

LABORATORIUM MEKANIKA TANAH
JURUSAN SIPIL FAKULTAS TEKNIK
UNIVERSITAS LAMPUNG

Jln. Soemantri Brojonegoro No. 1 Bandar Lampung



PENGUJIAN KUAT TEKAN BEBAS (UCS)

Proyek : Tugas Akhir Mahasiswa S1
 Lokasi : Laboratorium Mekanika Tanah Unila
 Sampel : Uji Kuat Tekan Bebas *Standard* Sample Ke Tiga

Diperiksa : Pembimbing I : Ir. Setyanto, M.T.
 Pembimbing II : Iswan, S.T, M.T.

Tanggal :

| Regangan | | Beban | | | Luas | | Tegangan |
|----------------|--------------|----------------|------------------|------------|---------------|-------------------------------------|----------|
| Pembacaan Dial | Regangan (%) | Pembacaan Dial | Kalibrasi cincin | Beban (kg) | Angka Koreksi | Luas Terko reksi (cm ²) | |
| 0.00 | 0.00 | 0.000 | 0.464 | 0.000 | 1.000 | 9.621 | 0.000 |
| 0.35 | 0.50 | 0.008 | 0.464 | 0.037 | 1.005 | 9.669 | 0.004 |
| 0.70 | 1.00 | 0.012 | 0.464 | 0.056 | 1.010 | 9.718 | 0.006 |
| 1.40 | 2.00 | 0.020 | 0.464 | 0.093 | 1.020 | 9.817 | 0.009 |
| 2.10 | 3.00 | 0.032 | 0.464 | 0.148 | 1.031 | 9.919 | 0.015 |
| 2.80 | 4.00 | 0.047 | 0.464 | 0.218 | 1.042 | 10.022 | 0.022 |
| 3.50 | 5.00 | 0.062 | 0.464 | 0.288 | 1.063 | 10.127 | 0.028 |
| 4.20 | 6.00 | 0.091 | 0.464 | 0.422 | 1.064 | 10.235 | 0.041 |
| 4.90 | 7.00 | 0.109 | 0.464 | 0.506 | 1.075 | 10.345 | 0.049 |
| 5.60 | 8.00 | 0.125 | 0.464 | 0.580 | 1.087 | 10.458 | 0.055 |
| 6.30 | 9.00 | 0.143 | 0.464 | 0.664 | 1.099 | 10.573 | 0.063 |
| 7.00 | 10.00 | 0.159 | 0.464 | 0.738 | 1.111 | 10.690 | 0.069 |
| 7.70 | 11.00 | 0.147 | 0.464 | 0.682 | 1.124 | 10.810 | 0.063 |
| 8.40 | 12.00 | 0.142 | 0.464 | 0.659 | 1.136 | 10.933 | 0.060 |
| 9.10 | 13.00 | | 0.464 | | 1.149 | 11.059 | |
| 9.80 | 14.00 | | 0.464 | | 1.163 | 11.187 | |
| 10.50 | 15.00 | | 0.464 | | 1.176 | 11.319 | |
| 11.20 | 16.00 | | 0.464 | | 1.190 | 11.454 | |
| 11.90 | 17.00 | | 0.464 | | 1.205 | 11.592 | |
| 12.60 | 18.00 | | 0.464 | | 1.220 | 11.733 | |
| 13.30 | 19.00 | | 0.464 | | 1.235 | 11.878 | |
| 14.00 | 20.00 | | 0.464 | | 1.250 | 12.026 | |

| Berat Isi | | | Kadar Air | | |
|---------------------|----------|--------------------|-------------------------|---------|----|
| Diameter contoh (D) | : 3.5 | cm | B.contoh basah + cawan | : 30.2 | gr |
| Tinggi contoh (H) | : 7 | cm | B.contoh kering + cawan | : 25.2 | gr |
| Luas Semula (A) | : 9.621 | cm ² | Berat cawan | : 7.95 | gr |
| Volume (V) | : 67.35 | cm ³ | Berat Air | : 5 | gr |
| Berat sampel | : 125.10 | gr | Berat contoh kering | : 17.25 | gr |
| Berat Volume | : 1.86 | gr/cm ³ | Kadar air | : 28.99 | % |

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