



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, MT Ryandika 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 kerakyasaan 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		CPL 01	CPL 02	CPL 03	CPL 04
	CPMK 1	✓			
	CPMK 2		✓		✓
	CPMK 3		✓	✓	✓
	CPMK 4	✓	✓	✓	✓
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	<ol style="list-style-type: none"> 1. Konsep Algoritma dan Pemrograman 2. Pengenalan Bahasa Pemrograman Python 3. Peubah, Tipe data dan Operator 4. Percabangan 5. Perulangan 6. List, Tuple dan Dictionary 7. String 8. Operasi File 9. Fungsi 10. Pengolahan data menggunakan Numpy 11. Visualisasi data menggunakan Matplotlib 				
Pustaka	<p>Utama:</p> <ol style="list-style-type: none"> 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 <p>Pendukung:</p> <ol style="list-style-type: none"> 5. Al Sweigart, Automate the Boring Stuff with Python, 2nd Edition 6. Allen B. Downey, Think Python, 2nd Edition 				
Dosen Pengampu	Ryandika Afdila, ST., M.EngSc				
Matakuliah syarat	-				

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 & Teknik	Tatap Muka (5)	Daring (6)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Mahasiswa menguasai teori pengantar pemrograman komputer dan algoritma	<ol style="list-style-type: none"> <i>The accuracy in providing the information required</i> <i>The student's fluency in reading the memo (spelling, intonation, and speed)</i> <i>The correctness of the student's answers</i> 	<p>Kriteria: <i>Marking Scheme</i></p> <p>Bentuk: <i>Worksheet (Non-Tes)</i></p> <ol style="list-style-type: none"> <i>Reading the memo provided.</i> <i>Responding to the opening questions given.</i> <i>Completing the table (problem-solution) according to the information in the memo.</i> <i>Finding the word or phrase with similar meaning (synonym) according to the information in the memo. Classifying the words or phrases with the</i> 	<p>BM [(1x(2x60"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> <i>Reviewing the previous lessons.</i> <i>Reading the added learning materials.</i> <i>Recording the presence.</i> <i>Responding to opening questions in the 'Discussion Forum' section.</i> <i>Submitting the assigned tasks.</i> <p>PT [(1x(2x60"))]</p> <p>Task 3: <i>Restating the information obtained in the form of an a-150-words paragraph.</i></p> <p>Moda (Learning Management System): learning@usu.ac.id</p>	<p>TM [(1x(2x50"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> <i>Making notes of the learning materials explained.</i> <i>Responding to the questions or instructions given.</i> <i>Completing all the provided exercises individually.</i> <i>Discussing the exercises completed.</i> <p>Media: <i>Power Point Presentation (PPT)</i> <i>Zoom Meeting</i> <i>Audio Recording</i> <i>English Handout</i></p> <p>Metode Pembelajaran:</p> <ol style="list-style-type: none"> <i>Online Lecture</i> <i>Discussion</i> <i>Self-Paced</i> 	<p>Pokok Bahasan: Pengantar Pemrograman Komputer dan algoritma</p> <p>Referensi: [1], [4]</p>	5%

			<i>correct headings.</i>		<i>Learning</i>		
2	Mahasiswa memahami algoritma dan bahasa pemrograman Python dasar seperti: hello word, editor Python, menampilkan output di console, membaca input dari keyboard, operasi aritmatika	<ol style="list-style-type: none"> 1. <i>The accuracy in providing the information required</i> 2. <i>The student's fluency in reading the memo (spelling, intonation, and speed)</i> 3. <i>The correctness of the student's answers</i> 	<p>Kriteria: <i>Marking Scheme</i></p> <p>Bentuk: <i>Worksheet (Non-Tes)</i></p> <ol style="list-style-type: none"> 1. <i>Reading the memo provided.</i> 2. <i>Responding to the opening questions given.</i> 3. <i>Completing the table (problem-solution) according to the information in the memo.</i> 4. <i>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.</i> 	<p>BM [(1x(2x60"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> 1. <i>Reviewing the previous lessons.</i> 2. <i>Reading the added learning materials.