

35. OPERATIONS MANAGEMENT & SUPPLY CHAIN

		Sekolah Tinggi Ilmu Ekonomi YAPAN Surabaya Program Studi S1 Manajemen Bachelor Degree of Management Study Program				Kode Dokumen Document Code	
RENCANA PEMBELAJARAN SEMESTER Semester Lesson Plan							
MATA KULIAH (MK) COURSE		KODE CODE	Rumpun MK CLUSTER	BOBOT (sks) WEIGHT (credits)		SEMESTER	Tgl Penyusunan Compilation Date
Manajemen Operasional & Rantai Pasok Operational Management & Supply Chain		MKB 130417	Manajemen Management	T=3	P=0	3	
OTORISASI AUTHORIZATION		Pengembang RPS Developer		Koordinator RMK Coordinator		Ketua PRODI Head of the Study Program	
				Rochmah Kurniawati,SE.,MM Rina Indra Sabella,SE.,MM.,CHRM		Ira Ningrum Resmawa,SE.,MM.,CMA	
Capaian Pembelajaran (CP) Program Learning Outcome (PLO)	CPL-PRODI yang dibebankan pada MK PLO charged in this course						
	CPL1 PLO1	Lulusan mampu menguasai teori bidang manajemen secara menyeluruh. Graduates are able to master the theory of management as a whole.					
	CPL2 PLO2	Lulusan mampu mengimplementasikan teori bidang manajemen dalam mengelola organisasi secara efektif. Graduates are able to implement management theory in managing organizations effectively.					
	CPL8 PLO8	Lulusan mampu mengelola organisasi secara etis Graduates are able to manage organizations ethically					
	Capaian Pembelajaran Mata Kuliah (CPMK) Course Learning Outcome (CLO)						
CPMK1 CLO1	C4. Mahasiswa mampu menganalisis kegiatan operasi perusahaan untuk keputusan-keputusan operasi dengan tepat. C4. Students are able to analyze the company's operating activities for precise operating decisions.						

CPMK2 CLO2	A5. Mahasiswa mampu menunjukkan karakter teliti, berwawasan luas, dan cerdas di dalam kegiatan pembelajaran Manajemen Operasional A5. Students are able to show meticulous, broad-minded, and smart character in Operational Management learning activities.									
Kemampuan akhir tiap tahapan belajar (Sub-CPMK) Expected ability of each learning stage (Sub-CLO)										
Sub-CPMK1 Sub-CLO1	Mampu menjelaskan pengertian, perkembangan dan arti penting manajemen operasi dalam berbagai jenis organisasi, terutama perusahaan manufaktur Able to explain the meaning, development and importance of operations management in various types of organizations, especially manufacturing companies									
Sub-CPMK1 Sub-CLO1	Mampu menjelaskan dan menganalisis, serta menentukan lokasi pabrik/cabang Able to explain and analyze, and determine the location of the factory / branch									
Sub-CPMK3 Sub-CLO3	Mampu membuat perencanaan produksi berdasarkan peramalan produksi Able to make production planning based on production forecasting									
Sub-CPMK4 Sub-CLO4	Mampu membuat perencanaan kebutuhan bahan baku (<i>Material Requirement Planning</i>) Able to make material requirements planning (<i>Material Requirement Planning</i>)									
Sub-CPMK5 Sub-CLO5	Mampu menganalisis perencanaan persediaan bahan baku Able to analyze raw material inventory planning									
Sub-CPMK6 Sub-CLO6	Mampu menganalisis manajemen rantai pasokan Able to analyze supply chain management									
Sub-CPMK7 Sub-CLO7	Mampu menganalisis tata letak fasilitas produksi Able to analyze the layout of production facilities									
Sub-CPMK8 Sub-CLO8	Mampu menganalisis perancangan kerja Able to analyze work design									
Sub-CPMK9 Sub-CLO9	Mampu menganalisis masalah secara bertanggung jawab, jujur, dan beretika dengan menerapkan pengendalian mutu statistik Able to analyze problems responsibly, honestly and ethically by applying statistical quality control									
Sub-CPMK10 Sub-CLO10	Mampu menjelaskan mengenai pemeliharaan dan reliabilitas peralatan Able to explain about equipment maintenance and reliability									
Korelasi CPMK terhadap Sub-CPMK Correlation of CLO to Sub-CLO										
	Sub-CPMK1	Sub-CPMK1	Sub-CPMK3	Sub-CPMK4	Sub-CPMK5	Sub-CPMK6	Sub-CPMK7	Sub-CPMK8	Sub-CPMK9	Sub-CPMK10

