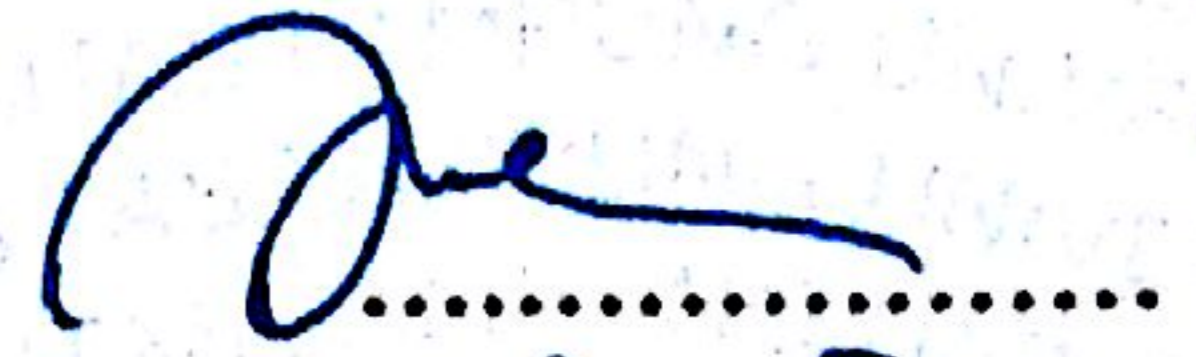


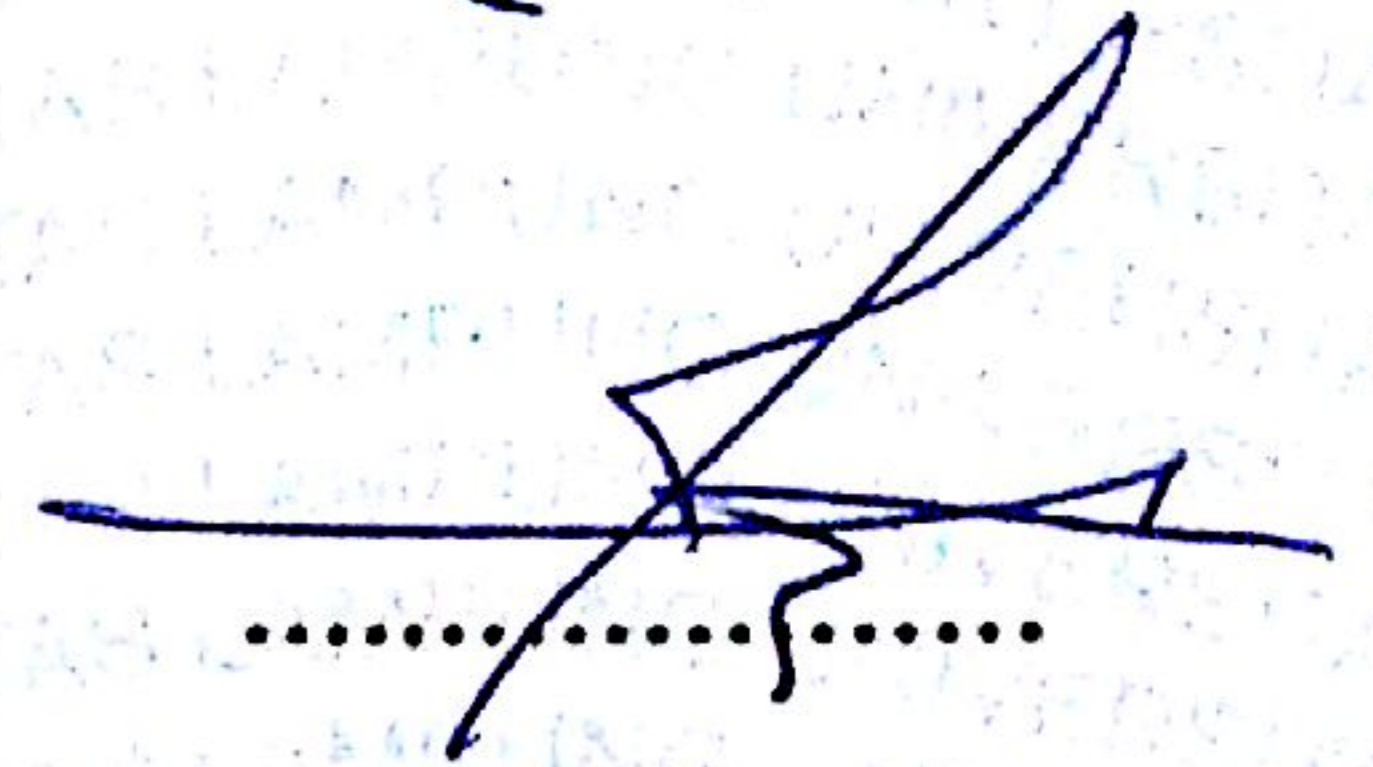
## MENGESAHKAN

### 1. Tim Penguji

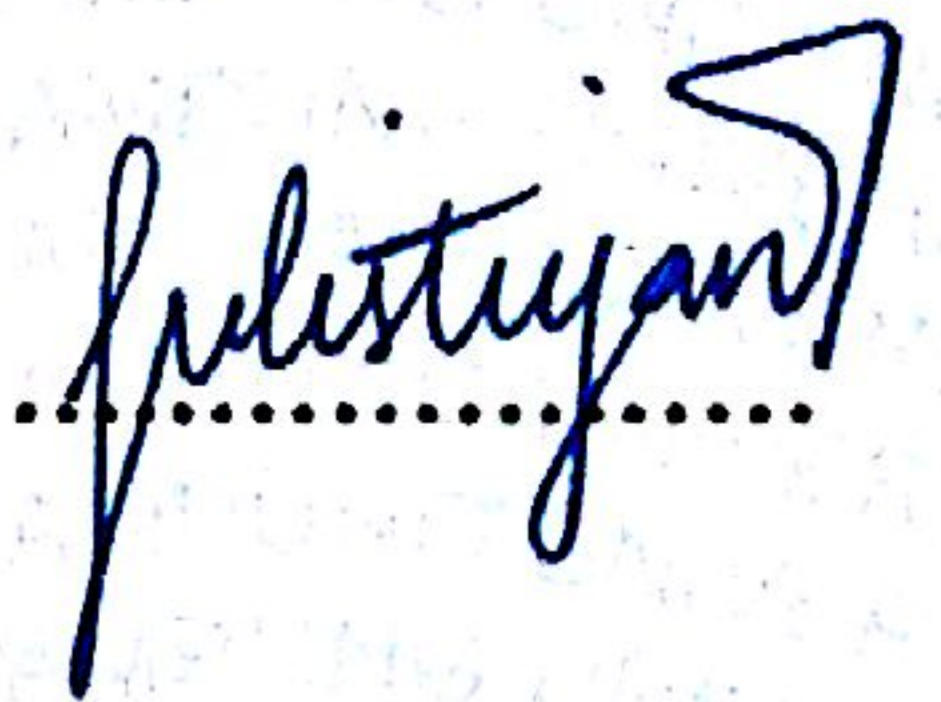
Ketua : **M. Komarudin, M.T.**



Sekretaris : **Ageng Sadnowo R, M.T.**



Penguji  
Bukan Pembimbing : **Dr. Ir. Sri Ratna Sulstiyanti, M.T.**



### 2. Dekan Fakultas Teknik



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**Tanggal Lulus Ujian Skripsi : 13 Agustus 2015**