Salahaddin University - Erbil					
College of engineering - Civil Department					
Module Name		Steel Desig	gn	Code	1136
Course Status	Elective	Duration:	15 week – one semester	Credit point	5
Pre-requisites	Mechanics of mat	erials	Total Work Load 135 hr	Class Attendence 60 hr	Self Studies 75 hr
Course Description	Introduction, design of steel tension members, columns, beams, beam-columns, plate girders, supports, welded and bolted connections using the AISC specifications based on the theory of steel design of buildings using the Load Resistance and Factor Design (LRFD) method (SI Units).				
Course Objectives	To acquaint the student with the theory of steel design of buildings using the Load Resistance and Factor Design (LRFD) method.  Upon completion of the course, the student should be able to:  1. Design steel tension members, columns, beams, beam-columns, plate girders, supports and welded and bolted connections using the AISC specifications.  2. Answer structural steel design problems in the exams; and  3. Prepare students for lifetime learning as structural steel design evolves, and to form a foundation for possible post graduate studies in the subject.				
Learning Outcome	This course teaches the engineering thought process through the design of steel structures. The course uses fundamentals of statics, mechanics of materials, and structural analysis and applies them to the design of structural members. Students will gain a broad understanding of structural engineering for steel buildings. With the successful completion of the course, the student should be able to analyze and design tension members, concentrically and eccentrically loaded compression members ,column base plates, welded and bolted connections, laterally braced and unbraced beams and Plate girders, beam-columns and finally Learn the art of detailing.				
Literature & text Books	1. AISC (American Institute of Steel Construction) Manual. Manual of Steel Construction LRFD Volume I & II (Metric conversion of the second edition). 2. William T. Segui " Steel Design ".				
Type of	Theory Lectures  Tutorial  Practical  Practical				
Teaching	3 hr	1.6	1 hr	0 hr	**
Touching	Students are required to do first midterm exam on 8 week, class room activities, quizzes, home works and final exam on week 15th. So that the final grade will be based upon the following criteria:				
Evalution Profile	Course period office		(Quiz) at least 2 during the course period (one of them must befor week 8)  10 %		20 %
	Course period efforts (out of 40%)		assignments and home works at least 2 during the course period 6 %		
		Class Room Activities, Reports and Seminars			4 %
	Course period efforts	V	Vritten exam (120 min writter	n exam week 15)	60 %
	(out of 60%)				