		Sub-CLO1	Sub-CLO1	Sub-CLO3	Sub-CLO4	Sub-CLO5	Sub-CLO6	Sub-CLO7	Sub-CLO8	Sub-CLO9	Sub-CLO10
	CPMK1 CLO1	V	V	V		V	V		V		V
	CPMK2 CLO2				V			V	V	V	
Deskripsi Singkat MK Brief description of the course	Mata kuliah ini membahas tentang konsep dan ruang lingkup manajemen operasi, baik yang berkaitan dengan alat maupun manusia, dengan berbagai metode optimasi mulai dari pendirian dan peneluan lokasi produksi, peramalan produksi, perencanaan kebutuhan bahan baku dan persediaan, tata letak (layout), perancangan kerja, pengendalian mutu, dan pemeliharaan. Aplikasi pembelajarannya melalui analisis contoh-contoh kasus di kelas. Perkuliahan dilaksanakan dengan sistem analisis studi kasus, ceramah, diskusi, tugas, dan refleksi.										
Description Short MK Brief description of the course	This course discusses the concepts and scope of operations management, both related to tools and humans, with various optimization methods ranging from the establishment and research of production sites, production forecasting, planning for raw material and inventory requirements, layout, work design, quality control, and maintenance. Learning application through analysis of case examples in class. Lectures are carried out using a case study analysis system, lectures, discussions, assignments, and reflections.										
Bahan Kajian: Materi Pembelajaran Learning Materials	<ol style="list-style-type: none"> 1. Overview of operations management 2. Analysis of the factory location 3. Production planning based on production forecasting 4. Planning for raw material requirements 5. Raw material inventory planning 6. Supply chain management 7. Layout of production facilities 8. Design work 9. Statistical quality control 10. Equipment maintenance and reliability 										
Study Materials:											
Learning Materials Learning Materials											
Pustaka References	Utama:										
	Primary:										
	<ol style="list-style-type: none"> 1. David Barnes. 2018. Operations Management. Australia: Macmillan International Higher Education. 2. Jay Heizer dan Barry Render, 2011. Operations Management, Tenth Edition. New Jersey: Pearson Education. 3. S. Anil Kumar dan N. Suresh, 2009. Operations Management. New Delhi: New Age International. 4. Joel D. Wisner, Keah-Choon Tan, G. Keong Leong. 2012. Principles of Supply Chain Management. Third edition. Cengage Learning. South-Western. 5. M. Nur Nasution, 2005. Manajemen Mutu Terpadu (Total Quality Management). Edisi Kedua. Bogor, Indonesia: Ghalia Indonesia. 										

	<p>6. Nigel Slack, Alistair Brandon-Jones, Robert Johnston, 2013. Operations Management. Seventh edition. Pearson-books.</p> <p>7. William J Stevenson, 2012. Operations Management. Eleventh edition. McGraw-Hill.</p> <p>Pendukung:</p> <p>Supplement:</p>
Dosen Pengampu Lecturers	<p>Rochmah Kurniawati,SE.,MM</p> <p>Rina Indra Sabella,SE.,MM.,CHRM</p> <p>Arif Hidayat, SE.,MM</p> <p>Rifki Suwaji,SMn.,MM.,CPS.,CPHCEP</p> <p>Achmad Sholihin,ST.,MM</p>
Matakuliah prasyarat Requirements course	<p>Mahasiswa telah menempuh mata kuliah pengantar bisnis dan pengantar manajemen</p> <p>Students have taken Introduction to Business and Introduction to Management</p>

