



**Al al-Bayt University**  
**Faculty of Engineering**  
**Department of Architecture**

**Architectural Drawings**  
**Credit Hours: 3**  
**Instructor: Arch. Tala Sultan Hussainat**

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### **Course Description:**

Drafting requires the coordinated efforts of mind, hands and eyes. Acute vision and skillful hands help to produce excellence drafting techniques. Most of an architect's work is highly dependent on skill at drawing. Perspectives give the most natural appearance of any type of drawing. Perspective like photograph, it represents the lines, masses and surfaces of the object as it appear to the eye of an observer.

Perspectives are widely used for design and illustration purpose because they are the only pictorially accurate drawings. Shadows are an important part of seeing they reveal masses, shapes and explanation forms.

### **Course Objectives:**

After completing this course you will be able to:

1. Accurately construct both one and two point linear perspectives (bird eye, ant eye, human eye).
2. Learn to cast shadow and render shade on a variety of drawings (plan, elevation, perspective )

### **Course Topics:**

- Introduction to: picture plane, viewing point, horizon line, vanishing point, eye level, visual cone, visual angle, direction of view, ground plane, view point, true height line, station point, view height , median line, parallel line, viewing distortion.
- One point linear perspectives (bird eye, ant eye, human eye).
- Two point linear perspectives (bird eye, ant eye, human eye).
- Shade and shadow on a variety of drawings (plan, elevation, perspective )

Methods and activities for instruction will include: lectures and lab activities.

Drafting exercises: lab assignments and home assignments.

**Course Schedule:**

| <b>Week</b> | <b>Date</b> | <b>Topic</b>                             |
|-------------|-------------|--|
| 1           | 15/2/2016   | Syllabus                                 |
|             | 17/2/2016   | Isometric                                |
| 2           | 22/2/2016   | Isometric                                |
|             | 24/2/2016   | Introduction to Perspective              |
| 3           | 29/2/2016   | Tow point perspective                    |
|             | 2/3/2016    | Circles in perspective                   |
| 4           | 7/3/2016    | Circles in perspective                   |
|             | 9/3/2016    | Sloping lines                            |
| 5           | 14/3/2016   | First Exam                               |
|             | 16/3/2016   | Enlarging a perspective                  |
| 6           | 21/3/2016   | Measuring in perspective                 |
|             | 23/3/2016   | One point perspective                    |
| 7           | 28/3/2016   | One point perspective                    |
|             | 30/3/2016   | Sloping lines and Measuring method       |
| 8           | 4/4/2016    | Stairs                                   |
|             | 6/4/2016    | Reflection                               |
| 9           | 11/4/2016   | Introduction to Shade and Shadow         |
|             | 13/4/2016   | Shade and Shadow principles              |
| 10          | 18/4/2016   | Shade and Shadow of basic shapes         |
|             | 20/4/2016   | Shade and Shadow in plans and elevations |
| 11          | 25/4/2016   | Second Exam                              |
|             | 27/4/2016   | Shade and Shadow in plans and elevations |
| 12          | 2/5/2016    | Shade and Shadow in plans and elevations |
|             | 4/5/2016    | Shade and Shadow in plans and elevations |
| 13          | 9/5/2016    | Shade and Shadow in perspective          |
|             | 11/5/2016   | Shade and Shadow in perspective          |
| 14          | 16/5/2016   | Shade and Shadow in perspective          |
|             | 18/5/2016   | Shade and Shadow in perspective          |
| 15          | 23/5/2016   | Final Exam                               |

**Evaluation:**

The final grade is based on the following:

|                         |     |
|-------------------------|-----|
| First exam              | 15% |
| Second exam             | 15% |
| Assignments (Term Work) | 40% |
| Final exam              | 30% |

**Class Regulations**

1. No student will be allowed in the class without necessary instrument and instruction sheet.
2. Students should attend all classes, in case of absence student should have accepted reason that may justify an absence.
3. No late assignments are accepted

**References:**

- Ching, Francis DK.(1985). Architectural graphics. New York: Van Nostrand Reinhold Co.
- Cole,Alison. (1992).Perspective. New York: Dorling Kindersley,Inc.
- Forseth,Kevin. Graphics for Architecture. John Wiley and Sons, INC. Singapore Toronto
- Martin, C. Leslie. (1989). Design graphics. New York: Macmillan publishing CO.INC.
- Montague,John.(2005). Basic Drawing: a visual guide. John Wiley and Sons, Inc. Hoboken, New Jersey.
- Norling,Ernest.(1989).Perspectives Drawing. Tustine,CA: Walter Foster Publishing.