

LAMPIRAN

Lampiran 1. Data Primer

HASIL TABEL PENGUJIAN BETON PRISMA TANPA RONGGA												
KODE	Ø PIPA (inch)	Ø PIPA (mm)	LUAS PIPA (mm ²)	LUAS PERMUKAAN BETON (mm ²)	VOLUME (m ³)	BERAT		BERAT	GAYA		FC' (MPa)	RATA- RATA FC' (MPa)
						(Kg)	(Gram)	VOLUME (Kg/m ³)	AKSIAL			
								(kN)	(N)			
F4	0	0	0,000	10000	0,003	6,945	6945	2315,000	127,500	127500	12,750	13,877
F5				10000	0,003	6,795	6795	2265,000	142,000	142000	14,200	
F6				10000	0,003	6,795	6795	2265,000	146,800	146800	14,680	

HASIL TABEL PENGUJIAN BETON KUBUS									
KODE	LUAS BETON (mm ²)	VOLUME (m ³)	BERAT		BERAT	GAYA		FC' (MPa)	RATA- RATA FC' (MPa)
			(Kg)	(Gram)	VOLUME (Kg/m ³)	AKSIAL			
						(kN)	(N)		
G1	10000	0,001	2,225	2225	2225,000	171,000	171000	17,100	17,080
G2	10000	0,001	2,210	2210	2210,000	166,900	166900	16,690	
G3	10000	0,001	2,190	2190	2190,000	174,500	174500	17,450	

HASIL TABEL PENGUJIAN BETON PRISMA BERONGGA DENGAN PIPA													
KODE	Ø PIPA (inch)	Ø PIPA (mm)	LUAS PIPA (mm ²)	LUAS PERMUKAAN BETON (mm ²)	LUAS BIDANG TEKAN (mm ²)	VOLUME (m ³)	BERAT		GAYA AKSIAL		BERAT VOLUME (Kg/m ³)	FC' (MPa)	RATA-RATA FC' (MPa)
							(Kg)	(Gram)	(kN)	(N)			
A1	1/2"	22	379,940	10000	9620,060	0,0029	6,595	6595	98,200	98200	2285,156	10,208	13,364
A2		22	379,940	10000	9620,060	0,0029	6,435	6435	149,700	149700	2229,716	15,561	
A3		22	379,940	10000	9620,060	0,0029	6,465	6465	137,800	137800	2240,111	14,324	
C1	1"	32	803,840	10000	9196,160	0,0028	6,175	6175	80,100	80100	2238,253	8,710	11,403
C2		32	803,840	10000	9196,160	0,0028	6,015	6015	104,400	104400	2180,258	11,353	
C3		32	803,840	10000	9196,160	0,0028	6,285	6285	130,100	130100	2278,125	14,147	
D1	1 1/4"	42	1384,740	10000	8615,260	0,0026	5,950	5950	82,400	82400	2302,117	9,564	10,710
D2		42	1384,740	10000	8615,260	0,0026	5,815	5815	73,400	73400	2249,884	8,520	
D3		42	1384,740	10000	8615,260	0,0026	5,510	5510	121,000	121000	2131,876	14,045	
E1	1 1/2"	48	1808,640	10000	8191,360	0,0025	5,775	5775	96,400	96400	2350,037	11,768	10,869
E2		48	1808,640	10000	8191,360	0,0025	5,975	5975	87,100	87100	2431,424	10,633	
E3		48	1808,640	10000	8191,360	0,0025	5,755	5755	83,600	83600	2341,898	10,206	