Mg Ke-Week	Kemampuan akhir tiap tahapan belajar (Sub-CPMK) Expected ability of each learning stage (Sub-CLO)	Penilaian Assessment		Bentuk Pembelajaran, Metode Pembelajaran, Penugasan Mahasiswa, [Estimasi Waktu] Learning Form, Learning Methods, Student Assignment, [Estimated time]		Materi Pembelajaran [Pustaka] Learning materials [References]	Bobot Penilaian (%) rating weight
		Indikator Indicators	Kriteria & Teknik Criteria & Technic	Luring (offline)	Daring (online)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Mampu menjelaskan pengertian, perkembangan dan arti penting manajemen operasi dalam berbagai jenis organisasi, terutama perusahaan manufaktur Able to explain the meaning, development and importance of operations management in various types of organizations, especially manufacturing companies	1.1. Mampu mendiskusikan pengertian dan peran manajemen operasi dalam berbagai organisasi 1.2. Mampu memahami perkembangan manajemen operasi 1.3. Mampu menjelaskan manfaat penerapan manajemen operasi dalam berbagai jenis organisasi 1.1. Able to discuss the meaning and role of operations management in various organizations 1.2. Able to understand the development of operations management 1.3. Be able to explain the benefits of implementing operations management in various types of organizations	Kriteria: Rubrik Holistik Criteria: Holistic Rubric Bentuk non-tes: Meringkas materi kuliah Non-test form: Summarize the lecture material	-	Discussion, case study Google Classroom (diskusi) (discussion) Google Meet (kuliah) (lecture) Tugas 1: Menyusun ringkasan dalam bentuk makalah tentang perkembangan manajemen operasi pada masing-masing organisasi. [PB: 1x(3x50'')] [PT+KM: (1+1)x(3x60'')] Google Classroom (discussion) (discussion)	1,2	10

					<p>Google Meet (lecture) (lecture)</p> <p>Task 1: Compile a summary in the form of a paper on the development of operations management in each organization.</p> <p>[PB: 1x (3x50 ") [PT + KM: (1 + 1) x (3x60 ")</p>		
2	<p>Mampu menjelaskan dan menganalisis, serta menentukan lokasi pabrik/cabang</p> <p>Able to explain and analyze, and determine the location of the factory / branch</p>	<p>2.1. Mampu menjelaskan faktor-faktor yang dipertimbangkan dalam menentukan lokasi pabrik</p> <p>2.2. Mampu menjelaskan penentuan pabrik dengan metode <i>ranking procedure</i> (metode kualitatif)</p> <p>2.3. Mampu menjelaskan penentuan pabrik dengan metode <i>center of gravity</i> (metode kuantitatif)</p> <p>2.4. Mampu menjelaskan penentuan pabrik dengan metode <i>brown-gibson</i></p> <p>2.1. Be able to explain the factors considered in determining a factory location</p> <p>2.2. Be able to explain the determination of the factory with the ranking procedure method (qualitative method).</p> <p>2.3. Be able to explain the determination of the factory with the center of gravity method (quantitative method).</p>	<p>Kriteria: Rubrik Holistik</p> <p>Criteria: Holistic Rubric</p> <p>Bentuk non-tes: Meringkas materi kuliah</p> <p>Non-test form: Summarize the lecture material</p>	-	<p>Discussion, case study Google Classroom (diskusi) (discussion) Google Meet (kuliah) (lecture)</p> <p>Tugas 1: Menyusun ringkasan dalam bentuk makalah tentang penentuan lokasi pabrik.</p> <p>[PB: 1x(3x50") [PT+KM: (1+1)x(3x60")</p> <p>Google Classroom (discussion) (discussion)</p>	1,2	10