</i> 3. <i>Recording the presence.</i> 4. <i>Responding to opening questions in the 'Discussion Forum' section.</i> 5. <i>Submitting the assigned tasks.</i> <p>PT [(1x(2x60"))]</p> <p>Task 3: <i>Restating the information obtained in the form of an a-150-words paragraph.</i></p> <p>Moda (Learning Management System): learning@usu.ac.id</p>	<p>TM [(1x(2x50"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> 1. <i>Making notes of the learning materials explained.</i> 2. <i>Responding to the questions or instructions given.</i> 3. <i>Completing all the provided exercises individually.</i> 4. <i>Discussing the exercises completed.</i> <p>Media: <i>Power Point Presentation (PPT)</i> <i>Zoom Meeting</i> <i>Audio Recording</i> <i>English Handout</i></p> <p>Metode Pembelajaran:</p> <ol style="list-style-type: none"> 4. <i>Online Lecture</i> 5. <i>Discussion</i> 6. <i>Self-Paced Learning</i> 	<p>Pokok Bahasan: Algoritma dan bahasa Pemrograman PYTHON dasar seperti: Hello Word, Editor PYTHON, Menampilkan Output Di Console, Membaca Input Dari Keyboard, Operasi Aritmatika</p> <p>Referensi: [1],[2],[3],[4]</p>	5%

3	Mahasiswa menguasai , algoritma, bahasa pemrograman Python: : hello word, editor Python, menampilkan output di console, membaca input dari keyboard, operasi aritmatika	<ol style="list-style-type: none"> 1. <i>The accuracy in providing the information required</i> 2. <i>The student's fluency in reading the memo (spelling, intonation, and speed)</i> 3. <i>The correctness of the student's answers</i> 	<p>Kriteria: <i>Marking Scheme</i></p> <p>Bentuk: <i>Worksheet (Non-Tes)</i></p> <ol style="list-style-type: none"> 1. <i>Reading the memo provided.</i> 2. <i>Responding to the opening questions given.</i> 3. <i>Completing the table (problem-solution) according to the information in the memo.</i> 4. <i>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.</i> 	<p>BM [(1x(2x60")) Kegiatan:</p> <ol style="list-style-type: none"> 1. <i>Reviewing the previous lessons.</i> 2. <i>Reading the added learning materials.</i> 3. <i>Recording the presence.</i> 4. <i>Responding to opening questions in the 'Discussion Forum' section.</i> 5. <i>Submitting the assigned tasks.</i> <p>PT [(1x(2x60"))</p> <p>Task 3: <i>Restating the information obtained in the form of an a-150-words paragraph.</i></p> <p>Moda (Learning Management System): learning@usu.ac.id</p>	<p>TM [(1x(2x50")) Kegiatan:</p> <ol style="list-style-type: none"> 1. <i>Making notes of the learning materials explained.</i> 2. <i>Responding to the questions or instructions given.</i> 3. <i>Completing all the provided exercises individually.</i> 4. <i>Discussing the exercises completed.</i> <p>Media: <i>Power Point Presentation (PPT)</i> <i>Zoom Meeting</i> <i>Audio Recording</i> <i>English Handout</i></p> <p>Metode Pembelajaran:</p> <ol style="list-style-type: none"> 7. <i>Online Lecture</i> 8. <i>Discussion</i> 9. <i>Self-Paced Learning</i> 	<p>Pokok Bahasan: <i>, Algoritma , Bahasa Pemrograman PYTHON: : Hello Word, Editor PYTHON, Menampilkan Output Di Console, Membaca Input Dari Keyboard, Operasi Aritmatika</i></p> <p>Referensi: [1],[2],[3],[4]</p>	5%
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4	Mahasiswa mampu menerapkan teori , tipe data, variable dan konstanta, konsep keputusan: logika if, if majemuk dan switch	<ol style="list-style-type: none"> 1. <i>The accuracy in providing the information required</i> 2. <i>The student's fluency in reading the memo (spelling, intonation, and speed)</i> 3. <i>The correctness of the student's answers</i> 	<p>Kriteria: <i>Marking Scheme</i></p> <p>Bentuk: <i>Worksheet (Non-Tes)</i></p> <ol style="list-style-type: none"> 1. <i>Reading the memo provided.</i> 2. <i>Responding to the opening questions given.</i> 3. <i>Completing the table (problem-solution) according to the information in the memo.</i> 4. <i>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.