EME 407 Measuring Systems and Data Acquisition

Report Topics:

Each student should submit a report in two of the following topics:

1. Pressure Measurements
2. Temperature measurements
3. Flow measurements
4. Level measurements
5. RFID and Thermography
6. Accelerometers
7. Position Measurements

The topics should be distributed to the students by the course coordinator.

Report Contents:

Each report should include at least:

a) Types of measurements
b) Animated Principle of operation of each type
c) Typical applications
d) Installation considerations
e) Impact on the overall control loop
f) Selection tables
g) Manufacturers
h) An Animated simulation of an Arduino code for one of the measuring types

MARKING FORMAT

The marking format used to evaluate the technical report is as follows:

- Report Format   /05
- Executive Summary   /05
- Introduction Content   /05
- Technical Content   /30
- Graphs, tables and animation   /20
- Arduino Code   /20
- Conclusion/Recommendations – Content and Logic   /05
- Proper use of References   /10

GENERAL RULES:

According to the university requirements, the report should be:

i.   in **PDF format**
ii.   Font size 14
iii.   Space between lines 1.5
iv.   Number of words between 1500 and 3000
v.   **Use your own words** (do not use direct copy and paste) Any Plagiarism will result in a mark of **0%**
vi.   The student will deliver as of **May 31, 2020** according to the schedule announced by the college
vii.   Failure to send the research on time is a failure.
viii.   The college will receive the student's research or project in the form of a PDF file on the electronic platform contracted with by the university for ease of access to the student and the ability to collect research or projects in an organized manner