

Module Handbook

Project Design



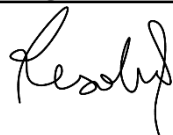
Bachelor Degree Program Department of Biomedical Engineering

Faculty of Intelligent Electrical Technology and Informatics
Institut Teknologi Sepuluh Nopember



MODULE HANDBOOK
Project Design
DEPARTMENT OF BIOMEDICAL ENGINEERING
 INSTITUT TEKNOLOGI SEPULUH NOPEMBER
 Number : 6885/IT2.IX.5.1.2/B/PP.03.00.00/2023

ENDORSEMENT PAGE

Proses Process	Penanggung Jawab Person in Charge			Tanggal Date
	Nama Name	Jabatan Position	Tandatangan Signature	
Perumus Preparation	Dr. Achmad Arifin, S.T., M.Eng.	Dosen Lecturer		November 18, 2022
Pemeriksa dan Pengendalian Review and Control	Dr. Norma Hermawan, S.T., M.Sc.	Tim kurikulum Curriculum team		November 20, 2022
Persetujuan Approval	Ir. Josaphat Pramudijanto, M.Eng.	Koordinator RMK Course Cluster Coordinator		April 13, 2023
Penetapan Determination	Dr. Achmad Arifin, S.T., M.Eng.	Kepala Departemen Head of Department		April 17, 2023

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MODULE HANDBOOK

PROJECT DESIGN

Module name	Project Design	
Module level	Undergraduate	
Code	EB234603	
Course (if applicable)	Project Design	
Semester	Sixth Semester	
Person responsible for the module	Dr. Achmad Arifin, S.T., M.Eng.	
Lecturer	Muhammad Hilman Fatoni, S.T., M.T. Dr. Achmad Arifin, S.T., M.Eng. Dr. Rachmad Setiawan, S.T. M.T. Dr. Norma Hermawan, S.T., M.T. Ellya Zulaikha, ST, M.Sn, Ph.D	
Language	Bahasa Indonesia and English	
Relation to curriculum	Undergraduate degree program, mandatory , 6 th semester.	
Type of teaching, contact hours	Lectures, <60 students	
Workload	1. Lectures : 4 x 50 = 200 minutes per week. 2. Exercises and Assignments : 4 x 50 = 200 minutes per week. 3. Private learning : 4 x 50 = 200 minutes per week.	
Credit points	4 credit points (sks)	
Requirements according to the examination regulations	A student must have attended at least 75% of the lectures to sit in the exams.	
Mandatory prerequisites	-	
Learning outcomes and their corresponding PLOs	Course Learning Outcome (CLO) after completing this module, CLO 1: Students are able to conduct an analysis of literature review relating to biomedical engineering discipline	PLO 03
	CLO 2: Students are able to conduct initial draft of the proposed project based on literature review	PLO 07

	CLO 3: Students are able to make improvements and correction from the draft project proposal that has been made CLO 4: Students are able to understand entrepreneurship principal in designing project proposals CLO 5: Students are able to explain the final results of the proposed project designed CLO 6: Students are able to explain the final results of the proposed project design	PLO 09 PLO 12 PLO 03 PLO 09 PLO 07 PLO 12
Content	This course studies about capstone design which are planned in form of forms completion in order to make student able to design project. The plans are started from literature review, proposal formulation, analyzing from business side, and listing the competents which are needed to complete the project.	
Study and examination requirements and forms of examination	• In-class exercises • Assignment 1, 2, 3,4	
Media employed	LCD, whiteboard, websites (myITS Classroom), Zoom.	
Reading list	Main : 1. IEEE Neurophysiology Journal 2. IEEE Biomechanics Journal	

