



University/Academy: Arab Academy for Science, Technology & Maritime Transport
Faculty/Institute: College of Engineering & Technology
Program: B.Sc. Architectural Engineering and Environmental Design

Form no. (12): Course Specification

1- Course Data

Course Code: AR 546	Course Title: Landscape Architecture	Academic Year/Level: 5th year / 9th semester
Specialization: Architecture	No. of Instructional Units Credit 3 Lecture 2 Tutorial 2	Prerequisite AR313

2- Course Aim

This course is aimed towards the integration of both the building and the environment through the theories and principles of landscape design. Students with an in-depth understanding of how the two disciplines can be combined to produce integrated sustainable solutions. This is followed by the theoretical and historical backgrounds of landscape studies, site analysis, plant materials and landscape elements.

The course aims to:
 Provide the student with the main knowledge & the principles, processes, media, tools and skills necessary for practice of landscape design

3- Intended Learning Outcomes

a- Knowledge and Understanding	Through knowledge and understanding, students will be able to: <ul style="list-style-type: none"> Define the landscape design elements and their integral role in creating a sustainable environment; culturally, socially, environmentally and economically. Define the landscape design parameters.
b- Intellectual Skills	Through intellectual skills, students will be able to: <ul style="list-style-type: none"> Implement the landscape design process. Analyze landscape problems finding alternatives and choosing the most appropriate solutions. Innovate new and aesthetically pleasing designs.
c- Professional Skills	Through professional and practical skills, students will be able to: <ul style="list-style-type: none"> Produce appealing well presented ideas (visually, graphically...etc) Examine the common plants of the region, their growth and botany. Assess the role of a range of professions relevant to the landscape environment.
d- General Skills	Through general and transferable skills, students will be able to: <ul style="list-style-type: none"> Present different landscape elements, scientifically, logically and beautifully. Present research, discuss findings, defend his/her ideas, communicate effectively verbally and through drawings and models. Work coherently and successfully as part of a team in projects, assignments, etc. Understand professional conduct and responsibility

4- Course Content

Week No.1	Introduction: Landscape Definition, Scale (Landscape management - Landscape planning - Landscape Design),Landscape Interpretation (Landscape as Nature - Landscape as habitat -Landscape as Artificial - Landscape as system - Landscape as problem - Landscape as wealth - Landscape as ideology - Landscape as history - Landscape as place - Landscape as Aesthetic).
Week No.2	Historical review & Elements of Landscape design: Historical brief, Elements of Landscape design (Plant Materials- Landform- Building-Pavement & site Structure – Water), Environmental Design stages,Landscape as Professional (Designer – Construction - Marketing – Conservation)
Week No.3	Land form (I): Geology (Geology Base - Topography Map - Slope Analysis Map - Unsafe signals Map), Soil (Soil maps- Desert soil), Significance,Aesthetic character, Special Sensitive,Drainage, Climate, Expression of Landform.
Week No.4	Land form (II) Landform Types (Level Landform - Convex Landform - Concave Landform), Functional Uses of Landform(Spatial Definition- Control Views - Influence Movement- Affect Microclimate- Aesthetic Uses).
Week No.5	Plant materials (I): Significance, Functional Uses of plant Material, Architectural Uses of plant Material, Visual plant characteristics
Week No.6	Plant materials (II): Plant Form(Spreading – Rounded- Pyramidal- Weeping- Picturesque- Palm), Plant color, Foliage Type (Deciduous- Evergreen), Plant Texture (Coarse texture- Medium texture- Fine texture).
Week No.7	Continuation of the previous lecture and evaluation.
Week No.8	Plant materials (III): Aesthetic Uses of Plant Material (Complementors - Unifiers- Softener- Acknowledgers- View Enframement), Planting Design Process and Principles.
Week No.9	Water: Water Definition, Water as Landscape element (General Characteristics- General Uses of Water- Visual Uses of Water).
Week No.10	Buildings (I): Building Clusters and Spatial Definition (Distance to Building Height Ratio- Plan Arrangement - Building Character).
Week No.11	Pavement: Functional and Compositional Uses(Accommodate Intense Use-Suggest Rate and Rhythm of Movement-Create Repose-Indicate Uses on the Ground Plan-Influence scale-Provide Unity-Serve as a Setting-Establish Spatial Character-Provide Visual Interest), Design Guidelines for Pavement, Basic Pavement Materials (Stone-Brick-Interlocking brick-Tile-Adhesive Pavement).
Week No.12	Continuation of the previous lecture and evaluation.
Week No.13	Site structures: Civil Work (Grading Techniques - Site Drainage - Pavement), Planting Work (Nursery Technique - Planting Technique - Irrigation), Electro-Mechanic Work, Site Furniture and features.
Week No.14	Landscape process: Project acceptance, Research and analysis (include site visit), Design, Construction drawings, Implementation, Post-construction evaluation, Maintenance, Intermediate Scale Projects.
Week No.15	Maintaining the Landscape.

