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Thesis Title : Construction and Experimentation of Laboratory Set for Electricity and Electronics II, Diploma Program, South-East Asia University.  
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### Abstract

The country's current development covers a rapid advancement relevant to electrical and electronic progress. Most of technical graduates fail to keep pace with these developments and will reflect the industrial promotion of the country unfulfilled. In this respect, private sectors and industrial plants need to provide in-service training course for the newlygraduated personnel in order to gain a thorough and practice-oriented background.

This research is aimed at setting up and finding the efficiency of the laboratory set for EP 012 Electricity and Electronics course which is predicted a valid proficiency of equal or more than 90 % . This course is compulsory for students who enroll a three-year program leading to the Diploma in Electrical Power Technology, South-East Asia University.

The course description is as follows:

" Sinusoidal waveform; definition and meaning of parameters; Series, parallel, and composited circuits; characteristics of capacitors and inductors; resonant circuit; electric power and power factor; characteristics of transistors, silicon controlled rectifier (SCR) and amplifiers. "

The research results confirmed the hypothesis that the valid proficiency fo the EP 012 laboratory set was more than 90 % .