



RENCANA PEMBELAJARAN SEMESTER (RPS)
PROGRAM STUDI S1 PENDIDIKAN TEKNIK BANGUNAN
JURUSAN TEKNIK SIPIL, FAKULTAS TEKNIK, UNIVERSITAS NEGERI PADANG

COURSES	CODE	GROUP OF COURSES	SCU		SE M	VERSION
			Theory	Pract		
CARPENTRY	SIP1.61.3301	Study Program Compulsory Courses		4	4	
Responsible Lecturer	<u>Fani Keprila P., S.Pd., M.Pd.T</u> NIP. 199008142019032015			the signature of the responsible lecturer		
<u>Information</u>	Dean of the Faculty of Engineering	Head of the Civil Engineering Department	Study Program Coordinator Building Engineering Education			
	<u>Dr. Fahmi Rizal, M.Pd., M.T</u> NIP. 195912041985031004	<u>Faisal Ashar, Ph.D.</u> NIP. 19750103 200312 1001	<u>Drs. Revian Body, MSA.</u> NIP. 19600103 198503 1003			
Graduate Learning	Learning Achievement of Graduate Study Programs					

Outcomes

1. Able to apply basic knowledge of science (mathematics, natural sciences) and other multidisciplinary disciplines which form the basis of the field of Technical Vocational Education in carrying out professional work in their respective fields.
 - 1.1. Able to understand a good understanding and implement various basic mathematical concepts to solve problems in the field of building engineering.
 - 1.2. Have a high understanding and can implement the basic concepts of physics and chemistry in the field of building engineering.
 - 1.3. Have a high understanding and can implement the basic principles of basic engineering (mechanics, engineering drawings, materials science) in the field of building engineering.
2. Able to think critically and creatively in identifying, formulating, solving problems, solving various issues in the field of Building Engineering Vocational Education with the most appropriate and effective scientific method (engineering analysis, investigation and assessment).
 - 2.1. Able to identify technical problems in the field of building engineering
 - 2.2. Able to analyze technical problems in the field of building engineering
 - 2.3. Able to handle technical problems in the building sector
 - 2.4. Able to communicate Engineering Analysis, Investigation and Assessment materials to students/training.
3. Possess reliable abilities in designing, implementing and supervising engineering construction works.
 - 3.1. Able to realize work images in various related parties.
 - 3.2. Able to manage building engineering work by paying attention to environmental, health and safety aspects.
 - 3.3. Able to do building engineering work
 - 3.4. Able to communicate Engineering Design material to students.

4. Have a reliable ability to design, implement and complete the learning process in Building Engineering Vocational Education (Education design).
 - 4.1. Able to design the curriculum and learning process in building engineering.
 - 4.2. Able to implement, control, improve the quality of the learning process
 - 4.3. Able to develop effective, efficient, and attractive learning media.
5. Having the ability to adapt and innovate to the development of science and technology and implement it into the goals of education and professional work by considering possible non-technical risks (Engineering practice).
 - 5.1. Able to innovate and develop technology in the field of building engineering by considering social, economic and environmental aspects.
 - 5.2. Able to analyze environmental conditions in the planning, implementation and supervision of buildings.
 - 5.3. Implement information technology and computers into the planning, implementation, and supervision processes of buildings.
6. Have social and managerial competence, work together, communicate effectively, have an entrepreneurial character, have an environmental perspective and are aware of the importance of lifelong learning (transferable and soft skills).
 - 6.1. Able to work creatively, innovatively, collaboratively, prudently, responsibly, responsive to environmental changes.
 - 6.2. Have curiosity, think critically, openly, and objectively.
 - 6.3. Able to communicate effectively and work together in teamwork.

Course Learning Outcomes

Learning Achievement of Course (CPMK)

CPMK	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, 6.1, 6.2, 6.3
	4. Have knowledge, attitude, and skills to operate wood machinery	1.1, 1.2, 1.3, 3.2, 6.1, 6.2, 6.3
	5. Have knowledge, attitude, and skills to create ventilation coils	1.1, 1.2, 1.3, 3.2, 6.1, 6.2, 6.3
	6. Have the knowledge, attitude, and skills to make single cozen	1.1, 1.2, 1.3, 3.2, 6.1, 6.2, 6.3
	7. Have the knowledge, attitude, and skills to make panel doors	1.1, 1.2, 1.3, 3.2, 6.1, 6.2, 6.3
Short descriptions of course	This course provides knowledge and skills to operate wooden hand tools and wood machines to make connections and wood connections and assemble them in an object of construction work or furniture	
Referance	<p>Primary (RU) :</p> <ol style="list-style-type: none"> 1. Aminudin. 2000. <i>Mesin Portable dan Statis</i>. Gema Gempita : Jakarta. 2. Djaloed Anwardi. 1985. <i>Teori kerja Kayu dengan perkakas Tangan I</i>. Jurusan Pendidikan Menengah Kejuruan : Jakarta. 3. Dalih SA dan Osutiarna. 1978. <i>Petunjuk Pekerjaan Kayu I</i>. Depdikbud Direktorat Pendidikan Menengah Kejuruan : Jakarta. 4. Daryanto. 2010. <i>Keterampilan kejuruan konstruksi kayu</i>. PT sarana tutorial Nurani Sejahtera : Bandung. 5. Dira Atmaja. 1985. <i>Teori dan praktek kerja kayu edisi ke-empat</i>. Erlangga : Jakarta. 6. Dodong Budiyo. 1995. <i>Mesin tangan Industri kayu</i>. Pika : Semarang. 7. Felix Yap. 1984. <i>Konstruksi kayu</i>. Bina Cipta : Bandung. 8. Heinz Frick. 1986. <i>Ilmu konstruksi bangunan kayu</i>. Kanisius : Yogyakarta. 9. John Stefford and Guy Mc murd. 1989. <i>Teknologi Kerja kayu</i>. Erlangga : Jakarta. 10. Lerch. 1995. <i>Pengerjaan kayu secara maksimal</i>. Pika : Semarang. 11. Primiyono. 1979. <i>Teknologi kayu buatan bergambar</i>. Tara karya aksara : Jakarta. 12. Rahmat Daryudi. 1997. <i>Mesin statis pengerjaan Kayu</i>. TEDC : Bandung. 13. Ross C. Cramlet. 1995. <i>Woodwork Visualized</i>. The United States Of America : USA. <p>Proponent (RP)</p>	
Learning Media	Software:	Hardware:
		Komputer, LCD Projector dan Papan tulis dan perangkatnya
Team Teaching	Drs. Revian Body, MSA ; Dr. Rijal Abdullah, M.T.; Prof. Dr. M. Giatman, MSIE. ; Rizky Indra Utama, ST., MT., M.Pd.T.	
Assessment	Tugas mandiri & kelompok	
Requirements Subject	none	

