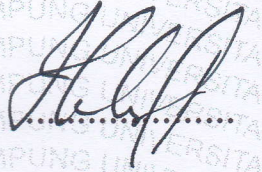


**MENGESAHKAN**

**1. Tim Penguji**

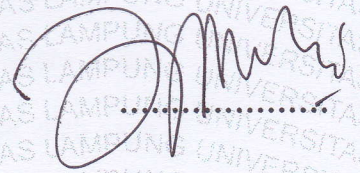
**Ketua**

**: Dr. Eng. Helmy Fitriawan, S.T., M.Sc.**



**Sekretaris**

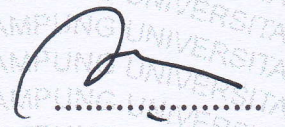
**: Agus Trisanto, Ph.D.**



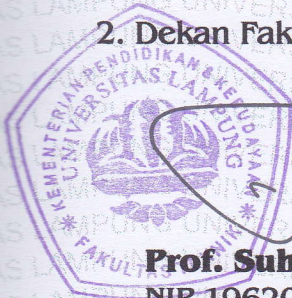
**Penguji**

**Bukan Pembimbing**

**: Muhamad Komarudin, S.T., M.T.**

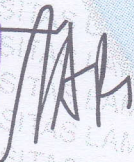


**2. Dekan Fakultas Teknik**



**Prof. Suharno, M.Sc., Ph.D.**

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**Tanggal Lulus Ujian Skripsi : 24 Maret 2015**