



ditorima : 15/6/17  
Pembanyakan

### DAFTAR HADIR PESERTA UJIAN

Kode Mata Kuliah : TKS4014 Kelas : A2  
Jurusan : TEKNIK SIPIL PS. SELURUH PROGRARuangDI : ---  
Tahun Ajaran : 2016 / 2017 Hari/Tgl : KAMIS/15-06-2017  
Semester : Genap Peserta : 25  
Jam : 07:30:00 Mata Kuliah: Mekanika Tanah I  
Dosen Ketua : Dr.Eng. Yulvi Zaika, MT.  
Dosen Anggota : Dr.rer.Nat.Ir. Arief Rachmansyah

Prodi

No	NIM	Nama	Q1	Q2	Q3	Q4	TU	UA	UN	Tandatangan
1.	135060100111028	ADELLA DWI NAURA ZAH					<del>78,9</del> 58,9	C	C	<i>[Signature]</i>
2.	135060101111032	Dwit Safari City						60,7	C+	<i>[Signature]</i>
3.	135060101111039	Yopi Adi Prayoga						55,7	C	<i>[Signature]</i>
4.	135060101111058	Muhammad Rizal Alfad						48	D	<i>[Signature]</i>
5.	135060107111023	FIKRI ARIFUDDIN H						46,8	D	<i>[Signature]</i>
6.	155060100111019	FARLY ANDHARESHI						57	D+	<i>[Signature]</i>
7.	155060100111021	AFIF ZUHAIR BESTARI						62,5	C+	<i>[Signature]</i>
8.	155060100111023	BAGUS AKBAR MAULANA						52,4	D+	<i>[Signature]</i>
9.	155060100111029	MUHAMMAD FIQIH ILHAM						68,5	C+	<i>[Signature]</i>
10.	155060100111031	GHEA NABILA ADINDA M						85,1	A	<i>[Signature]</i>
11.	155060100111047	ANNISA WIDIA KIREINA						89,1	A	<i>[Signature]</i>
12.	155060101111021	Harits Hanif Rahadya						58,7	C	<i>[Signature]</i>
13.	155060101111023	Yufi Maghfira Hasant						78,5	B+	<i>[Signature]</i>
14.	155060101111026	Ardya Perdani Ika Sa						60	C	<i>[Signature]</i>
15.	155060101111027	Badi' Aushaf Luthfiy						78,4	B+	<i>[Signature]</i>

Malang, 15/6/.....(2017)

Dosen Penguji

*[Signature]*  
Dr.Eng. Yulvi Zaika, MT.

NIP. 196807071994032002



DAFTAR HADIR PESERTA UJIAN

Kode Mata Kuliah : TKS4014 Kelas : A2  
Jurusan : TEKNIK SIPIL PS. SELURUH PROGRARuangDI : - - -  
Tahun Ajaran : 2016 / 2017 Hari/Tgl : KAMIS/15-06-2017  
Semester : Genap Peserta : 25  
Jam : 07:30:00 Mata Kuliah: Mekanika Tanah I  
Dosen Ketua : Dr.Eng. Yulvi Zaika, MT.  
Dosen Anggota : Dr.rer.Nat.Ir. Arief Rachmansyah

No	NIM	Nama	Q1	Q2	Q3	Q4	TU	UA	UN	Tandatangan
16.	155060101111029	Agatha Leonie Coritza						60,1	C+	
17.	155060101111031	Muhammad Iqbaal Hida						68,1	C+	
18.	155060101111033	Gede Arya Oka Wibawa						66,0	C+	
19.	155060101111035	Dian Rahmawati						58,7	C	
20.	155060101111037	Rakha Sja Putra						56,4	C	
21.	155060101111039	Fajri Kurniawan						54,7	D+	
22.	155060107111009	ANANTA DZAKY WICAKSONO						54,2	D+	
23.	155060107111011	<del>REVA ARDHITO CRISNA</del>							K	
24.	155060107111015	KHARISMA TRIA MAHARA						74,3	B	
25.	155060107111027	REY DAVID BRIA SERAN						47,5	D	

