



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
Fisika 2	TEE1201		3		7 AGUSTUS 2022
OTORISASI / PENGESAHAN	Dosen Pengembang RPS		Koordinator RMK		Ka Prodi
	Drs.Hasdari Helmi, 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.			
	CPL-5	Mampu menerapkan metode, keterampilan dan perangkat teknik modern yang diperlukan untuk praktek profesi Teknik Elektro.			
	CPL-6	Mampu berkomunikasi secara efektif, baik lisan maupun tulisan.			
	CPL-7	Mampu mengevaluasi tugas-tugas dalam batasan yang ada secara disiplin dan menyeluruh.			
	CPL-8	Mampu untuk bekerja dalam tim lintas disiplin dan multikultural serta global internasional.			
	CPL-9	Mampu untuk bertanggung jawab kepada masyarakat dan mematuhi etika profesi dalam menyelesaikan permasalahan Teknik Elektro.			

	CPL-10	Memiliki kapasitas pembelajaran sepanjang hayat termasuk akses pengetahuan yang relevan tentang isu-isu terkini.																																																																												
	CPL-11	Mampu mengidentifikasi potensi daerah di Sumatera Utara dan menerapkan inovasi, metode, keterampilan, dan perangkat teknik elektro yang relevan untuk mengembangkan potensi daerah tersebut.																																																																												
	CPL-12	Mampu mendesain sistem dan/atau proses untuk memanfaatkan energi baru dan terbarukan sebagai sumber energi listrik alternatif dari potensi sumber daya lokal dan nasional dengan wawasan global.																																																																												
	Capaian Pembelajaran Mata Kuliah (CPMK)																																																																													
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Diskripsi Singkat MK	Mata kuliah ini menjelaskan agar mahasiswa memahami panas, bunyi, gelombang, optik dan inti yang berhubungan dengan dasar-dasar bidang teknik elektro tentang suhu dan panas, pemuaian, transfer, perubahan fase, gas ideal, hukum termodinamika, entalpi, siklus, gelombang mekanik, gelombang elektromagnetik taraf intensitas, efek doppler, cahaya, indeks bias, pemantulan internal, serat optik, struktur atom, nuklir, relativitas, radioaktif, waktu paruh, energi ikat inti																																																																													
Bahan Kajian: Materi pembelajaran	suhu dan jenis alat ukurnya, serta aplikasinya; Konsep Panas dan pemuaian serta transfer; Hukum gas ideal, persamaan Van der Waals; Diagram fasa, Hukum termodinamika; laju gelombang bunyi, efek doppler; mesin panas, refrigerator, mesin Carnot, entalpi, entropi; gelombang bunyi, taraf intensitas, osilasi, SHM; Cahaya, pemantulan, pembiasan, indeks bias, pemantulan internal sempurna, serat optik; optik geometri dan peralatan optik; Konsep Fisika Nuklir, struktur atom, inti; Sifat Gelombang Materi; Mahasiswa dapat mengerjakan latihan tentang energi ikat atom, fisi, fusi; Mahasiswa memahami perkembangan teori relativitas dan fotolistrik; Mahasiswa memahami reaktor nuklir																																																																													
Pustaka	<table border="1"> <tr> <td>Utama:</td> <td colspan="11"></td> </tr> <tr> <td>1.</td> <td colspan="11"></td> </tr> <tr> <td>Pendukung:</td> <td colspan="11"></td> </tr> </table>												Utama:												1.												Pendukung:																																									
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	1.
Dosen Pengampu	
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 suhu dan jenis alat ukurnya, serta aplikasinya	<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.</i> <i>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: suhu dan jenis alat ukurnya, serta aplikasinya</p> <p>Referensi: Mohon diisikan</p>	5%

			<i>correct headings.</i>		<i>Learning</i>		
2	Mahasiswa memahami konsep panas dan pemuaiian serta transfer	<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</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:</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:</p>	<p>Pokok Bahasan: Konsep Panas dan pemuaiian serta transfer</p> <p>Referensi:</p>	5%

