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|  | ***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*** |
| *Multimedia* | *TEE3108* | *Teknik komputer* | ***2*** |  |  | *7 AGUSTUS 2022* |
| ***OTORISASI / PENGESAHAN*** | ***Dosen Pengembang RPS*** | ***Koordinator RMK*** | ***Ka Prodi*** |
| *Ryandika Afdilla, ST, M.Sc**Dr. Ir. Fahmi, ST, MSc, IPM* | *Dr. Ir. Fahmi, ST, MSc, IPM* | *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)***  |  |
| *CPMK 1* | *Memahami dan menjelaskan konsep multimedia, pemahman dasar pembangunan informasi berbasis multimedia**sesuai peruntukan dan tujuan yang ingin dicapai.* |
| *CPMK 2* | *Memahmi dan menjelaskan proses perencanaan pembuatan informasi berbasis multimedia, dalam proses pra**produksi, produksi dan pasca produksi beserta proses pendistribusian kepada pengguna akhir.* |
| *CPMK 3* | *Memahami dan menjelaskan pembuatan elemen teks, gambar, suara, animasi dan video beserta format dan**kompresi data* |
| *CPMK 4* | *Memahami dan menjelaskan distribusi multimedia, baik jaringan maupun broadcast, QoS, dan perkembangannya**dimasa depan.* |
| ***Peta CPL – CPMK*** |

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|  | ***CPL 01*** | ***CPL 02*** | ***CPL 03*** | ***CPL 04*** | ***CPL 05*** | ***CPL 06*** | ***CPL 07*** | ***CPL 08*** | ***CPL 09*** | ***CPL 10*** | ***CPL 11*** | ***CPL 12*** |
| *CPMK 1*  |  |  | √ |  |  |  |  |  |  |  |  |  |
| *CPMK 2*  | √ |  | √ |  |  |  |  |  |  |  |  |  |
| *CPMK 3* | √ |  | √ | √ |  |  |  |  |  |  |  |  |
| *CPMK 4* |  | √ |  | √ | √ | √ | √ | √ | √ | √ | √ |  |

 |
| ***Diskripsi Singkat MK*** | *Mata Kuliah ini membekali mahasiswa dengan pengetahuan tentang dasar-dasar Multimedia, seperti definisi, jenis-jenis multimedia, aplikasi, termasuk gambaran awal mengenai materi yang akan diberikan selama perkuliahan. Selanjutnya mahasiswa akan dibekali pengetahuan tentang gambaran umum proses produksi konten multimedia, termasuk jenis-jenis sumber daya yang dibutuhkan, baik perangkat lunak, perangkat keras, maupun sumber daya manusianya. Berikutnya, mahasiswa diperkenalkan dengan jenis-jenis kompresi data multimedia beserta formatnya, baik untuk teks, suara (speech/voice), audio/musik, citra statis (still image) dan citra bergerak (video) dengan menggunakan aplikasi – aplikasi yang lazim digunakan pada dunia industri. Setelah memahami berbagai representasi data multimedia, mahasiswa diberikan pengetahuan mengenai jaringan dan distribusi data multimedia, seperti perancangan jaringan multimedia beserta berbagai metoda distribusinya. Sebagai akhir dari pokok bahasan, mahasiswa akan diperkenalkan dengan teknologi multimedia terkini berupa Augmented Reality atau Realitas Tertambah dan diakhiri dengan pengenalan konsep kebudayaan baru pada era millennium yaitu kebudayaan digital (Digital Culture)* |
| ***Bahan Kajian:*** *Materi pembelajaran* | *Pendahuluan Multimedia; Produksi Sistem Multimedia; Representasi dan Kompresi Data Teks; Representasi dan Kompresi Data Citra Statis; Representasi Data Animasi; Representasi dan Kompresi Data Suara; Representasi dan Kompresi Data Video; Perencanaan dan Manajemen Organisasi Produksi Multimedia; Pembiayaan, Desain dan Produksi Multimedia; Distribusi Multimedia; Multimedia Jaringan, Layanan Jaringan dan Protokol; Mahasiswa dapat mengerjakan latihan tentang multimedia jaringan nirkabel dan perangkat bergerak; Mahasiswa memahami perkembangan teori multimedia dalam augmented reality dan virtual reality; Mahasiswa memahami digital culture* |
| ***Pustaka*** | ***Utama:*** |  |
| 1. *Multimedia Engineering, ACM Fong and SC Hui, Wiley 2006*
 |
| ***Pendukung:*** |  |
| 1. *Diktat Kuliah, Fahmi, 2020*
 |
| ***Dosen Pengampu*** |  |
