

TEACHING PLAN

BACHELOR OF EDUCATION IN BUILDING ENGINEERING (BE-BE) STUDY PROGRAM DEPARTMENT OF CIVIL ENGINEERING, FACULTY OF ENGINEERING, UNIVERSITAS NEGERI PADANG

ONF									
CO	OURSES	CODE	GROUP	OF COURSES	SCU		SE	VERSION	
					Theory	Pract	M		
CAR	PENTERY	SIP1.61.3301	Study	Program Compulsory Courses		4	4		
Responsible Lecturer		F	Fani Keprila	. P., S.Pd., M.Pd.T	the sign respons				
		_	*	08142019032015					
<u>Information</u>		Dean of the Faculty of Engineering Department				Study Program Coording Building Engineering Education			
		<u>Dr. Fahmi Rizal, M</u> NIP. 19591204198		<u>Faisal Ashar, Ph.D.</u> NIP. 19750103 200312 1001		<u>Revian</u> 960010		<u>MSA.</u> 503 1003	
Graduate Learning	Learning Achievement of Gr	L		1.11. 17/30103 200312 1001	1111.1	<i>5</i> 50010.	5 1700	.03 1003	

Outcomes

- 1. Master *basic knowledge of science* (mathematics, natural sciences) and other scientific disciplines that form the basis of building engineering vocational education field for carrying out professional work (*Knowledge and Understanding*).
 - 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 Outcomes

Learning Achievment of Course (CPMK)

СРМК	CPL
1. Have an understanding of the operation of woodworking tools	1.1, 1.2, 1.3
2. Have knowledge of wood connections and connections	1.1, 1.2, 1.3, 2.1, 2.2, 2.3, 2.4
3. Have the knowledge, attitude, and skills of plucking the four sides of the wood, making pen and hole connections, and making bird tail joints.	1.1, 1.2, 1.3, 3.2, 4.1, 4.2, 4.3
4. Have knowledge, attitude, and skills to operate wood machinery	1.1, 1.2, 1.3, 3.2, 4.1, 4.2, 4.3
5. Have knowledge, attitude, and skills to create ventilation coils	1.1, 1.2, 1.3, 3.2, 4.1, 4.2, 4.3
6. Have the knowledge, attitude, and skills to make single cozen	1.1, 1.2, 1.3, 3.2, 4.1,

Short descriptions of course	This course provides know	attitude, and skills to make panel doors ledge and skills to operate wooden hand tools and wood machine hem in an object of construction work or furniture	4.2, 4.3 1.1, 1.2, 1.3, 3.2, 4.1, 4.2, 4.3 es to make connections and wood
Referance	 Djaloed Anwardi. 1985 Dalih SA dan Osutiarna Daryanto. 2010. Ketera Dira Atmaja. 1985. Tea Dodong Budiyanto. 199 Felix Yap. 1984. Konst Heinz Frick. 1986. Ilma John Stefford and Guy Lerch. 1995. Pengerjaa Primiyono. 1979. Tekna Rahmat Daryudi. 1997. 	a Portable dan Statis. Gema Gempita: Jakarta. Teori kerja Kayu dengan perkakas Tangan I. Jurusan Pendidika. 1978. Petunjuk Pekerjaan Kayu I. Depdikbud Direktorat Pendampilan kejuruan konstruksi kayu. PT sarana tutorial Nurani Seja ori dan praktek kerja kayu edisi ke-empat. Erlangga: Jakarta. 195. Mesin tangan Industri kayu. Pika: Semarang. 196. Mesin tangan Industri kayu. Pika: Semarang. 197. 198. 1989. Teknologi: Kanisius: Yogyakarta. 1989. Teknologi Kerja kayu. Erlangga: Jakarta. 1989. Teknologi Kayu buatan bergambar. Tara karya aksara: Jakarta. 1989. Mesin statis pengerjaan Kayu. TEDC: Bandung. 1989. Woodwork Visualized. The United States Of America: USA.	didikan Menengah Kejuruan : Jakarta.
	Proponent (RP)		
Learning Media	Software:	Hardware:	
Team Teaching	Drg Davion Dody MCA - I	Komputer, LCD Projector dan Papan tulis dan pe Dr. Rijal Abdullah, M.T.; Prof. Dr. M. Giatman, MSIE.; Rizky I	<u> </u>
Assessment	Tugas mandiri & kelompok		nuia Otania, 31., W11., W.Fu.1.
Requirements	none rugas mandin & kelompor		
Subject	HOHE		