LESSON MATERIAL

Weeks	Competence to be achieved	Study Materials	Learning Methods and Strategies	Assignments / task	Assessment Criteria/ Indicators	Reference
(1)	<p>CPMK 1</p> <ol style="list-style-type: none"> 1. Have an understanding of the use, function and maintenance of various woodworking tools 2. Able to operate wooden handwork tools (use and care techniques) 3. Able to apply health and safety at work to the learning process 	Woodworking hand tools	Lecture, Demonstration, Question and Answer, practice.	Job 1 : Maintenance (sharpening) as well as techniques for using and assembling woodworking hand tools, saws, chisels, and crabs	Process 40 % Result 60 %	RU No. 2 No. 3 No. 9 No. 11
(2)	<p>CPMK 2</p> <ol style="list-style-type: none"> 1. Have an understanding of the various kinds of connections and wooden relationships. 2. Can distinguish types of connections based on their function 	Wooden Connection	Lecture, Question and Answer.	handout kinds of wooden joints	Attitude Knowledge	RU No. 4 No. 7 No. 8 No. 9
(3)	<p>CPMK 3</p> <ol style="list-style-type: none"> 1. Have an understanding and be able to master two-sided spinning techniques and practice them 2. Having the understanding and being able to practice the skill of making bird tail joints. 3. Able to apply occupational health 	Double-sided tapping, Wooden joint.	Lecture, Demonstration, Question and Answer, practice.	Job 2 : <ol style="list-style-type: none"> 1. Double-sided tapping 2. Bird's Tail Connection 	Process 40 % Result 60 %	

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

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

Weeks	Competence to be achieved	Study Materials	Learning Methods and Strategies	Assignments / task	Assessment Criteria/ Indicators	Reference
	connection 2. Able to apply occupational health and safety to the learning process					No. 10 No. 12 No. 13
(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	Panel doors		Job 6 : Panel doors	Process 40 % Result 60 %	RU No.3 No. 6 No. 10 No. 12 No. 13

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	C	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	B	3.0	Baik	≤ 39	E	0.0	Gagal

65 – 69	B-	2.6	Cukup Baik	-	T	-	Tertunda
60 – 64	C+	2.3	Lebih dari cukup				



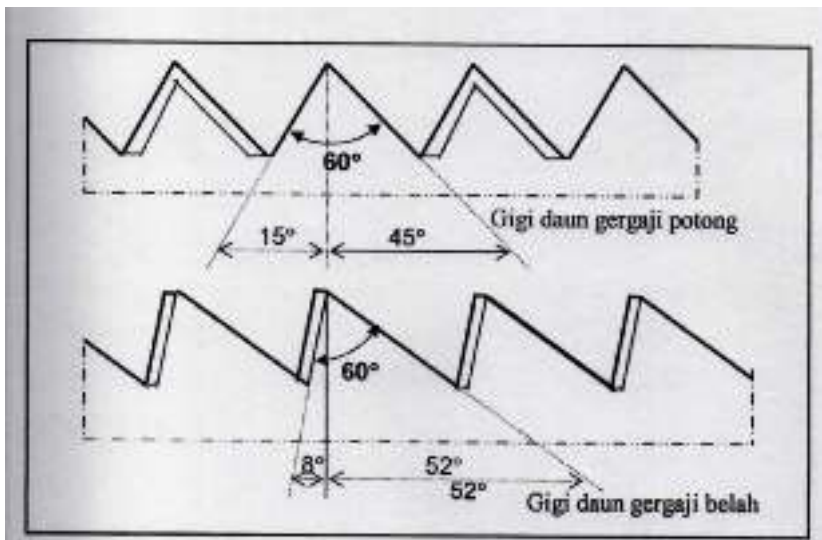
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**GAMBAR KERJA
JOB 1**

