

Rencana Pembelajaran Semester

	INSTITUT TEKNOLOGI SEPULUH NOPEMBER (ITS) FAKULTAS SAINS DAN ANALITIKA DATA DEPARTEMEN MATEMATIKA					Kode Dokumen
RENCANA PEMBELAJARAN SEMESTER						
MATA KULIAH (MK)	KODE	Rumpun MK	BOBOT (sks)		SEMESTER	Tgl Penyusunan
Kalkulus 2 / Calculus 2	SM 234201	Tuliskan Rumpun MK	3	0	2	23 Juli 2023
OTORISASI / PENGESAHAN	Dosen Pengembang RPS		Koordinator RMK		Ka SKPB	
	Dr. Tahiyatul Asfihani, S.Si, M.Si Prof. Dr. Drs. Chairul Imron, M.Ikom M. Syifa’ul Mufid, S.Si, M.Si, Ph.D Dian Winda S., S.Si, M.Si Amirul Hakam, S.Si, M.Si		Dr. Tahiyatul Asfihani, S.Si, M.Si		Dr. Didik Khusnul A., S.Si, M.Si	
Capaian Pembelajaran MK						
	CPL-2	Mampu mengkaji dan memanfaatkan ilmu pengetahuan dan teknologi dalam rangka mengaplikasikannya pada pengetahuan matematika, serta mampu mengambil keputusan secara tepat dari hasil kerja sendiri maupun kerja kelompok dalam bentuk laporan tugas akhir atau bentuk kegiatan pembelajaran lain yang luarannya setara dengan tugas akhir melalui pemikiran logis, kritis, sistematis dan inovatif.				
	LO-2	Able to study and utilize science and technology in order to apply it to mathematical knowledge and be able to make appropriate decisions from the results of their own work or group work in the form of final project reports or other forms of learning activities whose outcomes are equivalent to final assignments through logical, critical thinking, systematic and innovative.				
	PRODI yang dibebankan pada MK					
	Mata Kuliah					

	CP MK_1 CLO_1	Mahasiswa mampu menerapkan konsep-konsep dasar matematika yang terkait dengan fungsi transenden. <i>Students are able to apply basic mathematical concepts related to transcendent functions.</i>	
	CP MK_2 CLO_2	Mahasiswa mampu menerapkan teknik integrasi. <i>Students are able to apply integration techniques.</i>	
	CP MK_3 CLO_3	Mahasiswa mampu mengaplikasikan integral pada bentuk fungsi koordinat kartesius, koordinat kutub dan persamaan parametrik. <i>Students are able to apply integration techniques well in the forms of cartesian coordinate functions, polar coordinate, and parametric equations.</i>	
	CP MK_4 CLO_4	Mahasiswa mampu menentukan kekonvergenan barisan dan deret tak hingga. <i>Students are able to determine the convergence of infinity sequences and series.</i>	
Peta CPL – CP MK	Peta matriks antara CPL dengan CPMK (Sub CP MK)		
		CPL2 LO2	
	CPMK 1 CLO 1	✓	
	CPMK 2 CLO 2	✓	
	CPMK 3 CLO 3	✓	
	CPMK 4 CLO 4	✓	
Diskripsi Singkat MK dan Pokok Bahasan	Bahan Kajian		
	Fungsi transenden, diferensial dan integralnya Teknik Integrasi, Integral tak wajar Aplikasi Integral Bentuk Kutub, fungsi Parametrik, diferensial dan integralnya Barisan dan Deret		
	Pokok Bahasan:		
	Dalam Mata Kuliah ini mahasiswa akan mempelajari Pokok bahasan pokok bahasan sebagai berikut: 1. Fungsi Transenden, diferensial dan integralnya. 2. Teknik integrasi dan Integral tak wajar. 3. Aplikasikan integral tertentu pada luas bidang datar, volume benda, Panjang busur dan luas kulit benda putar, pusat massa, penerapan teorema Guldin.		

