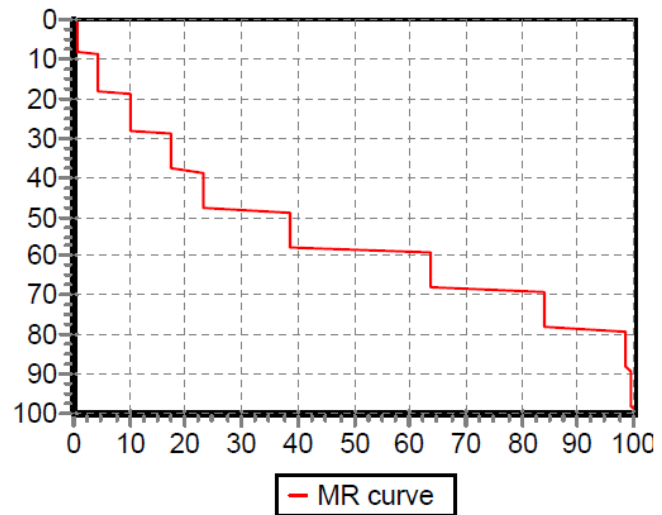


## LAMPIRAN

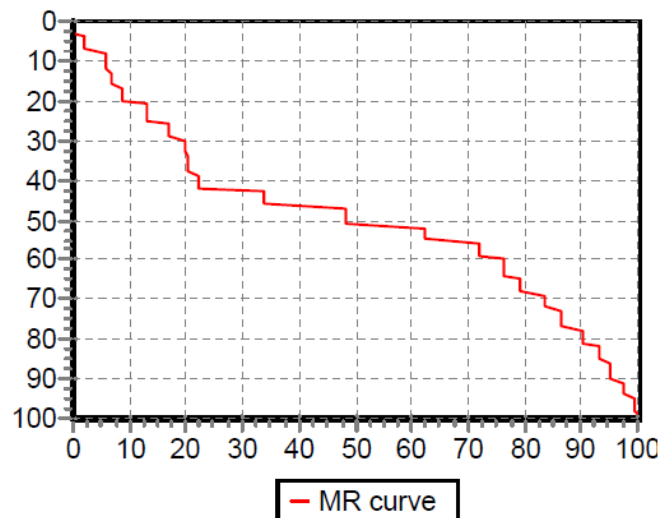
Lampiran 1 hasil uji kekasaran spesimen variasi waktu 40 pertama.

$R_a = 0.037 \text{ } \mu\text{m}$   
 $R_{3z} = 0.076 \text{ } \mu\text{m}$   
 $R_v = 0.101 \text{ } \mu\text{m}$   
 $R_p = 0.151 \text{ } \mu\text{m}$   
 $R_t = 0.252 \text{ } \mu\text{m}$   
 $R_z = 0.252 \text{ } \mu\text{m}$   
 $R_S = 0.023 \text{ mm}$   
 $R_{sk} = 1.278$   
 $R_{Sm} = 0.050 \text{ mm}$   
 $R_q = 0.051 \text{ } \mu\text{m}$   
 $R_{zJIS} = 0.101 \text{ } \mu\text{m}$   
 $R_{3y} = 0.076 \text{ } \mu\text{m}$   
 $R_{ku} = 3.444$



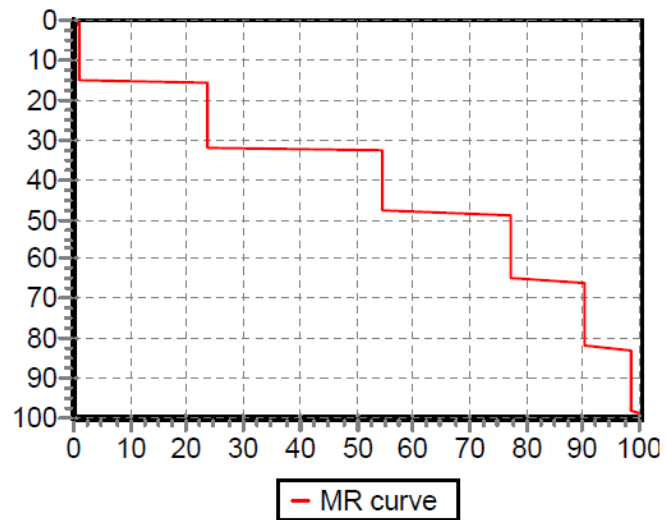
Lampiran 2 hasil uji kekasaran spesimen variasi waktu 40 menit kedua.