		2.4. Be able to explain the plant determination using the Brown-Gibson method			Google Meet (lecture) (lecture) Task 1: Compile a summary in the form of a paper on the determination of the factory location. [PB: 1x (3x50 ")] [PT + KM: (1 + 1) x (3x60 ")]		
3	Mampu membuat perencanaan produksi berdasarkan peramalan produksi Able to make production planning based on production forecasting	3.1. Mampu mengaplikasikan metode-metode peramalan time series dalam merencanakan produksi 3.2. Mampu mengaplikasikan metode-metode peramalan regresi dan korelasi dalam merencanakan produksi 3.1. Able to apply time series forecasting methods in planning production 3.2. Able to apply regression and correlation forecasting methods in planning production	Kriteria: Rubrik Holistik Criteria: Holistic Rubric Bentuk non-tes: Meringkas materi kuliah Non-test form: Summarize the lecture material	-	Discussion, case study Google Classroom (diskusi) (discussion) Google Meet (kuliah) (lecture) Tugas 1: Menyusun ringkasan dalam bentuk makalah tentang penentuan lokasi pabrik. [PB: 1x(3x50")] [PT+KM: (1+1)x(3x60")] Google Classroom (discussion) (discussion) Google Meet (lecture) (lecture)	1,2	10

					<p>Task 1: Compile a summary in the form of a paper on the determination of the factory location.</p> <p>[PB: 1x (3x50 ") [PT + KM: (1 + 1) x (3x60 ")</p>		
4-5	<p>Mampu membuat perencanaan kebutuhan bahan baku (<i>Material Requirement Planning</i>)</p> <p>Able to make material requirements planning</p>	<p>4.1. Mampu menyusun Jadwal Induk Produksi untuk produk tunggal</p> <p>4.2. Mampu menyusun Jadwal Induk Produksi untuk produk multiple</p> <p>4.3. Mampu melakukan analisis sebagai seorang kepala departemen produksi secara bertanggungjawab dan beretika dalam menyusun penjadwalan produksi</p> <p>4.1. Able to compile a Master Production Schedule for a single product</p> <p>4.2. Able to compile Master Production Schedule for multiple products</p> <p>4.3. Able to perform analysis as a head of the production department in a responsible and ethical manner in arranging production scheduling</p>	<p>Kriteria: Rubrik Holistik</p> <p>Criteria: Holistic Rubric</p> <p>Bentuk non-tes: Meringkas materi kuliah</p> <p>Non-test form: Summarize the lecture material</p>	-	<p>Discussion, case study Google Classroom (diskusi) (discussion) Google Meet (kuliah) (lecture)</p> <p>Tugas 1: Menyusun ringkasan dalam bentuk makalah tentang perencanaan bahan baku.</p> <p>[PB: 1x(3x50") [PT+KM: (1+1)x(3x60")</p> <p>Google Classroom (discussion) (discussion) Google Meet (lecture) (lecture)</p> <p>Task 1:</p>	1,2	10

					<p>Compile a summary in the form of a paper on raw material planning.</p> <p>[PB: 1x (3x50 ") [PT + KM: (1 + 1) x (3x60 ")</p>		
6	<p>Mampu menganalisis perencanaan persediaan bahan baku</p> <p>Able to analyze raw material inventory planning</p>	<p>6.1. Mampu menjelaskan biaya-biaya yang timbul sebagai akibat adanya persediaan</p> <p>6.2. Mampu menjelaskan pengendalian persediaan yang bersifat deterministik</p> <p>6.3. Mampu menjelaskan pengendalian persediaan dalam kaitannya dengan diskon</p> <p>6.1. Be able to explain costs that arise as a result of inventory</p> <p>6.2. Be able to explain deterministic inventory control</p> <p>6.3. Be able to explain inventory control in relation to discounts</p>	<p>Kriteria: Rubrik Holistik</p> <p>Criteria: Holistic Rubric</p> <p>Bentuk non-tes: Meringkas materi kuliah</p> <p>Non-test form: Summarize the lecture material</p>	-	<p>Discussion, case study Google Classroom (diskusi) (discussion) Google Meet (kuliah) (lecture)</p> <p>Tugas 1: Menyusun perencanaan persediaan bahan baku; Penentuan biaya yang timbul</p> <p>[PB: 1x(3x50") [PT+KM: (1+1)x(3x60")</p> <p>Google Classroom (discussion) (discussion) Google Meet (lecture) (lecture)</p> <p>Task 1: Prepare raw material inventory planning;</p>	1,2	10

