

COURSE PLAN

FIRST: BASIC INFORMATION

College

College	: Faculty of Karak - Balqa Applied University
Department	: Department Of Basic and Information Science

Course

Course Title	: Basic Construction Design
Course Code	: 020112184
Credit Hours	: 2 (0 Theoretical, 2 Practical)
Prerequisite	: 020000171*

Instructor

Name	: Aya Qatawna
Office No.	: 2
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Office Hours	:

Class Times

Text Book

- Title: A Textbook Of Basic Drawing For Architects And Civil Engineers Paperback – January 1, 2015

References

- A Textbook Of Basic Drawing For Architects And Civil Engineers
- Building Design and Construction Handbook, 6th Edition 6th Edition by Frederick S. Merritt (Author), Jonathan T. Ricketts (Author)

SECOND: PROFESSIONAL INFORMATION

COURSE DESCRIPTION

This course cover working knowledge of basic design (architectural diagrams, architectural design elements and masses) and structural principles of building elements. And it carries out how to apply them to building design.

COURSE OBJECTIVES

The objective of this course is to enable the student to do the following:

- Recognize the terms and the symbols used in architectural drawings.
- Draw different projections: diagrams, interfaces, sections, graphs and dimensions.
- Recognize the basic principles and methodology of design.
- Develop design skills.
- Develop ideas and skills in the formation of 2D and 3D abstract shapes by building models.
- Perform the elements of various architectural and artistic structures.

COURSE LEARNING OUTCOMES

On successful completion of this course, students are expected to be able to:

- CLO1. Recognize the design process of facilities and set the space size and scale of various structures
- CLO2. Classify the difference between architectural and civil engineering drawings
- CLO3. Recognize and create drawings designs
- CLO4. Create layouts, plan views, elevation views and cross-sectional views in 2D drawings
- CLO5. Perform the layout and drawings to match each other
- CLO6. Draw the main structural parts of a building (such as the foundation, floor, wall, and roof structure)

COURSE SYLLABUS

Week	topic	Topic details	Related LO and Reference (Chapter)	Proposed assignments
1	Introduction to structural design	<ul style="list-style-type: none"> • Structural design stages • loads • The structural elements of the building 	CLO.1	
2	Architectural Drawing and Instruments	<ul style="list-style-type: none"> • Drawing • Classification of Drawing • Engineering Drawing • List of Equipment 	CLO.2	
3	Conventional Lines	<ul style="list-style-type: none"> • Conventional Lines • Types of Lines and Their practical Application • Significance of Important Lines with Clear Intensities 	CLO.3	
4	Lettering	<ul style="list-style-type: none"> • Lettering • General Proportion of Lettering • Spacing of Letters • Architectural letters • Practical Application of Different forms of Lettering 	CLO.3	
5	Scales	<ul style="list-style-type: none"> • System of unite Measures • Sizes of Scales • Classification of Scales • Plain Scale • Diagonal Scale 	CLO.3	

Week	topic	Topic details	Related LO and Reference (Chapter)	Proposed assignments
		• Principle of Diagonal Scale		
6	Dimensioning and Geometrical Shapes	• Dimensioning • Notation of dimensioning • Geometrical Constructions	CLO.3	
7	Orthographic Projections	• Projections • Types of Projections • Orthographic Projections	CLO.4	
8	MID EXAM			
9	Orthographic Projections	• Four Quadrants • Conversion of Pictorial View into Orthographic View • Geometric shapes	CLO.4	
10	Projection of Points and Lines	• Points • Lines	CLO.4	
11	Projection of Simple Solids	• Shapes of solids • Parts of a solid • Position of solids in Horizontal Plane	CLO.5	
12	Section of Solids and Elementary Building	• Section of solids • Types of sectional Planes	CLO.6	
13		• Solved Problems on Projection of solids • Elementary Building Sections • Parapet	CLO.6	
14	Development of Surfaces	• Development of Surfaces • Architectural Application of Development of surfaces • Principle of Development	CLO.6	
15	Development of Surfaces	• Methods of Development • Parallel Line Method • 3.Radial Line Method	CLO.6	
16	FINAL EXAM			

COURSE LEARNING RESOURCES

The effectiveness of teaching in this course depends on making students familiar with the photographic process through direct practice of photography and dealing with a digital photographic camera, the use of light and its effects in creating scenes, modifying them according to the required technical specifications and using them in digital or print advertisements, and producing graphic projects based on Photography, and the use of images in advertising campaigns.

Teaching methods:

- Problem-solving skills: by employing the photographic image in situations that require a visual impact to solve some visual overlaps in graphic works.
 - Exercising and practicing: by training students to take a photograph through the ability to adjust the camera's settings manually, and to produce artistic images with all its elements.
 - Online research skills on topics related to course objectives and recent developments in the field of photography.
- Learning skills and adaptability: Developed by transferring students and reconfiguring work teams to enable them to adapt to other individuals from time to time..

ONLINE RESOURCES

https://www.skkatariaandsons.com/view_book.aspx?productid=8316
<https://www.amazon.com/Building-Design-Construction-Handbook-6th/dp/007041999X>

ASSESSMENT TOOLS

	Assessment Tools	%	
	Projects and Quizzes	30%	
	MID Exam	20%	
	Final Exam	50%	
	Total Marks	100%	

THIRD: COURSE RULES

ATTENDANCE RULES

Attendance and participation are extremely important, and the usual University rules will apply. Attendance will be recorded for each class. Absence of 10% will result in a first written warning. Absence of 15% of the course will result in a second warning. Absence of 20% or more will result in forfeiting the course and the student will not be permitted to attend the final examination. Should a student encounter any special circumstances (i.e. medical or personal), he/she is encouraged to discuss this with the instructor and written proof will be required to delete any absences from his/her attendance records.

GRADING SYSTEM

Example:

Average	Maximum	Minimum
Excellent	100%	90%
Very Good	89%	80%
Good	79%	70%
Satisfactory	69%	60%
Weak	59%	50%
Failed	49%	35%

REMARKS



{ The instructor can add any comments and directives such as the attendance policy and topics related to ethics }

COURSE COORDINATOR

Course Coordinator: Aya Qatawna

Signature:

Date:

Department Head:

Signature:

Date: