



TEACHING PLAN

BACHELOR OF EDUCATION IN BUILDING ENGINEERING (BE-BE) STUDY PROGRAM

DEPARTMENT OF CIVIL ENGINEERING, FACULTY OF ENGINEERING, UNIVERSITAS NEGERI PADANG

COURSE	CODE	COURSE CLUSTER	CREDITS		SEM	VERSION
			Theory	Practice		
Media Pembelajaran	SIP1.61.3102	Compulsory Courses Study Program	1	2	3	1
Lecturer in Charge	Dr. Indrati Kusumaningrum, M.Pd.			Lecturer in Charge		
Remarks	Dean of Faculty of Engineering	Head of Civil Engineering Department	Coordinator of BEVE			
	Dr. Fahmi Rizal, M.Pd., M.T NIP. 195912041985031004	Faisal Ashar, Ph.D. NIP. 19750103 200312 1001	Drs. Revian Body, MSA. NIP. 19600103 198503 1003			
Program Learning Outcomes	<p>Program Learning Outcomes (PLO) Study Program</p> <p>By considering input from all stake holders and the minimum requirements set by ASIIN, the PLO's that must be possessed by graduates from the Bachelor of Education in Building Engineering Study Program are determined as follows:</p> <ol style="list-style-type: none"> 1. Master <i>basic knowledge of science</i> (mathematics, natural sciences) and other scientific disciplines that form the basis of building engineering vocational education field for carrying out professional work (<i>Knowledge and Understanding</i>). <ol style="list-style-type: none"> 1.1. Able to implement basic concepts of mathematics and physics to master subjects matter in the field of building engineering vocational education. 					

- 1.2. Mastering Statics, Mechanics, Statistics, Technology Materials, and Engineering Drawings as the basic knowledge in the field of building engineering vocational education.
2. Able to identify, formulate, solve, and evaluate various technical problems of buildings as the basic ability for teaching in the field of building engineering vocational education (*Engineering analysis, investigation and assessment*).
 - 2.1. Able to identify, formulate, solve, and evaluate technical problems in the field of geotechnical and transportation as the basic ability for teaching in the field of building engineering vocational education.
 - 2.2. Able to identify, formulate, solve, and evaluate technical problems in the field of structure and construction management as the basic ability for teaching in the field of building engineering vocational education.
 - 2.3. Able to identify, formulate, solve, and evaluate technical problems in the field of hydrology as the basic ability for teaching in the field of building engineering vocational education.
3. Possess the ability to design building by taking into account environmental, social, health and work safety issues as the basis for teaching in the field of building engineering vocational education (*Engineering design*).
 - 3.1. Able to make design programming by taking into account environmental, social, health and work safety issues, in cooperation with various party related.
 - 3.2. Able to analyze the design by taking into account environmental, social, health and work safety aspects.
 - 3.3. Able to produce design by taking into account environmental, social, health and work safety aspects.
4. Possess social, managerial, team work, and effective communication competencies, entrepreneurial character, environmental insight and life-long learning habits. (*Transferable and soft skills*).
 - 4.1. Possess religious character implemented in personal and professional activities.
 - 4.2. Possess the spirit of nationalism, social sensitivity and environmental insight
 - 4.3. Able to communicate effectively and work in a team.
 - 4.4. Able to transfer science and technology to the community to improve the quality of life
 - 4.5. Possess entrepreneurial character
5. Possess the ability to innovate and adapt to the development of science and technology, and implement it into the learning process of building engineering vocational education field by taking into account non-technical risks that may occur (ethical, ecological, commercial, and industrial impact) (*Engineering practice*).
 - 5.1. Able to innovate and use information technology (software) in the field of building engineering

- vocational education by taking into account the ethical, ecological, commercial and industrial impact.
- 5.2. Able to use information technology-based equipment (hardware) in field of building engineering vocational education.
 6. Possess a good ability to design, implement and evaluate the learning process in the field of building engineering vocational education (*Educational design*).
 - 6.1. Able to design curriculum and learning process of building engineering vocational education.
 - 6.2. Able to implement, control, evaluate and improve the quality of learning process through research in the field of building engineering vocational education.
 - 6.3. Able to develop an effective, efficient, and attractive learning media in the field of building engineering vocational education.