	4. Sistem koordinat kutub dan persamaan parametrik, sketsa grafiknya, dan aplikasinya. 5. Kekonvergenan barisan dan deret tak hingga, dan menghitung jumlah deret tak hingga yang konvergen, deret Taylor dan deret Maclaurin.	
Brief Description MK and Main Discussion	Study Material	
	<i>Trancendent functions, differential, and integral</i> <i>Integration technique, Improper integral</i> <i>Integral application</i> <i>Polar coordinates, parametric functions, differential and its integral.</i> <i>Sequence and series</i>	
	Main Discussion	
	<i>In this course, students will learn the following subjects:</i> <i>1. Trancendents functions, differential and integral.</i> <i>2. Integration technique and improper integral.</i> <i>3. Applying certain integral to a plane area, the volume of area revolution, arc length and the area of a surface of revolution., centroids and application of Guldin's theorem.</i> <i>4. Polar coordinate system and parametric equation, the polar coordinate's graph, and its application.</i> <i>5. Convergence of sequences and infinite series, sums of infinite series, Taylor and Maclaurin series.</i>	
Pustaka	Utama / Main:	
References	1. Tim Dosen Departemen Matematika ITS, <i>Buku Ajar Matematika 2</i>, Edisi ke-2 (Revisi 2022) Departemen Matematika ITS, 2022 2. Anton, H. dkk, <i>Calculus</i>, 10-th edition, John Wiley & Sons, New York, 2012	
	Pendukung / Supporting:	
	3. Kreyzig, E, <i>Advanced Engineering Mathematics</i>, 10-th edition, John Wiley & Sons, Singapore, 2011 4. Purcell, J, E, Rigdon, S., E., <i>Calculus</i>, 9-th edition, Prentice-Hall, New Jersey, 2006 5. James Stewart, <i>Calculus</i>, ed.7, Brooks/cole-Cengage Learning, Canada,2012	
Dosen Pengampu Lecturers	Tim Dosen Matematika ITS <i>Mathematic Lecturers Team</i>	
Assessment	Tugas Mandiri, Ujian Tulis (Quiz, ETS, EAS). <i>Exercises, Assignments and Written Test.</i>	
Matakuliah syarat Prerequisite	-	

Minggu Ke- / Week	Kemampuan akhir tiap tahapan belajar (Sub-CPMK) / Final Ability of Each Learning Stage (LLO)	Assessment		Bantuan Pembelajaran; Metode Pembelajaran; Penugasan Mahasiswa; [Estimasi Waktu] / Form of Learning; Learning Method; Student Assignment; [Estimated Time]		Materi Pembelajaran [Pustaka] / Learning Material [Reference]	Bobot Penilaian (%) / Assessment Load (%)
		Indikator / Indicator	Kriteria & Teknik / Criterias & Techniques	Tatap Muka / In-class (5)	Daring / Online (6)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Pengantar Kuliah <i>Introduction of Learning</i>	Motivasi belajar, menyampaikan RPS, aturan perkuliahan, macam evaluasi, prosentase masing masing evaluasi (RAE/RT) dan sumber pustaka <i>Learning motivation, delivering learning plan, lecture rules, agreement in evaluations, the percentage in each evaluation and book references.</i>					
	Mampu menjelaskan sifat dasar, turunan dan integral dan sketsa grafik yang melibatkan fungsi logaritma dan eksponensial. <i>Student are able to explain basic properties, derivatives and integrals and sketch graphs involving logarithmic and exponential functions.</i>	Ketepatan menjelaskan sifat, turunan dan integral dan mensketsa grafik fungsi logaritma dan eksponensial. <i>The accuracy in explaining properties, derivatives and integrals and sketching graphs of logarithmic and exponential functions.</i>	Tugas (1) : Menyelesaikan soal latihan 1.1 <i>Task (1) : Solve practice questions 1.1</i>	Kuliah, latihan soal-soal serta memberikan soal tugas [TM : 2x2x 50"] [BM : 2x2 x 60"] [PT : 2x2x 60"] <i>Tutorial activities, exercises and provide assignment .</i> [FF : 2 x2x 50"] [SA : 2 x 2x60"] [SS : 2 x 2x 60"]	Kuliah, diskusi, latihan soal-soal melalui: MyITS Classroom [TM : 2x2x 50"] [BM : 2x2 x 60"] [PT : 2x2x 60"] <i>Lectures, discussions, practice questions at myITS classroom</i> [FF : 2 x2x 50"] [SA : 2 x 2x60"] [SS : 2 x 2x 60"]	Fungsi logaritma & eksponensial. [1] Subbab 1.1 (hal 1-29) <i>Logarithmic & exponential functions.</i> [1] Section 1.1 (p: 1-29)	