</i> 	<p>BM [(1x(2x60"))] Kegiatan:</p> <ol style="list-style-type: none"> 1. <i>Reviewing the previous lessons.</i> 2. <i>Reading the added learning materials.</i> 3. <i>Recording the presence.</i> 4. <i>Responding to opening questions in the 'Discussion Forum' section.</i> 5. <i>Submitting the assigned tasks.</i> <p>PT [(1x(2x60"))]</p> <p>Task 3: <i>Restating the information obtained in the form of an a-150-words paragraph.</i></p> <p>Moda (Learning Management System): learning@usu.ac.id</p>	<p>TM [(1x(2x50"))] Kegiatan:</p> <ol style="list-style-type: none"> 1. <i>Making notes of the learning materials explained.</i> 2. <i>Responding to the questions or instructions given.</i> 3. <i>Completing all the provided exercises individually.</i> 4. <i>Discussing the exercises completed.</i> <p>Media: <i>Power Point Presentation (PPT)</i> <i>Zoom Meeting</i> <i>Audio Recording</i> <i>English Handout</i></p> <p>Metode Pembelajaran:</p> <ol style="list-style-type: none"> 10. <i>Online Lecture</i> 11. <i>Discussion</i> 12. <i>Self-Paced Learning</i> 	<p>Pokok Bahasan: <i>, Tipe Data, Variable dan Konstanta , Konsep Keputusan: Logika If, If Majemuk dan Switch</i></p> <p>Referensi: <i>[1],[2],[3],[4]</i></p>	5%
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5	Mahasiswa dapat mengerjakan latihan tentang praktikum konsep keputusan: logika if, if majemuk dan switch	<ol style="list-style-type: none"> 1. <i>The accuracy in providing the information required</i> 2. <i>The student's fluency in reading the memo (spelling, intonation, and speed)</i> 3. <i>The correctness of the student's answers</i> 	<p>Kriteria: <i>Marking Scheme</i></p> <p>Bentuk: <i>Worksheet (Non-Tes)</i></p> <ol style="list-style-type: none"> 1. <i>Reading the memo provided.</i> 2. <i>Responding to the opening questions given.</i> 3. <i>Completing the table (problem-solution) according to the information in the memo.</i> 4. <i>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.</i> 	<p>BM [(1x(2x60"))] Kegiatan:</p> <ol style="list-style-type: none"> 1. <i>Reviewing the previous lessons.</i> 2. <i>Reading the added learning materials.</i> 3. <i>Recording the presence.</i> 4. <i>Responding to opening questions in the 'Discussion Forum' section.</i> 5. <i>Submitting the assigned tasks.</i> <p>PT [(1x(2x60"))]</p> <p>Task 3: <i>Restating the information obtained in the form of an a-150-words paragraph.</i></p> <p>Moda (Learning Management System): learning@usu.ac.id</p>	<p>TM [(1x(2x50"))] Kegiatan:</p> <ol style="list-style-type: none"> 1. <i>Making notes of the learning materials explained.</i> 2. <i>Responding to the questions or instructions given.</i> 3. <i>Completing all the provided exercises individually.</i> 4. <i>Discussing the exercises completed.</i> <p>Media: <i>Power Point Presentation (PPT)</i> <i>Zoom Meeting</i> <i>Audio Recording</i> <i>English Handout</i></p> <p>Metode Pembelajaran:</p> <ol style="list-style-type: none"> 13. <i>Online Lecture</i> 14. <i>Discussion</i> 15. <i>Self-Paced Learning</i> 	<p>Pokok Bahasan: Praktikum Konsep Keputusan: Logika If, If Majemuk dan Switch</p> <p>Referensi: [1],[2],[3],[4]</p>	5%
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6	Mahasiswa memahami perkembangan teori perulangan: for, while dan do-while	<ol style="list-style-type: none"> 1. <i>The accuracy in providing the information required</i> 2. <i>The student's fluency in reading the memo (spelling, intonation, and speed)</i> 3. <i>The correctness of the student's answers</i> 	<p>Kriteria: <i>Marking Scheme</i></p> <p>Bentuk: <i>Worksheet (Non-Tes)</i></p> <ol style="list-style-type: none"> 1. <i>Reading the memo provided.</i> 2. <i>Responding to the opening questions given.</i> 3. <i>Completing the table (problem-solution) according to the information in the memo.</i> 4. <i>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.</i> 	<p>BM [(1x(2x60"))] Kegiatan:</p> <ol style="list-style-type: none"> 1. <i>Reviewing the previous lessons.