

LAMPIRAN-LAMPIRAN

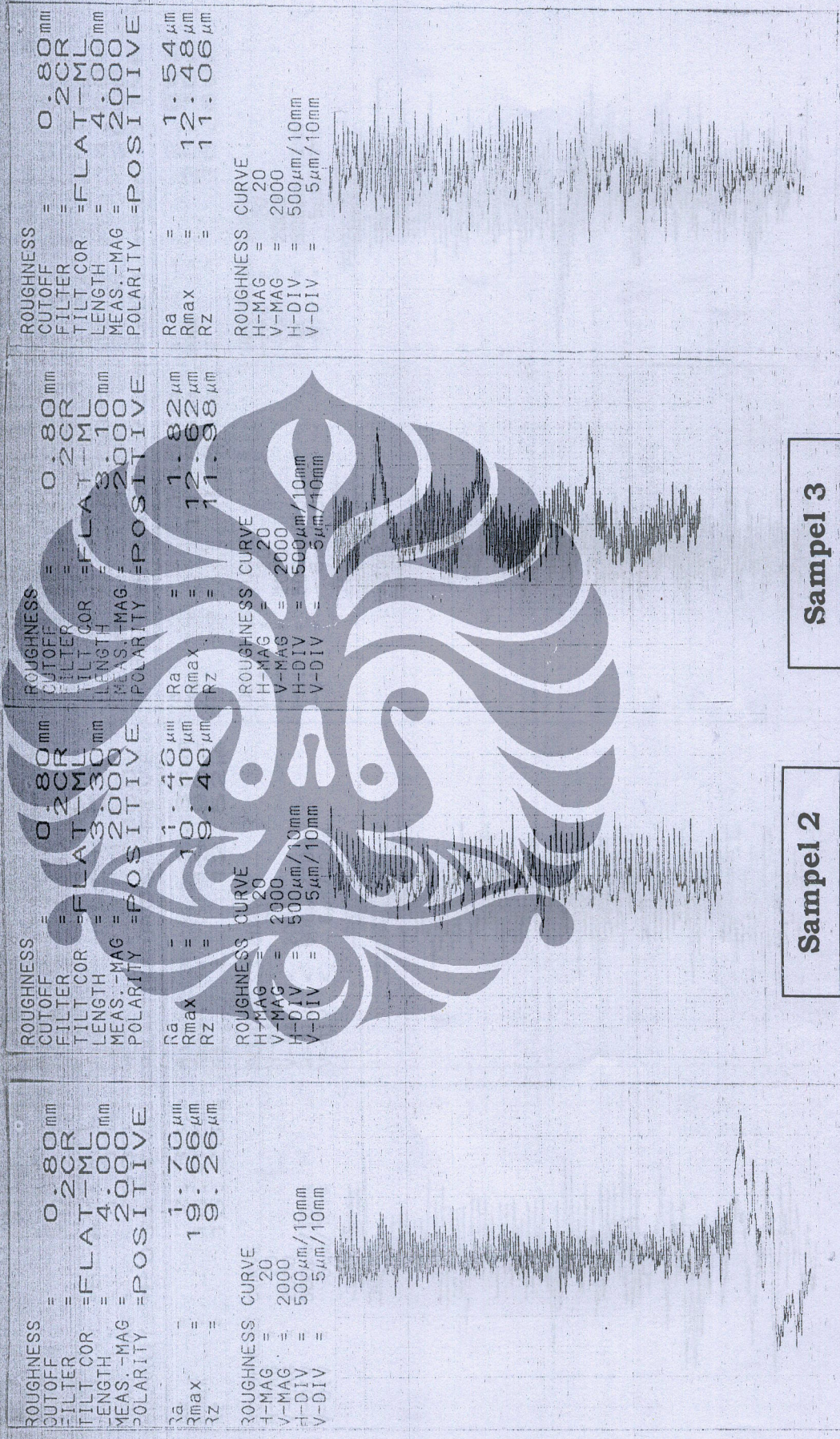
MATLAB PROGRAMMING

```
%PROGRAM PLOT 2D KEKASARAN PERMUKAN  
%TESIS S2 SMO-DTM FTUI  
%GATOT EKA PRAMONO NPM 0706173061
```

```
G = imread('c:\sampel2.9mikron.jpg'); I=G(:,:,2);%membaca file  
gambar dan mengambil 1 layer warna yaitu hijau  
x = [0 1024];%membatasi koordinat x =0 sampai dengan x=1024  
y = [512 512];%membatasi nilai y pada baris 512  
figure,improfile(I,x,y),grid on;%mempolot nilai dari baris tengah
```

```
%PROGRAM PLOT 3D KEKASARAN PERMUKAN  
%TESIS S2 SMO-DTM FTUI  
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```

```
G = imread('c:\sampel2.9mikron.jpg'); I=G(:,:,2);%membaca file  
gambar dan mengambil 1 layer warna yaitu hijau  
[X, map] = gray2ind(I, 256); %merubah intensity image menjadi  
indexed image 256 level  
C=imresize(X,[256 256]);%merubah ukuran image agar mudah di proses  
di matlab  
figure, imshow (C)  
[A,B] = meshgrid(1:256,1:256);%membuat meshgrid dengan ukuran yang  
sama dengan ukuran image  
