

CA19200: ARCHITECTURAL COMMUNICATION

Effective Term

Semester A 2022/23

Part I Course Overview

Course Title

Architectural Communication

Subject Code

CA - Civil and Architectural Engineering

Course Number

19200

Academic Unit

Architecture and Civil Engineering (CA)

College/School

College of Engineering (EG)

Course Duration

One Semester

Credit Units

3

Level

A1, A2 - Associate Degree

Medium of Instruction

English

Medium of Assessment

English

Prerequisites

Nil

Precursors

Nil

Equivalent Courses

Nil

Exclusive Courses

Nil

Part II Course Details

Abstract

The course aims to introduce students to the range of techniques available for the communication and presentation of building design and production information. It will provide students with necessary knowledge and skills to prepare architectural drawings and models manually, and to present a building design proposal graphically and verbally.

Course Intended Learning Outcomes (CILOs)

| CILOs | | Weighting (if app.) | DEC-A1 | DEC-A2 | DEC-A3 |
|-------|--|---------------------|--------|--------|--------|
| 1 | Demonstrate initiative in adopting visual communication skills to express design ideas. | | x | | |
| 2 | Record images of buildings and architectural design using freehand sketching techniques. | | | x | |
| 3 | Communicate various information of architectural design using appropriate manual drafting techniques and tools. | | x | x | |
| 4 | Present the key concepts and information of an architectural design proposal using graphic communication techniques. | | | x | |
| 5 | Produce a simple model to illustrate the general characteristics of an architectural design. | | | x | |

A1: Attitude

Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

A2: Ability

Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to real-life problems.

A3: Accomplishments

Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

Teaching and Learning Activities (TLAs)

| TLAs | | Brief Description | CILO No. | Hours/week (if applicable) |
|------|----------|--|---------------|----------------------------|
| 1 | Workshop | Engages students in hands-on exercises, practice, and acquisition of skills that are required for the completion of their assignments. | 1, 2, 3, 4, 5 | 3 hrs / wk |

Assessment Tasks / Activities (ATs)

| ATs | | CILO No. | Weighting (%) | Remarks (e.g. Parameter for GenAI use) |
|-----|-------------|----------|---------------|--|
| 1 | Sketchbook | 1, 2 | 20 | |
| 2 | Assignments | 3, 4, 5 | 80 | |

Continuous Assessment (%)

100

Examination (%)

0

Additional Information for ATs

Students must attain a minimum mark of 30 in all assessment components AND an overall mark of 40 to pass the course.

Assessment Rubrics (AR)

Assessment Task

Sketchbook

Criterion

1.1 INITIATIVE to adopt visual communication skills to express design ideas.

1.2 ATTEMPT to RECORD images of buildings and architectural designs with sketches.

Excellent (A+, A, A-)

High

Good (B+, B, B-)

Significant

Fair (C+, C, C-)

Moderate

Marginal (D)

Basic

Failure (F)

Not even reaching marginal level

Assessment Task

Assignments

Criterion

2.1 INITIATIVE to adopt visual communication skills to express design ideas.

2.2 ABILITY to COMMUNICATE various information of architectural design using appropriate manual drafting techniques and tools.

2.3 ABILITY to PRESENT the key concepts and information of an architectural design proposal using graphic communication techniques.

2.4 ABILITY to PRODUCE a simple model to illustrate the general characteristics of an architectural design.

Excellent (A+, A, A-)

High

Good (B+, B, B-)

Significant

Fair (C+, C, C-)

Moderate

Marginal (D)

Basic

Failure (F)

Not even reaching marginal level

Part III Other Information

Keyword Syllabus

Drawing equipment and materials; Line drawings; Freehand sketching; Drawing conventions and lettering; Orthographic projection: plan, elevation, section; Metric projections: axonometric; Perspective; Hand rendering techniques: projection of shade and shadow, application of colours and tones; Model making techniques: study and presentation models; Graphic layout and presentation techniques.

Reading List**Compulsory Readings**

| Title | |
|-------|--|
| 1 | Ching, Frank (2015) Architectural Graphics: New York: John Wiley. |
| 2 | Ching, Frank (2015) Architecture: Form, Space, and Order: New York: Van Nostrand Reinhold. |
| 3 | Porter, Tom (1990) Graphic Design Techniques for architectural drawings: London: Hamlyn/Amazon. |
| 4 | Porter, Tom (1992) Design drawing techniques: for architects, graphic designers & artists: New York : Charles Scribner's Sons. |
| 5 | Lockard, William (2000) Design drawing experiences: New York: W.W. Norton & Co.. |
| 6 | Knoll, Wolfgang (2008) Architectural models: construction techniques: New York: McGraw-Hill. |
| 7 | Mills, Criss (2005) Designing with models: a studio guide to making and using architectural design models: New York: John Wiley. |
| 8 | Ramsey, Charles George (2017) Architectural Graphic Standards: New York: J. Wiley. |
| 9 | Talarico, Wendy (2005) Graphic standards details: openings: Hoboken, N.J.: John Wiley & Sons. |

Additional Readings

| Title | |
|-------|-----|
| 1 | Nil |