HASIL TABEL PENGUJIAN BETON PRISMA BERONGGA TANPA PIPA													
KODE	Ø PIPA (inch)	Ø PIPA (mm)	LUAS PIPA (mm ²)	LUAS PERMUKAAN BETON (mm ²)	LUAS BIDANG TEKAN (mm ²)	VOLUME (m ³)	BERAT		GAYA AKSIAL		BERAT VOLUME (Kg/m ³)	FC' (MPa)	RATA-RATA FC' (MPa)
							(Kg)	(Gram)	(kN)	(N)			
A4	1/2"	22	379,940	10000	9620,060	0,0029	6,345	6345	150,200	150200	2198,531	15,613	14,664
A5		22	379,940	10000	9620,060	0,0029	6,305	6305	135,200	135200	2184,671	14,054	
A6		22	379,940	10000	9620,060	0,0029	6,190	6190	137,800	137800	2144,824	14,324	
C4	1"	32	803,840	10000	9196,160	0,0028	5,970	5970	93,200	93200	2163,947	10,135	11,331
C5		32	803,840	10000	9196,160	0,0028	6,100	6100	117,800	117800	2211,068	12,810	
C6		32	803,840	10000	9196,160	0,0028	6,175	6175	101,600	101600	2238,253	11,048	
D4	1 1/4"	42	1384,740	10000	8615,260	0,0026	5,650	5650	75,300	75300	2186,044	8,740	10,621
D5		42	1384,740	10000	8615,260	0,0026	5,930	5930	50,400	50400	2294,378	5,850	
D6		42	1384,740	10000	8615,260	0,0026	5,680	5680	148,800	148800	2197,651	17,272	
E4	1 1/2"	48	1808,640	10000	8191,360	0,0025	5,700	5700	95,500	95500	2319,517	11,659	10,763
E5		48	1808,640	10000	8191,360	0,0025	5,590	5590	91,300	91300	2274,755	11,146	
E6		48	1808,640	10000	8191,360	0,0025	5,560	5560	77,700	77700	2262,547	9,486	

Lampiran 2. Data Sekunder

HASIL TABEL PENGUJIAN BETON PRISMA TANPA RONGGA												
KODE	Ø PIPA (inch)	Ø PIPA (mm)	LUAS PIPA (mm ²)	LUAS PERMUKAAN BETON (mm ²)	VOLUME (m ³)	BERAT		BERAT VOLUME (Kg/m ³)	GAYA AKSIAL		FC' (MPa)	RATA- RATA FC' (MPa)
						(Kg)	(Gram)		(kN)	(N)		
F1	0	0	0,000	10000	0,003	6,830	6830	2276,667	90,600	90600	9,060	12,255
F2				10000	0,003	6,935	6935	2311,667	81,600	81600	8,160	
F3				10000	0,003	6,775	6775	2258,333	146,800	146800	14,680	
F4				10000	0,003	6,945	6945	2315,000	127,500	127500	12,750	
F5				10000	0,003	6,795	6795	2265,000	142,000	142000	14,200	
F6				10000	0,003	6,795	6795	2265,000	146,800	146800	14,680	

HASIL TABEL PENGUJIAN BETON KUBUS									
KODE	LUAS BETON PERMUKAAN (mm ²)	VOLUME (m ³)	BERAT		BERAT VOLUME (Kg/m ³)	GAYA AKSIAL		FC' (MPa)	RATA- RATA FC' (MPa)
			(Kg)	(Gram)		(kN)	(N)		
G1	10000	0,001	2,225	2225	2225,000	171,000	171000	17,100	15,520
G2	10000	0,001	2,210	2210	2210,000	166,900	166900	16,690	

HASIL TABEL PENGUJIAN BETON KUBUS									
KODE	LUAS BETON PERMUKAAN (mm ²)	VOLUME (m ³)	BERAT		BERAT VOLUME (Kg/m ³)	GAYA AKSIAL		FC' (MPa)	RATA- RATA FC' (MPa)
			(Kg)	(Gram)		(kN)	(N)		
G3	10000	0,001	2,190	2190	2190,000	174,500	174500	17,450	
G4	10000	0,001	2,160	2160	2160,000	121,000	121000	12,100	
G5	10000	0,001	2,185	2185	2185,000	129,400	129400	12,940	
G6	10000	0,001	2,170	2170	2170,000	168,400	168400	16,840	

HASIL TABEL PENGUJIAN BETON PRISMA BERONGGA DENGAN PIPA													
KODE	Ø PIPA (inch)	Ø PIPA (mm)	LUAS PIPA (mm ²)	LUAS PERMUKAAN BETON (mm ²)	LUAS BIDANG TEKAN (mm ²)	VOLUME (m ³)	BERAT		GAYA AKSIAL		BERAT VOLUME (Kg/m ³)	FC' (MPa)	RATA- RATA FC' (MPa)
							(Kg)	(Gram)	(kN)	(N)			
A1	1/2"	22	379,940	10000	9620,060	0,0029	6,595	6595	98,200	98200	2285,156	10,208	13,364
A2		22	379,940	10000	9620,060	0,0029	6,435	6435	149,700	149700	2229,716	15,561	
A3		22	379,940	10000	9620,060	0,0029	6,465	6465	137,800	137800	2240,111	14,324	
B1	3/4"	26	530,660	10000	9469,340	0,0028	6,505	6505	76,400	76400	2289,846	8,068	8,906
B2		26	530,660	10000	9469,340	0,0028	6,310	6310	93,900	93900	2221,204	9,916	

