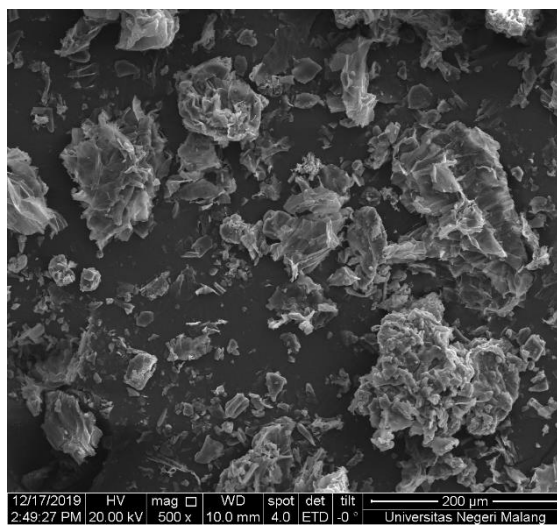
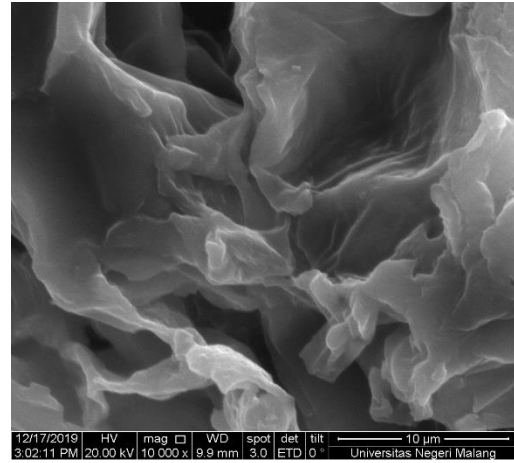
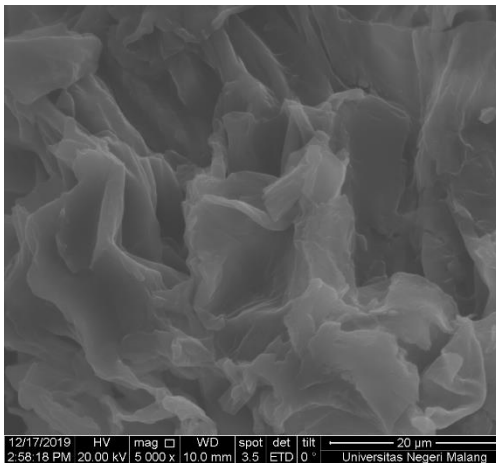
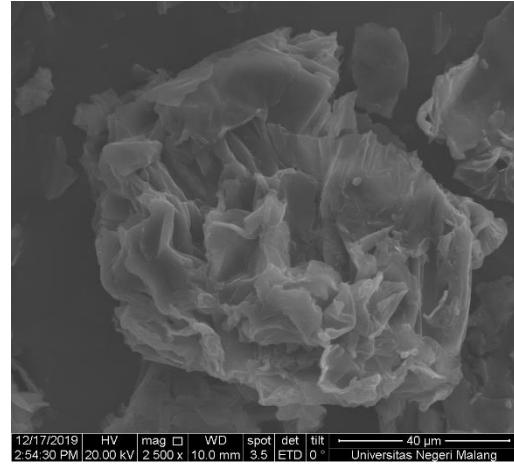
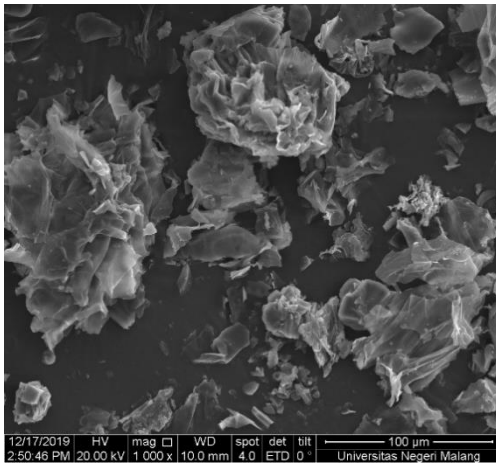