Course Learning Achievements

Course Learning Outcomes (CLO)

CPMK	Cpl
1. Explaining definitions, concepts, principles of use of learning media	4.1, 4.2, 4.3
2. Explaining Communication through the medium of learning, the demands of learning in the 21st century	5.1, 5.2, 5.3
3. Analyzing Media Learning Plans	4.1, 4.2, 4.3
4. Understanding the Integration of Technology and Media in Learning with the ASSURE Model	4.1, 4.2, 4.3, 5.1, 5.2, 5.3
5. Understand and analyze the steps of Selection and creation of animated media	4.1, 4.2, 4.3
6. Analyzing Photography Asa learning medium	4.1, 4.2, 4.3
7. Analyzing and designing The Creation of Model Media in The Structure Of Buildings	4.1, 4.2, 4.3, 5.1, 5.2
8. Analyzing Preparation for future challenges	4.1, 4.2, 4.3, 5.3, 6.2
9. Understanding and explaining the habituation of learners with computers, (Engaging Learners with Computers)	4.1, 4.2, 4.3, 5.1, 5.2, 5.3
10. Understand and explain how to connect students with web 2.0 tools.	4.1, 4.2, 4.3, 5.1, 5.2,

		5.3
	11. Understand how to connect students remotely	4.3, 5.3, 6.1, 6.2, 6.3
	12. Analyzing Learning Improvements with Audio Visuals	4.3, 5.3, 6.1, 6.2, 6.3
	13. Multimedia Usage Analysis and Design for students	5.1, 5.2, 5.3
	14. Analyzing and Designing Learning Video Creation	4.3, 5.3, 6.1, 6.2, 6.3
Short description of Courses	Learning Media courses include understanding the concepts and principles of using learning media, selecting and using media and designing media learning in accordance with the materials and learning methods for the materials presented. Students understand the concept of development, design and utilization of learning media and evaluate their effectiveness	
Literature	<p>Main:</p> <ol style="list-style-type: none"> 1. Kemp, Jerrold & Dayton D,K .(2010). Planning , Producing and Using Instructional Media, 8th edition. New York : Harper & Row Publishers. 2. Smaldino,Lowther, Russel .(2014). Instructional Technology and Media For Learning, (10th edition), New York : Pearson Education Limited, Macmillan Publishing Company. 3. Steven Hackbarth (1996) The Educational Technology Handbook : A Comprehensive Guide Process and Products for Learning, Englewood Cliffs, New Jersey : Educational Technology Publications.. <p>Supporting:</p> <ol style="list-style-type: none"> 1. Anderson, Renald (1994) Pemilihan dan Pengembangan Media untuk Pengajaran, Jakarta : CV. Rajawali 2. Arief S. Sadiman, dkk. (2001). Media Pendidikan, Jakarta : C.V Rajawali 3. Cepi Riyana,(2004), Strategi implementasi Teknologi Informasi dan Komunikasi dengan menerapkan Konsep Instructional Technology, Jurnal Edutech, Jurusan Kurtek Bandung 4. Sungkono dkk.(2003). Pengembangan Bahan Ajar. Yogyakarta: Universitas Negeri Yogyakarta 5. 	
Teaching Media	Software:	Hardware:
		Computer, LCD Projector and White Board
Team Teaching	Dr. Indrati Kususmaningrum, M.Pd.	
Assessment	UTS, UAS, Tugas mandiri & kelompok	
Prerequisite	-	

TEACHING MATERIAL

Week	Competencies to be achieved	Study Materials	Learning Methods and Strategies	Tasks / assignments	Assessment Criteria / Indicators	Reference
(1)	CPM , - [C PL- 4.1 , 4.2 4 .3) Students understand the Definition, Concept, Principles of utilization and use of learning media	Definition, Concept, Principle of utilization and use of Media Pembelajaran	Material explanation [1x50'] FAQ [1x20'] Review of related course materials [1x120'] Discussions [1x60']	Create summaries and descriptions of the materials delivered in the resume book	Able to understand definitions, concepts, principles of utilization and use of learning media	RU-1, RU-2, RU-3, RP-2, RP-3, RP-4
(2)	CPMK- 2: [CPL-5.1, 5.2, 5.3] Students have the ability to understand and master Communication through the medium of learning, as well as the demands of learning in the 21st century	Communication and the demands of the learning environment in the 21st century	Material explanation [1x50'] FAQ [1x20'] Working on a task [1x180']	<ul style="list-style-type: none"> • Create summaries and descriptions of the materials delivered in the resume book 	Able to understand and master Communication through media in learning, as well as the demands of learning in the 21st century	RU-1, RU-2, RU-3
(3)	CPMK- 3: [CPL-4.1, 4.2, 4.3] Students are able to analyze the MediaLearning Plan	Median Learning Design Analysis	Material explanation [1x50'] FAQ [1x20'] Working on a task [1x180']	<ul style="list-style-type: none"> • Create summaries and descriptions of the materials delivered in the resume book 	Able to understand and analyze the design of media learning	RU-1, RU-2, RU-3, RP-1, RP-3, RP-4
(4)	CPMK- 4: [CPL-4.1, 4.2, 4.3, 5.1, 5.2, 5.3] Students are able to understand the Integration of	Analysis of Technology Integration and Learning Media with ASSURE Model	Material explanation [1x50'] FAQ [1x20'] Working on a task [1x180']	<ul style="list-style-type: none"> • Create summaries and descriptions of the materials delivered in the resume book 	Able to understand and integrate Technology and Media in Learning	RU-1, RU-2, RU-3, RP-1, RP-3, RP-4

