

**Course name:** BASICS OF ENGINEERING AND ARCHITECTURAL DRAWING

**Course code:** ARCH 100

**Course hours:** Credit hours 2, Contact hours 4

**Course Pre-requisites:** None

### Course Description

Introduction to the architectural drafting, beginning with discovery the different elements of architectural drawing, practice the different means of architectural and representation drawing, also methods and drawing tools are taken in learning chapter.

### Course Main Objective

In this course, the students will be to:

- Learn how to draw and use different drawing tools.
- Learn types and expression of lines and thickness and relationship to projection.
- The ability to use architectural drawing pencil and how to make models.
- The ability to draw and practice projection and types of plans and sections and elevations, and their relationship to reality through training on a range of exercises.

### Course Learning Outcomes

After the completion of this course, the students will be able to;

- Recognize the nature of the design and its components (point, line, direction, shape, size, scale, texture, optical value, colors ...) with a focus on the work of their applications in architecture.
- Knowledge of the basics of the projection drawing and
- technical architectural drawing which will be use in studio project.
- Apply imagination skills to different architectural projects.
- Ability to reproduce architectural drawing by utilizing different means of representation.

### Course evaluation

- Quizzes, practical assignments
- Weekly/biweekly reviews
- Midterm examination
- Attendance
- Final examination

### Course recommended books

- المعماري بوردين (١٤٢٢هـ) مرجع بصري، ايرنست، ترجمة علي بن سالم باهامام، النشر العلمي والمطابع، جامعة الملك سعود، الرياض.

### Course References

- 3rd Ed.,ERNST NEUFERT, 2002. Architect's Data, Blackwell Science Ltd, U.K.
- Cleqver, D.G. Art an Introduction
- Mumford, L. Art and Techniques
- Francis D.K, 1996. Form, Space and Order, Ching.
- Freehand sketching: An introduction, Paul Laseau
- Architectural Graphic Standards, – Student Edition, Keith E. Hedges (by American Institute of Architects)