## LAMPIRAN

### Lampiran 1 : Foto sampel Uji SEM EDX



Lampiran 2 : Foto sampel uji kadar air



Kadar air 10%



Kadar air 10%



Kadar air 10%



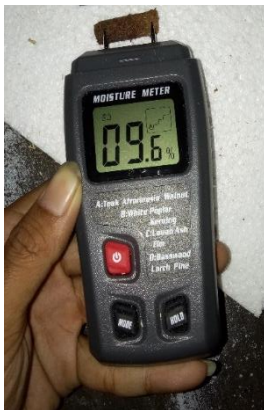
Kadar air 20%



Kadar air 20%



Kadar air 20%



Kadar air 5%



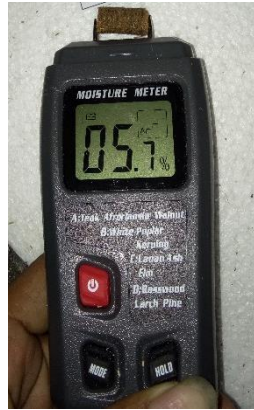
Kadar air 5%



Kadar air 5%



Kadar air tanpa perekat



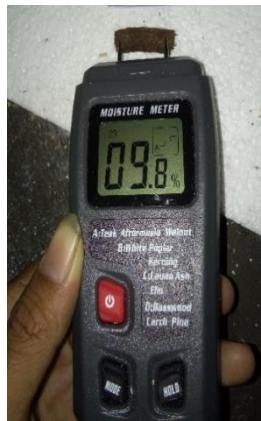
Kadar air tanpa perekat



Kadar air tanpa perekat



Kadar air 30%



Kadar air 30%



Kadar air 30%



lampiran 3 : Foto sampel uji kadar abu



Kadar abu tanpa perekat



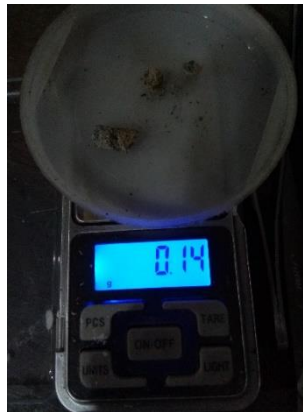
Kadar abu tanpa perekat



Kadar abu tanpa perekat



Kadar abu 5%



Kadar abu 5%



Kadar abu 5%



Kadar abu 10%



Kadar abu 10%



Kadar abu 10%



Kadar abu 30%



Kadar abu 30%



Kadar abu 30%



Kadar abu 20%

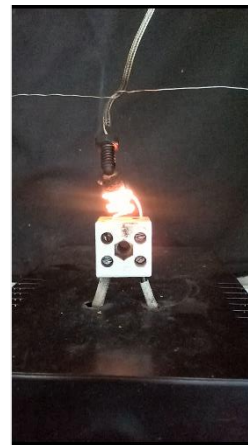


Kadar abu 20%



Kadar abu 20%

Lampiran 4 : Dokumentasi kegiatan penelitian







UNIVERSITAS NEGERI MALANG  
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM  
LABORATORIUM MINERAL DAN MATERIAL MAJU (LABORATORIUM SENTRAL)

Jalan Semarang 5, Malang 65145  
Telp. 0341-551312 (psw 200) 574895/ 085106001088  
E-mail : laboratoriumsentralum@yahoo.co.id  
Website : central-laboratory.um.ac.id

**LAPORAN HASIL UJI**  
**LSUM.LHU.B.00755.2019**

Customers : Danan Aditia Prayuda / ITN Malang  
Contact Customer : 085856743677 / email : dananaditia@gmail.com  
Methods : IKM.B  
Test Equipment : SEM- EDX  
Received Date : 19 November 2019  
Order Number : LHU.P.01233.2019

**SPECIMEN DESCRIPTION**

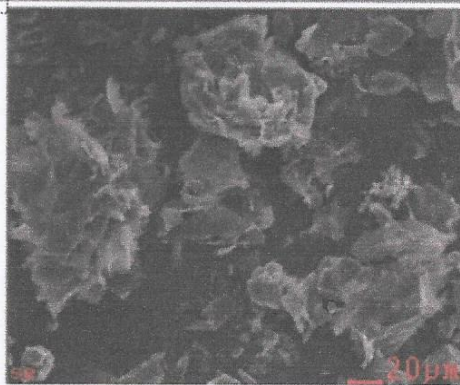
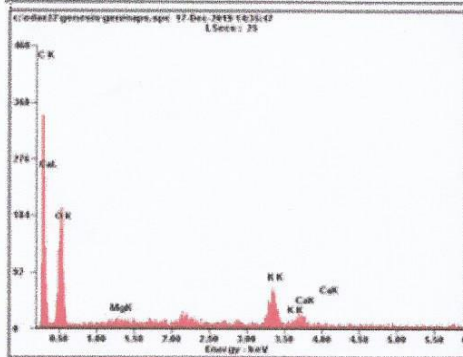
Condition of Samples : Sampel berbentuk serbuk halus warna coklat dalam plastik klip  
Sample Code : B816  
Material Name : Kulit buah kapuk  
Measurement time : 17 Desember 2019

**OPERATOR, ANALYZER & SUPERVISOR**

Analyzer : Halimahtus Sahdiah, S.Si  
Supervisor : Nandang Mufti, S.Si, M.T, Ph.D