I. Rencana Pembelajaran Semester / *Semester Learning Plan*

		INSTITUT TEKNOLOGI SEPULUH NOPEMBER (ITS) FACULTY OF INTELLIGENT ELECTRICAL AND INFORMATICS TECHNOLOGY DEPARTMENT OF BIOMEDICAL ENGINEERING				Document Code	
SEMESTER LEARNING PLAN							
MATA KULIAH (MK) COURSE		KODE CODE	Rumpun MK Course Cluster	BOBOT (sks) Credits		SEMESTER	Tgl Penyusunan Compilation Date
Project Design <i>Project Design</i>		EB234603	Biocybernetics	T=4 P=0		VI	Nov 9, 2022
OTORISASI / PENGESAHAN AUTHORIZATION / ENDORSEMENT		Dosen Pengembang RPS Developer Lecturer of Semester Learning Plan		Koordinator RMK Course Cluster Coordinator		Ka DEPARTEMEN Head of Department	
		Dr. Achmad Arifin, S.T., M.Eng.		(Ir. Josaphat Pramudijanto, M.Eng.)		Dr. Achmad Arifin, S.T., M.Eng.	
Capaian Pembelajaran		CPL-PRODI yang dibebankan pada MK PLO Program Charged to The Course					
Learning Outcomes		CPL-03 PLO-03		Mampu mengelola pembelajaran diri sendiri, dan mengembangkan diri sebagai pribadi pembelajar sepanjang hayat untuk bersaing di tingkat nasional, maupun internasional, dalam rangka berkontribusi nyata untuk menyelesaikan masalah dengan mengimplementasikan teknologi informasi dan memperhatikan prinsip keberlanjutan serta memahami kewirausahaan berbasis teknologi Able to manage one's own learning, and develop oneself as a lifelong learner to compete at national and international levels, in order to make a real contribution to solving problems by paying attention to the principles of sustainability.			
		CPL-07 PLO-07		Mampu berkomunikasi secara efektif baik lisan maupun tulisan <i>Have good skills in oral and writing communications</i>			
		CPL-09		Mampu merencanakan, menyelesaikan, dan mengevaluasi tugas di dalam batasan-batasan yang ada			

	PLO-09	Able to plan, complete, and evaluate tasks within existing boundaries
	Capaian Pembelajaran Mata Kuliah (CPMK) Course Learning Outcome (CLO) - If CLO as description capability of each Learning Stage in the course, then CLO = LLO	
	CP MK 1 CLO 1	Mahasiswa mampu melakukan analisa dari review literatur yang berkaitan dengan disiplin ilmu Teknik Biomedik <i>Students are able to conduct an analysis of literature-review relating to biomedical engineering discipline</i>
	CP MK 2 CLO 2	Mahasiswa mampu menuliskan daftar awal terkait kompetensi yang dibutuhkan pada proyek yang akan di usulkan <i>Students are able to write initial list of competences which are needed in proposed project</i>
	CP MK 3 CLO 3	Mahasiswa mampu melakukan rancangan awal usulan proyek berdasarkan review literatur <i>Students are able to conduct initial draft of the proposed project based on literature review</i>
	CP MK 4 CLO 4	Mahasiswa memahami prinsip entrepreneurship dalam melakukan perancangan dan pemaparan usulan proyek dengan tujuan menawarkan proyek yang diusulkan <i>Students are able to understand entrepreneurship principal in designing and presentating the proposed project with the aim to offer the proposed project</i>
	CP MK 5 CLO 5	Mahasiswa mampu melakukan perbaikan dan koreksi dari rancangan usulan proyek yang sudah dibuat (pembahasan rancangan usulan proyek dari Form A-D) <i>Students are able to make improvements and correction from the draft project proposal that has been made (discussion of the proposed project design from Form A-D)</i>
	CP MK 6 CLO 6	Mahasiswa mampu memaparkan hasil akhir dari usulan proyek yang dirancang <i>Students are able to explain the final results of the proposed project design.</i>