$R_a = 0.092 \text{ } \mu\text{m}$   
 $R_{3z} = 0.076 \text{ } \mu\text{m}$   
 $R_v = 0.302 \text{ } \mu\text{m}$   
 $R_p = 0.277 \text{ } \mu\text{m}$   
 $R_t = 0.580 \text{ } \mu\text{m}$   
 $R_z = 0.580 \text{ } \mu\text{m}$   
 $R_S = 0.059 \text{ mm}$   
 $R_{sk} = -0.330$   
 $R_{Sm} = 0.063 \text{ mm}$   
 $R_q = 0.124 \text{ } \mu\text{m}$   
 $R_{zJIS} = 0.176 \text{ } \mu\text{m}$   
 $R_{3y} = 0.076 \text{ } \mu\text{m}$   
 $R_{ku} = 2.857$



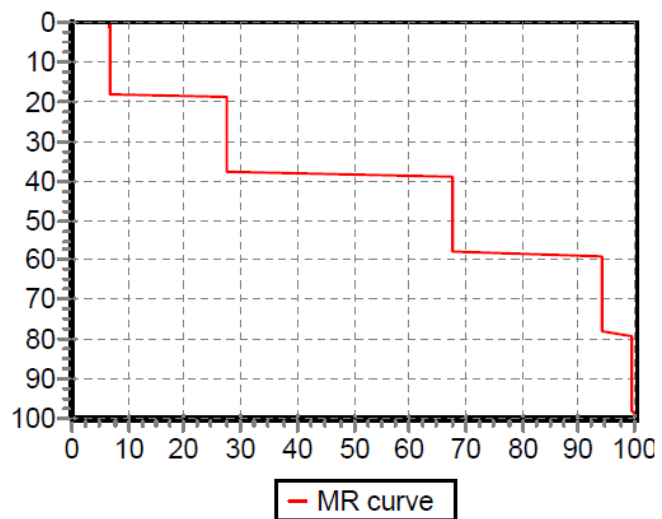
Lampiran 3 hasil uji kekasaran spesimen variasi waktu 40 menit ketiga.

$R_a = 0.028 \text{ } \mu\text{m}$   
 $R_{3z} = 0.050 \text{ } \mu\text{m}$   
 $R_v = 0.076 \text{ } \mu\text{m}$   
 $R_p = 0.076 \text{ } \mu\text{m}$   
 $R_t = 0.151 \text{ } \mu\text{m}$   
 $R_z = 0.151 \text{ } \mu\text{m}$   
 $R_S = 0.020 \text{ mm}$   
 $R_{sk} = 0.472$   
 $R_{Sm} = 0.050 \text{ mm}$   
 $R_q = 0.034 \text{ } \mu\text{m}$   
 $R_{zJIS} = 0.076 \text{ } \mu\text{m}$   
 $R_{3y} = 0.050 \text{ } \mu\text{m}$   
 $R_{ku} = 2.036$



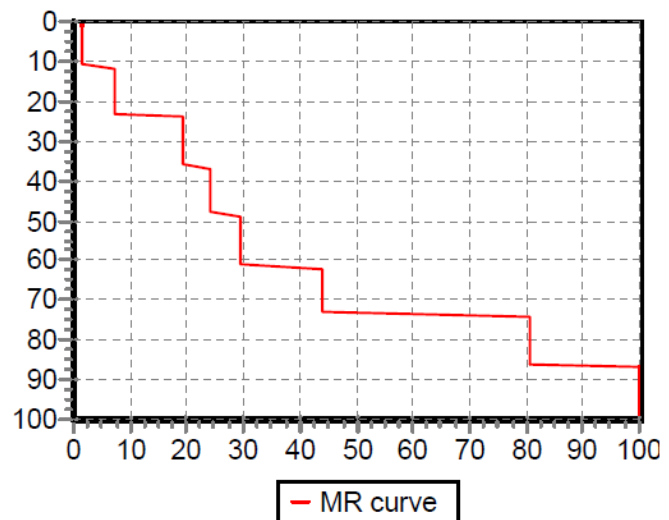
Lampiran 4 hasil uji kekasaran spesimen variasi waktu 40 menit keempat.