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

			<p>similar meaning (synonym) according to the information in the memo. Classifying the words or phrases with the correct headings.</p>	<p>Restating the information obtained in the form of an a-150-words paragraph.</p> <p>Moda (Learning Management System): elearning@usu.ac.id</p>	<p>Power Point Presentation (PPT) Zoom Meeting Audio Recording English Handout</p> <p>Metode Pembelajaran: 7. Online Lecture 8. Discussion 9. Self-Paced Learning</p>		
4	Mahasiswa mampu menerapkan teori daigram fasa, hukum termodinamika	<ol style="list-style-type: none"> The accuracy in providing the information required The student's fluency in reading the memo (spelling, intonation, and speed) The correctness of the student's answers 	<p>Kriteria: Marking Scheme</p> <p>Bentuk: Worksheet (Non-Tes)</p> <ol style="list-style-type: none"> Reading the memo provided. Responding to the opening questions given. Completing the table (problem-solution) according to the information in the memo. Finding the word or phrase with 	<p>BM [(1x(2x60"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> Reviewing the previous lessons. Reading the added learning materials. Recording the presence. Responding to opening questions in the 'Discussion Forum' section. Submitting the assigned tasks. <p>PT [(1x(2x60"))]</p> <p>Task 3:</p>	<p>TM [(1x(2x50"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> Making notes of the learning materials explained. Responding to the questions or instructions given. Completing all the provided exercises individually. Discussing the exercises completed. <p>Media:</p>	<p>Pokok Bahasan: Daigram fasa, Hukum termodinamika</p> <p>Referensi:</p>	5%

			<p>similar meaning (synonym) according to the information in the memo. Classifying the words or phrases with the correct headings.</p>	<p>Restating the information obtained in the form of an a-150-words paragraph.</p> <p>Moda (Learning Management System): elearning@usu.ac.id</p>	<p>Power Point Presentation (PPT) Zoom Meeting Audio Recording English Handout</p> <p>Metode Pembelajaran:</p> <p>10. Online Lecture 11. Discussion 12. Self-Paced Learning</p>		
5	Mahasiswa dapat mengerjakan latihan tentang laju gelombang bunyi, efek doppler	<ol style="list-style-type: none"> The accuracy in providing the information required The student's fluency in reading the memo (spelling, intonation, and speed) The correctness of the student's answers 	<p>Kriteria: Marking Scheme</p> <p>Bentuk: Worksheet (Non-Tes)</p> <ol style="list-style-type: none"> Reading the memo provided. Responding to the opening questions given. Completing the table (problem-solution) according to the information in the memo. Finding the word or phrase with 	<p>BM [(1x(2x60"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> Reviewing the previous lessons. Reading the added learning materials. Recording the presence. Responding to opening questions in the 'Discussion Forum' section. Submitting the assigned tasks. <p>PT [(1x(2x60"))]</p> <p>Task 3:</p>	<p>TM [(1x(2x50"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> Making notes of the learning materials explained. Responding to the questions or instructions given. Completing all the provided exercises individually. Discussing the exercises completed. <p>Media:</p>	<p>Pokok Bahasan: laju gelombang bunyi, efek doppler</p> <p>Referensi:</p>	5%

			<p>similar meaning (synonym) according to the information in the memo. Classifying the words or phrases with the correct headings.</p>	<p>Restating the information obtained in the form of an a-150-words paragraph.</p> <p>Moda (Learning Management System): elearning@usu.ac.id</p>	<p>Power Point Presentation (PPT) Zoom Meeting Audio Recording English Handout</p> <p>Metode Pembelajaran:</p> <p>13. Online Lecture 14. Discussion 15. Self-Paced Learning</p>		
6	<p>Mahasiswa memahami perkembangan teori mesin panas,refrigrator, mesin carnot,entalpi,entropi</p>	<ol style="list-style-type: none"> The accuracy in providing the information required The student's fluency in reading the memo (spelling, intonation, and speed) The correctness of the student's answers 	<p>Kriteria: Marking Scheme</p> <p>Bentuk: Worksheet (Non-Tes)</p> <ol style="list-style-type: none"> Reading the memo provided. Responding to the opening questions given. Completing the table (problem-solution) according to the information in the memo. Finding the word or phrase with 	<p>BM [(1x(2x60"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> Reviewing the previous lessons. Reading the added learning materials. Recording the presence. Responding to opening questions in the 'Discussion Forum' section. Submitting the assigned tasks. <p>PT [(1x(2x60"))]</p> <p>Task 3:</p>	<p>TM [(1x(2x50"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> Making notes of the learning materials explained. Responding to the questions or instructions given. Completing all the provided exercises individually. Discussing the exercises completed. <p>Media:</p>	<p>Pokok Bahasan: Mahasiswa memahami perkembangan teori mesin panas,refrigrator, mesin carnot,entalpi,entropi</p> <p>Referensi:</p>	5%