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



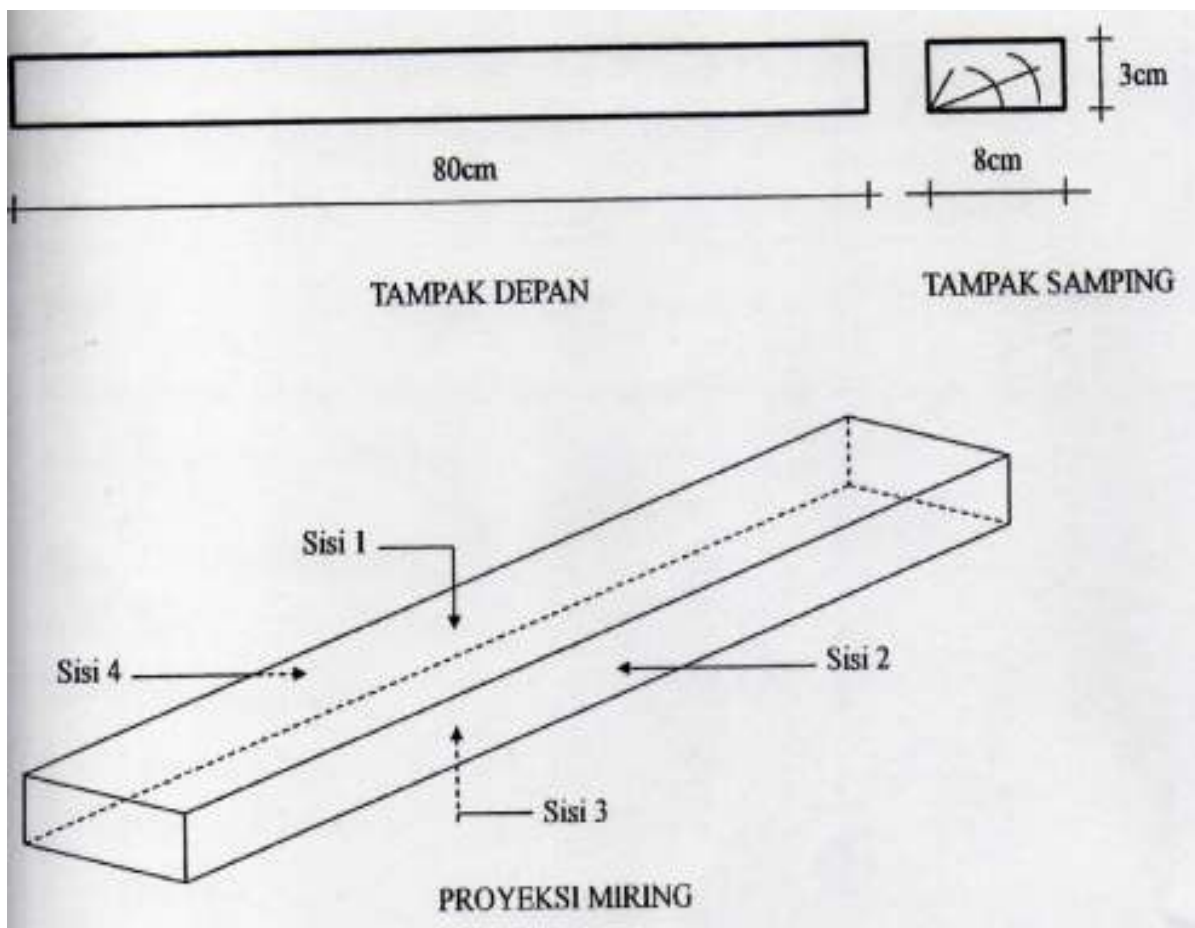
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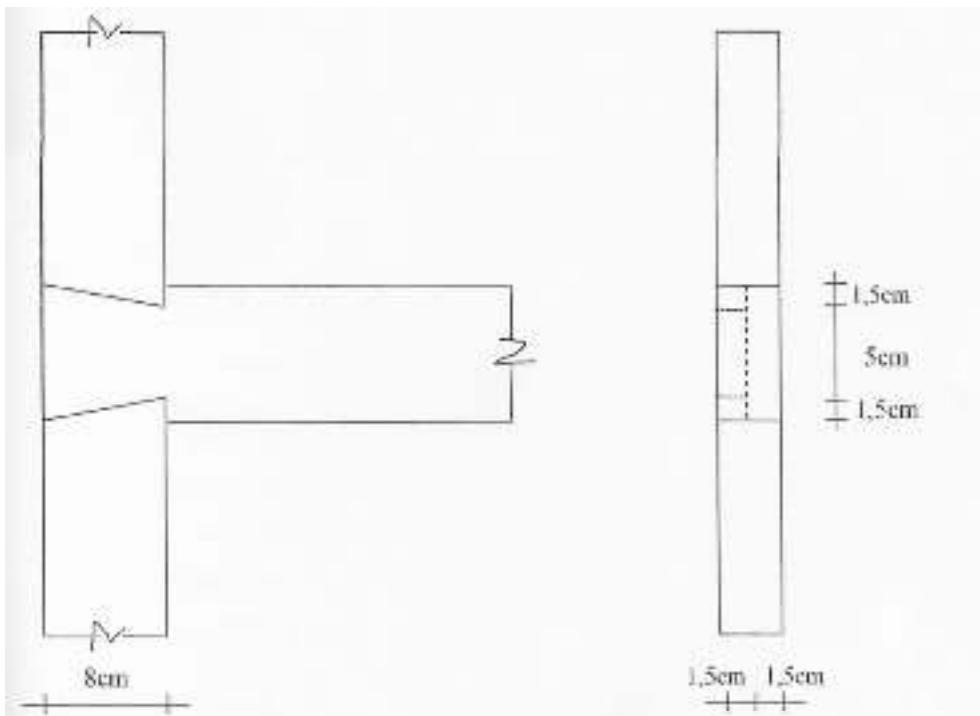
GAMBAR KERJA
JOB 2

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 x 4 x 50menit
Bobot nilai maksimal : 100