Peta CPL – CP MK Map of PLO - CLO	<table><tr><td></td><td>CPL-01</td><td>CPL-02</td><td>CPL-03</td><td>CPL-04</td><td>CPL-05</td><td>CPL-06</td><td>CPL-07</td><td>CPL-08</td><td>CPL-09</td><td>CPL-10</td><td>CPL-11</td><td>CPL-12</td></tr><tr><td>CPMK 1 / SUB CPMK 1 <i>CLO 1 / LLO 1</i></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>√</td><td></td><td></td><td></td></tr><tr><td>CPMK 2 / SUB CPMK 2 <i>CLO 2 / LLO 2</i></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>√</td><td></td><td></td><td></td></tr><tr><td>CPMK 3 / SUB CPMK 3 <i>CLO 3 / LLO 3</i></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>√</td><td></td><td></td><td></td></tr><tr><td>CPMK 4 / SUB CPMK 4 <i>CLO 4 / LLO 4</i></td><td></td><td></td><td>√</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CPMK 5 / SUB CPMK 5 <i>CLO 5 / LLO 5</i></td><td></td><td></td><td></td><td></td><td></td><td></td><td>√</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CPMK 6 / SUB CPMK 6 <i>CLO 6 / LLO 6</i></td><td></td><td></td><td></td><td></td><td></td><td></td><td>√</td><td></td><td></td><td></td><td></td><td></td></tr></table>		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 / SUB CPMK 1 <i>CLO 1 / LLO 1</i>									√				CPMK 2 / SUB CPMK 2 <i>CLO 2 / LLO 2</i>									√				CPMK 3 / SUB CPMK 3 <i>CLO 3 / LLO 3</i>									√				CPMK 4 / SUB CPMK 4 <i>CLO 4 / LLO 4</i>			√										CPMK 5 / SUB CPMK 5 <i>CLO 5 / LLO 5</i>							√						CPMK 6 / SUB CPMK 6 <i>CLO 6 / LLO 6</i>							√					
	CPL-01	CPL-02	CPL-03	CPL-04	CPL-05	CPL-06	CPL-07	CPL-08	CPL-09	CPL-10	CPL-11	CPL-12																																																																																
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Diskripsi Singkat MK Short Description of Course	Mata kuliah ini mempelajari tentang <i>capstone design</i> yang dirancang dalam bentuk penyelesaian form-form yang bertujuan agar mahasiswa mampu merancang suatu project dimulai dari literature review, membuat proposal, menganalisa dari segi bisnis, dan mendaftar kompetensi apa saja yang dibutuhkan untuk menyelesaikan project tersebut. <i>This course studies about capstone design which are planned in form of forms completion in order to make student able to design project. The plans are started from literature review, proposal formulation, analyzing from bussiness side, and listing the competents which are needed to complete the project.</i>																																																																																											
Bahan Kajian: Materi pembelajaran Course Materials:	1. Literatur review (sesuai dengan spesialisasi setiap mahasiswa) dalam bentuk jurnal, book chapter /<i>Literature review (in accordance with the specialization of each student) in the form of journal, book chapter</i> 2. Rancangan usulan proyek/<i>Proposed project design</i> 3. Pembahasan rancangan usulan proyek/<i>Discussion of the proposed project design</i> 4. Entrepreneurship/<i>Entrepreneurship</i> 5. Paparan final proyek design /<i>Presentation of the final project design</i>																																																																																											
Pustaka	Utama / Main:																																																																																											

References		1. <i>IEEE Neourophysiology Journal</i> 2. <i>IEEE Biomechanics Journal</i>					
		Pendukung / Supporting:					
Dosen Pengampu Lecturers		Prof. Dr. Ir. Mohammad Nuh, DEA Dr. Achmad Arifin, S.T., M.Eng. Dr. Norma Hermawan, S.T., M.T., M.Sc. Ir. Josaphat Pramudijanto, M.Eng. Eko Agus Suprayitno, S.Si., M.T. Nada Fitriyatul Hikmah, S.T., M.T. Rezki El Arif, S.T., M.T., Ph.D. Ellya Zulaikha, S.T., M.Sn, Ph.D.					
Matakuliah syarat Prerequisite		-					
Mg ke/ Week	Kemampuan akhir tiap tahapan belajar (Sub-CPMK) / Final ability of each learning stage (LLO)	Penilaian / Assessment		Bantuk Pembelajaran; Metode Pembelajaran; Penugasan Mahasiswa; [Estimasi Waktu] / Form of Learning; Learning Method; Student Assignment; [Estimated Time]		Materi Pembelajaran [Pustaka] / Learning Material [Reference]	Bobot Penilaian /Assess- ment Load (%)
		Indikator / Indicator	Kriteria & Teknik / Criteria & Techniques				
(1)	(2)	(3)	(4)	Tatap Muka / In-class (5)	Daring / Online (6)	(7)	(8)

