# # : MAJOR KEY WORD:

## C116904 : MAJOR COMPUTER SCIENCE

KEY WORD: SOFTWARE METRICS / SOFTWARE COMPLEXITY / SOFTWARE ENGINEER

PRAMOTE LUENAM: DEVELOPMENT OF PROGRAM FOR SOFTWARE

COMPLEXITY MEASUREMENT. THESIS ADVISOR : DR. VITES TECHANGAM,
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The metrics program in this research is a useful system which inputs program source code as a textual information, and analyze them to find all parameters. Outputs from system are complexity values of

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measuredprograms. In this thesis, many methods are used, such as size metrics using Halstead's theory, logic structure metrics using Chen and McClure's theory, and control flow and dataflow complexity using Oviedo's theory. Results are shown that this system can be an effectively technique to control the quality of any programs.