</i> 2. <i>Reading the added learning materials.</i> 3. <i>Recording the presence.</i> 4. <i>Responding to opening questions in the 'Discussion Forum' section.</i> 5. <i>Submitting the assigned tasks.</i> <p>PT [(1x(2x60"))]</p> <p>Task 3: <i>Restating the information obtained in the form of an a-150-words paragraph.</i></p> <p>Moda (Learning Management System): learning@usu.ac.id</p>	<p>TM [(1x(2x50"))] Kegiatan:</p> <ol style="list-style-type: none"> 1. <i>Making notes of the learning materials explained.</i> 2. <i>Responding to the questions or instructions given.</i> 3. <i>Completing all the provided exercises individually.</i> 4. <i>Discussing the exercises completed.</i> <p>Media: <i>Power Point Presentation (PPT)</i> <i>Zoom Meeting</i> <i>Audio Recording</i> <i>English Handout</i></p> <p>Metode Pembelajaran:</p> <ol style="list-style-type: none"> 16. <i>Online Lecture</i> 17. <i>Discussion</i> 18. <i>Self-Paced Learning</i> 	<p>Pokok Bahasan: Mahasiswa memahami perkembangan teori perulangan: for, while dan do-while</p> <p>Referensi: [1],[2],[3],[4]</p>	5%
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7	Mahasiswa dapat mempresentasikan pengetahuan praktikum konsep perulangan: for, while dan do-while	<ol style="list-style-type: none"> 1. <i>The accuracy in providing the information required</i> 2. <i>The student's fluency in reading the memo (spelling, intonation, and speed)</i> 3. <i>The correctness of the student's answers</i> 	<p>Kriteria: <i>Marking Scheme</i></p> <p>Bentuk: <i>Worksheet (Non-Tes)</i></p> <ol style="list-style-type: none"> 1. <i>Reading the memo provided.</i> 2. <i>Responding to the opening questions given.</i> 3. <i>Completing the table (problem-solution) according to the information in the memo.</i> 4. <i>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.</i> 	<p>BM [(1x(2x60"))] Kegiatan:</p> <ol style="list-style-type: none"> 1. <i>Reviewing the previous lessons.</i> 2. <i>Reading the added learning materials.</i> 3. <i>Recording the presence.</i> 4. <i>Responding to opening questions in the 'Discussion Forum' section.</i> 5. <i>Submitting the assigned tasks.</i> <p>PT [(1x(2x60"))]</p> <p>Task 3: <i>Restating the information obtained in the form of an a-150-words paragraph.</i></p> <p>Moda (Learning Management System): learning@usu.ac.id</p>	<p>TM [(1x(2x50"))] Kegiatan:</p> <ol style="list-style-type: none"> 1. <i>Making notes of the learning materials explained.</i> 2. <i>Responding to the questions or instructions given.</i> 3. <i>Completing all the provided exercises individually.</i> 4. <i>Discussing the exercises completed.</i> <p>Media: <i>Power Point Presentation (PPT)</i> <i>Zoom Meeting</i> <i>Audio Recording</i> <i>English Handout</i></p> <p>Metode Pembelajaran:</p> <ol style="list-style-type: none"> 19. <i>Online Lecture</i> 20. <i>Discussion</i> 21. <i>Self-Paced Learning</i> 	<p>Pokok Bahasan: Praktikum Konsep Perulangan: For, While dan Do-While</p> <p>Referensi: [1],[2],[3],[4]</p>	5%
8	UJIAN TENGAH SEMESTER						

9	Mahasiswa menguasai teori konsep array, matriks dan strings: array indexing dan slicing	<ol style="list-style-type: none"> <i>The accuracy in providing the information required</i> <i>The student's fluency in reading the memo (spelling, intonation, and speed)</i> <i>The correctness of the student's answers</i> 	<p>Kriteria: <i>Marking Scheme</i></p> <p>Bentuk: <i>Worksheet (Non-Tes)</i></p> <ol style="list-style-type: none"> <i>Reading the memo provided.</i> <i>Responding to the opening questions given.</i> <i>Completing the table (problem-solution) according to the information in the memo.</i> <i>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.</i> 	<p>BM [(1x(2x60")) Kegiatan:</p> <ol style="list-style-type: none"> <i>Reviewing the previous lessons.</i> <i>Reading the added learning materials.</i> <i>Recording the presence.</i> <i>Responding to opening questions in the 'Discussion Forum' section.</i> <i>Submitting the assigned tasks.