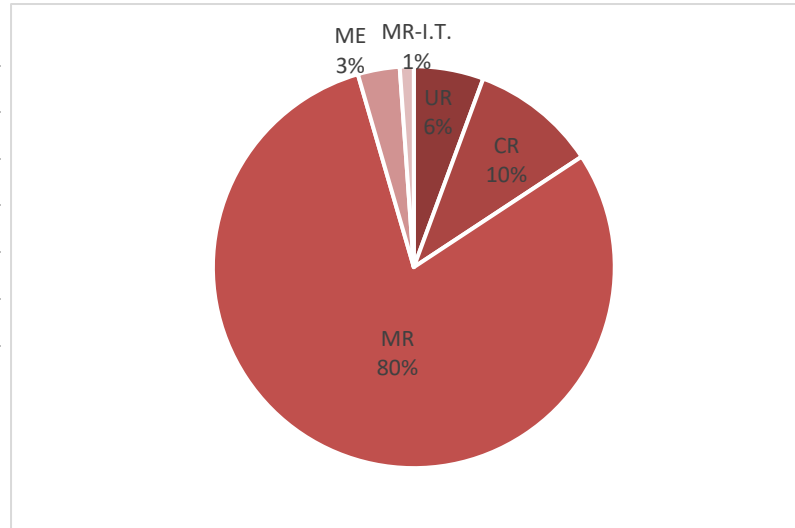


Associate Diploma in Landscape Architecture

An Exit Qualification from the Landscape Architecture B.Sc. Program for Students Admitted to B.SC Program (2014-2022)

Program Components

Course Type	CRD
University Requirement (UR)	5
College Requirement (CR)	9
Major Requirement (MR)	71
Major Elective (ME)	3
MR-Industrial Training	1
Total Credit (CRD)	89



List of Courses

University Requirements

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			
ARAB 110, or HIST 122, or ISLM 101	Arabic Language Skills Modern History of Bahrain and Citizenship Islamic Culture	3	0	3	UR	-----	No
HRLC 107	Human Rights	2	0	2	UR	-----	No

College Requirements

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			
ENGL 101	Communication Skills I	3	0	3	CR	-----	No
ENGL 102	Composition and Reading II	3	0	3	CR	ENGL 101	No
MATHS 106	Mathematics for Built Environment	3	0	3	CR	-----	No

Major Requirements

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			
LNDA 110	Design Theories and Practice	0	6	3	MR		YES
LNDA 111	Design Communication I	0	6	3	MR		YES
LNDA 112	Site Studies	1	2	2	MR		YES
LNDA 120	Visual & Spatial Design	0	6	3	MR	LNDA 110	YES
LNDA 121	Design Communication II	0	6	3	MR	LNDA 111	YES
LNDA 122	Plants in the Gulf Region	1	2	2	MR	LNDA 112	YES
LNDA 210	Landscape Design I	0	8	4	MR	LNDA 120 & 121	YES
LNDA 211	Theories of Landscape Architecture	3	0	3	MR	LNDA 120 & ENGL 102	YES
LNDA 212	Geography and Landscape	2	0	2	MR	LNDA 112 & 122	YES
LNDA 213	Materials and Construction I	1	2	2	MR	LNDA 111	YES
LNDA 214	Computer Aided Design I	1	4	3	MR		YES
LNDA 215	General Botany & Horticulture for Landscape	2	0	2	MR	LNDA 112	YES
LNDA 220	Landscape Design II	0	8	4	MR	LNDA 210 & 122	YES
LNDA 221	History of Landscape Architecture	2	0	2	MR	LNDA 211	YES
LNDA 222	Environment and Sustainability	3	0	3	MR	LNDA 212	YES
LNDA 223	Materials and Construction II	1	2	2	MR	LNDA 213	YES
LNDA 224	Computer Aided Design II	1	4	3	MR	LNDA 214	YES
LNDA 225	Human Factors of Design	2	0	2	MR	LNDA 215	YES
LNDA 310	Landscape Design III	0	8	4	MR	LNDA 220	YES
LNDA 312	Urban Agriculture	2	0	2	MR	LNDA 215 & LNDA 222	YES
LNDA 313	Working Drawings	0	4	2	MR	LNDA 223	YES
LNDA 314	Geographical Information Systems	1	2	2	MR	LNDA 214 & LNDA 220	YES
LNDA 323	Outdoor Furniture	2	0	2	MR	LNDA 313	YES
LNDA 320	Landscape Design IV	0	8	4	MR	LNDA 310 & LNDA 314	YES
LNDA 324	Design Implementation	2	0	2	MR	LNDA 313	YES

LNDA 413	Services in Landscapes	1	2	2	MR	LNDA 313	YES
LNDA 421	Landscape Professional Practice	3	0	3	MR	LNDA 324	YES

Major Requirements

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			
LNDA 417	Computer Animations	3	0	3	ME	LNDA 324	YES

Industrial Training

Course Code	Course Title	Course Hours			Course Type	Pre requisite	Major GPA
		LEC	PRAC	CRD			
LNDA 291	Industrial Training I	0	0	1	MR-Training	Completion of 45 credits	Yes

Courses Descriptions

University Requirements Courses Descriptions

Course Code: ARAB 110

Course Title: Arabic Language Skills

This course focuses on basic Arabic skills, including form, function, and meaning. It also helps the student to appreciate and understand structures and approach them from a critical point of view, through various genres in literature.