2	Mampu menjelaskan fungsi invers trigonometri serta turunan dan integralnya	Ketepatan memperoleh turunan dan integral fungsi invers trigonometri	Tugas (2) : Menyelesaikan soal latihan 1.2	Kuliah, latihan soal-soal serta memberikan soal tugas [TM : 1x2x 50"] [BM : 1x2 x 60"] [PT : 1x2x 60"]	Kuliah, diskusi, latihan soal-soal melalui: MyITS Classroom [TM : 1x2x 50"] [BM : 1x2 x 60"] [PT : 1x2x 60"]	Fungsi Invers Trigonometri [1] Subbab 1.2 (hal 33-49)	
	<i>Students are able to determine the derivatives of inverse trigonometry</i>	<i>The accuracy of obtaining the derivatives and integral of inverse trigonometry</i>	<i>Task (2) : Solve practice questions 1.2</i>	<i>Tutorial activities, exercises and provide assignment .</i> [FF : 1 x2x 50"] [SA : 1 x 2x60"] [SS : 1 x 2x 60"]	<i>Lectures, discussions, practice questions at myITS classroom</i> [FF : 1 x2x 50"] [SA : 1 x 2x60"] [SS : 1 x 2x 60"]	<i>Inverse Trigonometric Functions [1] Section 1.2 (p. 33-49)</i>	
Asistensi 1 / 1th Assistance Latihan soal-soal [TM : 2 x 50'] Practice- Exercises [FF : 2 x 50']							
3	Mampu menjelaskan fungsi hiperbolik, invers hiperbolik serta turunan dan integralnya	Ketepatan memperoleh turunan dan integral fungsi invers hiperbolik	Tugas (3) : Menyelesaikan soal latihan 1.3	Kuliah, latihan soal-soal serta memberikan soal tugas [TM : 2x2x 50"] [BM : 2x2 x 60"] [PT : 2x2x 60"]	Kuliah, diskusi, latihan soal-soal melalui: MyITS Classroom [TM : 2x2x 50"] [BM : 2x2 x 60"] [PT : 2x2x 60"]	Fungsi Hiperbolik [1] Subbab 1.3 (hal 54-63)	
	<i>Students are able to explain hyperbolic functions, hyperbolic inverses and their derivatives and integrals</i>	<i>The precision of obtaining the derivative and integral of the hyperbolic inverse function</i>	<i>Task (3) : Solve practice questions 1.3</i> QUIZ 1	<i>Tutorial activities, exercises and provide assignment .</i> [FF : 2 x2x 50"] [SA : 2 x 2x60"] [SS : 2 x 2x 60"]	<i>Lectures, discussions, practice questions at myITS classroom</i> [FF : 2 x2x 50"] [SA : 2 x 2x60"]	<i>Hyperbolic Functions [1] Section 1.3 (p. 54-63)</i>	