PENGETAMAN DUA SISI

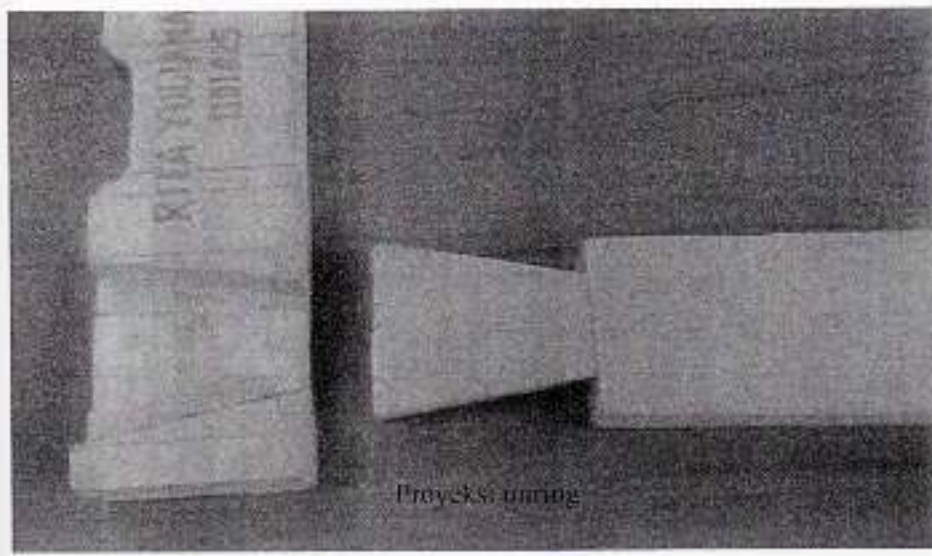


SAMBUNGAN EKOR BURUNG



TAMPAK DEPAN

TAMPAK SAMPING





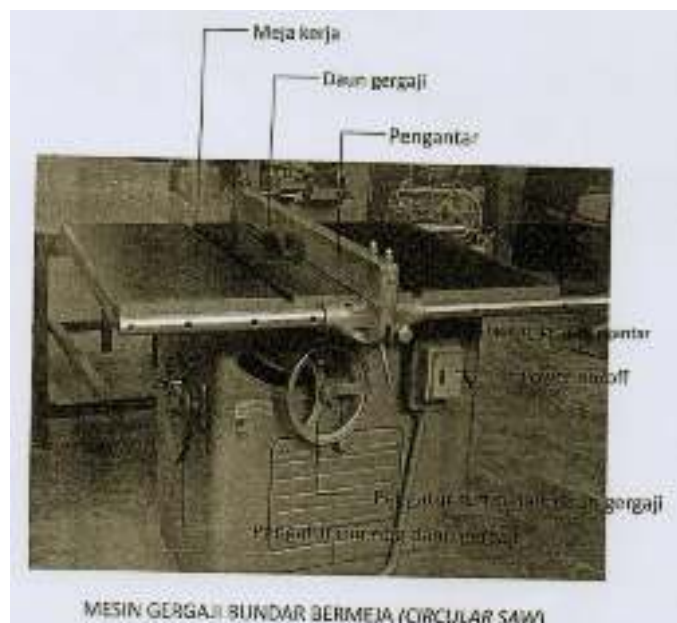
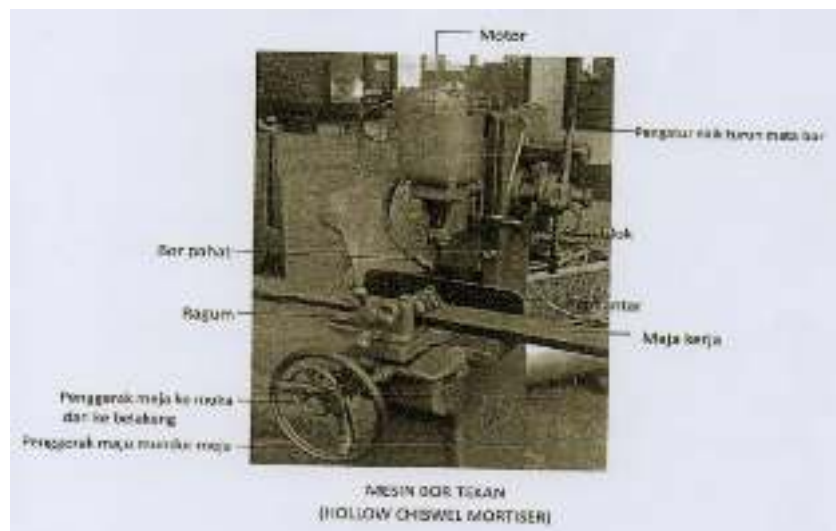
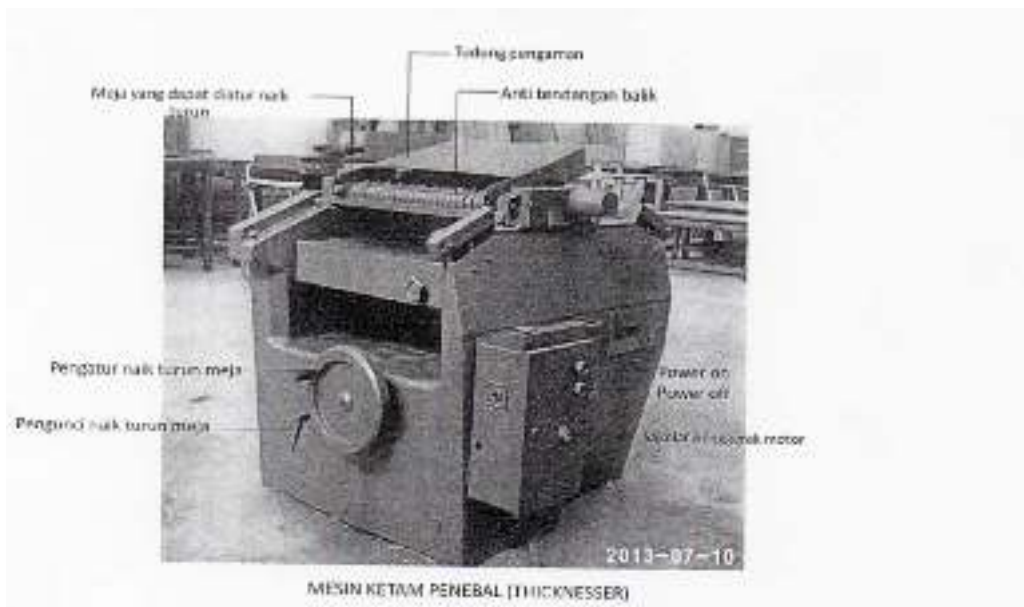
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GAMBAR KERJA
PENGGUNAAN MESIN KAYU