HASIL TABEL PENGUJIAN BETON PRISMA BERONGGA DENGAN PIPA													
KODE	Ø PIPA (inch)	Ø PIPA (mm)	LUAS PIPA (mm ²)	LUAS PERMUKAAN BETON (mm ²)	LUAS BIDANG TEKAN (mm ²)	VOLUME (m ³)	BERAT		GAYA AKSIAL		BERAT VOLUME (Kg/m ³)	FC' (MPa)	RATA- RATA FC' (MPa)
							(Kg)	(Gram)	(kN)	(N)			
B3		26	530,660	10000	9469,340	0,0028	6,340	6340	82,700	82700	2231,764	8,733	
C1	1"	32	803,840	10000	9196,160	0,0028	6,175	6175	80,100	80100	2238,253	8,710	11,403
C2		32	803,840	10000	9196,160	0,0028	6,015	6015	104,400	104400	2180,258	11,353	
C3		32	803,840	10000	9196,160	0,0028	6,285	6285	130,100	130100	2278,125	14,147	
D1	1 1/4"	42	1384,740	10000	8615,260	0,0026	5,950	5950	82,400	82400	2302,117	9,564	10,710
D2		42	1384,740	10000	8615,260	0,0026	5,815	5815	73,400	73400	2249,884	8,520	
D3		42	1384,740	10000	8615,260	0,0026	5,510	5510	121,000	121000	2131,876	14,045	
E1	1 1/2"	48	1808,640	10000	8191,360	0,0025	5,775	5775	96,400	96400	2350,037	11,768	10,869
E2		48	1808,640	10000	8191,360	0,0025	5,975	5975	87,100	87100	2431,424	10,633	
E3		48	1808,640	10000	8191,360	0,0025	5,755	5755	83,600	83600	2341,898	10,206	

HASIL TABEL PENGUJIAN BETON PRISMA TANPA PIPA													
KODE	Ø PIPA (inch)	Ø PIPA (mm)	LUAS PIPA (mm ²)	LUAS PERMUKAAN BETON (mm ²)	LUAS BIDANG TEKAN (mm ²)	VOLUME (m ³)	BERAT		GAYA AKSIAL		BERAT VOLUME (Kg/m ³)	FC' (MPa)	RATA-RATA FC' (MPa)
							(Kg)	(Gram)	(kN)	(N)			
A4	1/2"	22	379,940	10000	9620,060	0,0029	6,345	6345	150,200	150200	2198,531	15,613	14,664
A5		22	379,940	10000	9620,060	0,0029	6,305	6305	135,200	135200	2184,671	14,054	
A6		22	379,940	10000	9620,060	0,0029	6,190	6190	137,800	137800	2144,824	14,324	
B4	3/4"	26	530,660	10000	9469,340	0,0028	6,320	6320	96,200	96200	2224,724	10,159	9,219
B5		26	530,660	10000	9469,340	0,0028	6,350	6350	81,700	81700	2235,284	8,628	
B6		26	530,660	10000	9469,340	0,0028	6,350	6350	84,000	84000	2235,284	8,871	
C4	1"	32	803,840	10000	9196,160	0,0028	5,970	5970	93,200	93200	2163,947	10,135	11,331
C5		32	803,840	10000	9196,160	0,0028	6,100	6100	117,800	117800	2211,068	12,810	
C6		32	803,840	10000	9196,160	0,0028	6,175	6175	101,600	101600	2238,253	11,048	
D4	1 1/4"	42	1384,740	10000	8615,260	0,0026	5,650	5650	75,300	75300	2186,044	8,740	10,621
D5		42	1384,740	10000	8615,260	0,0026	5,930	5930	50,400	50400	2294,378	5,850	
D6		42	1384,740	10000	8615,260	0,0026	5,680	5680	148,800	148800	2197,651	17,272	
E4	1 1/2"	48	1808,640	10000	8191,360	0,0025	5,700	5700	95,500	95500	2319,517	11,659	10,763
E5		48	1808,640	10000	8191,360	0,0025	5,590	5590	91,300	91300	2274,755	11,146	
E6		48	1808,640	10000	8191,360	0,0025	5,560	5560	77,700	77700	2262,547	9,486	