LESSON MATERIAL

Weeks	Competence to be	Study Materials	Learning Methods and	Assignments / task	Assessment Criteria/	Rreference
	achieved		Strategies		Indicators	
(1)	CPMK 1	Woodworking hand tools	Lecture, Demonstration,	Job 1 : Maintenance	Process 40 %	RU
	1. Have an understanding		Question and Answer,	(sharpening) as well	Result 60 %	No. 2
	of the use, function and		practice.	as techniques for		No. 3

Weeks	Competence to be	Study Materials	Learning Methods and	Assignments / task	Assessment Criteria/ Indicators	Rreference
	achieved		Strategies	. 1	Indicators	NI O
	maintenance of various			using and		No. 9
	woodworking tools			assembling		No. 11
	2. Able to operate wooden			woodworking hand		
	handwork tools (use			tools, saws, chisels,		
	and care techniques)			and crabs		
	3. Able to apply health					
	and safety at work to					
(2)	the learning process CPMK 2	Wooden Connection	I a trans Occasión and	handout kinds of	A 44.4 1.	DII
(2)		wooden Connection	Lecture, Question and		Attitude	RU No. 4
	1. Have an understanding		Answer.	wooden joints	Knowledge	No. 4
	of the various kinds of					No. 7
	connections and					No. 8 No. 9
	wooden relationships.					No. 9
	2. Can distinguish types of connections based on					
	their function					
(2)		D 11 :1.1/	I (D	112	D 40.0/	
(3)	CPMK 3	Double-sided tapping,	Lecture, Demonstration,	Job 2: 1. Double-sided	Process 40 % Result 60 %	
	1. Have an	Wooden joint.	Question and Answer,		Result 60 %	
	understanding and be able to master two-		practice.	tapping 2. Bird's Tail		
				Connection		
	sided spinning techniques and			Connection		
	practice them					
	2. Having the					
	understanding and					
	being able to practice					
	the skill of making					
	bird tail joints.					
	3. Able to apply					
	occupational health					
	and safety to the					
	learning process					
(4)	CPMK 3	Wooden joint	Lecture, Demonstration,	Job 3 :	Process 40 %	
	1. Have an understanding	, coden joint	Question and Answer,	Pen and Hole	Result 60 %	

Weeks	Competence to be	Study Materials	Learning Methods and	Assignments / task	Assessment Criteria/ Indicators	Rreference
	achieved		Strategies		indicators	
	and can practice the		practice.	Connection		
	skills of making pen					
	and hole joints.					
	2. Able to apply K3 in the					
(5)	learning process CPMK 4	Was drys white a masship as	Lastuma Damanstration	Use of wood machines	Process 100%	RU
(5)		Woodworking machines	Lecture, Demonstration,	Use of wood machines	Process 100%	No. 1
	1. Have an understanding of the function and		Question and Answer,			No. 1 No. 3
	maintenance of each		practice.			No. 5 No. 6
	wood machine					No. 0 No. 10
	2. Able to operate wood					No. 10 No. 12
	machinery according to					No. 12 No. 13
	its function					110.13
	3. Able to apply health					
	and safety to work in					
	the learning proce					
(6)	CPMK 5	Ventilation Frames	Lecture, Demonstration,	Job 4 :	Process 40 %	RU
(-)	1. 1. Have an		Question and Answer,	Ventilation Frames	Result 60 %	No.3
	understanding of the		practice.			No. 6
	ventilation coils					No. 10
	2. 2. Able to plan and					No. 12
	calculate the					No. 13
	requirements for					
	making ventilation					
	coils.					
	3. Able to paint					
	workpieces using					
	appropriate equipment					
	4. 4. Able to apply					
	occupational health					
	and safety to the					
(F)	learning process					
(7)	CPMK 5	Ventilation Frames	Lecture, Demonstration,	Job 4:	Process 40 %	
	1. 1. Able to make		Question and Answer,	Ventilation Frames	Result 60 %	

