COURSE TITLE & NUMBER:  Drones for Industry:  ELM 2404
CREDITS:  1  (0 Lec / 1 Lab)
PREQUISITES:  ELM 2312

CATALOG DESCRIPTION:
Drones for Industry covers the basic operation of drones and how they are used in the electrical industry. The focus will be on imaging with drones and basics of take, flight and landing.

OUTLINE OF MAJOR CONTENT AREAS:
1. Safety
2. Drone Types and Use
3. Construction
4. FAA
   A. Rules
   B. Certification Possibilities
5. Flight
   A. Take Off
   B. Landing
   C. Home Function
   D. Navigation
6. Imaging
   A. Photos
   B. Video
   C. Retrieving Files

COURSE GOALS/OBJECTIVES/OUTCOMES:
1. Students will discuss the safety rules associated with drones.
2. Students will identify different drone types.
3. Students will describe the construction of various drone types.
4. Students will discuss the FAA rules for drone flight.
5. Students will analyze drone flight methods.
6. Students will perform drone take-off, flight and landing procedures.
7. Students will complete imaging challenges of roof-top units and wind tower.

MNTC GOALS AND COMPETENCIES MET:
N/A

HCC COMPETENCIES MET:
Thinking Creatively & Critically
Communicating Clearly and Effectively
STUDENT ASSESSMENT SHALL TAKE PLACE USING INSTRUMENTS SELECTED/DEVELOPED BY THE COURSE INSTRUCTOR.

ADDITIONAL INFORMATION:
None

Curriculum Committee Approval Date: October 1, 2019

AASC APPROVAL DATE: October 16, 2019
REVIEW DATE: October 2024