1-3	Mahasiswa mampu melakukan analisa dari review literatur yang berkaitan dengan disiplin ilmu Teknik Biomedik. (literatur review (sesuai dengan spesialisasi setiap mahasiswa) dalam bentuk jurnal, book chapter) <i>Students are able to conduct an analysis of literature-review relating to biomedical engineering discipline (in accordance with the specialization of each students) in form of journal, book chapter</i>	• Mampu melakukan analisa dari review literatur yang berkaitan dengan disiplin ilmu Teknik Biomedik (Literatur review (sesuai dengan spesialisasi setiap mahasiswa) dalam bentuk jurnal, book chapter) • <i>Able to conduct an analysis of literature-review relating to biomedical engineering discipline (in accordance with the specialization of each students) in form of journal, book chapter</i>	Non-tes : Tugas 1: Melakukan resume dan analisa dari literatur yang dipilih sebagai dasar usulan proyek disain (Form A) Non-test : Assignment 1: <i>Make a resume and analysis of the selected literature as the basis for the proposed project design (Form A)</i>	• Kuliah dan brainstorming, tanya jawab. [TM : 3 x 50"] [BM : 3 x 50"] [PT : 3 x 50"] • <i>Presentation and brainstorming, ask and answer.</i> [FF : 3 x 50"] [SA : 3 x 50"] [SS : 3 x 50"]	• Chatting dan diskusi dalam forum platform ITS. • <i>Chat and discussion in ITS platform forum.</i>	• Pemilihan dan analisis jurnal maupun book chapter sesuai dengan spesialisasi mahasiswa yang menjadi dasar usulan proyek. • <i>Choosing and analyzing journal or book chapter in accordance with the specialization of each students on which the project proposal is based</i>	25
4	Mahasiswa mampu menuliskan daftar awal terkait kompetensi yang dibutuhkan pada proyek yang akan di usulkan	• Mampu menuliskan daftar awal terkait kompetensi yang dibutuhkan pada proyek yang akan di usulkan	Non-tes : Menuliskan daftar awal terkait kompetensi yang dibutuhkan dari proyek yang akan diusulkan (Form D)	• Kuliah, diskusi, tanya jawab, latihan soal, tugas. [TM : 1 x 50"] [BM : 1 x 50"] [PT : 1 x 50"]		• Penulisan daftar awal terkait kompetensi yang dibutuhkan pada proyek yang akan di usulkan.	

	<i>Students are able to write initial list of competences which are needed in proposed project</i>	• <i>Able to write initial list of competences which are needed in proposed project</i>	Tugas : Non-test : Write initial list of competences which are needed in proposed project (Form D) Assignment :	• <i>Presentation, discussion, ask and answer, exercise, assignment</i> [FF : 1 x 50"] [SA : 1 x 50"] [SS : 1 x 50"]		• <i>Writing the initial list of competences which are needed in proposed project</i>	
5-6	Mahasiswa mampu melakukan rancangan awal usulan proyek berdasarkan review literatur (rancangan usulan proyek) <i>Students are able to conduct initial draft of the proposed project based on literature review (the proposed project design)</i>	• Mampu melakukan rancangan awal usulan proyek berdasarkan review literatur (rancangan usulan proyek) • <i>Able to conduct initial draft of the proposed project based on literature review (the proposed project design)</i>	Non-test : Tugas 2: Melakukan perancangan awal usulan proyek (Form B) berdasarkan review literatur. Non-test : Assignment 2: Conduct initial draft of proposed project	• Kuliah, diskusi, tanya jawab, latihan soal, tugas. [TM : 2 x 50"] [BM : 2 x 50"] [PT : 2 x 50"] • <i>Presentation, discussion, ask and answer, exercise, assignment</i> [FF : 2 x 50"] [SA : 2 x 50"] [SS : 2 x 50"]		• Penulisan rancangan usulan proyek oleh mahasiswa dengan dasar dari literatur review. • <i>Writing the proposed project design by students based on review literature</i>	25