Weeks	Competence to be	Study Materials	Learning Methods and	Assignments / task	Assessment Criteria/ Indicators	Rreference
	achieved		Strategies		indicators	
	connections /		practice.			
	connections for					
	ventilation sills					
	2. 2. Able to apply					
	occupational health					
	and safety to the					
(0)	learning process	Ventilation Frames	Lastra Danas tastica	T.1. 4.	Process 40 %	DII
(8)	CPMK 5 1. Able to assemble	Ventilation Frames	Lecture, Demonstration,	Job 4 : Ventilation Frames	Result 60 %	RU No.3
	ventilation frame wood		Question and Answer,	ventilation Frames	Result 60 %	No. 6
	connections/connection		practice.			No. 6 No. 10
						No. 10 No. 12
	s according to standard 2. Able to apply					No. 12 No. 13
	occupational health and					NO. 13
	safety to the learning					
	process					
(9)	CPMK 6	single door frame	Lecture, Demonstration,	Job 5 :	Process 40 %	RU
(9)	1. Have an	workpieces	Question and Answer,	single door frame	Result 60 %	No.3
	understanding of the	workpieces	practice.	workpieces	Result 00 70	No. 6
	part, function, and		practice.	Workpieces		No. 10
	size of a single door					No. 12
	frame					No. 13
	2. Able to plan a single					110. 13
	door frame					
	3. Able to paint single					
	door frame					
	workpieces					
(10)	CPMK 6	single door frame	Lecture, Demonstration,	Job 5:	Process 40 %	RU
	1. Able to make a single	workpieces	Question and Answer,	single door frame	Result 60 %	No.3
	door frame		practice.	workpieces		No. 6
	connection					No. 10
	2. Able to apply					No. 12
	occupational health					No. 13
	and safety to the					

Weeks	Competence to be achieved	Study Materials	Learning Methods and Strategies	Assignments / task	Assessment Criteria/ Indicators	Rreference
	learning process		Strategies		Thureaco15	
(11)	CPMK 6 1. Able to assemble a single door frame (finishing) 2. Able to apply occupational health and safety to the learning process	single door frame workpieces	Lecture, Demonstration, Question and Answer, practice.	Job 5 : single door frame workpieces	Process 40 % Result 60 %	RU No.3 No. 6 No. 10 No. 12 No. 13
(12)	CPMK 7 1. Have an understanding of the part, function, and size of the panel door 2. Able to plan the manufacture of panel doors	Panel doors	Lecture, Demonstration, Question and Answer, practice.	Job 6 : Panel doors	Process 40 % Result 60 %	RU No.3 No. 6 No. 10 No. 12 No. 13
(13)	CPMK 7 1. Able to paint panel door workpieces 2. Able to apply occupational health and safety to the learning process	Panel doors	Lecture, Demonstration, Question and Answer, practice.	Job 6 : Panel doors	Process 40 % Result 60 %	RU No.3 No. 6 No. 10 No. 12 No. 13
(14)	CPMK 7 1. Capable of making panel door joints 2. Able to apply occupational health and safety to the learning process	Panel doors		Job 6 : Panel doors	Process 40 % Result 60 %	RU No.3 No. 6 No. 10 No. 12 No. 13
(15)	CPMK 7 1. Capable of assembling panel door	Panel doors	Lecture, Demonstration, Question and Answer, practice.	Job 6 : Panel doors	Process 40 % Result 60 %	RU No.3 No. 6