$R_a = 0.018 \text{ } \mu\text{m}$   
 $R_{3z} = 0.076 \text{ } \mu\text{m}$   
 $R_v = 0.076 \text{ } \mu\text{m}$   
 $R_p = 0.050 \text{ } \mu\text{m}$   
 $R_t = 0.126 \text{ } \mu\text{m}$   
 $R_z = 0.126 \text{ } \mu\text{m}$   
 $R_S = 0.021 \text{ mm}$   
 $R_{sk} = -0.088$   
 $R_{Sm} = 0.031 \text{ mm}$   
 $R_q = 0.025 \text{ } \mu\text{m}$   
 $R_{zJIS} = 0.076 \text{ } \mu\text{m}$   
 $R_{3y} = 0.076 \text{ } \mu\text{m}$   
 $R_{ku} = 2.862$



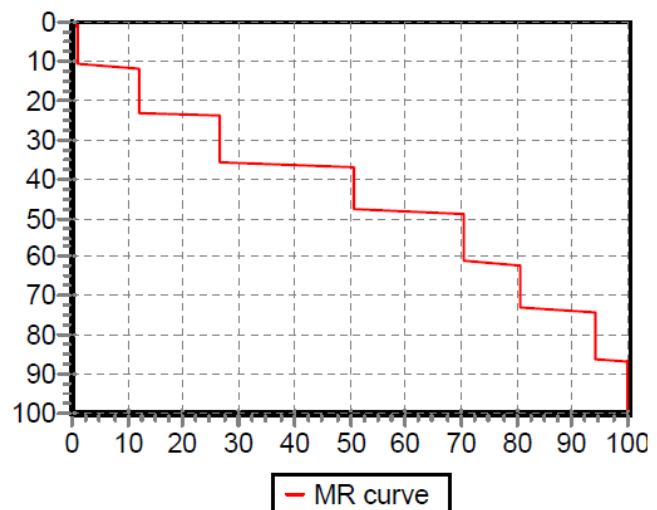
Lampiran 5 hasil uji kekasaran spesimen variasi waktu 40 menit kelima.

$R_a = 0.039 \text{ } \mu\text{m}$   
 $R_{3z} = 0.101 \text{ } \mu\text{m}$   
 $R_v = 0.076 \text{ } \mu\text{m}$   
 $R_p = 0.126 \text{ } \mu\text{m}$   
 $R_t = 0.202 \text{ } \mu\text{m}$   
 $R_z = 0.202 \text{ } \mu\text{m}$   
 $R_S = 0.012 \text{ mm}$   
 $R_{sk} = 1.006$   
 $R_{Sm} = 0.050 \text{ mm}$   
 $R_q = 0.049 \text{ } \mu\text{m}$   
 $R_{zJIS} = 0.101 \text{ } \mu\text{m}$   
 $R_{3y} = 0.101 \text{ } \mu\text{m}$   
 $R_{ku} = 2.693$



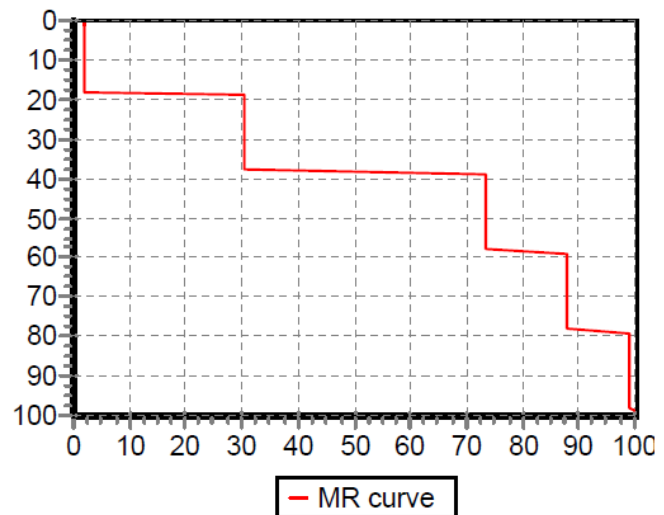
Lampiran 6 hasil uji kekasaran spesimen variasi waktu 60 menit pertama.

