



THE FEDERAL UNIVERSITY OF TECHNOLOGY, AKURE

Department of Architecture

ARC 101 – Graphic Communication I

COURSE PARTICULARS

Course Code: ARC 101

Course Title: Graphic Communication I

No. of Units: 2

Course Duration: Six hours of practical per week for 14 weeks.

Status: Compulsory

Course Email Address:

Course Webpage:

Prerequisite: NIL

COURSE INSTRUCTORS

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COURSE DESCRIPTION

This course involves studio work in two and three dimensional graphics vocabulary. Emphasis is on the conceptual and perceptual techniques in measured and freehand drawing. Each student is to maintain an A3 size portfolio of drawing containing: Freehand sketches of buildings and their surroundings; measured drawings in isometric and axonometric projections and drawings in varying media (ink, water colour, oil poster, etc.)

COURSE OBJECTIVES

The objectives of this course are to:

- introduce students to freehand drawings, measured drawings, 2- dimensional and 3-dimensional drawings; and
- provide students with opportunities to develop basic skills on how to do understand and produce freehand, measured, 2-dimensional and 3-dimensional drawings with the use of ink, pencils, water colour, oil poster, etc.

COURSE LEARNING OUTCOMES / COMPETENCIES

Upon successful completion of this course, the student will be able to:

(Knowledge based)

- know the difference between 2-dimensional and 3-dimensional drawings;
- know the different types of 2-dimensional and 3-dimensional drawings.

(Skills)

- handle the drawing instruments to effectively produce different kinds of drawings;
- Produce free hand sketches;
- Do free hand lettering and in the long run, develop a style of lettering.

GRADING SYSTEM FOR THE COURSE

This course will be graded as follows:

Class Attendance	5%
Individual Continuous Assessment	35%
<u>Final Examination</u>	<u>60%</u>
<u>TOTAL</u>	<u>100%</u>

GENERAL INSTRUCTIONS

Attendance: It is expected that every student will be in class for lectures and also participate in all tutorials and practical exercises. Attendance records will be kept and used to determine each person's qualification to sit for the final examination. In case of illness or other unavoidable cause of absence, the student must communicate as soon as possible with any of the instructors, indicating the reason for the absence.

Academic Integrity: Violations of academic integrity, including dishonesty in assignments, examinations, or other academic performances are prohibited. You are not allowed to make copies of another person's work and submit it as your own; that is plagiarism. All cases of academic dishonesty will be reported to the University Management for appropriate sanctions in accordance with the guidelines for handling students' misconduct as spelt out in the Students' Handbook.

Assignments and Practicals: Students are expected to submit assignments as scheduled. Failure to submit an assignment as at when due will earn you zero for that assignment. Only under extenuating circumstances, for which a student has notified any of the instructors in advance, will late submission of assignments be permitted. Students are expected to own their own drawing instruments and materials and are not expected to borrow from others. Students should always come for practical with their own drawing instruments; failure of which could mean absence from the class. Students should take adequate care of their drawing instruments to avoid damage, etc. Students should be aware that for every week there would be a tutorial class to teach the students the work to be carried out during the practical class for that week. For the practical classes, there would be two groups according to discipline.

Code of Conduct in Lecture Rooms and studios: Students should turn off their cell phones during lectures. Students are prohibited from engaging in other activities (such as texting, watching videos, etc.) during lectures. Food and drinks are not permitted in the lecture room and studios.

READING LIST

³American Institute of Architects (2007). Architectural Graphic Standards. 11th Edition. John Wiley & Sons Inc.

³Ching, F. D. K. (2012). Architectural Graphics. John Wiley and Sons.

³Cooper, D. (2007). Drawing and Perceiving: Real-World Drawing for Students of Architecture and Design. John Wiley and Sons Inc.

³Lin, M. W. (1993). Drawing and Designing with Confidence: A Step-by-Step Guide. John Wiley and Sons Inc.

³Higgins, B. & McGowa, S. (1999). The Art of Creative Lettering: 50 Amazing Fonts you can make from Scrapbooks, Cards, Invitations & Signs.

³Sutherland, M. (2007). Lettering for Architects and Designers. 2nd Edition. Wiley & Sons Publishers.

Legend

- 1- Available in the University Library
- 2- Available in Departmental/School Libraries
- 3- Available on the Internet.
- 4- Available as Personal Collection
- 5- Available in local bookshops.

COURSE OUTLINE

Week	Topic	Remarks
1	Introduction and course overview. Introduction of the instruments and materials needed for the course. Introduction to lines in freehand	Arrangement of Departments into groups for Practical Purposes. Drawing of lines: vertical, horizontal, inclined, combination of the above lines on sketch pad.
2	Introduction to lettering and forms. Assignment: Freehand sketches of cars, trees, communication masts, human being, existing buildings, overhead tanks, etc, on sketch pad.	Freehand lettering of A-Z at both upper and lower case using different lettering sizes as guides on sketch pad and A3 sheets
3	Design of Textile Pattern	Using 30° and 60° to produce the patterns with 6cm width dimension to infinity in length on A3 sheet
4	Outside freehand drawings	<ul style="list-style-type: none"> • Combination of an existing building in the background with a car under a tree and a human being beside it. On sketch pad. • Drawing of the “Eagle Status” round about in front of the North Gate, FUTA. On sketch pad.
5	Design of a “CARPET PATTERN” and “MAT PATTERN”	Carpet Pattern: Using 14cm x 24cm dimension. Mat Pattern: 12cm x 12cm dimension on A3 sheet.
6	Introduction to Sections	Drawing of horizontal section (plan), vertical section I (Longitudinal) and Vertical Section II (cross) on A3 sheet.
7	Introduction to Orthographic projection showing related views of objects.	<ul style="list-style-type: none"> • First angle projection of an object; • Third angle projection of an object on A3 sheet; and • Differentiate between the two.
8	Introduction of Isometric and Axonometric Drawing of an object	Definition of parts of a circle and the construction of an ellipse.
9	Practical exercise on the drawing of geometric solids: Cube and rectangular prism	Drawing of geometric solids as objects in either first or third angle projections and also in either isometric or axonometric in three dimensional drawings on A3 sheets
10	Practical exercise on the drawing of geometric solids: Triangular Prism and cone	Drawing of geometric solids as objects in either first or third angle projections and also in either isometric or axonometric in three dimensional drawings on A3 sheets
11	Practical exercise on the drawing of geometric	Drawing of geometric solids as

	solids: Cylinder and Pyramid	objects in either first or third angle projections and also in either isometric or axonometric in three dimensional drawings on A3 sheets
12	Practical exercise on the drawing of geometric solids: Octagonal Prism and a cone	Drawing of geometric solids as objects in either first or third angle projections and also in either isometric or axonometric in three dimensional drawings on A3 sheets
13	Practical exercise on the drawing of geometric solids: Combination of all geometric shapes	<ul style="list-style-type: none"> • Drawing of geometric solids as objects in either first or third angle projections and also in either isometric or axonometric in three dimensional drawings on A3 sheets • Combination of all the 8no solid objects in such a way that one must be touching the other or overlapping the other graphically
14	Revision	