Weeks	Competence to be achieved	Study Materials	Learning Methods and Strategies	Assignments / task	Assessment Criteria/ Indicators	Rreference
	joints 2. Able to apply occupational health and safety to the learning process					No. 10 No. 12 No. 13
(16)	CPMK 7 Able to finish making panel doors: 1. Scrubbing 2. puttying 3. Painting	Panel doors	Lecture, Demonstration, Question and Answer, practice.	Job 6 : Panel doors	Process 40 % Result 60 %	RU No.3 No. 6 No. 10 No. 12 No. 13

Catatan:

Keterkaitan CPMK dengan CPL dan Metode Assesment

СРМК	Aggagmant	Bobot	(CPL-	1		CP	L-2			CP	L-3		(CPL-	4	(CPL-	5	(CPL-0	5
CPIVIK	Assesment	(%)	1	2	3	1	2	3	4	1	2	3	4	1	2	3	1	2	3	1	2	3
1	Job 1	7																				
2	Makalah	3																				
3	Job 2	15																				
3	Job3	10																				
4	Praktek Mesin	10																				
5	Job 4	15																				
6	Job 5	15																				
7	Job 6	15																				
Kehadiran		10																				
TOTAL		100																				

Komponen Penilaian

Job 1 : 7 %

 Job 2
 : 15 %

 Job 3
 : 15 %

 Job 4
 : 20 %

 Job 5
 : 20 %

 Makalah
 : 3 %

 Praktek Mesin
 : 10 %

 Kehadiran
 : 10 %

 Total
 : 100 %

Deskripsi Tingkat Penilaian

	Excellent	Good	Satisfy	Fail
Deskripsi	90-100	70-89	51-69	>50
Formulasi	90-100	70-89	51-69	>50
Menghitung	90-100	70-89	51-69	>50
Analisis	90-100	70-89	51-69	>50
Praktik	90-100	70-89	51-69	>50

Sistem Penilaian

Nilai Angka	Nilai Mutu	Angka Mutu	Sebutan Mutu	Nilai Angka	Nilai Mutu	Angka Mutu	Sebutan Mutu
85 - 100	A	4.0	Dengan pujian	55 - 59	С	2.0	Cukup
80 - 84	A-	3.6	Sangat baik sekali	50 - 54	C-	1.6	Kurang cukup
75 – 79	B+	3.3	Baik sekali	40 - 49	D	1.0	Kurang
70 - 74	В	3.0	Baik	≤ 39	E	0.0	Gagal
65 - 69	B-	2.6	Cukup Baik	-	Т	-	Tertunda
60 - 64	C+	2.3	Lebih dari cukup				



Alamat: Jl. Prof. Dr. Hamka, Kampus UNP Air Tawar, Padang 25131 Telp. (0751) 7055644, Fax (0751) 7055628, website: www.ft.unp.ac.id, e-mail: info@ft.unp.ac.id

GAMBAR KERJA JOB 1

Matakuliah : Praktek Kerja Kayu Kode / SKS : SIP1.61.3301 / 4 SKS

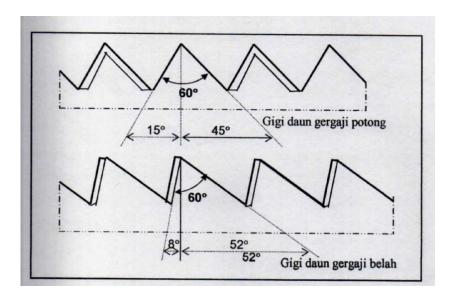
Sifat Ujian : Praktikum

Dosen : Fani Keprila Prima, S.Pd., M.Pd.T.

Waktu : 2 x 4 x 50menit

Bobot nilai maksimal : 100

PENGASAHAN GERGAJI



PENGASAHAN MATA PAHAT

PENGASAHAN MATA KETAM



Alamat: Jl. Prof. Dr. Hamka, Kampus UNP Air Tawar, Padang 25131 Telp. (0751) 7055644, Fax (0751) 7055628, website: www.ft.unp.ac.id, e-mail: info@ft.unp.ac.id

