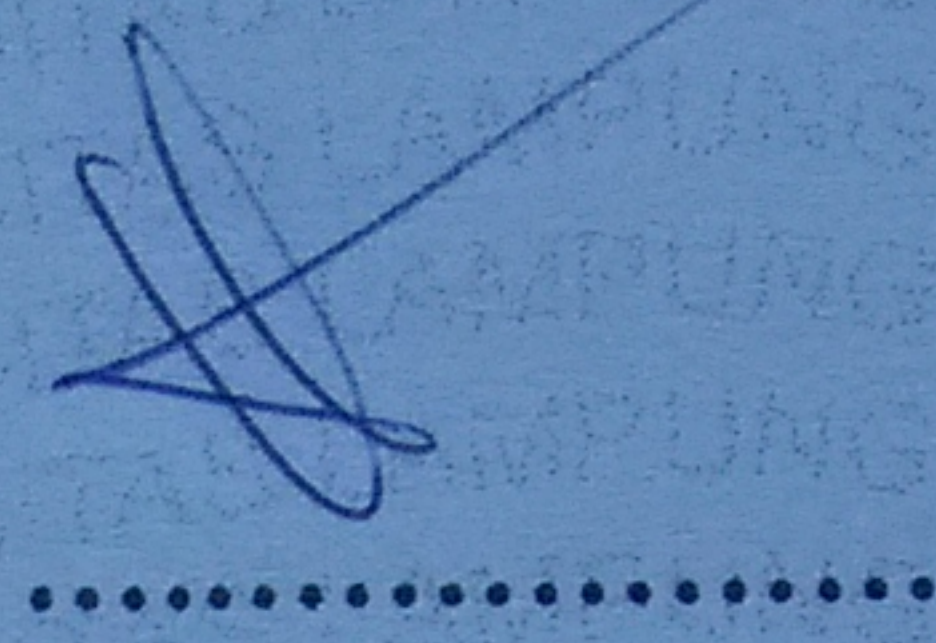


MENGESAHKAN

1. Tim Penguji

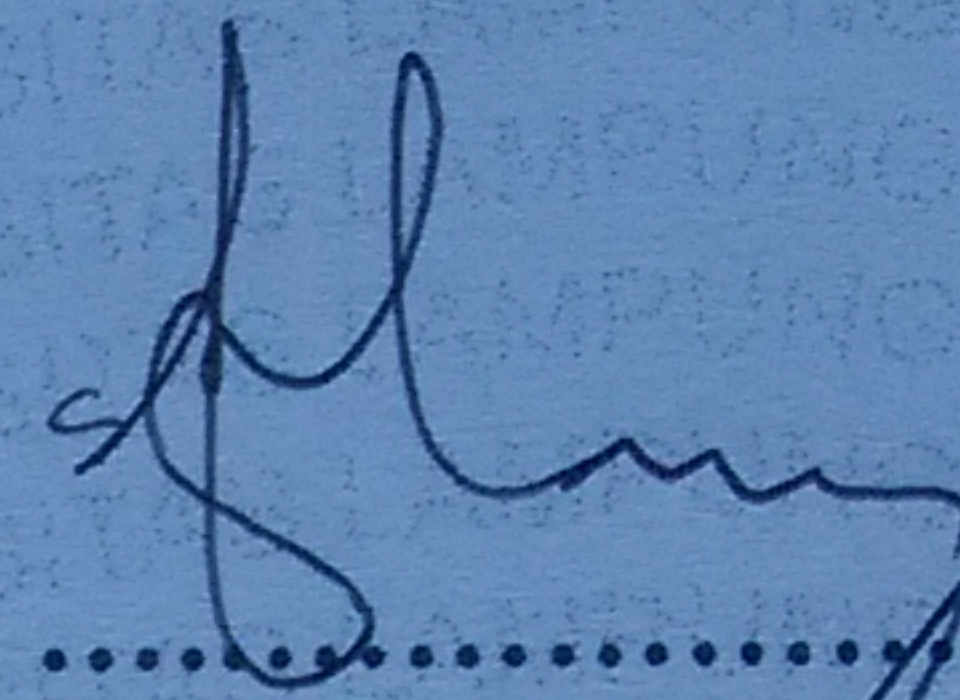
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: **Yulianto Raharjo, S.T., M.T.**