					[SS : 2 x 2x 60"]		
4	Mampu menyelesaikan integral parsial dan integral fungsi trigonometri <i>Students are able to solve partial integral and integral of trigonometry function.</i>	Ketepatan menyelesaikan integral parsial dan fungsi trigonometri <i>The accuracy of solving partial integrals and trigonometric functions</i>	Tugas (4) : Menyelesaikan soal latihan 2.1 <i>Task (4) : Solve practice questions 2.1</i>	Kuliah, latihan soal-soal serta memberikan soal tugas [TM : 1x2x 50"] [BM : 1x2 x 60"] [PT : 1x2x 60"] <i>Tutorial activities, exercises and provide assignment .</i> [FF : 1 x2x 50"] [SA : 1 x 2x60"] [SS : 1 x 2x 60"]	Kuliah, diskusi, latihan soal-soal melalui: MyITS Classroom [TM : 1x2x 50"] [BM : 1x2 x 60"] [PT : 1x2x 60"] <i>Lectures, discussions, practice questions at myITS classroom</i> [FF : 1 x2x 50"] [SA : 1 x 2x60"] [SS : 1 x 2x 60"]	Teknik Integrasi [1] Subbab 2.1 hal: 69-86 <i>Integration Technique [1] Sections 2.1 and 2.2 (p: 69-95)</i>	
Asistensi 2 / 2nd Assistance Latihan soal-soal [TM : 2 x 50'] <i>Practice- Exercises</i> [FF : 2 x 50']							
5	- Mampu menyelesaikan Integral fungsi rasional. - Mampu mengaplikasikan teknik-teknik integral yang lain	- Ketepatan menyelesaikan integral fungsi rasional. - Ketepatan menyelesaikan integral dengan teknik integral lain <i>The precision of solving the integral of a rational function.</i>	Tugas (5) : Menyelesaikan soal latihan 2.2 dan 2.3	Kuliah, latihan soal-soal serta memberikan soal tugas [TM : 2x2x 50"] [BM : 2x2 x 60"] [PT : 2x2x 60"]	Kuliah, diskusi, latihan soal-soal melalui: MyITS Classroom [TM : 2x2x 50"] [BM : 2x2 x 60"] [PT : 2x2x 60"] <i>Lectures, discussions,</i>	Teknik Integrasi [1] Subbab 2.2-2.3 hal: 86-104 <i>Integration Technique</i>	

	- Students are able to solve the integral of rational functions - Students are able to apply other integral techniques	The precision of solving the integral using integration technique	Task (5) : Solve practice questions 2.2 and 2.3	Tutorial activities, exercises and provide assignment . [FF : 2 x2x 50"] [SA : 2 x 2x60"] [SS : 2 x 2x 60"]	practice questions at myITS classroom [FF : 2 x2x 50"] [SA : 2 x 2x60"] [SS : 2 x 2x 60"]	[1] Section 2.2-2.3 (p: 86-104)	
6	Mampu menghitung integral dengan hampiran/ integrasi numerik.	Ketepatan menghitung integrasi numerik.	Tugas (6) : Menyelesaikan soal latihan 3.1 Kuis 2	Kuliah, latihan soal-soal serta memberikan soal tugas [TM : 1x2x 50"] [BM : 1x2 x 60"] [PT : 1x2x 60"]	Kuliah, diskusi, latihan soal-soal melalui: MyITS Classroom [TM : 1x2x 50"] [BM : 1x2 x 60"] [PT : 1x2x 60"]	Integrasi Numerik [1] Subbab 3.1 (hal. 107-121)	
	Students are able to calculate integrals with approximation / numerical integration.	The accuracy of calculating numerical integration.	Task (6) : Solve practice questions 3.1 Quiz 2	Tutorial activities, exercises and provide assignment . [FF : 1 x2x 50"] [SA : 1 x 2x60"] [SS : 1 x 2x 60"]	Lectures, discussions, practice questions at myITS classroom [FF : 1 x2x 50"] [SA : 1 x 2x60"] [SS : 1 x 2x 60"]	Numerical Integration [1] Sections 3.1 (p. 107-121)	
Asistensi 3 / 3rd Assistance Latihan soal-soal [TM : 2 x 50'] Practice- Exercises [FF : 2 x 50']							
7	- Mampu menghitung Integral tak wajar - Mampu menyelesaikan limit bentuk tak tentu.	- Ketepatan menghitung Integral tak wajar - Ketepatan menyelesaikan limit bentuk tak tentu	Tugas (7) : Menyelesaikan soal latihan 3.2-3.3	Kuliah, latihan soal-soal serta memberikan soal tugas [TM : 2x2x 50"] [BM : 2x2 x 60"] [PT : 2x2x 60"]	Kuliah, diskusi, latihan soal-soal melalui: MyITS Classroom [TM : 2x2x 50"] [BM : 2x2 x 60"] [PT : 2x2x 60"]	Integrasi Tak Wajar dan Limit Bentuk Tak tentu [1] Subbab 3.2-3.3 (hal. 121-144)	

