewing the previous lessons.*
2. *Reading the added learning materials.*
3. *Recording the presence.*
4. *Responding to opening questions in the ‘Discussion Forum’ section.*
5. *Submitting the assigned tasks.*

PT [(1x(2x60”)]**Task 3:***Restating the information obtained in the form of an a-150-words paragraph.* **Moda (*Learning Management System*):**elearning@usu.ac.id | TM [(1x(2x50”)]**Kegiatan:**1. *Making notes of the learning materials explained.*
2. *Responding to the questions or instructions given.*
3. *Completing all the provided exercises individually.*
4. *Discussing the exercises completed.*

**Media:***Power Point Presentation (PPT)**Zoom Meeting* *Audio Recording**English Handout***Metode Pembelajaran:**1. *Online Lecture*
2. *Discussion*
3. *Self-Paced*

*Learning* | **Pokok Bahasan:**Konsep Oop dan Modularisasi**Referensi:****[1],[2],[3],[4]** | 5% |
| 16 | UJIAN AKHIR SEMESTER |  |  |  |  |  |  |
|  | Total  | **100** |