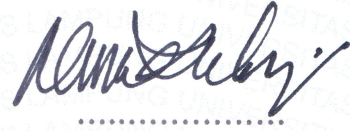


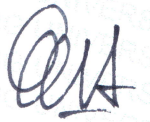
MENGESAHKAN

1. Tim Penguji

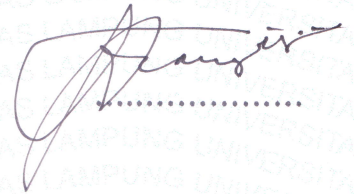
Ketua : Ir. Ahmad Zakaria, M.T., Ph.D.



Sekretaris : Gatot Eko Susilo, S.T., M.Sc., Ph.D.



**Penguji
Bukan Pembimbing : Ir. Geleng Perangin Angin, M.T.**

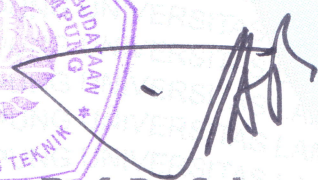


2. Dekan Fakultas Teknik



Prof. Dr. Suharno, M.Sc.

NIP 19620717 198703 1 002



Tanggal Lulus Ujian Skripsi : 10 November 2014