Matakuliah : Praktek Kerja Kayu
Kode / SKS : SIP1.61.3301 / 4 SKS
Sifat Ujian : Praktikum
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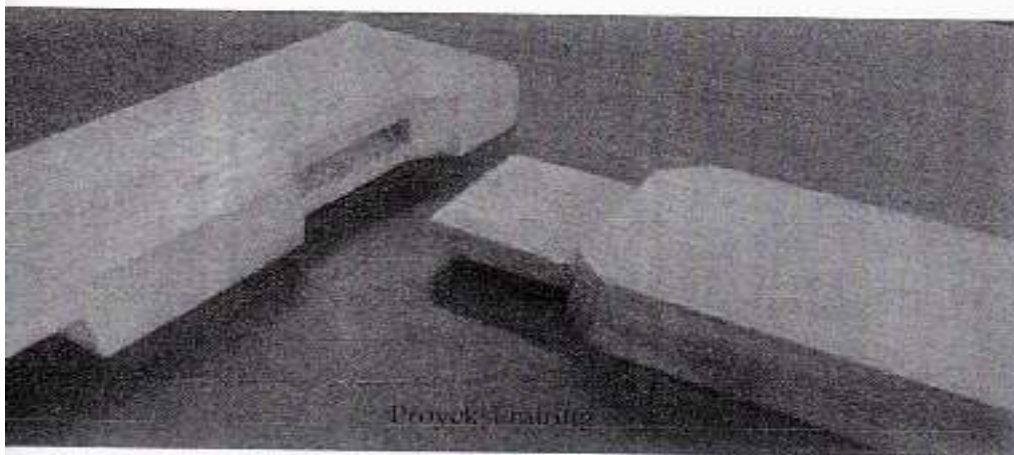
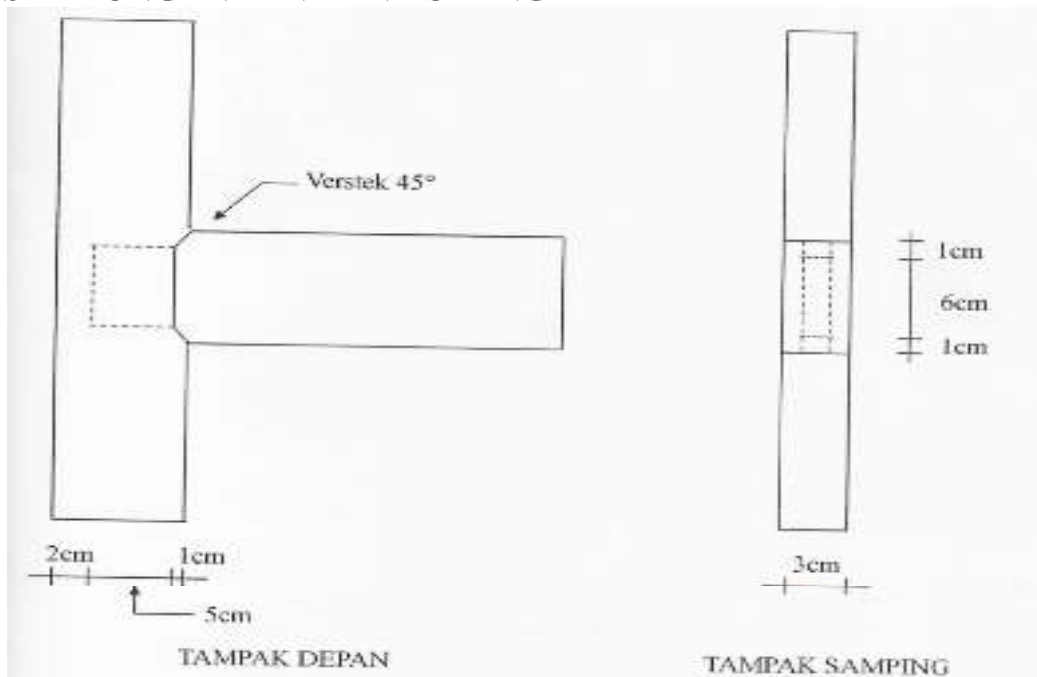
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**GAMBAR KERJA
JOB 3**