					Determination of costs incurred [PB: 1x (3x50 ")] [PT + KM: (1 + 1) x (3x60 ")]		
7	Mampu menganalisis manajemen rantai pasokan Able to analyze supply chain management	7.1. Mampu menjelaskan tentang manajemen rantai pasokan, hubungan jangka panjang dengan pelanggan 7.1. Able to explain about supply chain management, long-term relationships with customers	Kriteria: Rubrik Holistik Criteria: Holistic Rubric Bentuk non-tes: Meringkas materi kuliah Non-test form: Summarize the lecture material	-	Discussion, case study Google Classroom (diskusi) (discussion) Google Meet (kuliah) (lecture) Tugas 1: Menyusun rantai pasok proses produksi. [PB: 1x(3x50")] [PT+KM: (1+1)x(3x60")] Google Classroom (discussion) (discussion) Google Meet (lecture) (lecture) Task 1: Arrange the supply chain for the production process. [PB: 1x (3x50 ")]	1,2	10

					[PT + KM: (1 + 1) x (3x60 ")]		
8	Evaluasi Tengah Semester / Ujian Tengah Semester Midterm Exam						
9-10	Mampu menganalisis tata letak fasilitas produksi Able to analyze the layout of production facilities	<p>9.1. Mampu menjelaskan konsep dasar dan peran strategis penentuan tata letak dalam proses produksi</p> <p>9.2. Mampu menjelaskan tipe tata letak: tata letak berdasarkan posisi tetap dan tata letak berorientasi proses</p> <p>10.1. Mampu menjelaskan tata letak berorientasi proses untuk sistem batch dan kontinyu</p> <p>10.2. Mampu menjelaskan Tata Letak Kantor, Retail, Dan Gudang/Tempat Penyimpanan Proses Produksi</p> <p>9.1. Able to explain basic concepts and strategic role in determining layout in the production process</p> <p>9.2. Able to explain layout type: fixed position based layout and process oriented layout</p> <p>10.1. Be able to explain process-oriented layout for batch and continuous systems</p> <p>10.2. Able to explain office layout, retail, and warehouse / storage production process</p>	<p>Kriteria: Rubrik Holistik</p> <p>Criteria: Holistic Rubric</p> <p>Bentuk non-tes: Meringkas materi kuliah</p> <p>Non-test form: Summarize the lecture material</p>	-	<p>Discussion, case study Google Classroom (diskusi) (discussion) Google Meet (kuliah) (lecture)</p> <p>Tugas 1: Menyusun tipe-tipe tata letak.</p> <p>[PB: 1x(3x50")] [PT+KM: (1+1)x(3x60")]</p> <p>Google Classroom (discussion) (discussion) Google Meet (lecture) (lecture)</p> <p>Task 1: Arranging layout types.</p> <p>[PB: 1x (3x50 ")] [PT + KM: (1 + 1) x (3x60 ")]</p>	3,4,5	10
11-12	Mampu menganalisis perancangan kerja	11.1. Mampu menjelaskan Elemen Desain Pekerjaan (Job Design): Analisis Pekerjaan	Kriteria: Rubrik Holistik	-	discussion, case study	3,4,5	10

