Assiut University
Faculty of Engineering

Course Syllabus

Course Title **Course Number:** **Designation:**	Maintenance of transportation networks Compulsory
Department:	Civil Engineering
Prerequisite(s):	Highway and airports Engineering
Instructor: **Instructor's Office:** **Instructor's e-mail**	Assoc. Prof. Dr. Mahmoud Enieb Civil Engineering Building, Room 101 m.enieb@aun.edu.eg
Office Hours:	(12:00-14:00) (Sun)
Class Room: **Time:**	1 (Thu) (11:00 – 13:00)
Course Description:	This course covers types of distresses in both flexible and rigid pavements and the causes for each type. Also, it covers the principles of pavements maintenance and rehabilitation. Moreover, it covers the method for calculating pavement condition index (PCI). Collect and analysis field data in terms of zone, branch, section and sample units
Textbook(s): **Other Required Material**	• Shahin,M.Y, "Pavements Managements for Airports ,Roads, and Parking Lots".2nd Ed. 2004.
Course Objectives:	• To familiarize students with the different types of flexible and rigid pavements distresses (1). • To familiarize students with the different methods to characterize distresses causes (1). • Learn how to calculate pavement condition index (PCI) for rigid and flexible pavements (1). • Be able to understand the basic concepts of pavement Maintenance (M) and Rehabilitation (R) Methods and design mixture for M&R (2). • Learn how to collect and analysis field data in terms of zone, branch, section and sample units (5).
Topics Covered:	1- Distresses in flexible pavement. 2- Distresses in rigid pavement. 3- PCI of flexible pavements. 4- PCI of rigid pavement. 5- Pavement maintenance and rehabilitation methods M&R.
Class Schedule: **Grading Plan:**	1 class session each week; 75 minutes (**20Marks**) Project (10), Attends and participation (10) (**10Marks**) Mid Exam (**70** Marks) Final Exam

General Notes:	All cellular phones must be turned off before class begins. Eating and/or drinking is not allowed in the classroom. Talking to a fellow student while the lecture is in progress will not be tolerated. You will be asked to leave the class if this behavior is disruptive. As required by the University, cases of academic dishonesty will be handled through the proper channels.