</i> <p>PT [(1x(2x60"))</p> <p>Task 3: <i>Restating the information obtained in the form of an a-150-words paragraph.</i></p> <p>Moda (Learning Management System): learning@usu.ac.id</p>	<p>TM [(1x(2x50")) Kegiatan:</p> <ol style="list-style-type: none"> <i>Making notes of the learning materials explained.</i> <i>Responding to the questions or instructions given.</i> <i>Completing all the provided exercises individually.</i> <i>Discussing the exercises completed.</i> <p>Media: <i>Power Point Presentation (PPT)</i> <i>Zoom Meeting</i> <i>Audio Recording</i> <i>English Handout</i></p> <p>Metode Pembelajaran:</p> <ol style="list-style-type: none"> <i>Online Lecture</i> <i>Discussion</i> <i>Self-Paced Learning</i> 	<p>Pokok Bahasan: Konsep Array, Matriks dan Strings: Array Indexing dan Slicing</p> <p>Referensi: [1],[2],[3],[4]</p>	5%
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10	Mahasiswa memahami konsep array, matriks dan strings: array and strings manipulation	<ol style="list-style-type: none"> <i>The accuracy in providing the information required</i> <i>The student's fluency in reading the memo (spelling, intonation, and speed)</i> <i>The correctness of the student's answers</i> 	<p>Kriteria: <i>Marking Scheme</i></p> <p>Bentuk: <i>Worksheet (Non-Tes)</i></p> <ol style="list-style-type: none"> <i>Reading the memo provided.</i> <i>Responding to the opening questions given.</i> <i>Completing the table (problem-solution) according to the information in the memo.</i> <i>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.</i> 	<p>BM [(1x(2x60")) Kegiatan:</p> <ol style="list-style-type: none"> <i>Reviewing the previous lessons.</i> <i>Reading the added learning materials.</i> <i>Recording the presence.</i> <i>Responding to opening questions in the 'Discussion Forum' section.</i> <i>Submitting the assigned tasks.</i> <p>PT [(1x(2x60"))</p> <p>Task 3: <i>Restating the information obtained in the form of an a-150-words paragraph.</i></p> <p>Moda (Learning Management System): learning@usu.ac.id</p>	<p>TM [(1x(2x50")) Kegiatan:</p> <ol style="list-style-type: none"> <i>Making notes of the learning materials explained.</i> <i>Responding to the questions or instructions given.</i> <i>Completing all the provided exercises individually.</i> <i>Discussing the exercises completed.</i> <p>Media: <i>Power Point Presentation (PPT)</i> <i>Zoom Meeting</i> <i>Audio Recording</i> <i>English Handout</i></p> <p>Metode Pembelajaran:</p> <ol style="list-style-type: none"> <i>Online Lecture</i> <i>Discussion</i> <i>Self-Paced Learning</i> 	<p>Pokok Bahasan: Konsep Array, Matriks dan Strings: Array And Strings Manipulation</p> <p>Referensi: [1],[2],[3],[4]</p>	5%
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11	Mahasiswa menguasai praktikum array, matriks dan string	<ol style="list-style-type: none"> 1. <i>The accuracy in providing the information required</i> 2. <i>The student's fluency in reading the memo (spelling, intonation, and speed)</i> 3. <i>The correctness of the student's answers</i> 	<p>Kriteria: <i>Marking Scheme</i></p> <p>Bentuk: <i>Worksheet (Non-Tes)</i></p> <ol style="list-style-type: none"> 1. <i>Reading the memo provided.</i> 2. <i>Responding to the opening questions given.</i> 3. <i>Completing the table (problem-solution) according to the information in the memo.</i> 4. <i>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.</i> 	<p>BM [(1x(2x60"))] Kegiatan:</p> <ol style="list-style-type: none"> 1. <i>Reviewing the previous lessons.</i> 2. <i>Reading the added learning materials.</i> 3. <i>Recording the presence.</i> 4. <i>Responding to opening questions in the 'Discussion Forum' section.</i> 5. <i>Submitting the assigned tasks.</i> <p>PT [(1x(2x60"))]</p> <p>Task 3: <i>Restating the information obtained in the form of an a-150-words paragraph.</i></p> <p>Moda (Learning Management System): learning@usu.ac.id</p>	<p>TM [(1x(2x50"))] Kegiatan:</p> <ol style="list-style-type: none"> 1. <i>Making notes of the learning materials explained.