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

SAMBUNGAN PEN DAN LUBANG





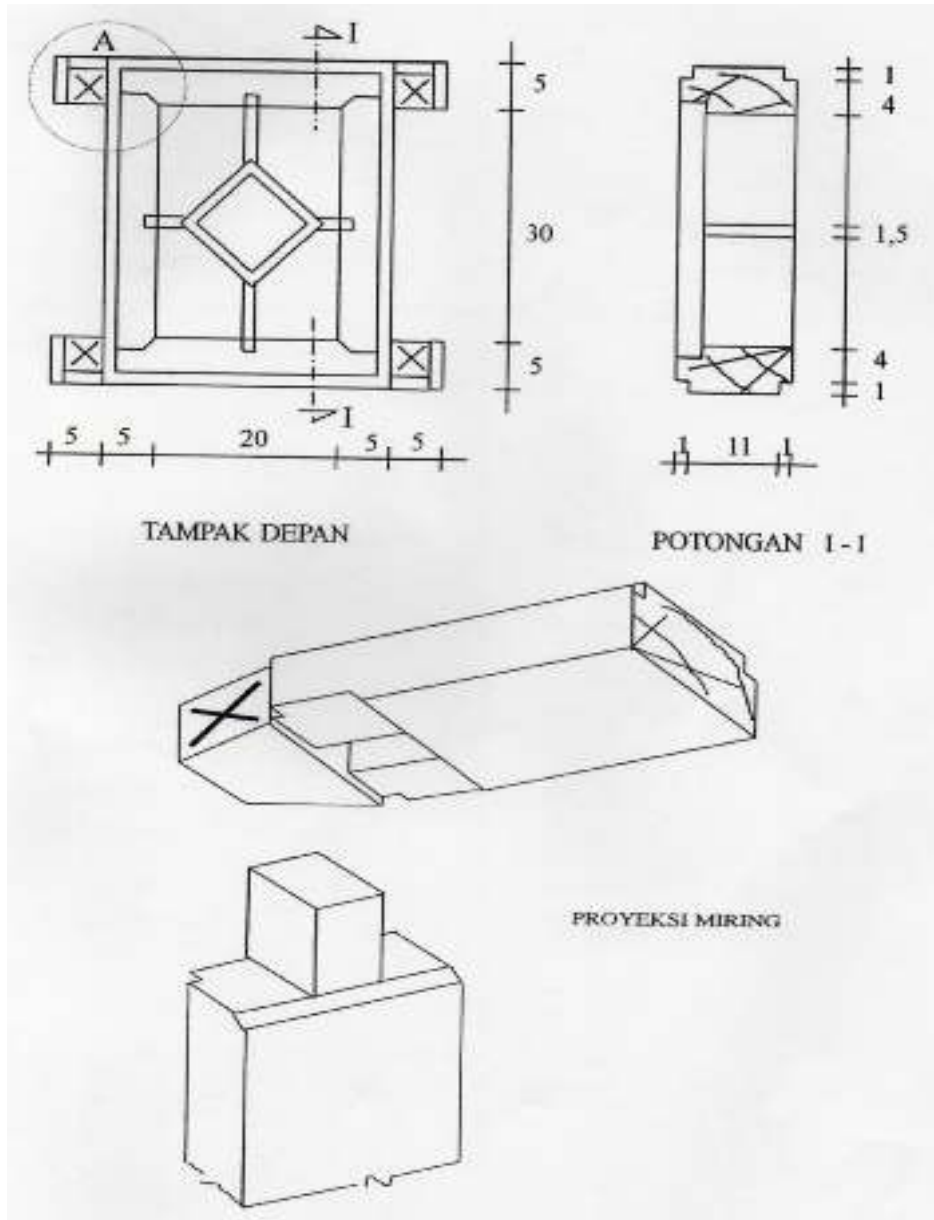
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**GAMBAR KERJA
JOB 4**

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

KOZEN VENTILASI