Week	Competencies to be achieved	Study Materials	Learning Methods and Strategies	Tasks / assignments	Assessment Criteria / Indicators	Reference
	Technology and Media in Learning with assure model				using ASSURE Model	
(5)	CPMK- 5: [CPL-4.1, 4.2, 4.3] Students are able to understand and analyze the steps of selection and creation of animated media	Steps to Select and Create Animated Media	Material explanation [1x50'] FAQ [1x20'] Working on a task [1x180']	<ul style="list-style-type: none"> • Create summaries and descriptions of the materials delivered in the resume book • • Task mengerjakan creation of animated media 	Able to understand and analyze the steps of selection and creation of animated media	RU-1, RU-2, RU-3, RP-1, RU-2, RP-3, RP-4
(6)	CPMK- 6: [CPL-4.1, 4.2, 4.3] Students are able to understand and analyze the Selection of Photography as a learning medium	Selection of Photography as a learning medium	Material explanation [1x50'] FAQ [1x20'] Working on a task [1x180']	<ul style="list-style-type: none"> • Create summaries and descriptions of the materials delivered in the resume book • • The task of taking photos that correspond to the learning materials 	Able to understand and analyze photo objects as a medium in learning materials	RU-1, RU-2, RU-3, RP-1, RU-2, RP-3, RP-4
(7)	CPMK- 7: [CPL-4.1, 4.2, 4.3, 5.1, 5.2] Students are able to understand, analyze and design the Making of Media Models in the Structure Section of the Building	Analysis of models on the structure of buildings	Material explanation [1x50'] FAQ [1x20'] Working on a task [1x180']	<ul style="list-style-type: none"> • Create summaries and descriptions of the materials delivered in the resume book • • The task of making model media from the structure of the building 	Able to understand,, analyze and design media models on the structure of your building.	RU-1, RU-2, RU-3, RP-1, RU-2, RP-3, RP-4
(8)	Midterm Evaluation through Midterm Exams					
(9)	CPMK- 8: [CPL-4.1, 4.2,	Preparing for future	Material explanation	• Create summaries	Able to	RU-2, RU-3,

Week	Competencies to be achieved	Study Materials	Learning Methods and Strategies	Tasks / assignments	Assessment Criteria / Indicators	Reference
	4.3, 5.3, 6.2] Students understand and are able to explain preparation for future challenges	challenges	[1x100'] FAQ [1x20'] Working on a task [1x130']	and descriptions of the materials delivered in the resume book <ul style="list-style-type: none"> • The task ofm engerjakan problem 	understand and explain the preparatory steps for future challenges	RP-1, RP-3
(10)	CPMK- 9: [CPL-2.1, 2.2] Students are able to understand and explain the habituation of learners with computers	Habituation of learners with computers.	Material explanation [1x100'] FAQ [1x20'] Working on a task [1x130']	<ul style="list-style-type: none"> • Create summaries and descriptions of the materials delivered in the resume book • The task ofm engerjakan problem 	Able to understand and explain the habituation of learners with computers	RU-1, RU-2, RU-3, RP-3
(11)	CPMK -10: [CPL-4.1, 4.2, 4.3, 5.1, 5.2, 5.3] Students understand how to connect learners with web 2.0 tools	how to connect learners with web 2.0 tools	Material explanation [1x100'] FAQ [1x20'] Working on a task [1x130']	<ul style="list-style-type: none"> • Create summaries and descriptions of the materials delivered in the resume book • The task ofm engerjakan problem 	Able to understand how to connect learners with web 2.0 tools	RU-1, RU-2, RU-3, RP-3
(12)	CPMK-11 : [CPL-4.3, 5.3, 6.1, 6.2, 6.3] Students are able to understand and explain how to connect students remotely	how to connect students remotely	Material explanation [1x50'] FAQ [1x20'] Working on a task [1x180']	<ul style="list-style-type: none"> • Create summaries and descriptions of the materials delivered in the resume book • The task ofm engerjakan problem 	Able to understand and explain how to connect students remotely	RU-2
(13)	CPMK-12 : [CPL-5.1, 5.2] Students are able to understand Improved Learning with Audio	Improved Learning with Audio Visuals	Material explanation [1x50'] FAQ [1x20'] Working on a task [1x180']	<ul style="list-style-type: none"> • Create summaries and descriptions of the materials delivered in the resume book 	Able to understand Improved Learning with Audio Visual	RU-1, RU-2, RU-3, RP-3