			(Form B) based on literature review				
7-9	Mahasiswa memahami prinsip entrepreneurship dalam melakukan perancangan dan pemaparan usulan proyek dengan tujuan menawarkan proyek yang diusulkan <i>Students are able to understand entrepreneurship principal in designing and presentating the proposed project with the aim to offer the proposed project</i>	- Memahami prinsip entrepreneurship dalam melakukan perancangan dan pemaparan usulan proyek dengan tujuan menawarkan proyek yang diusulkan <i>Able to understand entrepreneurship principal in designing and presentating the proposed project with the aim to offer the proposed project.</i>	Non-tes : Tugas 3: Membuat usulan project design dengan konsep bisnis (Form C) dengan menggunakan Business Model Canvas Non-test : Assignment 4: <i>Make a proposed project design with bussiness concept (Form C) in mind using Bussiness Model Canvas</i>	- Kuliah, Diskusi, tanya jawab, latihan soal, tugas. [TM : 3 x 50"] [BM : 3 x 50"] [PT : 3 x 50"] <i>Presentation, discussion, ask and answer, exercise, assignment.</i> [FF : 3 x 50"] [SA : 3 x 50"] [SS : 3 x 50"]		- Panelis dosen, mahasiswa, dan dosen tamu dengan pembahasan rancangan usulan proyek dan pemberian masukan oleh dosen. - Panelists between lecturers, students, and guest lecturers to discuss the proposed project design and lecturer will providing input to proposed project.	25
10-12	Mahasiswa mampu melakukan perbaikan dan koreksi dari rancangan usulan	Mampu melakukan perbaikan dan koreksi dari rancangan usulan	Non-tes : Melakukan diskusi panelis dan	Kuliah, diskusi, tanya jawab,		Panelis dosen dan mahasiswa dengan pembahasan	

	proyek yang sudah dibuat (pembahasan rancangan usulan proyek dari Form A-D) <i>Students are able to make improvements and correction from the draft project proposal that has been made (discussion of the proposed project design from Form A-D)</i>	proyek yang sudah dibuat (pembahasan rancangan usulan proyek dari Form A-D) • <i>Able to make improvements and correction from the draft project proposal that has been made (discussion of the proposed project design from Form A-D)</i>	pemaparan progress dengan dosen Tugas : Non-test : Conduct panelist discussion and progress presentation with lecturer Assignment :	latihan soal, tugas [TM : 3 x 50"] [BM : 3 x 50"] [PT : 3 x 50"] • <i>Presentation, discussion, ask and answer, exercise, assignment [FF : 3 x 50"] [SA : 3 x 50"] [SS : 3 x 50"]</i>		rancangan usulan proyek dan pemberian masukan oleh dosen. • <i>A lecturer and student panel that discusses the project proposal draft that includes a feedback session from lecturers.</i>	
13-16	Mahasiswa mampu memaparkan hasil akhir dari usulan proyek yang dirancang <i>Students are able to explain the final results of the proposed project design.</i>	• Mampu memaparkan hasil akhir dari usulan proyek yang dirancang • <i>Able to explain the final results of the proposed project design</i>	Non tes: Tugas 4: Melakukan pemaparan tentang hasil akhir dari <i>project design</i> yang dirancang (Form A – D) Non-test: Assignment 4:	• Kuliah, Diskusi, tanya jawab, latihan soal, tugas. [TM : 4 x 50"] [BM : 4 x 50"] [PT : 4 x 50"] • <i>Presentation, discussion, ask and answer, exercise, assignment.</i> <i>[FF : 4 x 50"]</i>		• Mahasiswa melakukan paparan terhadap dosen terkait usulan final dari proyek yang dirancang. • <i>Students are able to explain to lecturers regarding final draft of project design</i>	25

