Course Number and Title:	HU-413 Engineering Management			
Credit Hours:	2+0			
Pre Requisite	NIL			
Instructor (s):	Engr. Usama Waleed Qazi			
Lab Engineer:	N/A			
Compulsory/Elective:	Elective			
If Elective: Depth Core/ Breadth Core:				
Course Schedule:	Lecture:	2 Hours/Week		
	Lab:	N/A		
	Office hours:	4 Hours/Week		
Course Assessment:	Assignments/ Course project:	3		
	Quizzes:	3		
	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:	Contemporary Management 7th Edition by Garwth . Jones and Jennefir M. Jeorge			
Reference Book(s):	Management 11th Edition by Robbins and Coulter			
Course Objective:	To develop lifelong learning attitude, strong leadership, entrepreneurship, and communication skills with ethical values.			
Course Learning Outcome	CLO Statement		PLO	Bloom
CLO-1:	*Understand and distinguish different management functions and skills. Explain the issues related with management in the modern technical organizations*		PLO-8	C1
CLO-2:	*Explain the importance of effective communication by which the organization acquires competitive advantages*		PLO-9	C2
CLO-3:	*Comparison and evaluation of different Project management tools like PERT and CPM*		PLO-10	C2
Topics covered in the course and level of coverage:	❖ Organizational Management		2 Hours	
	❖ Evolution of Management		4 Hours	
	❖ Manager as a person: Personalities and Behaviors		2 Hours	
	❖ Marketing management		4 Hours	
	❖ Effective Communication in Management		2 Hours	
	❖ Project Management in technical Concerns		6 Hours	
	❖ Quality and Productivity in Technical Concerns		4 Hours	
	❖ Human Resource Management		4 Hours	
	❖ Leadership & Entrepreneurship		4 Hours	

Program learning outcomes and how they are covered by specific course outcomes:	Detailed Contents	CLO	PLO
	❖ Management, Essential Managerial Tasks, Levels and Skills of Managers, Recent Chnges in Management Practices	CLO-1	PLO-8
	❖ Scientific Management Theory, Administrative Management Theory, Behavioral Management Theory, Management Science Theory, organizational Environment Theory	CLO-1	PLO-8
	❖ Personality Traits, Values Attitudes, Emotions and Moods, Emotional Intelligence, Organizational Culture	CLO-1	PLO-8
	❖ Marketing, Needs, Wants and Demands, States of Needs and Wants, 4P's of Marketing,	CLO-2	PLO-8
	❖ Communication and Management, Richness of Communication media, Communication networks,	CLO-2	PLO-9
	❖ Project Management, Phases, Scope, CPM, PERT, Project Risk Management	CLO-2	PLO-10
	❖ Quality, Productivity, Operations Management, Facility Layouts, Inventory Management, Supply Chain management	CLO-2	PLO-10
	❖ Strategic Human Resource Management, Legal Enviornment, Trainning and Development, Performance Appraisal and feed back, Pays and Benefits	CLO-3	PLO-8
	❖ The Nature of Motivation and Leadership, Expectancy Theory, Need Theories, Equity Theory, Trait and Behavior, Models of Leadership, Contingency Models of Leadership	CLO-3	PLO-9

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				
CLO-2									C2			
CLO-3										C2		

Mapping of CLOs with Assessment Methods:

CLOs/Assessment	CLO-1	CLO-2	CLO-3
Assignments:	√	√	√
Quizzes:	√	√	√
Mid-Semester:	√	√	
End-Semester:	√	√	√