	- Students are able to calculate the area between curves. - Students are able to calculate the volume of rotating objects	- The accuracy of calculating the area between curves. - The accuracy of calculating the volume of a rotating object using the disc method and the cylinder ring method.	Task (8) : Solve practice questions 4.1-4.2	Tutorial activities, exercises and provide assignment . [FF : 2 x2x 50"] [SA : 2 x 2x60"] [SS : 2 x 2x 60"]	Lectures, discussions, practice questions at myITS classroom [FF : 2 x2x 50"] [SA : 2 x 2x60"] [SS : 2 x 2x 60"]	Area between two curves [1] Section 4.1 (p. 145-151) Calculating the Volume of Rotating Objects [1] Section 4.2 (p. 153-165)	
10	Mampu menghitung panjang kurva dan luas permukaan benda putar. Students are able to calculate the arc length and extend on the concept the area of a surface of revolution.	Ketepatan menghitung panjang kurva dan luas permukaan benda putar. The accuracy of calculating the arc length of a curve and the area of a surface of revolution.	Tugas (9) : Menyelesaikan soal latihan 4.3 dan 4.4 Tasks (9): Solve practice questions 4.3 and 4.4	Kuliah, latihan soal-soal serta memberikan soal tugas [TM : 1x2x 50"] [BM : 1x2 x 60"] [PT : 1x2x 60"] Tutorial activities, exercises and provide assignment . [FF : 1 x2x 50"] [SA : 1 x 2x60"] [SS : 1 x 2x 60"]	Kuliah, diskusi, latihan soal-soal melalui: MyITS Classroom [TM : 1x2x 50"] [BM : 1x2 x 60"] [PT : 1x2x 60"] Lectures, discussions, practice questions at myITS classroom [FF : 1 x2x 50"] [SA : 1 x 2x60"] [SS : 1 x 2x 60"]	Panjang kurva dan luas permukaan [1] Subbab 4.3-4.4 (hal: 168-175) Arc length of a curve and surface of the area [1] Sections 4.3-4.4 (p. 168-175)	

	Asistensi 4 / 4th Assistance Latihan soal-soal [TM : 2 x 50'] <i>Practice- Exercises</i> [FF : 2 x 50']						
11	Mampu menentukan titik berat dan menerapkan dalil Guldin. <i>Students are able to determine centres of gravity, centroids and apply Guldin's theorem.</i>	Ketepatan menerapkan teorema, dalil Guldin untuk menghitung titik berat: luas, Volume, panjang busur dan luas kulit. <i>The accuracy of applying Guldin's theorem to calculate the centres of gravity, the centroids: area, volume, length of arc, and area of surface.</i>	Tugas (10) : Menyelesaikan soal latihan 4.5 Kuis 3 <i>Tasks (10): Solve practice questions 4.5</i> Quiz 3	Kuliah, latihan soal-soal serta memberikan soal tugas [TM : 2x2x 50"] [BM : 2x2 x 60"] [PT : 2x2x 60"] <i>Tutorial activities, exercises and provide assignment . [FF : 2 x2x 50"] [SA : 2 x 2x60"] [SS : 2 x 2x 60"]</i>	Kuliah, diskusi, latihan soal-soal melalui: MyITS Classroom [TM : 2x2x 50"] [BM : 2x2 x 60"] [PT : 2x2x 60"] <i>Lectures, discussions, practice questions at myITS classroom [FF : 2 x2x 50"] [SA : 2 x 2x60"] [SS : 2 x 2x 60"]</i>	Titik Berat [1] Subbab 4.5 (hal. 176-189) <i>Center of gravity [1] Section 4.5 (p. 176-189)</i>	

