Course Number and Title:	IDE 215/Engineering Mechanics							
Credit Hours:	3+0							
Pre Requisite	-							
Instructor (s):	Engr. Waqas Asghar							
Lab Engineer:	N/A							
Compulsory/Elective:	Compulsory							
If Elective: Depth Core/	N/A							
Breadth Core:								
Course Schedule:	Lecture: 3 Hours/Week							
	Lab: N/A							
	Office hours:	3 Hours/Week						
Course Assessment:	Assignments/ Course project:	2						
	Quizzes:	2						
	Lab work:	N/A						
	Exams:	Mid-Semester and	Final					
Grading Policy:	Quizzes:	10%						
	Assignments/ Course project:	10%						
	Lab work:	00%						
	Mid-Semester:	20%						
	End-Semester:	60%						
Text Book:	Engineering Mechanics Statics by Bedford and Fowler, fifth edition							
Reference Book(s):	VECTOR MECHANICS FOR ENGINEERS by Ferdinand P. Beer and E. Russell							
	Johnston, Ninth edition							
Course Objective:	This course gives basic understanding about various engineering structures in							
	equilibrium and helps to understand the physical phenomena in mathematical							
	terms. It became easier for the students to implement laws of motions to							
	components / structures under the influence of forces							
Course Learning Outcome	CLO Statement		DI O	Ploom				
	Develop a general understanding of co	naanta of vactors	PLO 1	C1				
CL0-1.	conditions of equilibrium for particles and	FLO-I	C^2					
	and three dimensions moment of a force (Knowledge &							
	and unce dimensions, moment of a force. (Knowledge &							
CLO-2:	2. Learn the techniques for structural analysis and apply these PLO 2 C2							
	concepts in analysis of trusses and machines (Problem)							
	Analysis)	(
Topics covered in the	 Introduction to mechanics. Fundamental concepts and 3 Hours 							
course and level of	principles.							
coverage:	 Forces in 2-Dimensions + Problem solv 	6 Hours	6 Hours					
_	 Equilibrium of particles in 2-Dimensions + Problem 6 Hours 							
	solving							
	 Forces in 3-Dimensions + Problem solv 	9 Hours						
	 Equilibrium of particles in 3-Dimension 	6 Hours						
	solving							
	System of forces and moments	6 Hours						
	✤ Trusses	6 Hours						

			 Introduction to Dynamics, Rectilinear and Curvilinear motion 						ar (6 Hours		
Program learning outcomes		5										
and how they are covered												
by specific course			*	*								
outcomes:		*	*									
			*	*								
			*	*								
	*											
			*									
Mapping of CLOs with PLOs and Bloom's Taxonomy Cognitive Levels:												
PLO	1	2	3	4	5	6	7	8	9	10	11	12
CLO-1	C1											
	C2											
CLO-2		C3										
		C4										
Mapping	of CLOs	s with As	sessment	Method	s:							
CLOs/Assessment				CLO-1			CLO-2			CLO-3		
Assignments:		s:	\checkmark			√						
Quizzes:		s:	\checkmark									
Mid-Semester:		r:										
End-Semester:			r:									