

MECE-301 Engineering Applications Laboratory

Summer Term 2138

Instructor & Course Coordinator: Mr. John D. Wellin

Dept. of Mechanical Engineering, RIT
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Pre-requisites: MECE-102 Engineering Mechanics Laboratory
MECE-104 Engineering Design Tools
MECE-204 Strength of Materials I Laboratory
MECE-211 Engineering Measurements Laboratory

Course Description (Lab 2, Credit 2)

This course is an introduction to LabVIEW from National Instruments and the basics of data acquisition and control. It is offered in a largely self-paced instructional format, with weekly lectures to summarize content and concepts, and independently-managed software and hardware exercises that are assigned on a regular basis.

Required Textbook: None

Optional: LabVIEW Student Edition (from Studica.com or OnTheHub)

Course Materials & Policies

Course materials are generally managed through myCourses, including those that are supplied by the instructor, and assignments that are submitted by students. Students will also need to access the National Instruments (NI) Self-Paced Online Training series, and create a free account at the NI website.

Graded work will consist of regularly scheduled exercises utilizing LabVIEW and, in some cases, some sort of hardware facility (as time and resources allow). Unless stated otherwise, all exercises will be due at the beginning of the next scheduled class, to the appropriate myCourses dropbox. Final grades are based entirely upon the set of completed exercises. Unless stated otherwise, all assignments are to be completed as individual efforts.