12	• Mampu menjelaskan fungsi parametrik, garis singgung dan panjang busur secara parametrik. • Mampu menggambar grafik dalam koordinat kutub • <i>Students are able to explain parametric functions, tangents and arc lengths parametrically.</i> • <i>Students are able to sketch graph in polar coordinate</i>	• Ketepatan menghitung garis singgung dan panjang busur dalam bentuk parametrik. • Ketepatan menggambar grafik fungsi bentuk kutub. • <i>The precision of calculating tangents and arc lengths in parametric form.</i> • <i>The accuracy of sketching out graph fuctions in polar coordinate.</i>	Tugas (11) : Menyelesaikan soal latihan 5.1-5.3 <i>Tasks (11): Solve practice questions 5.1-5.3</i>	Kuliah, latihan soal-soal serta memberikan soal tugas [TM : 1x2x 50"] [BM : 1x2 x 60"] [PT : 1x2x 60"] <i>Tutorial activities, exercises and provide assignment . [FF : 1 x2x 50"] [SA : 1 x 2x60"] [SS : 1 x 2x 60"]</i>	Kuliah, diskusi, latihan soal-soal melalui: MyITS Classroom [TM : 1x2x 50"] [BM : 1x2 x 60"] [PT : 1x2x 60"] <i>Lectures, discussions, practice questions at myITS classroom [FF : 1 x2x 50"] [SA : 1 x 2x60"] [SS : 1 x 2x 60"]</i>	Persamaan Parametrik [1] Subbab 5.1 (hal. 191-200) Grafik dalam Koordinat kutub [1] Subbab 5.2-5.3 (hal: 204 - 220) <i>Parametric Equation [1] Section 5.1 (p. 191-200) Graphs in Polar Coordinates [1] Sections 5.2-5.3 (p: 204-220)</i>	
	Asistensi 5 / 5th Assistance Latihan soal-soal [TM : 2 x 50'] <i>Practice- Exercises [FF : 2 x 50']</i>						

13	- Mampu menghitung luas dan volume dalam sistem koordinat Kutub. - Mampu menjelaskan garis singgung dan panjang busur dalam koordinat kutub - Mampu menjelaskan barisan takhingga dan kekonvergenannya <i>Students are able to explain tangents and arc lengths in polar coordinates</i> <i>Students are able to explain infinite sequences and their convergence</i> <i>Students are able to calculate the area in Polar coordinate system.</i>	- Ketepatan menghitung luas dan volume dalam koordinat kutub. <i>The accuracy of calculating the area in Polar coordinate system.</i>	Tugas (12) : Menyelesaikan soal latihan 5.4-5.5 dan 6.1 <i>Tasks (12): Solve practice questions 5.4-5.5 dan 6.1</i>	Kuliah, latihan soal-soal serta memberikan soal tugas [TM : 2x2x 50"] [BM : 2x2 x 60"] [PT : 2x2x 60"] <i>Tutorial activities, exercises and provide assignment . [FF : 2 x2x 50"] [SA : 2 x 2x60"] [SS : 2 x 2x 60"]</i>	Kuliah, diskusi, latihan soal-soal melalui: MyITS Classroom [TM : 2x2x 50"] [BM : 2x2 x 60"] [PT : 2x2x 60"] <i>Lectures, discussions, practice questions at myITS classroom [FF : 2 x2x 50"] [SA : 2 x 2x60"] [SS : 2 x 2x 60"]</i>	Luas dan Volume dalam Koordinat Kutub [1] Subbab 5.4 (hal. 222-229) Garis Singgung dan Panjang Busur di Koordinat Kutub [1] Subbab 5.5 (hal. 231-235) Barisan Tak Hingga [1] Subbab 6.1 (hal. 237-245) <i>Area and Volume in Polar Coordinates [1] Section 5.4 (p. 222-229) Tangents and Arc Lengths at Polar Coordinates [1] Section 5.5 (p. 231-235) Infinite Sequences [1] Section 6.1 (p. 237-245)</i>	
14	Mampu menjelaskan kekonvergenan deret tak	Ketepatan menentukan kekonvergenan deret takhingga	Tugas (13) : Menyelesaikan soal latihan 6.2-6.3	Kuliah, latihan	Kuliah, diskusi, latihan soal-soal	Deret Takhingga dan Uji Konvergenensi [1]	