Lampiran 3. Data Tanggal Pembuatan dan Pengujian Benda Uji

Ø PIPA	KODE	TANGGAL PEMBUATAN	TANGGAL PENGUJIAN
1/2"	A1	06/05/2023	03/06/2023
	A2	06/05/2023	03/06/2023
	A3	08/05/2023	05/06/2023
3/4"	B1	12/05/2023	09/06/2023
	B2	12/05/2023	09/06/2023
	B3	12/05/2023	09/06/2023
1"	C1	12/05/2023	09/06/2023
	C2	13/05/2023	10/06/2023
	C3	17/05/2023	14/06/2023
1 1/4"	D1	15/05/2023	12/06/2023
	D2	15/05/2023	12/06/2023
	D3	17/05/2023	14/06/2023
1 1/2"	E1	15/05/2023	13/06/2023
	E2	15/05/2023	13/06/2023
	E3	15/05/2023	13/06/2023




Ø PIPA	KODE	TANGGAL PEMBUATAN	TANGGAL PENGUJIAN
1/2"	A4	08/05/2023	05/06/2023
	A5	08/05/2023	05/06/2023
	A6	08/05/2023	05/06/2023
3/4"	B4	10/05/2023	07/06/2023
	B5	10/05/2023	07/06/2023
	B6	12/05/2023	09/06/2023
1"	C4	13/05/2023	10/06/2023
	C5	13/05/2023	10/06/2023
	C6	13/05/2023	10/06/2023
1 1/4"	D4	15/05/2023	12/06/2023
	D5	15/05/2023	12/06/2023
	D6	17/05/2023	14/06/2023
1 1/2"	E4	16/05/2023	13/06/2023
	E5	16/05/2023	13/06/2023
	E6	16/05/2023	13/06/2023



BETON NORMAL (cm3)	KODE	TANGGAL PEMBUATAN	TANGGAL PENGUJIAN
10X10X30	F1	13/05/2023	10/06/2023
10X10X30	F2	13/05/2023	10/06/2023
10X10X30	F3	17/05/2023	14/06/2023
10X10X30	F4	17/05/2023	14/06/2023
10X10X30	F5	17/05/2023	14/06/2023
10X10X30	F6	17/05/2023	14/06/2023



BETON KUBUS (cm3)	KODE	TANGGAL PEMBUATAN	TANGGAL PENGUJIAN
10X10X10	G1	17/05/2023	14/06/2023
10X10X10	G2	17/05/2023	14/06/2023
10X10X10	G3	17/05/2023	14/06/2023
10X10X10	G4	18/05/2023	15/06/2023
10X10X10	G5	18/05/2023	15/06/2023
10X10X10	G6	18/05/2023	15/06/2023



Lampiran 4. Dokumentasi Pelaksanaan dan Pengujian Di Laboratorium


No.	Kegiatan	Dokumentasi
1	<p align="center">Persiapan Cetakan Beton Prisma</p>	
2	<p align="center">Persiapan Penuangan Beton Segar</p>	
3	<p align="center">Proses Penuangan Beton Segar ke Dalam Cetakan</p>	

4	Beton Dilepas dari Cetakan	
5	Perawatan Benda Uji dengan Karung Goni	
6	Penimbangan Beton Prisma Tanpa Rongga	



7	Penimbangan Beton Kubus	
8	Penimbangan Beton Prisma Berongga Dengan Pipa 1 ¼ inch	



9	<p>Penimbangan Beton Prisma Berongga Tanpa Pipa 1 ¼ inch</p>	
10	<p>Pengujian Beton Prisma Tanpa Rongga</p>	


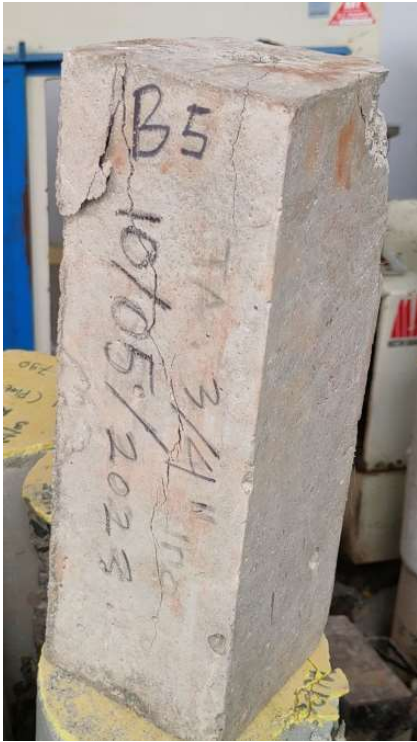
11	Pengujian Beton Kubus	 A digital compression machine with a display showing 166.9 kN. The machine is used for testing a concrete cube specimen. The specimen is a cube with the handwritten label 'G2' on its side.
11	Pengujian Beton Prisma Berongga Dengan Pipa	 A digital compression machine with a display showing 12.10 kN. The machine is used for testing a hollow concrete prism specimen. The specimen is a prism with a pipe inside, and the handwritten label 'D3' and '17/5/23' is on its side.

