

Laboratory Development, Documentation and Information Dissemination

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Vision:

The goal of this project is to enhance the quality of lab training for the Hydraulic, Pneumatic and Robotics lab Activities. Organize the equipment for accessibility and relevance to the training objectives.

The team leader is responsible for the review and editing of modified lab exercises to ensure conciseness, readability and real-world applicability.

The overall objective is to condense the lab activity to correspond to the textbook presentation and group the exercises in order to reduce the time required for lab verification without sacrificing relevant tasks.

Specific Objectives:

- Separate usable test and measuring equipment, lab trainers and fixtures for disposition.
- Consolidation of all electrical and electronic components. Upon completion of reorganization, only those that are used in all lab experimental verification and design will be retained. All others will be offered to vocational programs.
- All training equipment is to be proof tested and documented. Labs conducted and modified for clarity and condensed for maximum benefit.
- All recently acquired lab trainers are to be tested. The lab activities shall be performed and documented for editing to conform to concurrent textbook presentation.

Weekly Team meeting

The weekly team will be subsequent to the Research Project weekly team meeting at the two sites presently used.

Alternate weeks at UNM EECE Room L217 (Senior Design Lab),
SIPI Science and Technology Building, Room 109 (Conference Room 1).

Target timelines

Equipment Disposition: The disposition of usable test equipment and electronics trainers is projected to be completed by August 31, 2006.

Evaluation of Pneumatic, Hydraulic and Robotics trainers is projected to be completed by September 30, 2006.

Documentation of Lab Exercises and correlation to textbook for Electromechanical Devices and Systems is projected to be October 30, 2006.

Submission of overall completed documentation for integration and information dissemination is projected to be completed by December 20, 2006.