



**JORDAN UNIVERSITY OF SCIENCE AND
TECHNOLOGY
INDUSTRIAL ENGINEERING DEPARTMENT**



Course Number and Name	IE 548 Facilities Planning
Course Description	The course introduces students to the role of facility design in improving performance and reducing costs. Topics include material flow analysis, layout design, handling, storage and distribution systems of materials, and design of personnel service systems.
Credits and contact hours	3 Credit hours; 3 hours of lectures
Pre- or Co-requisites	IE 452 Production Planning and Inventory Control
Required/ Elective	Required

Text Book(s)	Tompkins, White, Bozer, and Tanchoco, Facilities Planning , 2010, John Wiley & Sons Inc., 4 th edition
References	<ul style="list-style-type: none"> Askin, R. G. and Standridge, C. R., 1993, Modeling and Analysis of Manufacturing Systems, John Wiley & Sons Inc., New York.

Course Objectives	<p>Upon completion of this course, the students will:</p> <ul style="list-style-type: none"> Appreciate the role of facilities planners in the organization. Identify and use systematic approaches for analyzing and solving facilities planning related problems. Utilize knowledge and skills attained from this course and previous courses. Enhance student's ability in making decisions systematically. Encourage teamwork and enhance students' communication skills.
Measured Outcomes	3e

Topics		Evaluation	
Introduction	Text: CH 1&2	Class Work	8
Flow Analysis	Text: CH 3	First Exam	26
Personnel Requirements & Material Handling	Text: CH 4 & 5	Second Exam	26
Generating and Evaluating Layout Alternatives	Text: CH 6	Final Exam	40
Warehouse Operations	Text: CH 7		