$R_a = 0.037 \text{ } \mu\text{m}$   
 $R_{3z} = 0.076 \text{ } \mu\text{m}$   
 $R_v = 0.101 \text{ } \mu\text{m}$   
 $R_p = 0.101 \text{ } \mu\text{m}$   
 $R_t = 0.202 \text{ } \mu\text{m}$   
 $R_z = 0.202 \text{ } \mu\text{m}$   
 $R_S = 0.016 \text{ mm}$   
 $R_{sk} = 0.406$   
 $R_{Sm} = 0.063 \text{ mm}$   
 $R_q = 0.045 \text{ } \mu\text{m}$   
 $R_{zJIS} = 0.101 \text{ } \mu\text{m}$   
 $R_{3y} = 0.076 \text{ } \mu\text{m}$   
 $R_{ku} = 2.145$



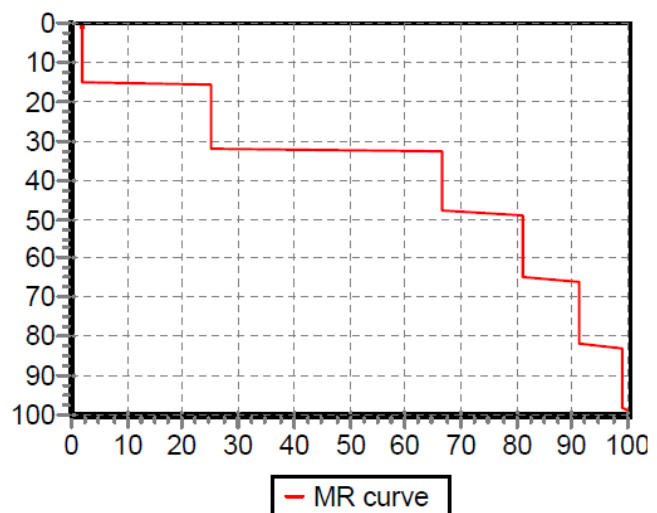
Lampiran 7 hasil uji kekasaran spesimen variasi waktu 60 menit kedua.

$R_a = 0.028 \text{ } \mu\text{m}$   
 $R_{3z} = 0.076 \text{ } \mu\text{m}$   
 $R_v = 0.101 \text{ } \mu\text{m}$   
 $R_p = 0.025 \text{ } \mu\text{m}$   
 $R_t = 0.126 \text{ } \mu\text{m}$   
 $R_z = 0.126 \text{ } \mu\text{m}$   
 $R_S = 0.012 \text{ mm}$   
 $R_{sk} = -1.610$   
 $R_{Sm} = 0.042 \text{ mm}$   
 $R_q = 0.037 \text{ } \mu\text{m}$   
 $R_{zJIS} = 0.076 \text{ } \mu\text{m}$   
 $R_{3y} = 0.076 \text{ } \mu\text{m}$   
 $R_{ku} = 2.993$



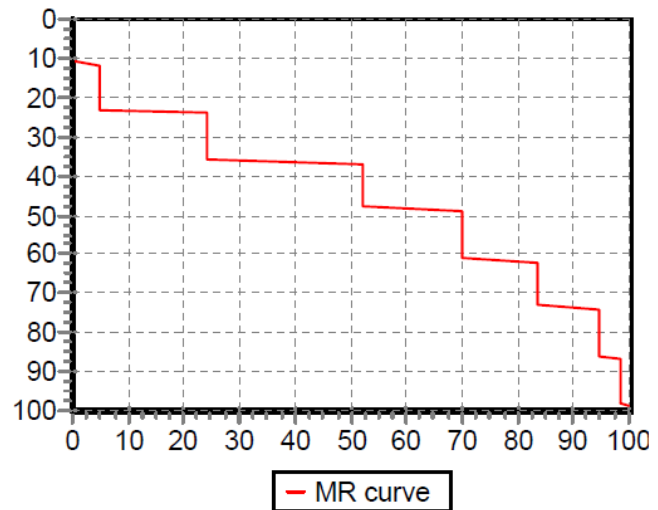
Lampiran 8 hasil uji kekasaran spesimen variasi waktu 60 menit ketiga.