GAMBAR KERJA JOB 2

Matakuliah : Praktek Kerja Kayu Kode / SKS : SIP1.61.3301 / 4 SKS

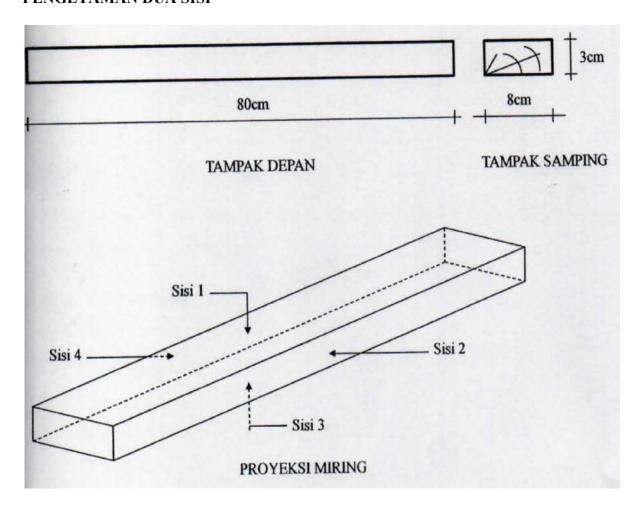
Sifat Ujian : Praktikum

Dosen : Fani Keprila Prima, S.Pd., M.Pd.T.

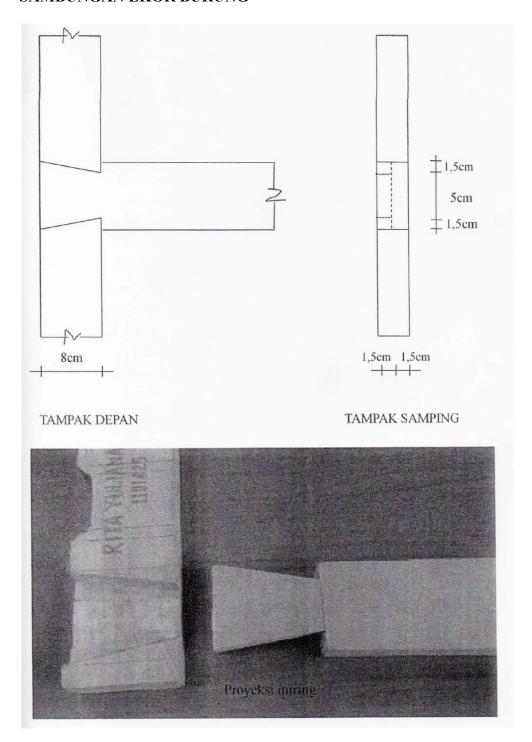
Waktu $: 2 \times 4 \times 50$ menit

Bobot nilai maksimal : 100

PENGETAMAN DUA SISI



SAMBUNGAN EKOR BURUNG





KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN

UNIVERSITAS NEGERI PADANG JURUSAN TEKNIK BANGUNAN

Alamat: Jl. Prof. Dr. Hamka, Kampus UNP Air Tawar, Padang 25131 Telp. (0751) 7055644, Fax (0751) 7055628, website: www.ft.unp.ac.id, e-mail: info@ft.unp.ac.id

GAMBAR KERJA PENGGUNAAN MESIN KAYU

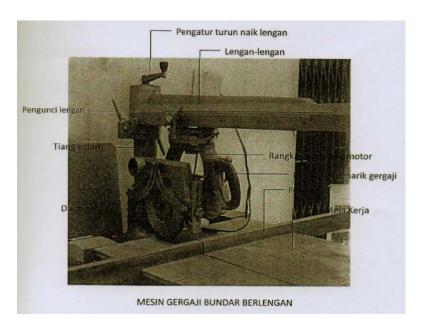
Matakuliah : Praktek Kerja Kayu Kode / SKS : SIP1.61.3301 / 4 SKS

Sifat Ujian : Praktikum

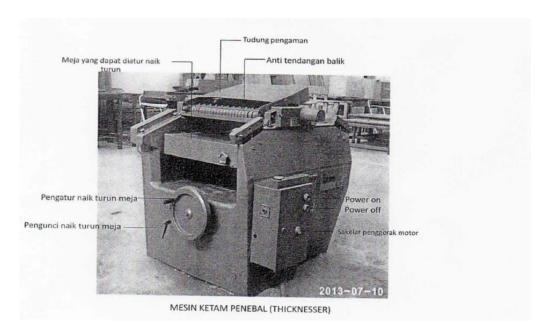
Dosen : Fani Keprila Prima, S.Pd., M.Pd.T.