5- Teaching and Learning Methods

The course comprises a combination of lectures, case study analysed, site-visits, research assignment, project work, and discussion sessions.

6-Teaching and Learning Methods for Students with Special Needs

- Consulting with lecturer during office hours.
- Consulting with teaching assistant during office hours.
- Private sessions for redelivering the lecture contents.
- For handicapped accessibility, please refer to program specification.

7- Student Assessment

Asses No.	Procedures used		Start Week No.	Subm. Week No.	Weighting of Asses.
	Type	To assess			
1	Assignment	Knowledge and understanding.	2	4	5%
2	Research	Knowledge and intellectual skills.	4	8	5%
3	Written exam.	Knowledge and understanding.	7	7	20%
4	Assignment	Intellectual and practical skills.	8	10	10%
5	Written exam.	Intellectual and transferable skills.	12	12	10%
6	Assignment	Intellectual and practical skills.	12	13	10%
7	Written exam.	All skills.	16	16	40%
Total					100%

8- List of References:

a- Course Notes	Students are encouraged to take notes.
b- Required Books (Textbooks)	<ul style="list-style-type: none"> • John, L. MOLTOCH, <i>Introduction to Landscape Design</i>, John Wiley & Sons, INC-USA-2001
c- Recommended Books	<ul style="list-style-type: none"> • BOOTH, Norman & Hiss James, <i>Residential Landscape Architecture</i>, Pearson Prentice Hall, USA, 2005 • Gao Xuemei Ed, <i>Classics of Landscape Design in China V1 V2</i>, Pub. SML, Hong Kong, 2006. • Group Han, <i>Landscape Architect</i>, Arch world, 2003. • Harris, W, & Dines. N, <i>Time-Saver standards for Landscape Architecture</i>, Mc Graw Hill, USA, 1998 • James Grayson Trulove, <i>40: Landscapes</i>, Rockport Publishers, USA, 2003 • Kim, Min-hye. Ed, <i>Indoor Landscape</i>, Pub. Capressco, Seoul Korea, 2006 • Lee Yun-Jung, <i>Landscape Design Park</i>, Pub. ARCHI World, Korea, 2006 • MARSH, William M, <i>Landscape Planning: Environmental Applications</i>. 3rd edition, Welly, NY, 1998 • Reid, G.W. L., <i>Landscape Graphics</i>, Whitney Library of Design, 1987 • SIMONDS, J, O, <i>Landscape Architecture</i>. 3rd Edition, Mc Graw Hill, USA, 1998 • SIMONDS, John, <i>Garden Cities</i>, McGraw Hill, USA, 1994 • The Garden Book, <i>The Garden Book</i>, Phaidon, London, 2000 • WALKER, Peter & Partners, <i>Defining the Craft</i>, Thames & Hudson, China, 2005
d- Periodicals, Web Sites, etc.	N/A