			<p>similar meaning (synonym) according to the information in the memo. Classifying the words or phrases with the correct headings.</p>	<p>Restating the information obtained in the form of an a-150-words paragraph.</p> <p>Moda (Learning Management System): elearning@usu.ac.id</p>	<p>Power Point Presentation (PPT) Zoom Meeting Audio Recording English Handout</p> <p>Metode Pembelajaran: 16. Online Lecture 17. Discussion 18. Self-Paced Learning</p>		
7	<p>Mahasiswa dapat mempresentasikan pengetahuan gelombang bunyi, taraf intensitas, osilasi, shm</p>	<ol style="list-style-type: none"> The accuracy in providing the information required The student's fluency in reading the memo (spelling, intonation, and speed) The correctness of the student's answers 	<p>Kriteria: Marking Scheme</p> <p>Bentuk: Worksheet (Non-Tes)</p> <ol style="list-style-type: none"> Reading the memo provided. Responding to the opening questions given. Completing the table (problem-solution) according to the information in the memo. Finding the word or phrase with 	<p>BM [(1x(2x60"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> Reviewing the previous lessons. Reading the added learning materials. Recording the presence. Responding to opening questions in the 'Discussion Forum' section. Submitting the assigned tasks. <p>PT [(1x(2x60"))]</p> <p>Task 3:</p>	<p>TM [(1x(2x50"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> Making notes of the learning materials explained. Responding to the questions or instructions given. Completing all the provided exercises individually. Discussing the exercises completed. <p>Media:</p>	<p>Pokok Bahasan: gelombang bunyi, taraf intensitas, osilasi, SHM</p> <p>Referensi:</p>	5%

			<p>similar meaning (synonym) according to the information in the memo. Classifying the words or phrases with the correct headings.</p>	<p>Restating the information obtained in the form of an a-150-words paragraph.</p> <p>Moda (Learning Management System): elearning@usu.ac.id</p>	<p>Power Point Presentation (PPT) Zoom Meeting Audio Recording English Handout</p> <p>Metode Pembelajaran:</p> <p>19. Online Lecture 20. Discussion 21. Self-Paced Learning</p>		
8	UJIAN TENGAH SEMESTER						
9	Mahasiswa menguasai teori cahaya, pemantulan, pembiasan, indeks bias, pemantulan internal sempurna, serat optik	<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: Marking Scheme</p> <p>Bentuk: Worksheet (Non-Tes)</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> 	<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>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:</p>	<p>Pokok Bahasan: Cahaya, pemantulan, pembiasan, indeks bias, pemantulan internal sempurna, serat optik</p> <p>Referensi:</p>	5%

			<p>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>	<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><i>Power Point Presentation (PPT)</i> <i>Zoom Meeting</i> <i>Audio Recording</i> <i>English Handout</i></p> <p>Metode Pembelajaran: 22. <i>Online Lecture</i> 23. <i>Discussion</i> 24. <i>Self-Paced Learning</i></p>		
10	Mahasiswa memahami optik geometri dan peralatan optik	<p>1. <i>The accuracy in providing the information required</i></p> <p>2. <i>The student's fluency in reading the memo (spelling, intonation, and speed)</i></p> <p>3. <i>The correctness of the student's answers</i></p>	<p>Kriteria: <i>Marking Scheme</i></p> <p>Bentuk: <i>Worksheet (Non-Tes)</i></p> <p>1. <i>Reading the memo provided.</i></p> <p>2. <i>Responding to the opening questions given.</i></p> <p>3. <i>Completing the table (problem-solution) according to the information in the memo.</i></p> <p>4. <i>Finding the word or phrase with</i></p>	<p>BM [(1x(2x60"))]</p> <p>Kegiatan:</p> <p>1. <i>Reviewing the previous lessons.</i></p> <p>2. <i>Reading the added learning materials.</i></p> <p>3. <i>Recording the presence.</i></p> <p>4. <i>Responding to opening questions in the 'Discussion Forum' section.</i></p> <p>5. <i>Submitting the assigned tasks.</i></p> <p>PT [(1x(2x60"))]</p> <p>Task 3:</p>	<p>TM [(1x(2x50"))]</p> <p>Kegiatan:</p> <p>1. <i>Making notes of the learning materials explained.</i></p> <p>2. <i>Responding to the questions or instructions given.</i></p> <p>3. <i>Completing all the provided exercises individually.</i></p> <p>4. <i>Discussing the exercises completed.</i></p> <p>Media:</p>	<p>Pokok Bahasan: optik geometri dan peralatan optik</p> <p>Referensi:</p>	5%