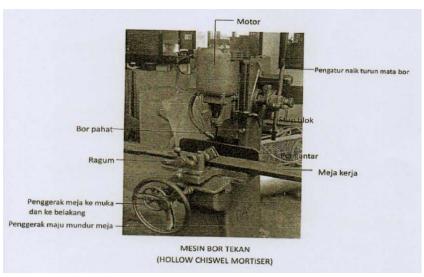
Waktu : 2 x 4 x 50menit

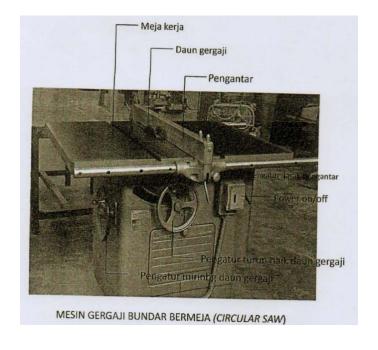
Bobot nilai maksimal : 100













Alamat: Jl. Prof. Dr. Hamka, Kampus UNP Air Tawar, Padang 25131 Telp. (0751) 7055644, Fax (0751) 7055628, website: www.ft.unp.ac.id, e-mail: info@ft.unp.ac.id

GAMBAR KERJA JOB 3

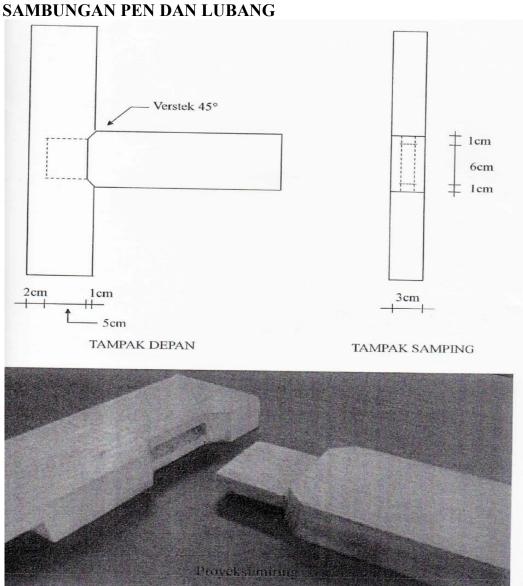
Matakuliah : Praktek Kerja Kayu Kode / SKS : SIP1.61.3301 / 4 SKS

Sifat Ujian : Praktikum

Dosen : Fani Keprila Prima, S.Pd., M.Pd.T.

Waktu : 2 x 4 x 50menit

Bobot nilai maksimal : 100





Alamat: Jl. Prof. Dr. Hamka, Kampus UNP Air Tawar, Padang 25131 Telp. (0751) 7055644, Fax (0751) 7055628, website: www.ft.unp.ac.id, e-mail: info@ft.unp.ac.id

GAMBAR KERJA JOB 4

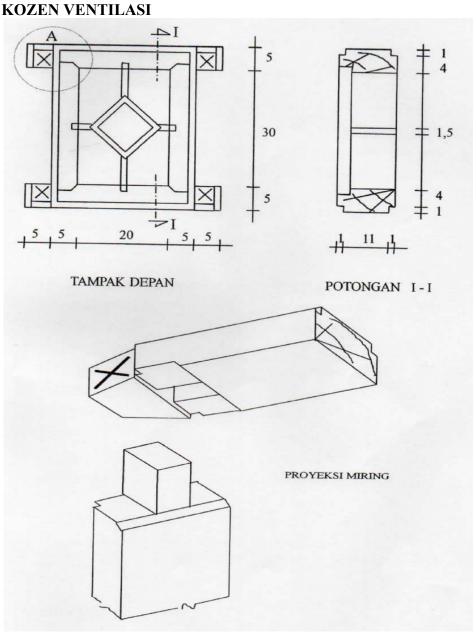
Matakuliah : Praktek Kerja Kayu : SIP1.61.3301 / 4 SKS Kode / SKS

Sifat Ujian : Praktikum

Dosen : Fani Keprila Prima, S.Pd., M.Pd.T.