Week	Competencies to be achieved	Study Materials	Learning Methods and Strategies	Tasks / assignments	Assessment Criteria / Indicators	Reference
	Visual			<ul style="list-style-type: none"> • The task ofm engerjakan problem 		
(14)	CPMK-13 : [CPL-5.1, 5.2] Students are able to analyze and design multimedia usage for students	Multimedia Usage Analysis and Design for students	Material explanation [1x50'] FAQ [1x20'] Working on a task [1x180']	<ul style="list-style-type: none"> • Create summaries and descriptions of the materials delivered in the resume book • The task ofm engerjakan problem 	Able to perform Multimedia Usage Analysis and Design for students	RU-1, RU-2, RU-3, RP-3
(15)	CPMK- 12: [CPL-5.3, 6.1, 6.2, 6.3] Students are able to Analyze and Design Learning Video Creation	Analyzing and Designing Learning Video Creation	Material explanation [1x50'] FAQ [1x20'] Working on a task [1x180']	<ul style="list-style-type: none"> • Create summaries and descriptions of the materials delivered in the resume book • The task ofm engerjakan problem 	Able to Analyze and Design Learning Video Creation	RU-1, RU-2, RU-3, RP-3
(16)	Final Semester Evaluation (Evaluation intended to determine the final achievement of student learning outcomes)					

Note :

1 credits = (50' TM + 60' BT + 60' BM)/Week BM = Self-Learning T = Theory (aspect of science)

TM = Face-to-Face (Lecture) PL = Laboratory Practicum (200 minutes/week) P = Practice (aspect of work skills)

BT = Structured Learning.

CPMK's Association with CPL and Assessment Methods

	Assesment	Bobot (%)	CPL-1			CPL-2				CPL-3				CPL-4			CPL-5			CPL-6				
			1	2	3	1	2	3	4	1	2	3	4	1	2	3	1	2	3	1	2	3		
CPMK-1	UTS.1	10																						
CPMK-2	UTS.1																							

CPMK-3	UTS.2	5																					
CPMK-4	UTS.3	5																					
CPMK-5	UTS.4	10																					
CPMK-6	Task 1	15																					
CPMK-7																							
CPMK-8	Task 2.1	10																					
CPMK-9	Task 2.1																						
CPMK-10	Task 2.2, Task 2.3	7.5, 7.5																					
CPMK-11	UAS.1, UAS.2	5, 15																					
CPMK-12	UAS.3	10																		v	v	v	v
TOTAL		100																					

Assesment Components

Mid-Semester Exam	: 30 %
Final Exam	: 30 %
Task 1	: 15 %
Task 2	: 25 %
<u>Presence</u>	: (min 80%)
Total	: 100 %

Description of Assessment Level

	Excellent	Good	Satisfy	Files
Description	Able to describe correctly and completely	Able to describe correctly but incompletely	Able to describe but less clear and incomplete	Unable to describe
Formulation	Able to formulate correctly and completely	Able to formulate correctly but incomplete	Able to formulate but less clear and incomplete	Unable to formulate
Count	Able to calculate correctly and completely	Able to calculate correctly but less complete	Able to calculate but less clear and less complete	Unable to calculate

Analysis	Able to analyze correctly and completely	Able to analyze correctly but less complete	Able to analyze but less clear and less complete	Unable to analyze
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Assessment System

Score Range	Grade Letter	Grade Point	Notes	Score Range	Grade Letter	Grade Point	Notes
85 – 100	A	4.0	Exceptional	55 – 59	C	2.0	Quite Satisfactory
80 – 84	A-	3.6	Excellent	50 – 54	C-	1.6	Poor
75 – 79	B+	3.3	Very Good	40 – 49	D	1.0	Very Poor
70 – 74	B	3.0	Good	≤ 39	E	0.0	Fail
65 – 69	B-	2.6	Fairly Good	-	T	-	Delayed
60 – 64	C+	2.3	Satisfactory				



KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
UNIVERSITAS NEGERI PADANG
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MIDTERM EXAM QUESTIONS

Course :
Code / SKS : SIP1.61.3102 / 2sks
Test Nature :
Lecturer :
Time :
Maximum value weight :



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FINAL SEMESTER EXAM QUESTIONS

Course :
Code / SKS : SIP1.61.3102 / 2sks
Test Nature :
Lecturer :
Time :
Maximum value weight :



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QUESTION ASSIGNMENT 2 COURSE

Course :
Code / SKS : SIP1.61.
Task Nature : Personal Duty
Lecturer :
Presentation time :
Value weight :

No	Question	Bobot
1.		10
2.		7.5
3.		7.5