Malang, 15/6/ (2017)  
Dosen Penguji

Dr.Eng. Yulvi Zaika, MT.  
NIP. 196807071994032002

Mekanika Tanah I

NO	NAMA	NIM	TGS1	Tugas 2	tugas 3	tugas 4	Tgs rep	Aktif	Quiz1	Quiz 2	Quiz 3	Quiz 4	Qrata	Arief	UAS	Prak	NA
1	ADELLA DWI NAURA ZAH	135060100111028	55,0	0,0	60,0	0,0	38,3		60,0	45,0	35,0	45,0	50,0	70,0	57,0	73,6	58,9 C
2	Dwit Safari City	135060101111032	55,0	40,0	80,0	0,0	58,3	70,0	46,0	37,5	50,0	30,0	44,5	60,0	30,0	68,3	60,7 C+
3	Yopi Adi Prayoga	135060101111039	60,0	50,0	60,0	0,0	56,7		46,0	55,0	43,0	30,0	48,0	65,0	30,0	72,2	55,7 C
4	Muhammad Rizal Alfadin	135060101111058	60,0	0,0	60,0	0,0	40,0		42,0	37,5	30,0	0,0	36,5	55,0	30,0	68,3	48,0 D
5	FIKRI ARIFUDDIN H	135060107111023	50,0	0,0	60,0	0,0	36,7		42,0	40,0	30,0	0,0	37,3	45,0	32,0	69,5	46,8 D
6	FARLY ANDHARESHI	155060100111019	65,0	40,0	60,0	0,0	55,0		38,0	45,0	30,0	30,0	37,7	45,0	48,0	69,3	54,0 D+
7	AFIF ZUHAIR BESTARI	155060100111021	65,0	50,0	60,0	0,0	58,3		48,0	32,5	30,0	35,0	38,5	40,0	68,0	83,4	62,5 C+
8	BAGUS AKBAR MAULANA	155060100111023	30,0	40,0	0,0	0,0	23,3		48,0	50,0	43,0	0,0	47,0	75,0	43,0	72,1	52,6 D+
9	MUHAMMAD FIQH ILHAM	155060100111029	60,0	50,0	70,0	0,0	60,0		26,0	60,0	30,0	60,0	50,0	70,0	73,0	79,2	68,5 C+
10	GHEA NABILA ADINDA MA	155060100111031	0,0	80,0	80,0	70,0	76,7	70,0	76,0	55,0	87,0	75,0	79,3	65,0	90,0	76,2	85,1 A
11	ANNISA WIDIA KIREINA	155060100111047	100,0	70,0	80,0	80,0	86,7	75,0	80,0	55,0	80,0	75,0	78,3	60,0	97,0	78,8	89,1 A
12	Harits Hanif Rahadyan	155060101111021	65,0	40,0	60,0	0,0	55,0		56,0	40,0	30,0	60,0	52,0	60,0	43,0	74,9	58,7 C
13	Yufi Maghfira Hasanti	155060101111023	80,0	80,0	70,0	70,0	76,7		69,0	52,5	73,0	75,0	72,3	60,0	100,0	76,2	78,5 B+
14	Arhya Perdani Ika Sari	155060101111026	65,0	50,0	80,0	0,0	65,0		25,0	0,0	30,0	55,0	36,7	55,0	65,0	66,1	60,0 C
15	Badi' Aushaf Luthfiyah Ran	155060101111027	100,0	80,0	70,0	75,0	85,0	75,0	56,0	60,0	57,0	55,0	57,7	55,0	67,0	77,4	78,4 B+
16	Agatha Leonie Coritsa	155060101111029	80,0	0,0	80,0	75,0	78,3		44,0	55,0	30,0	45,0	48,0	60,0	33,0	72,0	60,1 C+
17	Muhammad Iqbaal Hidayat	155060101111031	75,0	70,0	70,0	65,0	71,7		52,0	40,0	50,0	50,0	50,7	70,0	63,0	76,5	68,1 C+
18	Gede Arya Oka Wibawa	155060101111033	0,0	60,0	60,0	70,0	63,3		48,0	45,0	67,0	75,0	63,3	50,0	67,0	77,9	66,6 C+
19	Dian Rahmawati	155060101111035	60,0	60,0	80,0	0,0	66,7		60,0	45,0	53,0	45,0	52,7	50,0	40,0	73,2	58,7 C
20	Rakha Sjaputra	155060101111037	90,0	0,0	0,0	0,0	30,0		52,0	56,0	0,0	45,0	51,0	70,0	57,0	70,6	56,4 C
21	Fajri Kurniawan	155060101111039	80,0	30,0	60,0	75,0	71,7		30,0	30,0	0,0	25,0	28,3	40,0	43,0	70,2	54,7 D+
22	ANANTA DZAKY WICAKSO	155060107111009	50,0	40,0	60,0	0,0	50,0		38,0	37,5	40,0	25,0	38,5	40,0	57,0	69,2	54,2 D+
23	KHARISMA TRIA MAHARA	155060107111015	60,0	70,0	80,0	75,0	75,0	70,0	74,0	50,0	42,0	60,0	61,3	60,0	60,0	74,9	74,8 B
24	REY DAVID BRIA SERAN	155060107111027	30,0	50,0	60,0	0,0	46,7		25,0	42,5	30,0	0,0	32,5	50,0	25,0	68,9	47,3 D
25	Reva Ardhitio		0,0	0,0	25,0	0,0	8,3		0,0	0,0	0,0	0,0	0,0	0,0			K