	Able to analyze work design	<p>(Job Analysis), Kualifikasi Karyawan Yang Diperlukan, dan Lingkungan Kerja Yang Diperlukan</p> <p>11.2. Mampu menjelaskan tentang metode Analisis Pekerjaan: Process Flowchart</p> <p>11.1. Able to explain Job Design Elements: Job Analysis, Required Employee Qualifications, and Required Work Environment</p> <p>11.2. Able to explain Job Analysis method: Process Flowchart</p>	<p>Criteria: Holistic Rubric</p> <p>Bentuk non-tes: Meringkas materi kuliah</p> <p>Non-test form: Summarize the lecture material</p>		<p>Google Classroom (diskusi) (discussion) Google Meet (kuliah) (lecture)</p> <p>Tugas 1: Menyusun ringkasan dalam bentuk makalah tentang penentuan lokasi pabrik.</p> <p>[PB: 1x(3x50'')] [PT+KM: (1+1)x(3x60'')]</p> <p>Google Classroom (discussion) (discussion) Google Meet (lecture) (lecture)</p> <p>Task 1: Compile a summary in the form of a paper on the determination of the factory location.</p> <p>[PB: 1x (3x50 '')] [PT + KM: (1 + 1) x (3x60 '')]</p>		
13-14	Mampu menganalisis masalah secara bertanggung jawab, jujur, dan beretika dengan	13.1. Mampu menjelaskan mengenai jenis data dan diagram penyebab masalah dengan digram pareto, diagram sebab akibat, histogram	<p>Kriteria: Rubrik Holistik</p> <p>Criteria:</p>	-	<p>discussion, case study</p> <p>Google Classroom (diskusi) (discussion)</p>	3,4,5	20

	<p>menerapkan pengendalian mutu statistic</p> <p>Able to analyze problems responsibly, honestly and ethically by applying statistical quality control</p>	<p>14.1. Mampu melakukan analisis dalam pengendalian mutu dengan <i>control chart</i> (X-Bar, R, U, P Chart)</p> <p>13.1. Be able to explain jenis data and diagrams of causes of problems with Pareto digrams, causal diagrams, histograms</p> <p>14.1. Able to perform analysis in pcontrol quality with control chart (X-Bar, R, U, P Chart)</p>	<p>Holistic Rubric</p> <p>Bentuk non-tes: Meringkas materi kuliah</p> <p>Non-test form: Summarize the lecture material</p>		<p>Google Meet (kuliah) (lecture)</p> <p>Tugas 1: Menyusun diagram pengendalian mutu statistik.</p> <p>[PB: 1x(3x50'')] [PT+KM: (1+1)x(3x60'')]</p> <p>Google Classroom (discussion) (discussion) Google Meet (lecture) (lecture)</p> <p>Task 1: Compile statistical quality control diagrams.</p> <p>[PB: 1x (3x50 '')] [PT + KM: (1 + 1) x (3x60 '')]</p>		
15	<p>Mampu menjelaskan mengenai pemeliharaan dan reliabilitas peralatan</p> <p>Able to explain about equipment maintenance and reliability</p>	<p>15.1. Mampu menjelaskan pentingnya pemeliharaan dalam menunjang proses produksi</p> <p>15.2. Mampu menjelaskan pentingnya reliabilitas peralatan dalam menunjang proses produksi</p>	<p>Kriteria: Rubrik Holistik</p> <p>Criteria: Holistic Rubric</p> <p>Bentuk non-tes:</p>	-	<p>discussion, case study</p> <p>Google Classroom (diskusi) (discussion) Google Meet (kuliah) (lecture)</p> <p>Tugas 1:</p>	3,4,5	10

		<p>15.1. Able to explain the importance of maintenance in supporting the production process</p> <p>15.2. Able to explain the importance of equipment reliability in supporting the production process</p>	<p>Meringkas materi kuliah</p> <p>Non-test form: Summarize the lecture material</p>	<p>Menyusun ringkasan dalam bentuk makalah tentang penentuan lokasi pabrik.</p> <p>[PB: 1x(3x50")] [PT+KM: (1+1)x(3x60")]</p> <p>Google Classroom (discussion) (discussion) Google Meet (lecture) (lecture)</p> <p>Task 1: Compile a summary in the form of a paper on the determination of the factory location.</p> <p>[PB: 1x (3x50 ")] [PT + KM: (1 + 1) x (3x60 ")]</p>		
16	Evaluasi Akhir Semester / Ujian Akhir Semester					
	Final Semester Evaluation / Final Semester Examination					