			<i>Conduct a presentation regarding the final results of the project design (Form A – D)</i>	<i>[SA : 4 x 50"]</i> <i>[SS : 4 x 50"]</i>			
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TM=Tatap Muka, **PT**=Penugasan Terstruktur, **BM**=Belajar Mandiri.

FF = Face to Face, **SA** = Structured Assignment, **SS** = Self Study.

II. Rencana Asesmen & Evaluasi (RAE) / *Assessment & Evaluation Plan*

	ASSESSMENT & EVALUATION PLAN BACHELOR DEGREE PROGRAM OF BIOMEDICAL ENGINEERING - FTEIC ITS Course : Project Design			RA&E
				Write Doc Code
Kode/code: EB234603	Bobot sks/credits (T/P): 4/0	Rumpun MK: Biocybernetics Course Cluster: Biocybernetics	Smt: VI	
OTORISASI AUTHORIZATION	Penyusun RA & E Compiler A&EP Dr. Achmad Arifin, S.T., M.Eng.	Koordinator RMK Course Cluster Coordinator Ir. Josaphat Pramudijanto, M.Eng.	Ka DEP Head of DEP Dr. Achmad Arifin, S.T., M.Eng.	

Mg ke/ Week (1)	Sub CP-MK / Lesson Learning Outcomes (LLO) (2)	Bentuk Asesmen (Penilaian) Form of Assessment (3)	Bobot / Load (%) (4)
1 -3	Sub CP-MK 1: Mahasiswa mampu melakukan analisa dari review literatur yang berkaitan dengan disiplin ilmu Teknik Biomedik. (literatur review (sesuai dengan spesialisasi setiap mahasiswa) dalam bentuk jurnal, book chapter) LLO 1: <i>Students are able to conduct an analysis of literature-review relating to biomedical engineering discipline (in accordance with the specialization of each students) in form of journal, book chapter</i>	Non-tes : Tugas 1: Melakukan resume dan analisa dari literatur yang dipilih sebagai dasar usulan proyek disain (Form A) Non-test : Assignment 1: <i>Make a resume and analysis of the selected literature as the basis for the proposed project design (Form A)</i>	25
4	Sub CP-MK 2:	Non-tes :	

Mg ke/ Week (1)	Sub CP-MK / Lesson Learning Outcomes (LLO) (2)	Bentuk Asesmen (Penilaian) Form of Assessment (3)	Bobot / Load (%) (4)
	Mahasiswa mampu menuliskan daftar awal terkait kompetensi yang dibutuhkan pada proyek yang akan di usulkan LLO 2: <i>Students are able to write initial list of competences which are needed in proposed project</i>	Menuliskan daftar awal terkait kompetensi yang dibutuhkan dari proyek yang akan diusulkan (Form D) Tugas : Non-test : <i>Write initial list of competences which are needed in proposed project (Form D)</i> Assignment :	
5-6	Sub CP-MK 3: Mahasiswa mampu melakukan rancangan awal usulan proyek berdasarkan review literatur (rancangan usulan proyek) LLO 3: <i>Students are able to conduct initial draft of the proposed project based on literature review (the proposed project design)</i>	Non-tes : Tugas 2: Melakukan perancangan awal usulan proyek (Form B) berdasarkan review literatur. Non-test : Assignment 2: - <i>Conduct initial draft of proposed project (Form B) based on literature review</i>	25
7-9	Sub CP-MK 4: Mahasiswa memahami prinsip entrepreneurship dalam melakukan perancangan dan pemaparan usulan proyek dengan tujuan menawarkan	Non-tes : Tugas 3: Membuat usulan project design dengan konsep bisnis (Form C) dengan menggunakan Bussiness Model Canvars Non-test : Assignment 4:	25