Dosen



Yulvi Zaika

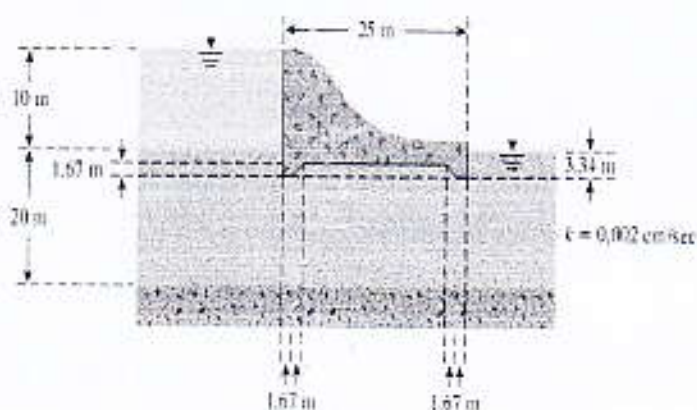


Mata Ujian : Mekanika Tanah I      Dosen : Tim Dosen Mekanika Tanah I  
Tanggal : 15 Juni 2017      Waktu : 80 menit  
Jurusan : Teknik Sipil      Sifat : Tutup buku

1. Jika tanah berbutir kasar memiliki berat isi  $20.45 \text{ kN/m}^3$  pada kadar air  $20\%$  dan  $G_s=2.68$  tentukan (a) angka pori (b) relative density bila  $e_{\max}=0.85$  dan  $e_{\min}=0.42$ .  
(Ctt:  $e=V_v/V_s$ ;  $\omega=W_w/W_s$ ;  $\gamma=W/V$ ;  $G_s=\gamma_s/\gamma_w$ ;  $\gamma_w=9.8 \text{ kN/m}^3$ ;  $D_r=(e_{\max}-e)/(e_{\max}-e_{\min})$ )
2. Hasil uji triaxial pada tiga sample yang dibebani sampai mengalami keruntuhan ditunjukkan dalam tabel berikut ini. Tentukan parameter kuat geser tanah tersebut

Sample No	Tekanan Cell ( $\sigma_3$ ) (kN/m <sup>2</sup> )	Tegangan Deviator saat runtuh ( $\Delta\sigma$ ) (kN/m <sup>2</sup> )
1	69	276
2	136	328
3	207	359

3. Diketahui struktur dam seperti tergambar, tentukan :  
(a) Gambarkan flownet dan hitung  $q$  dalam  $\text{m}^3/\text{day}/\text{m}$   
(b) Berdasarkan gambar flownet tersebut hitung uplift force pada dasar struktur dam tsb per meter panjang dam.



$$q = k \frac{N_f}{N_d} h$$

$$U = \gamma_w \cdot (\text{luas diagram tegangan di bawah bendung}). (1)$$

$q =$




**DAFTAR NILAI PRAKTIKUM MEKANIKA TANAH I**

Kode Mata Kuliah : TKS4014 Kelas : A2  
Jurusan : T. SIPIL PS. SELURUH PRODI Ruang :  
TahunAjaran : 2016/2017 Hari/Tgl :  
Semester : Genap Peserta : 24  
Jam : - Mata Kuliah : Mekanika Tanah I  
DosenKetua : Dr.Eng. Yulvi Zaika, ST., MT.

NO	NAMA	NIM	NILAI
			AKHIR
1	ADELLA DWI NAURA ZAH	135060100111028	73.6
2	DWIT SAFARI CITY	135060101111032	68.25
3	YOPI ADI PRAYOGA	135060101111039	72.2
4	MUHAMMAD RIZAL ALFADIN	135060101111058	68.25
5	FIKRI ARIFUDDIN H	135060107111023	69.5
6	FARLY ANDHARESHI	155060100111019	69.25
7	AFIF ZUHAIR BESTARI	155060100111021	83.4
8	BAGUS AKBAR MAULANA	155060100111023	72.1
9	MUHAMMAD FIQIH ILHAM ABDILAH	155060100111029	79.15
10	GHEA NABILA ADINDA MAHARANI	155060100111031	76.15
11	ANNISA WIDIA KIREINA	155060100111047	78.75
12	HARITS HANIF RAHADYAN	155060101111021	74.85
13	YUFI MAGHFIRA HASANTI	155060101111023	76.15
14	ARDYA PERDANI IKA SARI	155060101111026	66.1
15	BADI' AUSHAF LUTHFIYAH RAMADHINI	155060101111027	77.4
16	AGATHA LEONIE CORITSA	155060101111029	72
17	MUHAMMAD IQBAAL HIDAYAT JATI	155060101111031	76.5
18	GEDE ARYA OKA WIBAWA	155060101111033	77.9
19	DIAN RAHMAWATI	155060101111035	73.15
20	RAKHA SJAPUTRA	155060101111037	70.6
21	FAJRI KURNIAWAN	155060101111039	70.15
22	ANANTA DZAKY WICAKSONO	155060107111009	69.15
23	KHARISMA TRIA MAHARANI	155060107111015	74.85
24	REY DAVID BRIA SERAN	155060107111027	68.9

NB: Mahasiswa dengan kode bintang (\*) tidak mengumpulkan laporan praktikum geologi

Malang, 22 Juni 20167

  
**Eko Andi Suryo, ST., MT., Ph. D**  
NIP. 19761023 200604 1 002