Catatan:

1. Capaian Pembelajaran PRODI (CPL-PRODI) adalah kemampuan yang dimiliki oleh setiap lulusan PRODI yang merupakan internalisasi dari sikap, penguasaan pengetahuan, dan keterampilan sesuai dengan jenjang prodinya yang diperoleh melalui proses pembelajaran.
2. CPL yang dibebankan pada mata kuliah adalah beberapa capaian pembelajaran lulusan program studi (CPL-PRODI) yang digunakan untuk pembentukan/ pengembangan sebuah mata kuliah yang terdiri dari aspek sikap, keterampilan umum, keterampilan khusus, dan pengetahuan.

3. CP Mata Kuliah (CPMK) adalah kemampuan yang dijabarkan secara spesifik dari CPL yang dibebankan pada mata kuliah, dan bersifat spesifik terhadap bahan kajian atau materi pembelajaran mata kuliah tersebut.
4. Sub-CP Mata Kuliah (Sub-CPMK) adalah kemampuan yang dijabarkan secara spesifik terhadap materi pembelajaran mata kuliah tersebut.
5. Indikator penilaian kemampuan dalam proses maupun hasil belajar mahasiswa adalah pernyataan spesifik dan terukur yang mengidentifikasi kemampuan atau kinerja hasil belajar mahasiswa yang disertai bukti-bukti.
6. Kriteria Penilaian adalah patokan yang digunakan sebagai ukuran atau tolak ukur ketercapaian pembelajaran dalam penilaian berdasarkan indikator-indikator yang telah ditetapkan. Kriteria penilaian merupakan pedoman bagi penilai agar penilaian konsisten dan tidak bias. Kriteria dapat berupa kuantitatif dan kualitatif.
7. Teknik penilaian: tes dan non-tes.
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 yang setara.
10. Materi pembelajaran adalah rincian atau uraian dari bahan kajian yang dapat disajikan dalam bentuk beberapa pokok dan sub-pokok bahasan.
11. Bobot penilaian adalah prosentase penilaian terhadap setiap pencapaian sub-CPMK yang besarnya proposional dengan tingkat kesulitan pencapaian sub-CPMK tersebut dan totalnya 100%.
12. PB=Proses Belajar, PT=Penugasan Terstruktur, KM=Kegiatan Mandiri.

Notes :

1. Learning Outcomes of Study Programs (CPL-PRODI) are abilities possessed by each graduate of the Study Program which are the internalization of attitudes, assignment of knowledge, and skills according to the level of study programs obtained through the learning process.
2. The CPL that is charged to the course is a number of learning outcomes for graduates of the study program (CPL-PRODI) which are used for the formation/development of a course consisting of aspects of attitudes, general skills, special skills, and knowledge.
3. Course CP (CPMK) is the ability that is specifically described from the CPL that is charged to the course, and is specific to the study material or learning material for the course.
4. Subject Sub-CP (Sub-CPMK) is the ability that is described specifically for the learning material of the course.
5. Indicators of the assessment of ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence.
6. Assessment Criteria are benchmarks used as measures or benchmarks for learning achievement in assessment based on predetermined indicators. The assessment criteria are guidelines for assessors so that the assessment is consistent and unbiased. Criteria can be both quantitative and qualitative.
7. Assessment techniques: test and non-test.
8. Forms of learning: Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service, and/or other equivalent forms of learning.

9. Learning methods: Small Group Discussion, Role-play & simulation, discovery learning, self-directed learning, cooperative learning, collaborative learning, contextual learning, project-based learning, and other equivalent methods.
10. Learning materials are details or descriptions of study materials that can be presented in the form of several main points and sub-topics.
11. The weight of the assessment is the percentage of assessment of each achievement of the sub-CPMK which is proportional to the level of difficulty of achieving the sub-CPMK and the total is 100%.
12. PB=Learning Process, PT=Structured Assignments, KM=Independent Activities.