figure,contour3(A,B,C,30) %membuat contour 3 dimensi dari image  
surface(A,B,C,'EdgeColor',[.8 .8 .8],'FaceColor','none')%membuat  
surface dari image  
grid on  
view(-15,25)%sudut pandang dari figure  
colormap jet %tipe dari colormap yang digunakan adalah jet
```



Sampel 4

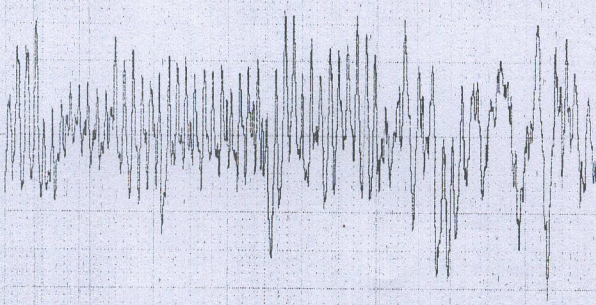
Sampel 3

Sampel 2

Sampel 1

ROUGHNESS = 0.80mm
 CUTOFF = 0.2CR
 FILTER = FLAT-ML
 TILT COR = 4.000mm
 LENGTH = 2.000
 MEAS.-MAG = POSITIVE
 Ra = 2.38 μ m
 Rmax = 18.32 μ m
 Rz = 15.26 μ m

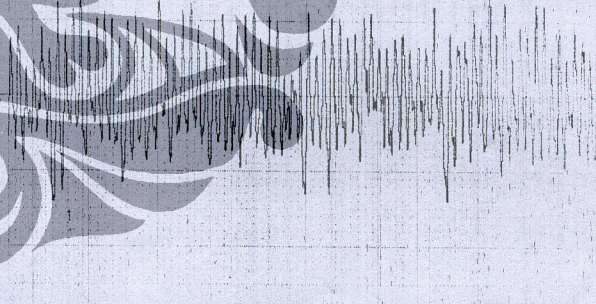
ROUGHNESS CURVE
 H-MAG = 20
 V-MAG = 2000
 H-DIV = 500 μ m/10mm
 V-DIV = 5 μ m/10mm



Sampel 5

ROUGHNESS = 0.80mm
 CUTOFF = 0.2CR
 FILTER = FLAT-ML
 TILT COR = 4.000mm
 LENGTH = 2.000
 MEAS.-MAG = POSITIVE
 Ra = 2.36 μ m
 Rmax = 13.95 μ m
 Rz = 11.2 μ m

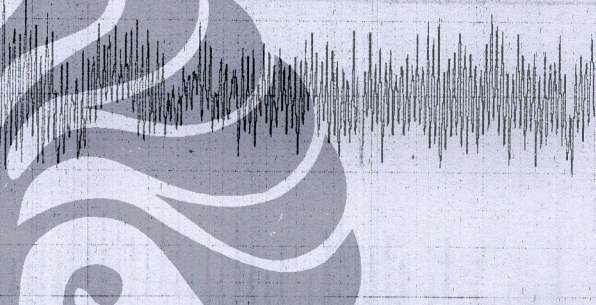
ROUGHNESS CURVE
 H-MAG = 20
 V-MAG = 2000
 H-DIV = 500 μ m/10mm
 V-DIV = 5 μ m/10mm



Sampel 6

ROUGHNESS = 0.80mm
 CUTOFF = 0.2CR
 FILTER = FLAT-ML