12	Pengujian Beton Prisma Berongga Tanpa Pipa	 <p>A digital compression machine is shown testing a concrete prism specimen. The machine's display shows a reading of 348.8 KN. The specimen is marked with 'P/01/23' and 'D6'. The machine is labeled 'DIGITAL COMPRESSION MACHINE' and 'D9'.</p>
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Lampiran 5. Dokumentasi Pola Keretakan Benda Uji


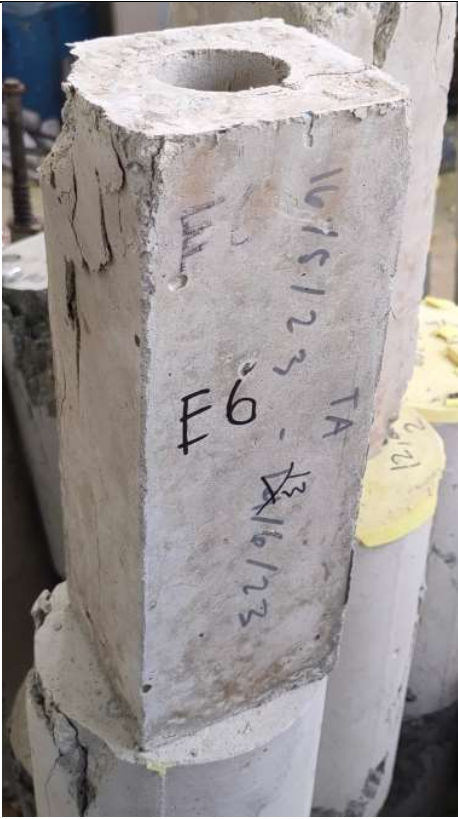
No.	Jenis Beton	Keterangan
1		Beton Prisma Tanpa Rongga Tipe Retak <i>Columnar</i>
2		Beton Kubus Tipe Retak Geser

3	 A photograph of a concrete prism specimen labeled 'A2'. The specimen is a rectangular block of concrete with a yellow-painted top surface. It has two vertical holes, each 1/2 inch in diameter, spaced apart. The specimen shows signs of failure, with several vertical cracks running down its length, characteristic of columnar cracking. Handwritten markings on the side include 'A2', '06-05-2023', and 'TA'.	<p>Beton Prisma Dengan Pipa Variasi Lubang ½ inch Tipe Retak <i>Columnar</i></p>
4	 A photograph of a concrete prism specimen labeled 'A5'. The specimen is a rectangular block of concrete with a yellow-painted top surface. It has two vertical holes, each 1/2 inch in diameter, spaced apart. The specimen shows signs of failure, with several diagonal cracks running across its length, characteristic of shear cracking. Handwritten markings on the side include '08-05-23', '1/2" 1HC', 'TA', and 'A5'.	<p>Beton Prisma Tanpa Pipa Variasi Lubang ½ inch Tipe Retak Geser</p>

5		<p>Beton Prisma Dengan Pipa Variasi Lubang $\frac{3}{4}$ inch Tipe Retak <i>Columnar</i></p>
6		<p>Beton Prisma Tanpa Pipa Variasi Lubang $\frac{3}{4}$ inch Tipe Retak <i>Columnar</i></p>

7	 A photograph of a concrete prism specimen mounted on a testing machine. The specimen is a vertical cylinder with a diameter of 1 inch. It has handwritten markings: 'TA. 1"', '10/05/23', and '-10/16/23'. A vertical crack is visible on the left side of the specimen.	<p>Beton Prisma Dengan Pipa Variasi Lubang 1 inch Tipe Retak <i>Columnar</i></p>
8	 A photograph of a concrete prism specimen mounted on a testing machine. The specimen is a vertical cylinder with a diameter of 1 inch. It has handwritten markings: 'TA. 1"', '10/05/23', and '-10/16/23'. A diagonal crack is visible on the left side of the specimen.	<p>Beton Prisma Tanpa Pipa Variasi Lubang 1 inch Tipe Retak Geser</p>