| ***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 pendahuluan multimedia* | 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:****Pendahuluan Multimedia****Referensi:****Multimedia Engineering, ACM Fong and SC Hui, Wiley 2006* | *5%* |
| *2* | *Mahasiswa memahami produksi sistem multimedia* | 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:****Produksi Sistem Multimedia****Referensi:****Multimedia Engineering, ACM Fong and SC Hui, Wiley 2006* | *5%* |
| *3* | *Mahasiswa menguasai representasi dan kompresi data teks* | 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:****Representasi dan Kompresi Data Teks****Referensi:****Multimedia Engineering, ACM Fong and SC Hui, Wiley 2006* | *5%* |
| *4* | *Mahasiswa mampu menerapkan teori representasi dan kompresi data citra statis* | 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:****Representasi dan Kompresi Data Citra Statis****Referensi:****Multimedia Engineering, ACM Fong and SC Hui, Wiley 2006* | *5%* |
| *5* | *Mahasiswa dapat mengerjakan latihan tentang representasi data animasi* | 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:****Representasi Data Animasi****Referensi:****Multimedia Engineering, ACM Fong and SC Hui, Wiley 2006* | *5%* |
| *6* | *Mahasiswa memahami perkembangan teori representasi dan kompresi data suara* | 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:****Mahasiswa memahami perkembangan teori representasi dan kompresi data suara****Referensi:****Multimedia Engineering, ACM Fong and SC Hui, Wiley 2006* | *5%* |
| *7* | *Mahasiswa dapat mempresentasikan pengetahuan representasi dan kompresi data video* | 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:****Representasi dan Kompresi Data Video****Referensi:****Multimedia Engineering, ACM Fong and SC Hui, Wiley 2006* | *5%* |
| *8* | *UJIAN TENGAH SEMESTER* |  |  |  |  |  |  |
| *9* | *Mahasiswa menguasai teori perencanaan dan manajemen organisasi produksi multimedia* | 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:****Perencanaan dan Manajemen Organisasi Produksi Multimedia****Referensi:****Multimedia Engineering, ACM Fong and SC Hui, Wiley 2006* | *5%* |
| *10* | *Mahasiswa memahami pembiayaan, desain dan produksi multimedia* | 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:****Pembiayaan, Desain dan Produksi Multimedia****Referensi:****Multimedia Engineering, ACM Fong and SC Hui, Wiley 2006* | *5%* |
| *11* | *Mahasiswa menguasai distribusi multimedia* | 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:****Distribusi Multimedia****Referensi:****Multimedia Engineering, ACM Fong and SC Hui, Wiley 2006* | *5%* |
| *12* | *Mahasiswa mampu menerapkan teori multimedia jaringan, layanan jaringan dan protokol* | 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:****Multimedia Jaringan, Layanan Jaringan dan Protokol****Referensi:****Multimedia Engineering, ACM Fong and SC Hui, Wiley 2006* | *5%* |
| 13 | Mahasiswa dapat mengerjakan latihan tentang multimedia jaringan nirkabel dan perangkat bergerak | 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:**Multimedia Jaringan Nirkabel dan Perangkat Bergerak**Referensi:***Multimedia Engineering, ACM Fong and SC Hui, Wiley 2006* | 5% |
| 14 | Mahasiswa memahami perkembangan teori multimedia dalam augmented reality dan virtual reality | 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:**Multimedia Dalam Augmented Reality dan Virtual Reality**Referensi:***Multimedia Engineering, ACM Fong and SC Hui, Wiley 2006* | 5% |
| 15 | Mahasiswa memahami digital culture | 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:**Digital Culture**Referensi:***Multimedia Engineering, ACM Fong and SC Hui, Wiley 2006* | 5% |
| 16 | UJIAN AKHIR SEMESTER |  |  |  |  |  |  |
|  | Total  | **100** |