

Department of Building Engineering			
Principals of Architectural Design (68260)			
Total Credits	3		
major compulsory			
Prerequisites	P1 : Descriptive Geometry (61120) OR Descriptive Geometry (62117)		
Course Contents			
As engineering design requires a combination of organization, analysis, and communication skills, this course is the primary medium for design concepts. This gives students Building Engineering students an essential way of thinking, so that they can analyze and solve complex buildings problems in the future.			
Intended Learning Outcomes (ILO's)		Student Outcomes (SO's)	Contribution
1	1. An ability to identify, formulates, and solves architectural problems.	E	25 %
2	Knowledge of designing buildings with high quality of functional performance.	B	35 %
3	3. To be able to deal with and follow local and international standards in architecture	K	10 %
4	4. To be able to communicate effectively with others, using drawings and sketches.	K	10 %
5	5. To be able to deal architectural, engineering, social, and environmental problems.	H	20 %
Textbook and/ or References			
Students are asked to search the Library for each project to obtain the required information. Each Student is asked to present his/her small research using an oral or power point presentation, all of which will be considered in the final evaluation of the project. David Adler, (1999). Metric Handbook Planning and Design Data. Arch. Press			
Assessment Criteria		Percent (%)	
Homeworks		10 %	
Projects		90 %	
Course Plan			
Week	Topic		
1	Introduction to architectural design sketches techniques		
2	Introduction to architectural drawing basics		
3-5	Re-design of an existing apartment. Analyzing and classifying data Put proposals and solutions		
6-9	Design of New House Inviting a guest speaker to talk about the use of new techniques and computer software such as AutoCAD in architectural design. Collecting data Concepts and analysis sheet Plans and proposals. Elevations and sections		
10-15	Design of Primary School Collecting data Concepts and analysis sheet Concepts and analysis sheet Plans, and Site plan Elevations, and Sections		