			<p>similar meaning (synonym) according to the information in the memo. Classifying the words or phrases with the correct headings.</p>	<p>Restating the information obtained in the form of an a-150-words paragraph.</p> <p>Moda (Learning Management System): elearning@usu.ac.id</p>	<p>Power Point Presentation (PPT) Zoom Meeting Audio Recording English Handout</p> <p>Metode Pembelajaran:</p> <p>25. Online Lecture 26. Discussion 27. Self-Paced Learning</p>		
11	Mahasiswa menguasai konsep fisika nuklir, stuktur atom, inti	<ol style="list-style-type: none"> The accuracy in providing the information required The student's fluency in reading the memo (spelling, intonation, and speed) The correctness of the student's answers 	<p>Kriteria: Marking Scheme</p> <p>Bentuk: Worksheet (Non-Tes)</p> <ol style="list-style-type: none"> Reading the memo provided. Responding to the opening questions given. Completing the table (problem-solution) according to the information in the memo. Finding the word or phrase with 	<p>BM [(1x(2x60"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> Reviewing the previous lessons. Reading the added learning materials. Recording the presence. Responding to opening questions in the 'Discussion Forum' section. Submitting the assigned tasks. <p>PT [(1x(2x60"))]</p> <p>Task 3:</p>	<p>TM [(1x(2x50"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> Making notes of the learning materials explained. Responding to the questions or instructions given. Completing all the provided exercises individually. Discussing the exercises completed. <p>Media:</p>	<p>Pokok Bahasan: Konsep Fisika Nuklir, stuktur atom, inti</p> <p>Referensi:</p>	5%

			<p>similar meaning (synonym) according to the information in the memo. Classifying the words or phrases with the correct headings.</p>	<p>Restating the information obtained in the form of an a-150-words paragraph.</p> <p>Moda (Learning Management System): elearning@usu.ac.id</p>	<p>Power Point Presentation (PPT) Zoom Meeting Audio Recording English Handout</p> <p>Metode Pembelajaran: 28. Online Lecture 29. Discussion 30. Self-Paced Learning</p>		
12	Mahasiswa mampu menerapkan teori sifat gelombang materi	<ol style="list-style-type: none"> The accuracy in providing the information required The student's fluency in reading the memo (spelling, intonation, and speed) The correctness of the student's answers 	<p>Kriteria: Marking Scheme</p> <p>Bentuk: Worksheet (Non-Tes)</p> <ol style="list-style-type: none"> Reading the memo provided. Responding to the opening questions given. Completing the table (problem-solution) according to the information in the memo. Finding the word or phrase with 	<p>BM [(1x(2x60"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> Reviewing the previous lessons. Reading the added learning materials. Recording the presence. Responding to opening questions in the 'Discussion Forum' section. Submitting the assigned tasks. <p>PT [(1x(2x60"))]</p> <p>Task 3:</p>	<p>TM [(1x(2x50"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> Making notes of the learning materials explained. Responding to the questions or instructions given. Completing all the provided exercises individually. Discussing the exercises completed. <p>Media:</p>	<p>Pokok Bahasan: Sifat Gelombang Materi</p> <p>Referensi:</p>	5%

			<p>similar meaning (synonym) according to the information in the memo. Classifying the words or phrases with the correct headings.</p>	<p>Restating the information obtained in the form of an a-150-words paragraph.</p> <p>Moda (Learning Management System): elearning@usu.ac.id</p>	<p>Power Point Presentation (PPT) Zoom Meeting Audio Recording English Handout</p> <p>Metode Pembelajaran:</p> <p>31. Online Lecture 32. Discussion 33. Self-Paced Learning</p>		
13	Mahasiswa dapat mengerjakan latihan tentang energi ikat atom, fisi, fusi	<ol style="list-style-type: none"> The accuracy in providing the information required The student's fluency in reading the memo (spelling, intonation, and speed) The correctness of the student's answers 	<p>Kriteria: Marking Scheme</p> <p>Bentuk: Worksheet (Non-Tes)</p> <ol style="list-style-type: none"> Reading the memo provided. Responding to the opening questions given. Completing the table (problem-solution) according to the information in the memo. Finding the word or phrase with 	<p>BM [(1x(2x60"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> Reviewing the previous lessons. Reading the added learning materials. Recording the presence. Responding to opening questions in the 'Discussion Forum' section. Submitting the assigned tasks. <p>PT [(1x(2x60"))]</p> <p>Task 3:</p>	<p>TM [(1x(2x50"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> Making notes of the learning materials explained. Responding to the questions or instructions given. Completing all the provided exercises individually. Discussing the exercises completed. <p>Media:</p>	<p>Pokok Bahasan: energi ikat atom, fisi, fusi</p> <p>Referensi:</p>	5%