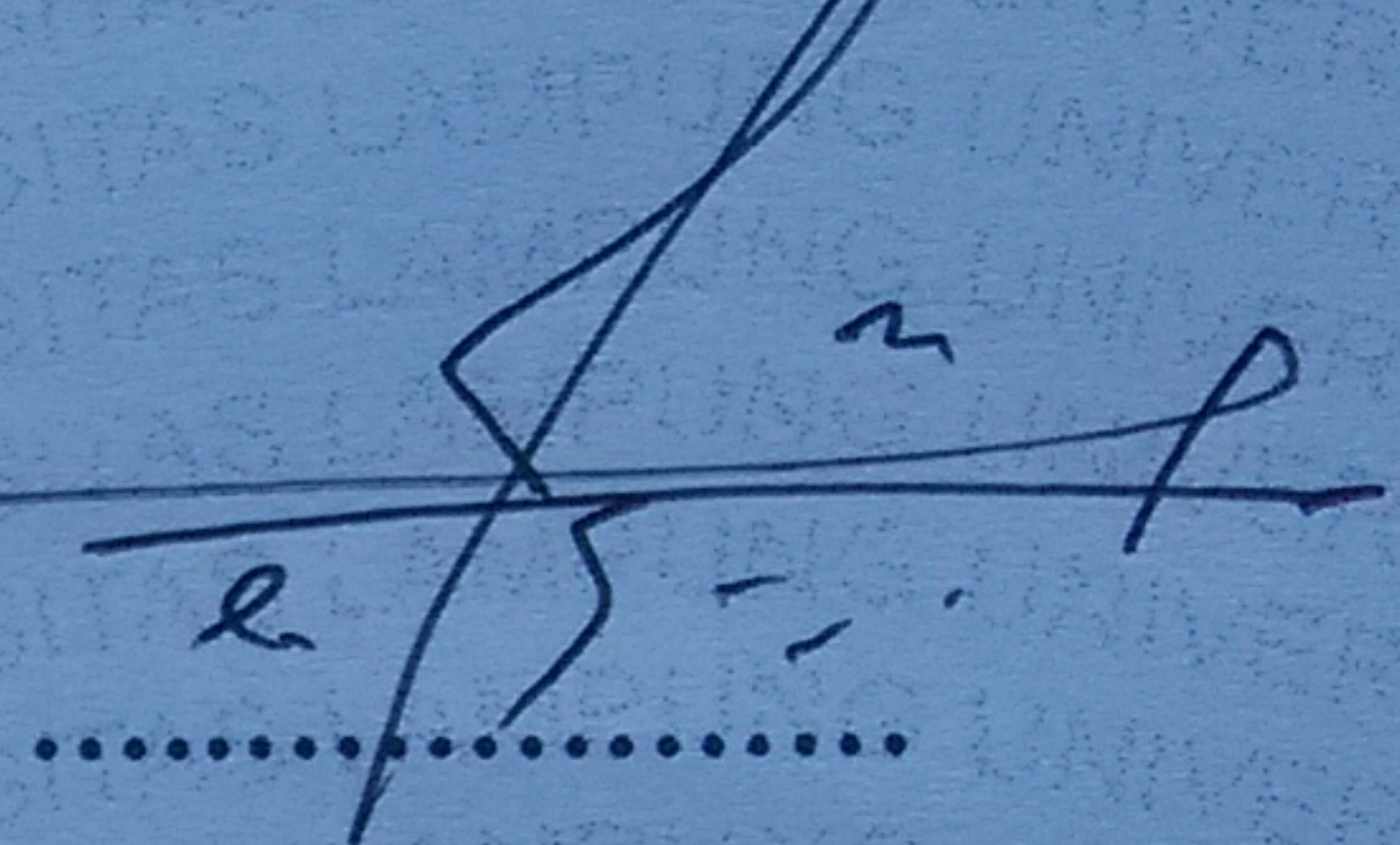
Sekretaris

: **Syaiful Alam, S.T., M.T.**

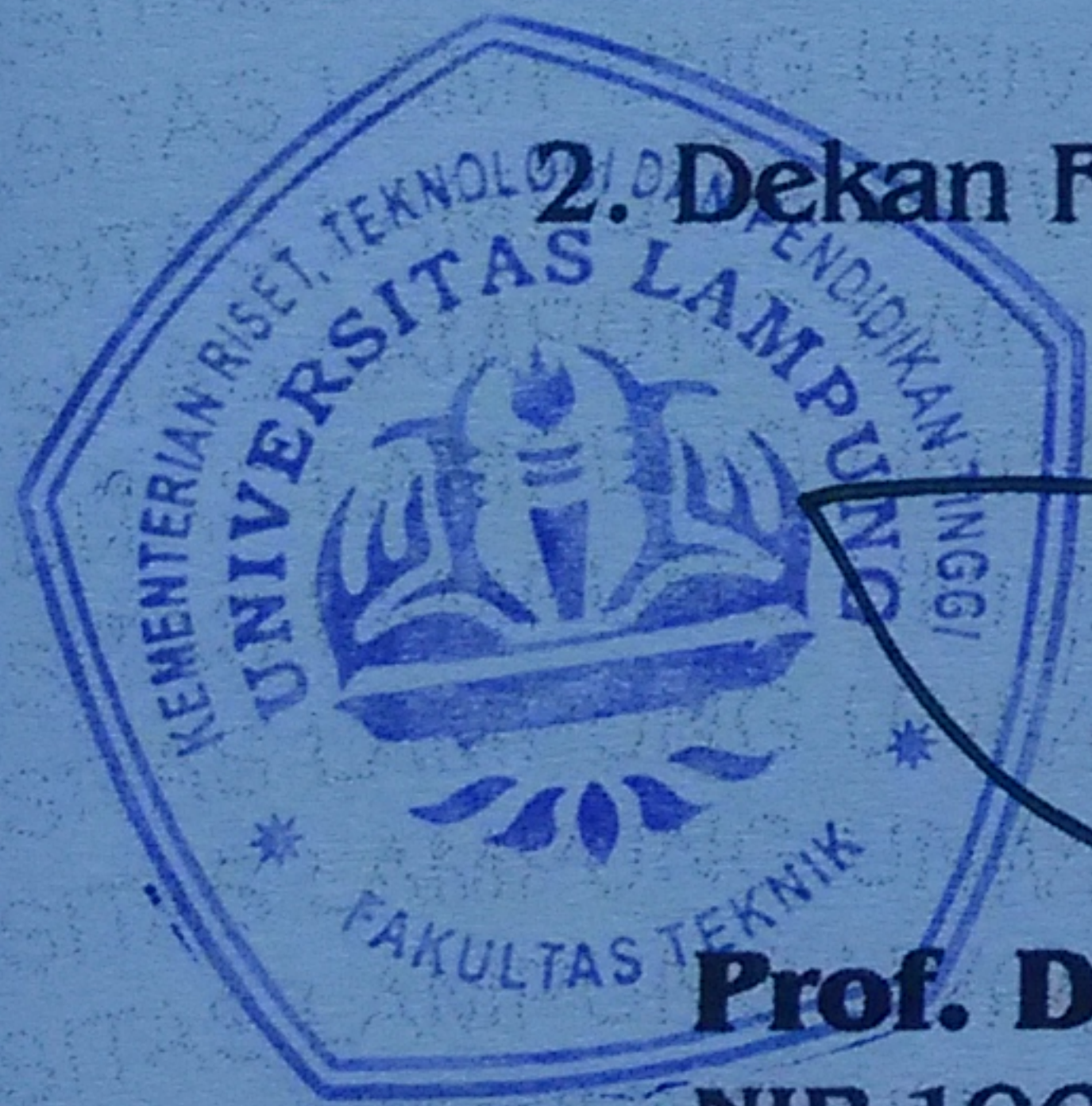


Penguji

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



2. Dekan Fakultas Teknik



Prof. Dr. Suharno, M.Sc.

NIP 19620717 198703 1 002

Tanggal Lulus Ujian Skripsi : 29 Juni 2015