9	 A photograph of a concrete prism specimen with a hole at the top. The specimen is marked with 'D2', '12/15/05', and '12/6/23'. It shows vertical columnar cracks.	<p>Beton Prisma Dengan Pipa Variasi Lubang 1 ¼ inch Tipe Retak <i>Columnar</i></p>
10	 A photograph of a concrete prism specimen with a hole at the top. The specimen is marked with 'L6', '14/6/23', and 'R/5/23'. It shows diagonal shear cracks.	<p>Beton Prisma Tanpa Pipa Variasi Lubang 1 ¼ inch Tipe Retak Geser</p>

11	 <p>A photograph of a concrete prism specimen with a 1 1/2 inch diameter hole. The specimen is marked with 'E3', 'TA', and '16/15/23 - 10/16/23'. It exhibits vertical columnar cracking along its length.</p>	<p>Beton Prisma Dengan Pipa Variasi Lubang 1 ½ inch Tipe Retak <i>Columnar</i></p>
12	 <p>A photograph of a concrete prism specimen without a hole. It is marked with 'E6', 'TA', and '16/15/23 - 10/16/23'. It exhibits diagonal shear cracking.</p>	<p>Beton Prisma Tanpa Pipa Variasi Lubang 1 ½ inch Tipe Retak Geser</p>

Lampiran 6. Surat Ijin Penelitian



UMKKT
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Telp. 0541-748511 Fax. 0541-766832

Website <http://fst.umkt.ac.id>

email: fst@umkt.ac.id



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

SURAT KETERANGAN

Nomor: 066-37/KET/FST/A.5/C/2023

Yang bertanda tangan di bawah ini:

Nama : Isnaini Zulkarnain, S.T., M.T
NIDN : 1103128104
Jabatan : Kepala Bidang Pembelajaran Praktik

Menerangkan bahwa mahasiswa atas nama:

Nama : Sahrul Panji Saputra
NIM : 1911102443046
Program Studi : S1 Teknik Sipil
Judul Penelitian : Eksperimen Kuat Tekan Beton Model Prisma Berongga

Untuk melaksanakan Penelitian di Laboratorium Bahan dan Material Fakultas Sains dan Teknologi Universitas Muhammadiyah Kalimantan Timur.

Kegiatan tersebut dilaksanakan pada 06 Mei s/d 15 Juni 2023 (Jadwal terlampir).

Demikian surat keterangan ini dibuat untuk dipergunakan sebagaimana mestinya.

Samarinda, 28 Desember 2023

Kepala Bidang Pembelajaran Praktik
Fakultas Sains dan Teknologi,

Isnaini Zulkarnain, S.T., M.T
NIDN.1103128104



UMKT

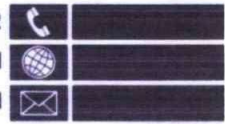
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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

LEMBAR KONSULTASI TUGAS AKHIR PROGRAM STUDI TEKNIK SIPIL

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Judul : Eksperimen Kuat Tekan Beton Model Prisma Berongga

No	Hari, tanggal	Uraian	Tanda tangan
1	2/23 /2	Pengajuan konsep judul TA	<i>my</i>
2	7/23 /2	Penerimaan judul TA & konsultasi	<i>my</i>
3	9/23 /2	Konsultasi Bab 1, Tujuan, Rumusan masalah dll.	<i>my</i>
4	14/23 /2	Konsultasi Bab 1, Rinci Tujuan, Tambahan Bab baru	<i>my</i>
5	16/23 /2	Konsultasi Bab 1, Bab 2 landasan teori, pustaka dll.	<i>my</i>
6	21/23 /2	Konsultasi metode pelaksanaan & penulisan	<i>my</i>
7	22/23 /2	Konsultasi Bab 3 Studi literatur, Bangun alat	<i>my</i>
8	23/23 /2	Konsultasi metode penelitian, mix dengan	<i>my</i>
9	27/23 /2	Seminar Proposal Tugas akhir	<i>my</i>
10	13/23 /6	Konsultasi hasil penelitian	<i>my</i>
11	22/23 /6	Konsultasi Bab IV (tabel, hasil penelitian)	<i>my</i>

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