Waktu : 2 x 4 x 50menit

Bobot nilai maksimal : 100





Alamat: Jl. Prof. Dr. Hamka, Kampus UNP Air Tawar, Padang 25131 Telp. (0751) 7055644, Fax (0751) 7055628, website: www.ft.unp.ac.id, e-mail: info@ft.unp.ac.id

GAMBAR KERJA JOB 5

Matakuliah : Praktek Kerja Kayu Kode / SKS : SIP1.61.3301 / 4 SKS

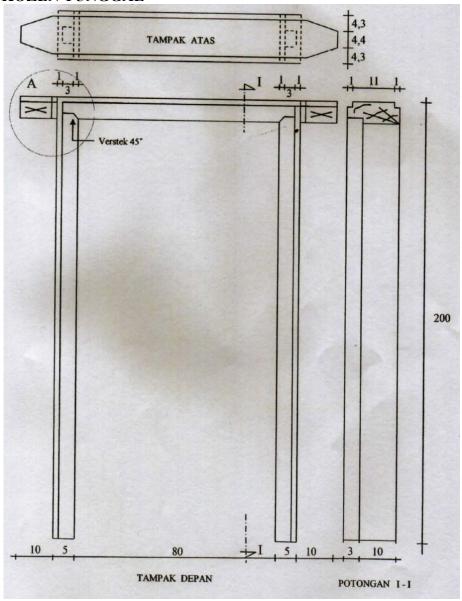
Sifat Ujian : Praktikum

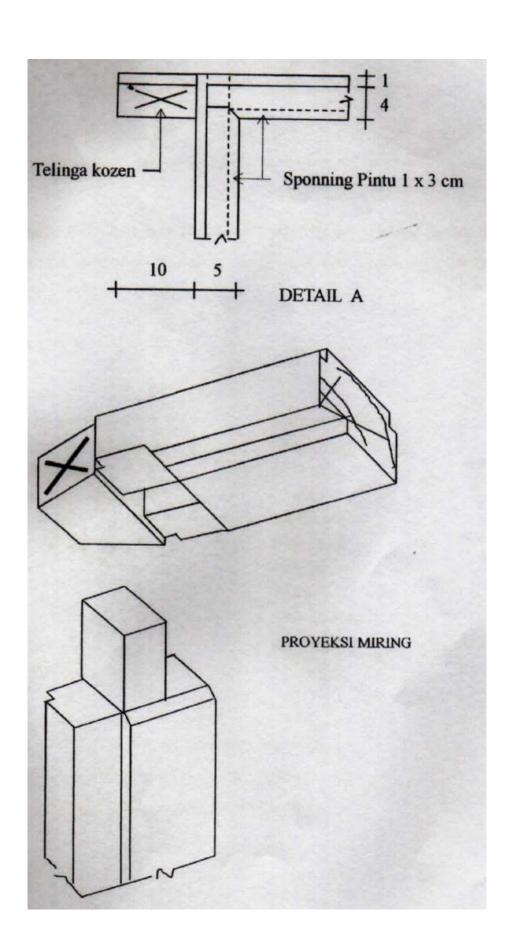
Dosen : Fani Keprila Prima, S.Pd., M.Pd.T.

Waktu $: 2 \times 4 \times 50$ menit

Bobot nilai maksimal : 100

KOZEN TUNGGAL







Alamat: Jl. Prof. Dr. Hamka, Kampus UNP Air Tawar, Padang 25131 Telp. (0751) 7055644, Fax (0751) 7055628, website: www.ft.unp.ac.id, e-mail: info@ft.unp.ac.id

GAMBAR KERJA JOB 6

PINTU PANEL