**RESULTS**

Remark :



Element
C
O
Mg
K
Ca

Hasil analisa hanya berlaku untuksampel yang diuji

Mengetahui,  
Manajer Teknis

Dra.Surjani Wonorahardjo, Ph.D.  
NIP.196605281991032001

Malang, 19 Desember 2019

Menyetujui  
a.n Dekan

Kepala Lab. Mineral dan Material Maju FMIPA UM



Nandang Mufti, S.Si, M.T, Ph.D  
NIP. 197208152005011001





UNIVERSITAS NEGERI MALANG  
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM  
**LABORATORIUM MINERAL DAN MATERIAL MAJU (LABORATORIUM SENTRAL)**

Jalan Semarang 5, Malang 65145  
Telp. 0341-551312 (psw 200) / 574895 / 085106001088  
E-mail : [laboratoriumsentralum@yahoo.co.id](mailto:laboratoriumsentralum@yahoo.co.id)  
Website : [central-laboratory.um.ac.id](http://central-laboratory.um.ac.id)

**LAPORAN HASIL UJI**  
**LSUM.LHU.F.00830.2019**

**Customers** : Danan A. P. – ITN Malang  
**Contact Customer** : 085856743677 / email : [dananaditya@gmail.com](mailto:dananaditya@gmail.com)  
**Methods** : IK.F.1  
**Test Equipment** : FT IR  
**Received Date** : 19 November 2019  
**Order Number** : LHU.P.01233.2019

**SPECIMEN DESCRIPTION**

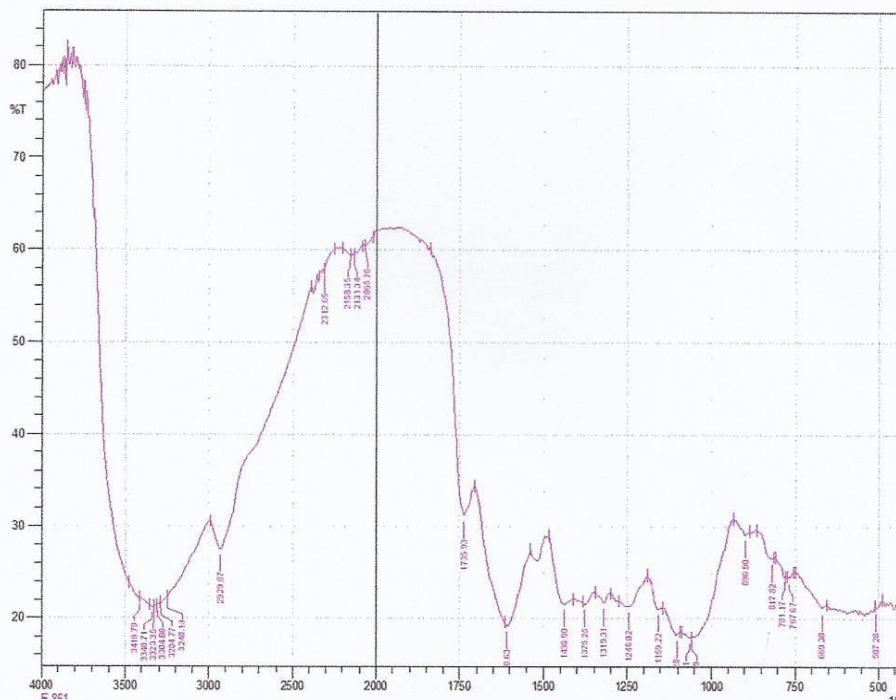
**Condition of Samples** : Sampel serbuk coklat dalam plastik  
**Sample Code** : F 861  
**Material Name** : Kulit buah kapuk  
**Measurement time** : Desember 10, 2019

**OPERATOR, ANALYZER & SUPERVISOR**

**Analyzer** : Mailinda A.H., S.Si  
**Supervisor** : Dra. Surjani Wonorahardjo, Ph.D.

**RESULTS**

Remark :



\*Hasil analisa hanya berlaku untuk sampel yang diuji

Mengetahui,  
Manajer Teknis

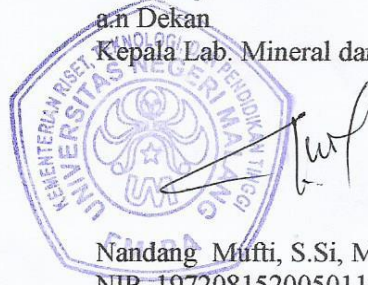
Dra. Surjani Wonorahardjo, Ph.D.  
NIP. 196605281991032001

Malang, 16 Desember 2019

Menyetujui

a.n Dekan

Kepala Lab. Mineral dan Material Maju FMIPA UM



Nandang Mufti, S.Si, M.T, Ph.D.  
NIP. 197208152005011001