</i> 2. <i>Responding to the questions or instructions given.</i> 3. <i>Completing all the provided exercises individually.</i> 4. <i>Discussing the exercises completed.</i> <p>Media: <i>Power Point Presentation (PPT)</i> <i>Zoom Meeting</i> <i>Audio Recording</i> <i>English Handout</i></p> <p>Metode Pembelajaran:</p> <ol style="list-style-type: none"> 28. <i>Online Lecture</i> 29. <i>Discussion</i> 30. <i>Self-Paced Learning</i> 	<p>Pokok Bahasan: Praktikum Array, Matriks dan String</p> <p>Referensi: [1],[2],[3],[4]</p>	5%
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12	Mahasiswa mampu menerapkan teori pengujian program dan penelusuran error	<ol style="list-style-type: none"> <i>The accuracy in providing the information required</i> <i>The student's fluency in reading the memo (spelling, intonation, and speed)</i> <i>The correctness of the student's answers</i> 	<p>Kriteria: <i>Marking Scheme</i></p> <p>Bentuk: <i>Worksheet (Non-Tes)</i></p> <ol style="list-style-type: none"> <i>Reading the memo provided.</i> <i>Responding to the opening questions given.</i> <i>Completing the table (problem-solution) according to the information in the memo.</i> <i>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.</i> 	<p>BM [(1x(2x60")) Kegiatan:</p> <ol style="list-style-type: none"> <i>Reviewing the previous lessons.</i> <i>Reading the added learning materials.</i> <i>Recording the presence.</i> <i>Responding to opening questions in the 'Discussion Forum' section.</i> <i>Submitting the assigned tasks.</i> <p>PT [(1x(2x60"))</p> <p>Task 3: <i>Restating the information obtained in the form of an a-150-words paragraph.</i></p> <p>Moda (Learning Management System): learning@usu.ac.id</p>	<p>TM [(1x(2x50")) Kegiatan:</p> <ol style="list-style-type: none"> <i>Making notes of the learning materials explained.</i> <i>Responding to the questions or instructions given.</i> <i>Completing all the provided exercises individually.</i> <i>Discussing the exercises completed.</i> <p>Media: <i>Power Point Presentation (PPT)</i> <i>Zoom Meeting</i> <i>Audio Recording</i> <i>English Handout</i></p> <p>Metode Pembelajaran:</p> <ol style="list-style-type: none"> <i>Online Lecture</i> <i>Discussion</i> <i>Self-Paced Learning</i> 	<p>Pokok Bahasan: Pengujian Program dan Penelusuran Error</p> <p>Referensi: [1],[2],[3],[4]</p>	5%
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13	Mahasiswa dapat mengerjakan latihan tentang konsep fungsi dan prosedur	<ol style="list-style-type: none"> <i>The accuracy in providing the information required</i> <i>The student's fluency in reading the memo (spelling, intonation, and speed)</i> <i>The correctness of the student's answers</i> 	<p>Kriteria: <i>Marking Scheme</i></p> <p>Bentuk: <i>Worksheet (Non-Tes)</i></p> <ol style="list-style-type: none"> <i>Reading the memo provided.</i> <i>Responding to the opening questions given.</i> <i>Completing the table (problem-solution) according to the information in the memo.</i> <i>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.</i> 	<p>BM [(1x(2x60")) Kegiatan:</p> <ol style="list-style-type: none"> <i>Reviewing the previous lessons.</i> <i>Reading the added learning materials.</i> <i>Recording the presence.</i> <i>Responding to opening questions in the 'Discussion Forum' section.</i> <i>Submitting the assigned tasks.</i> <p>PT [(1x(2x60"))</p> <p>Task 3: <i>Restating the information obtained in the form of an a-150-words paragraph.</i></p> <p>Moda (Learning Management System): learning@usu.ac.id</p>	<p>TM [(1x(2x50")) Kegiatan:</p> <ol style="list-style-type: none"> <i>Making notes of the learning materials explained.</i> <i>Responding to the questions or instructions given.</i> <i>Completing all the provided exercises individually.</i> <i>Discussing the exercises completed.</i> <p>Media: <i>Power Point Presentation (PPT)</i> <i>Zoom Meeting</i> <i>Audio Recording</i> <i>English Handout</i></p> <p>Metode Pembelajaran:</p> <ol style="list-style-type: none"> <i>Online Lecture</i> <i>Discussion</i> <i>Self-Paced Learning</i> 	<p>Pokok Bahasan: Konsep Fungsi dan Prosedur</p> <p>Referensi: [1],[2],[3],[4]</p>	5%