	hingga dengan Uji konvergenan Deret. <i>Students are able to explain convergence of infinite series using convergence tests</i>	<i>The precision determines the convergence of an infinite series</i>	<i>Tasks (13): Solve practice questions 6.2-6.3</i>	soal-soal serta memberikan soal tugas [TM : 1x2x 50"] [BM : 1x2 x 60"] [PT : 1x2x 60"] <i>Tutorial activities, exercises and provide assignment . [FF : 1 x2x 50"] [SA : 1 x 2x60"] [SS : 1 x 2x 60"]</i>	melalui: MyITS Classroom [TM : 1x2x 50"] [BM : 1x2 x 60"] [PT : 1x2x 60"] <i>Lectures, discussions, practice questions at myITS classroom [FF : 1 x2x 50"] [SA : 1 x 2x60"] [SS : 1 x 2x 60"]</i>	Subbab 6.2-6.3 (hal. 247-265) <i>Infinite Series and Convergence Test [1] Sections 6.2-6.3 (p. 247-265)</i>	
	Asistensi 6 / 6th Assistance Latihan soal-soal [TM : 2 x 50'] <i>Practice- Exercises [FF : 2 x 50']</i>						
15	- Mampu mentransformasikan fungsi ke dalam bentuk deret Taylor dan deret <i>Maclaurin</i>. - Mampu menerapkan diferensiasi dan integrasi deret pangkat <i>Students are able to transform functions into Taylor series and Maclaurin series.</i>	- Ketepatan mendapatkan deret Taylor dan <i>Maclaurin</i>. - Ketepatan mendapatkan deferensiasi dan integrasi deret pangkat <i>The accuracy of obtaining the Taylor and Maclaurin series. The accuracy in obtaining</i>	Tugas (14) : Menyelesaikan soal latihan 6.4-6.5 <i>Tasks (14): Solve practice questions 6.4-6.5</i>	Kuliah, latihan soal-soal serta memberikan soal tugas [TM : 2x2x 50"] [BM : 2x2 x 60"] [PT : 2x2x 60"] <i>Tutorial activities, exercises and provide assignment . [FF : 2 x2x 50"] [SA : 2 x 2x60"] [SS : 2 x 2x 60"]</i>	Kuliah, diskusi, latihan soal-soal melalui: MyITS Classroom [TM : 2x2x 50"] [BM : 2x2 x 60"] [PT : 2x2x 60"] <i>Lectures, discussions, practice questions at myITS classroom [FF : 2 x2x 50"] [SA : 2 x 2x60"] [SS : 2 x 2x 60"]</i>	Deret Pangkat; Deret Taylor dan <i>Maclaurin</i> [1] Subbab 6.4 (hal. 268-279) Diferensiasi dan Integrasi Deret Pangkat [1] Subbab 6.5 (hal. 281-288) <i>Power Series; Taylor and Maclaurin series [1] Section 6.4 (p. 268-279)</i>	

8. Bentuk pembelajaran: Kuliah, Responsi, Tutorial, Seminar atau yang setara, Praktikum, Praktik Studio, Praktik Bengkel, Praktik Lapangan, Penelitian, Pengabdian Kepada Masyarakat dan/atau bentuk pembelajaran lain yang setara.
9. Metode Pembelajaran: Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, dan metode lainnya yg setara.
10. Materi Pembelajaran adalah rincian atau uraian dari bahan kajian yg dapat disajikan dalam bentuk beberapa pokok dan sub-pokok bahasan.
11. Bobot penilaian adalah prosentasi penilaian terhadap setiap pencapaian sub-CPMK yang besarnya proposional dengan tingkat kesulitan pencapaian sub-CPMK tsb., dan totalnya 100%.
12. **TM**=Tatap Muka, **PT**=Penugasan Terstuktur, **BM**=Belajar Mandiri.