Mg ke/ Week (1)	Sub CP-MK / <i>Lesson Learning Outcomes (LLO)</i> (2)	Bentuk Asesmen (Penilaian) <i>Form of Assessment</i> (3)	Bobot / Load (%) (4)
	proyek yang diusulkan LLO 4: <i>Students are able to understand entrepreneurship principal in designing and presentating the proposed project with the aim to offer the proposed project</i>	- <i>Make a proposed project design with bussiness concept (Form C) in mind using Bussiness Model Canvas</i>	
10-12	Sub CP-MK 5: Mahasiswa mampu melakukan perbaikan dan koreksi dari rancangan usulan proyek yang sudah dibuat (pembahasan rancangan usulan proyek dari Form A-D) LLO 5: <i>Students are able to make improvements and correction from the draft project proposal that has been made (discussion of the proposed project design from Form A-D)</i>	Non-tes : Melakukan diskusi panelis dan pemaparan progress dengan dosen Tugas : Non-test : Conduct panelist discussion and progress presentation with lecturer Assignment :	
13-16	Sub CP-MK 6: Mahasiswa mampu memaparkan hasil akhir dari usulan proyek yang dirancang LLO 5:	Non tes: Tugas 4: Melakukan pemaparan tentang hasil akhir dari <i>project design</i> yang dirancang (Form A – D) Non-test:	25

Mg ke/ Week (1)	Sub CP-MK / Lesson Learning Outcomes (LLO) (2)	Bentuk Asesmen (Penilaian) Form of Assessment (3)	Bobot / Load (%) (4)
	<i>Students are able to explain the final results of the proposed project design.</i>	Assignment 4: <i>Conduct a presentation regarding the final results of the project design (Form A – D)</i>	
Total bobot penilaian Total assessment load			100%

Indikator Pencapaian CPL Pada MK / *Indicator of PLO achievement charged to the course*

CPL yang dibebankan pada MK / <i>PLO charged to the course</i>	CPMK / <i>Course Learning Outcome (CLO)</i>	Minggu ke / <i>Week</i>	Bentuk Asesmen / <i>Form of Assessment</i>	Bobot / <i>Load (%)</i>
CPL-04 / PLO-04	CPMK 5 / CLO 5	Week- 10-12	Non-test	
CPL -12/PLO-12	CPMK 6 / CLO 6	Week- 13-16	Assignment 4	25
CPL-07 / PLO-07	CPMK 1 / CLO 1	Week- 1-3	Assignment 1	25
	CPMK 2 / CLO 2	Week- 4	Non-test	
CPL-12/PLO-12	CPMK 3 / CLO 3	Week- 5-6	Assignment 2	25
CPL-11 / PLO-11	CPMK 4 / CLO 4	Week- 7-9	Assignment 3	25
				$\Sigma = 100\%$

No	Form of Assessment	PLO-01	PLO-02	PLO-03	PLO-04	PLO-05	PLO-06	PLO-07	PLO-08	PLO-09	PLO-10	PLO-11	PLO-12	Total
1	Tugas 1 dan 2 Assignment 1 and 2			0.05				0.05		0.05			0.01	0.15
2	Tugas 3 dan 4 Assignment 3 and 4			0.08				0.08		0.08			0.01	0.25
3	Presentasi Business Model Canvas			0.1				0.10		0.1			0.04	0.35

No	Form of Assessment	PLO-01	PLO-02	PLO-03	PLO-04	PLO-05	PLO-06	PLO-07	PLO-08	PLO-09	PLO-10	PLO-11	PLO-12	Total
	(Evaluasi Tengah Semester) Bussiness Model Canvas Presentation (Mid term Exam)													
4	Seminar Akhir Project Design (Evaluasi Akhir Semester) Project Design Final Seminar (Final Exam)			0.07				0.07		0.07			0.04	0.25
	Total			0.3				0.3		0.3			0.1	1