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14	Mahasiswa memahami perkembangan teori praktikum konsep fungsi dan prosedur	<ol style="list-style-type: none"> 1. <i>The accuracy in providing the information required</i> 2. <i>The student's fluency in reading the memo (spelling, intonation, and speed)</i> 3. <i>The correctness of the student's answers</i> 	<p>Kriteria: <i>Marking Scheme</i></p> <p>Bentuk: <i>Worksheet (Non-Tes)</i></p> <ol style="list-style-type: none"> 1. <i>Reading the memo provided.</i> 2. <i>Responding to the opening questions given.</i> 3. <i>Completing the table (problem-solution) according to the information in the memo.</i> 4. <i>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.</i> 	<p>BM [(1x(2x60"))] Kegiatan:</p> <ol style="list-style-type: none"> 1. <i>Reviewing the previous lessons.</i> 2. <i>Reading the added learning materials.</i> 3. <i>Recording the presence.</i> 4. <i>Responding to opening questions in the 'Discussion Forum' section.</i> 5. <i>Submitting the assigned tasks.</i> <p>PT [(1x(2x60"))]</p> <p>Task 3: <i>Restating the information obtained in the form of an a-150-words paragraph.</i></p> <p>Moda (Learning Management System): learning@usu.ac.id</p>	<p>TM [(1x(2x50"))] Kegiatan:</p> <ol style="list-style-type: none"> 1. <i>Making notes of the learning materials explained.</i> 2. <i>Responding to the questions or instructions given.</i> 3. <i>Completing all the provided exercises individually.</i> 4. <i>Discussing the exercises completed.</i> <p>Media: <i>Power Point Presentation (PPT)</i> <i>Zoom Meeting</i> <i>Audio Recording</i> <i>English Handout</i></p> <p>Metode Pembelajaran:</p> <ol style="list-style-type: none"> 37. <i>Online Lecture</i> 38. <i>Discussion</i> 39. <i>Self-Paced Learning</i> 	<p>Pokok Bahasan: Praktikum Konsep Fungsi dan Prosedur</p> <p>Referensi: [1],[2],[3],[4]</p>	5%
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15	Mahasiswa memahami konsep oop dan modularisasi	<ol style="list-style-type: none"> <i>The accuracy in providing the information required</i> <i>The student's fluency in reading the memo (spelling, intonation, and speed)</i> <i>The correctness of the student's answers</i> 	<p>Kriteria: <i>Marking Scheme</i></p> <p>Bentuk: <i>Worksheet (Non-Tes)</i></p> <ol style="list-style-type: none"> <i>Reading the memo provided.</i> <i>Responding to the opening questions given.</i> <i>Completing the table (problem-solution) according to the information in the memo.</i> <i>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.</i> 	<p>BM [(1x(2x60"))] Kegiatan:</p> <ol style="list-style-type: none"> <i>Reviewing the previous lessons.</i> <i>Reading the added learning materials.</i> <i>Recording the presence.</i> <i>Responding to opening questions in the 'Discussion Forum' section.</i> <i>Submitting the assigned tasks.</i> <p>PT [(1x(2x60"))]</p> <p>Task 3: <i>Restating the information obtained in the form of an a-150-words paragraph.</i></p> <p>Moda (Learning Management System): learning@usu.ac.id</p>	<p>TM [(1x(2x50"))] Kegiatan:</p> <ol style="list-style-type: none"> <i>Making notes of the learning materials explained.</i> <i>Responding to the questions or instructions given.</i> <i>Completing all the provided exercises individually.</i> <i>Discussing the exercises completed.</i> <p>Media: <i>Power Point Presentation (PPT)</i> <i>Zoom Meeting</i> <i>Audio Recording</i> <i>English Handout</i></p> <p>Metode Pembelajaran:</p> <ol style="list-style-type: none"> <i>Online Lecture</i> <i>Discussion</i> <i>Self-Paced Learning</i> 	<p>Pokok Bahasan: Konsep Oop dan Modularisasi</p> <p>Referensi: [1],[2],[3],[4]</p>	5%
16	UJIAN AKHIR SEMESTER						
Total							100