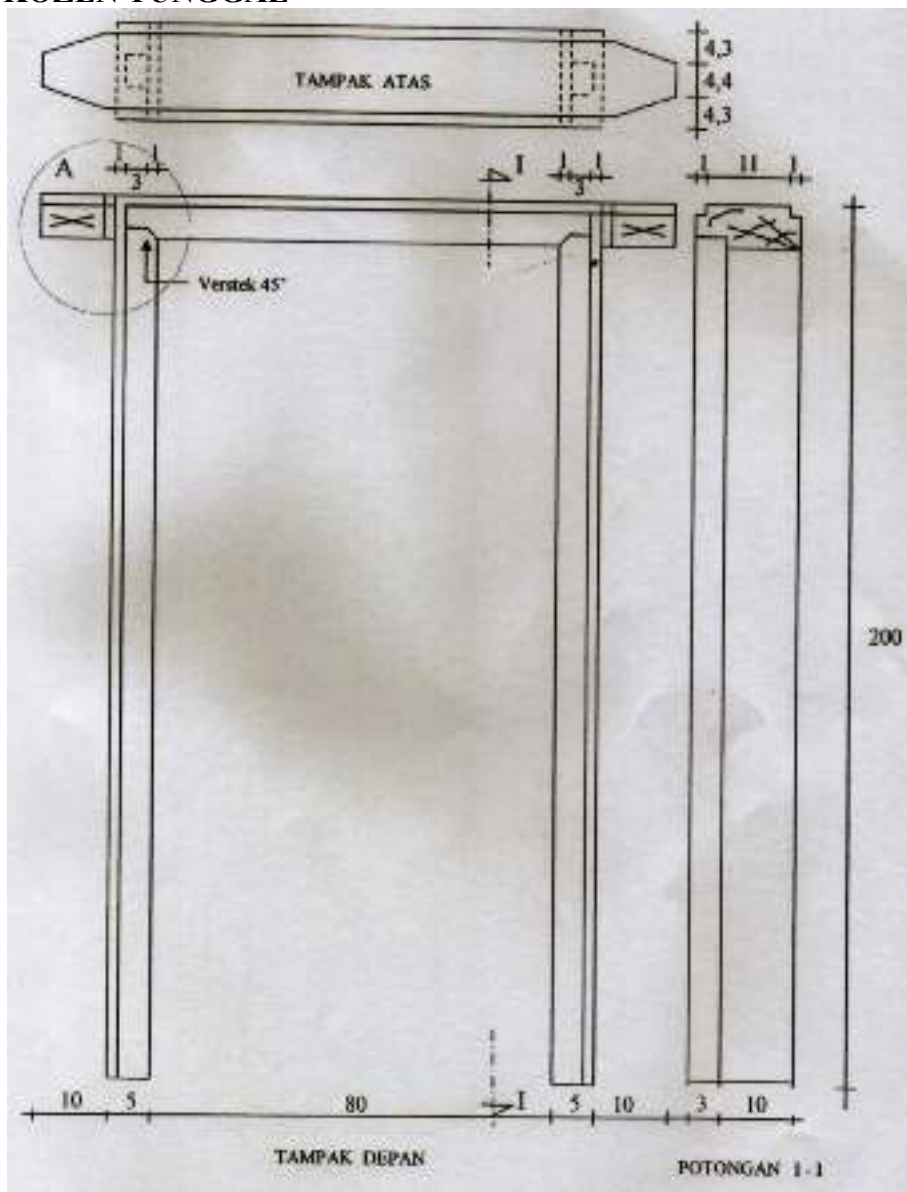
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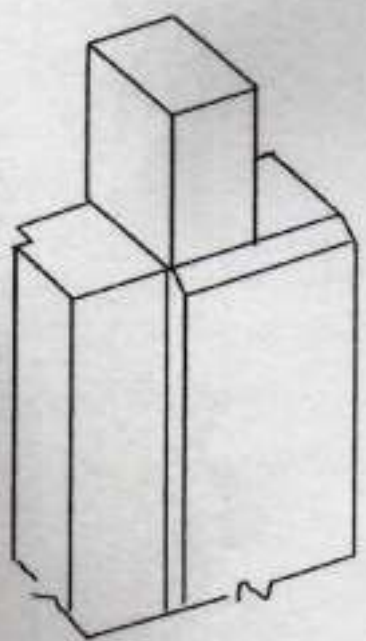
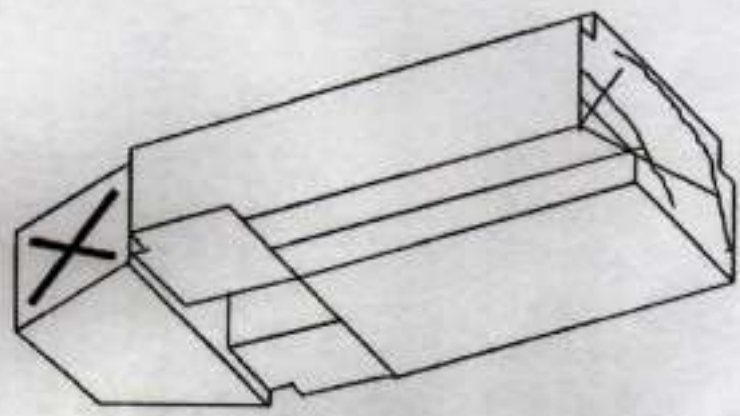
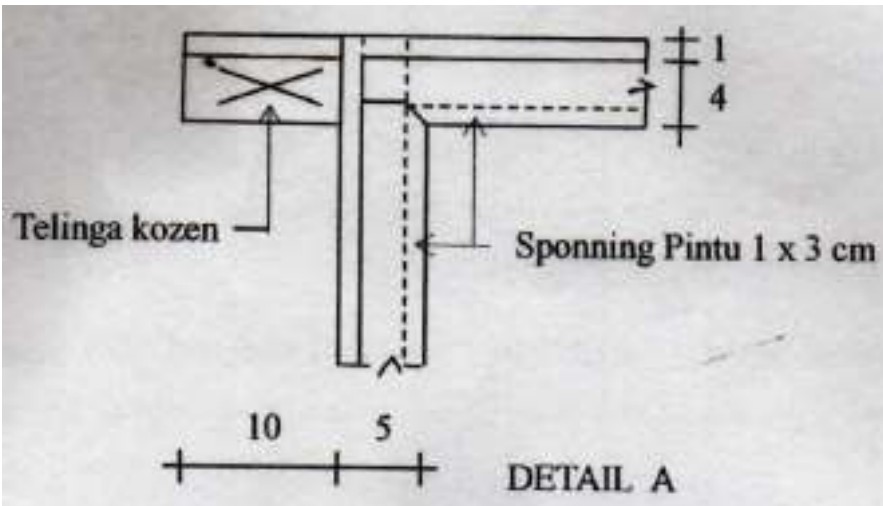
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**GAMBAR KERJA
JOB 5**