 TILT COR = 4.000mm
 LENGTH = 2.000
 MEAS.-MAG = POSITIVE
 Ra = 1.64 μ m
 Rmax = 11.88 μ m
 Rz = 9.80 μ m

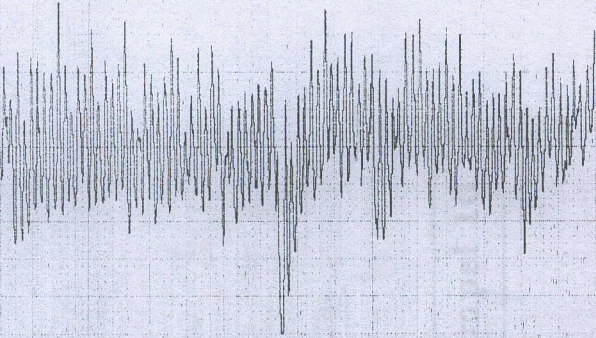
ROUGHNESS CURVE
 H-MAG = 20
 V-MAG = 2000
 H-DIV = 500 μ m/10mm
 V-DIV = 5 μ m/10mm



Sampel 7

ROUGHNESS = 0.80mm
 CUTOFF = 0.2CR
 FILTER = FLAT-ML
 TILT COR = 4.000mm
 LENGTH = 2.000
 MEAS.-MAG = POSITIVE
 Ra = 2.68 μ m
 Rmax = 23.10 μ m
 Rz = 16.80 μ m

ROUGHNESS CURVE
 H-MAG = 20
 V-MAG = 2000
 H-DIV = 500 μ m/10mm
 V-DIV = 5 μ m/10mm



Sampel 8

ROUGHNESS = 0.80 mm
FILTER = 2.0 CR
TILT COR = FLAT 3.80 mm
LENGTH = 2.000
EAS. -MAG = POSITIVE
POLARITY = POSITIVE
Z = 4.048 μ m
max = 27.06 μ m
Z

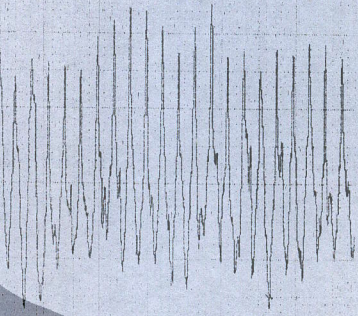
ROUGHNESS CURVE
-MAG = 20
-MAG = 2000
-DIV = 500 μ m/10mm
-DIV = 5 μ m/10mm



Sampel 9

ROUGHNESS = 0.80 mm
FILTER = 2.0 CR
TILT COR = FLAT 4.00 mm
LENGTH = 2.000
EAS. -MAG = POSITIVE
POLARITY = POSITIVE
Z = 3.44 μ m
max = 20.24 μ m
Z

ROUGHNESS CURVE
-MAG = 20
-MAG = 2000
-DIV = 500 μ m/10mm
-DIV = 5 μ m/10mm



Sampel 10