$R_a = 0.022 \text{ } \mu\text{m}$   
 $R_{3z} = 0.076 \text{ } \mu\text{m}$   
 $R_v = 0.101 \text{ } \mu\text{m}$   
 $R_p = 0.050 \text{ } \mu\text{m}$   
 $R_t = 0.151 \text{ } \mu\text{m}$   
 $R_z = 0.151 \text{ } \mu\text{m}$   
 $R_S = 0.019 \text{ mm}$   
 $R_{sk} = -1.440$   
 $R_{Sm} = 0.050 \text{ mm}$   
 $R_q = 0.033 \text{ } \mu\text{m}$   
 $R_{zJIS} = 0.076 \text{ } \mu\text{m}$   
 $R_{3y} = 0.076 \text{ } \mu\text{m}$   
 $R_{ku} = 3.737$



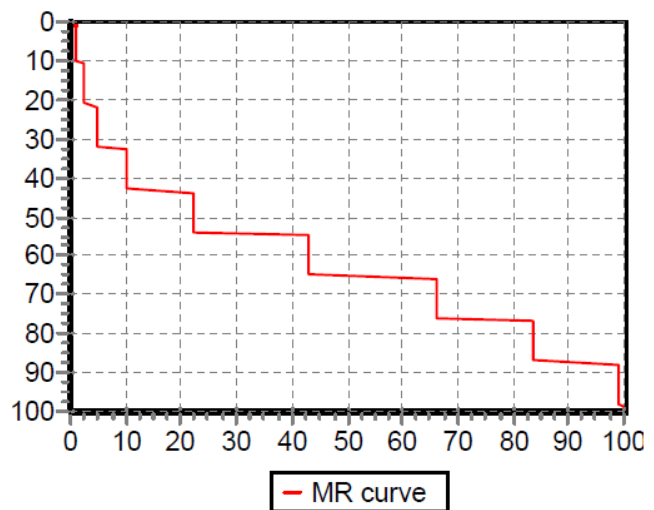
Lampiran 9 hasil uji kekasaran spesimen variasi waktu 60 menit keempat.

$R_a = 0.034 \text{ } \mu\text{m}$   
 $R_{3z} = 0.050 \text{ } \mu\text{m}$   
 $R_v = 0.101 \text{ } \mu\text{m}$   
 $R_p = 0.101 \text{ } \mu\text{m}$   
 $R_t = 0.202 \text{ } \mu\text{m}$   
 $R_z = 0.202 \text{ } \mu\text{m}$   
 $R_S = 0.019 \text{ mm}$   
 $R_{sk} = 0.038$   
 $R_{Sm} = 0.050 \text{ mm}$   
 $R_q = 0.041 \text{ } \mu\text{m}$   
 $R_{zJIS} = 0.101 \text{ } \mu\text{m}$   
 $R_{3y} = 0.050 \text{ } \mu\text{m}$   
 $R_{ku} = 2.321$



Lampiran 10 hasil uji kekasaran spesimen variasi waktu 60 menit kelima.

$R_a = 0.042 \text{ } \mu\text{m}$   
 $R_{3z} = 0.076 \text{ } \mu\text{m}$   
 $R_v = 0.050 \text{ } \mu\text{m}$   
 $R_p = 0.176 \text{ } \mu\text{m}$   
 $R_t = 0.227 \text{ } \mu\text{m}$   
 $R_z = 0.227 \text{ } \mu\text{m}$   
 $R_S = 0.022 \text{ mm}$   
 $R_{sk} = 1.709$   
 $R_{Sm} = 0.063 \text{ mm}$   
 $R_q = 0.055 \text{ } \mu\text{m}$   
 $R_{zJIS} = 0.101 \text{ } \mu\text{m}$   
 $R_{3y} = 0.076 \text{ } \mu\text{m}$   
 $R_{ku} = 3.760$



## Lampiran 17 hasil cek plagiasi naskah tugas akhir

PERBANDINGAN KETAHANAN KOROSI PADA CAST IRON  
UNTUK SPANER TOWER DENGAN PERLAKUAN PELAPISAN  
NICKEL CROME DAN GALVANIS

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Nama Mahasiswa: Eko Rishantono

NIM: 20110130031

Pembimbing 1: Muhammad Budi Nur Rahman, S.T., M.Eng

Pembimbing 2: Rela Adi Himarosa, S.T., M.Eng

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*Eko Rishantono*

Tanda Tangan  
Eko Rishantono

Tanggal 27 Juli 2019

### Persetujuan Dosen Pembimbing dan Program Studi

Disetujui

*Muhammad Budi Nur Rahman*

Tanda Tangan  
Muhammad Budi Nur Rahman, S.T., M.Eng

Tanggal 27 Juli 2019



Tanggal 27 Juli 2019

Formulir persetujuan ini mohon diletakkan pada lampiran terakhir pada naskah TA.