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 x 4 x 50menit
Bobot nilai maksimal : 100

KOZEN TUNGGAL





PROYEKSI MIRING

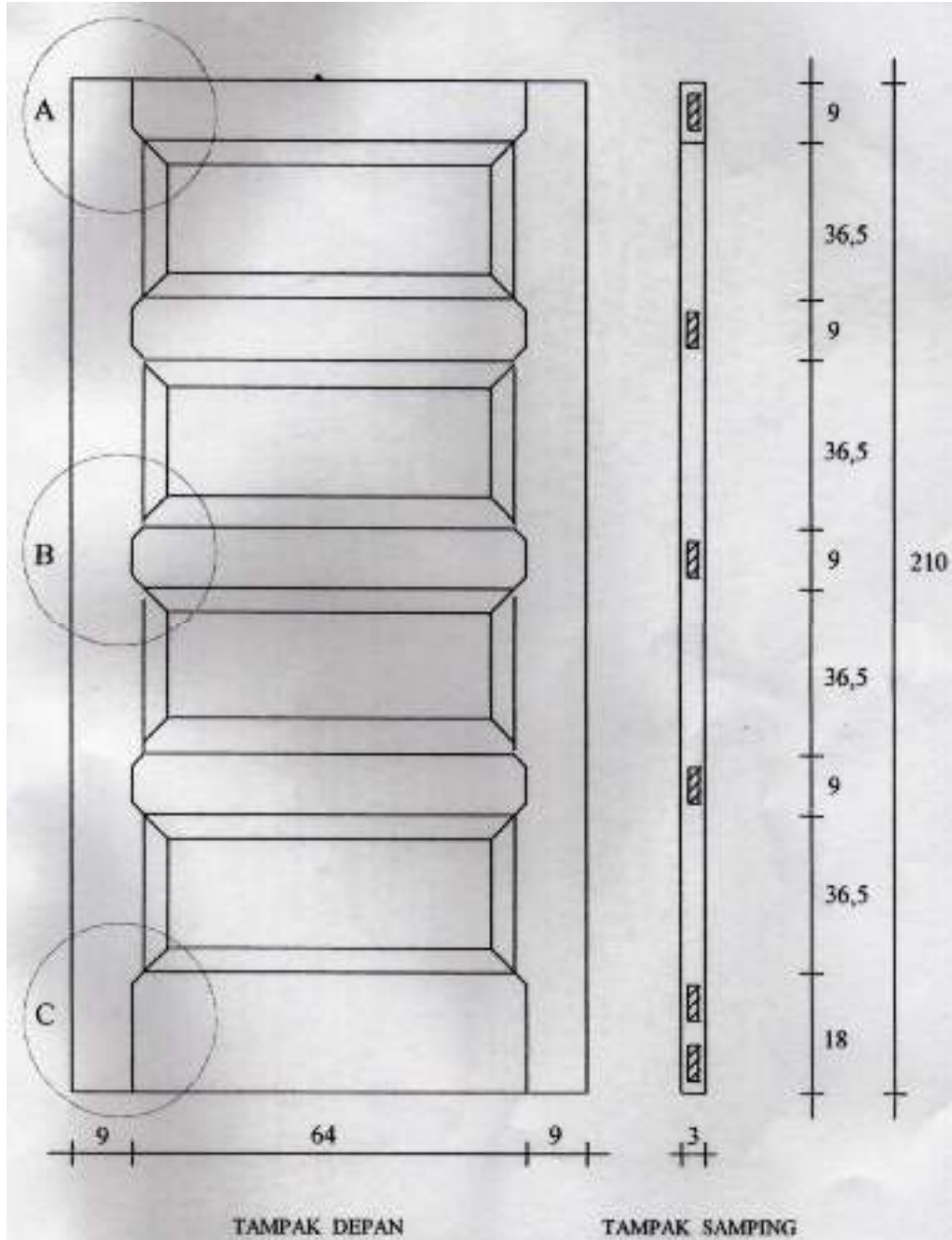


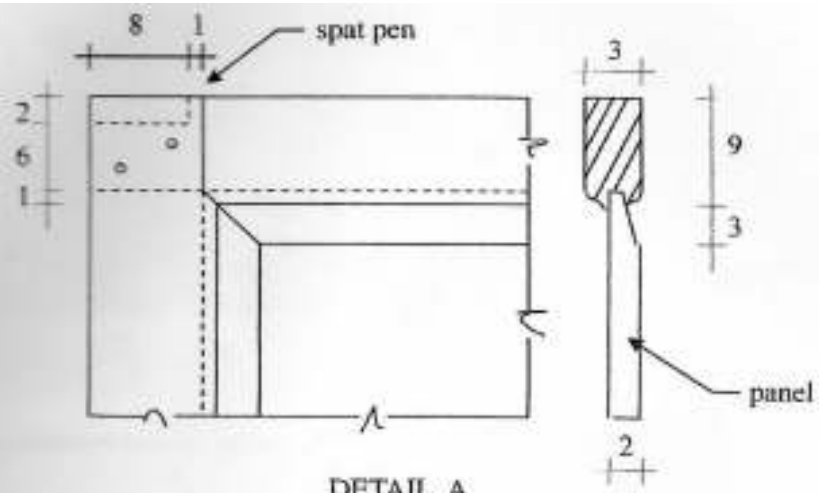
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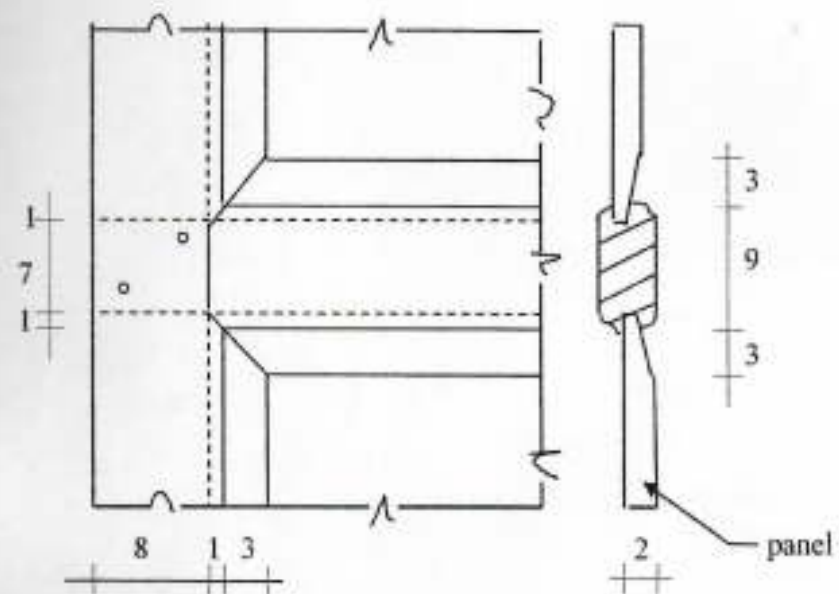
GAMBAR KERJA
JOB 6

PINTU PANEL

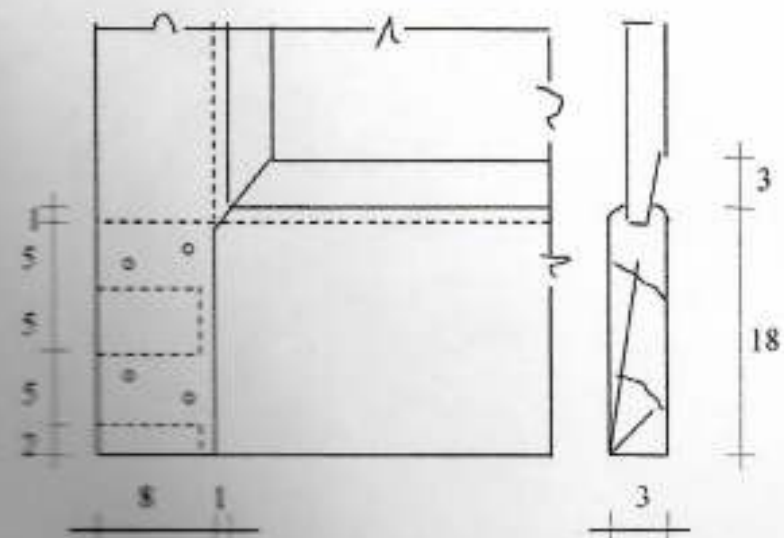




DETAIL A



DETAIL B



DETAIL C