



H-Form ISE 333

Course Information:	
Code and Title:	ISE 333 Maintenance Planning and Control
Prerequisites:	ISE 332
Co requisite (if any)	-
Credit Hours: 3	Lecture Hrs. (45), Tutorial Hrs. (15), Lab (0), Total Credits (60)
College/ Department:	College of Engineering/Industrial and Systems Engineering

Course Description:
The students will be introduced to maintenance systems, maintenance strategic and capacity planning, planned and preventive maintenance, work measurements and standards, material (spares) control, maintenance operations and control, planning and scheduling, maintenance quality, training, reliability-centered maintenance (RCM), total productive maintenance (TPM), intelligent maintenance systems, maintenance performance, productivity, and continuous improvement.

Course Objectives:
This course introduces the students to the concept of managing maintenance systems to achieve organizations' missions and abilities to attain their profit targets and survive in globally competitive marketplace and changing economies. Also, introduce them to the maintenance control system which is part of the overall maintenance system including procedures for effective execution of planned and scheduled work, and work approval procedures based on clear standards to ensure quality.

Course Learning Outcomes		
		PLO
Knowledge Understanding		
1.1	Recognize the key element of maintenance management to select the tactical-level planning including maintenance load forecasting and capacity planning	K3
Skills		
2.1	Design an operational level planning to control the day-to-day preparation and scheduling, work order planning, and execution.	S3
2.2	Develop execution maintenance plans based on work control, quality control, and cost control.	S3
Values		
3.1	Judge the integral role of a maintenance control system within its broader framework	V2

Textbook:			
Title:	Planning and Control of Maintenance Systems: Modeling and Analysis.		
Author(s):	Salih O. Duffuaa, A. Raouf		
Publisher:	Springer	Year and Edition:	2 nd , 2015
Other Useful Resources:			