			<p>similar meaning (synonym) according to the information in the memo. Classifying the words or phrases with the correct headings.</p>	<p>Restating the information obtained in the form of an a-150-words paragraph.</p> <p>Moda (Learning Management System): elearning@usu.ac.id</p>	<p>Power Point Presentation (PPT) Zoom Meeting Audio Recording English Handout</p> <p>Metode Pembelajaran:</p> <p>34. Online Lecture 35. Discussion 36. Self-Paced Learning</p>		
14	Mahasiswa memahami perkembangan teori relativitas dan fotolistrik	<ol style="list-style-type: none"> The accuracy in providing the information required The student's fluency in reading the memo (spelling, intonation, and speed) The correctness of the student's answers 	<p>Kriteria: Marking Scheme</p> <p>Bentuk: Worksheet (Non-Tes)</p> <ol style="list-style-type: none"> Reading the memo provided. Responding to the opening questions given. Completing the table (problem-solution) according to the information in the memo. Finding the word or phrase with 	<p>BM [(1x(2x60"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> Reviewing the previous lessons. Reading the added learning materials. Recording the presence. Responding to opening questions in the 'Discussion Forum' section. Submitting the assigned tasks. <p>PT [(1x(2x60"))]</p> <p>Task 3:</p>	<p>TM [(1x(2x50"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> Making notes of the learning materials explained. Responding to the questions or instructions given. Completing all the provided exercises individually. Discussing the exercises completed. <p>Media:</p>	<p>Pokok Bahasan: relativitas dan fotolistrik</p> <p>Referensi:</p>	5%

			<p>similar meaning (synonym) according to the information in the memo. Classifying the words or phrases with the correct headings.</p>	<p>Restating the information obtained in the form of an a-150-words paragraph.</p> <p>Moda (Learning Management System): elearning@usu.ac.id</p>	<p>Power Point Presentation (PPT) Zoom Meeting Audio Recording English Handout</p> <p>Metode Pembelajaran: 37. Online Lecture 38. Discussion 39. Self-Paced Learning</p>		
15	Mahasiswa memahami reaktor nuklir	<ol style="list-style-type: none"> The accuracy in providing the information required The student's fluency in reading the memo (spelling, intonation, and speed) The correctness of the student's answers 	<p>Kriteria: Marking Scheme</p> <p>Bentuk: Worksheet (Non-Tes)</p> <ol style="list-style-type: none"> Reading the memo provided. Responding to the opening questions given. Completing the table (problem-solution) according to the information in the memo. Finding the word or phrase with 	<p>BM [(1x(2x60"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> Reviewing the previous lessons. Reading the added learning materials. Recording the presence. Responding to opening questions in the 'Discussion Forum' section. Submitting the assigned tasks. <p>PT [(1x(2x60"))]</p> <p>Task 3:</p>	<p>TM [(1x(2x50"))]</p> <p>Kegiatan:</p> <ol style="list-style-type: none"> Making notes of the learning materials explained. Responding to the questions or instructions given. Completing all the provided exercises individually. Discussing the exercises completed. <p>Media:</p>	<p>Pokok Bahasan: Reaktor nuklir</p> <p>Referensi:</p>	5%

			<p><i>similar meaning (synonym) according to the information in the memo. Classifying the words or phrases with the correct headings.</i></p>	<p><i>Restating the information obtained in the form of an a-150-words paragraph.</i></p> <p>Moda (Learning Management System): elearning@usu.ac.id</p>	<p><i>Power Point Presentation (PPT) Zoom Meeting Audio Recording English Handout</i></p> <p>Metode Pembelajaran:</p> <p>40. <i>Online Lecture</i> 41. <i>Discussion</i> 42. <i>Self-Paced Learning</i></p>		
16	UJIAN AKHIR SEMESTER						
	Total						100