Course Code: HIST 122

Course Title: Modern History of Bahrain and Citizenship

Spatial identity of Bahrain: Brief history of Bahrain until the 18th century; the historical roots of the formation of the national identity of Bahrain since the 18th century; the modern state and evolution of constitutional life in Bahrain; the Arabic and Islamic dimensions of the identity of Bahrain; the core values of Bahrain's society and citizenship rights (legal, political, civil and economic); duties; responsibilities and community participation; economic change and development in Bahrain; Bahrain's Gulf, Arab and international relations.

Course Code: HRLC 107

Course Title: Human Rights

This course deals with the principles of human rights in terms of the definition of human rights, scope, sources with a focus on the International Bill of Human Rights; The Charter of the United Nations; Universal Declaration of Human Rights; The International Covenant on Economics, Social and Culture rights; Convention against Torture and other Cruel, Inhuman or Degrading Treatment or Punishment; Mechanics and the Constitutional Protection of Rights and Public Freedoms in Kingdom of Bahrain.

Course Code: ISLM 101

Course Title: Islamic Culture

An introduction to the general outline and principles of Islamic culture, its general characteristics, its relationships with other cultures, general principles of Islam in beliefs, worship, legislation and ethics.

College Requirement Courses Descriptions

Course Code: ENGL 101 **Course Title:** Communication Skills I

This course focuses on reading skills and strategies and language development. The reading section concentrates on high-interest contemporary topics and encourages students to increase speed and efficiency. The writing component, integrated to the reading materials, reviews grammatical structures, develops language accuracy and introduces paragraph writing. Students are required to upgrade their grammar, reading, and listening skills on the internet.

Course Code: ENGL 102 **Course Title:** Composition and Reading II

A continuation of English 101, which further develops the students' skills in reading and writing. The course exposes students to a wider range of reading material aimed at developing their understanding of different styles of English.

Course Code: MATHS 106 **Course Title:** Mathematics for Built Environment

Introduction to geometry, trigonometry and the applications of these for the design of shapes and surfaces. Vectors in two and three dimensions. Fractal geometry. History and applications of mathematics in design, architecture and landscape.

Major Courses Descriptions

Course Code: LNDA 110 **Course Title:** Design Theories and Practice

Introduction to design as a process of organizing forms and spaces based on theoretical ideas, philosophies and fundamental design principles. Introduce types of spatial relationships. Produce simple design outcomes in terms of visuals, forms and spaces.

Course Code: LNDA 111 **Course Title:** Design Communication I

Introduction to drawings, visuals and models as representation of ideas and objects. Sketching as exploration of ideas. Standard drawing scales, symbols codes and techniques to produce graphical representations of outdoor built-environments. Special focus on representation of plants.

Course Code: LNDA 112 **Course Title:** Site Studies

Introduction to land as terrain defined by visible and invisible boundaries. Interpretations of site conditions determining the surface configuration, contour lines, dimensions and site features from geological, environmental and perceptual dimensions. Maps as representations. Techniques of mapping sites.

Course Code: LNDA 120 **Course Title:** Visual and Spatial Design

Introduce colors, shapes and forms leading to graphic design, and object design employing fundamental principles of design. Introduce Design Process followed by the design of Posters, Brochures, book covers, logos etc., as well as structures to promote design consciousness and skill.

Course Code: LNDA 121 **Course Title:** Design Communication II

Introduction to drawings and models as communication media; three-dimensional representations through perspectives, & models. Production of manual, and other digital media to communicate design ideas.

Course Code: LNDA 122 **Course Title:** Plants in the Gulf Region

Introduction to native vegetation and plants in the Gulf region and those imported and nurtured in both controlled and open areas. Native plant communities and yard planting, plant growth, plant materials and floriculture. Produce a record of plant studies with visuals and written material.

Course Code: LNDA 210

Course Title: Landscape Design I

Introduction to Landscape Architecture followed by the design of a small residential landscape taking into account site conditions, needs of a family, environment and appropriate technologies. Application of learned skills in Design Theories and Practice, Visual Design, Design Communication I & II.

Course Code: LNDA 211

Course Title: Theories of Landscape Architecture

Introduction to theories and philosophies relevant to landscape architecture. Approaches to space, form and place making in the open. Methods and techniques of definition of outdoor rooms by physical and non-physical means. Celebrated architects and their approaches to landscape settings.

Course Code: LNDA 212

Course Title: Geography and Landscape

Introduction to geography of the land. A natural landscape as a collection of landforms, such as mountains, hills, plains, and plateaus, lakes, streams, soils and natural vegetation and how to transform them to built-ones. Focus on desert landscape. Introduce cultural landscapes: city as a built-landscape.

Course Code: LNDA 213

Course Title: Materials and Construction I

Analysis of 'construction' as a process. Introduction of principal types of construction materials such as, timber, stone, metals and concrete and other materials and their technologies that are generally applicable to the construction of landscape settings. Focus on details of joinery.

Course Code: LNDA 214

Course Title: Computer Aided Design I

Applying standard computer programs widely used in the market to produce models and create working drawings. Current and potential digital applications of computers in the design profession.

Course Code: LNDA 215

Course Title: General Botany and Horticulture for Landscape

Introduce seeds, plant growth, development and anatomy; basic concepts of how photosynthesis, respiration and environmental factors affect growth and development; understanding of how plants grow in a natural setting versus a human-made environment. Emphasis on understanding plant biology.

Course Code: LNDA 220

Course Title: Landscape Design II

Design of a complex recreational landscape taking into account site conditions, needs of an institution such as a hotel, the environment and appropriate technologies. Emphasize on the creation of outdoor rooms and places; definitions by built-elements, levels, structures and objects.

Course Code: LNDA 221

Course Title: History of Landscape Architecture

The concepts underlying the production of and evolution of landscapes from the ancient to the modern era. Environmental and human factors affecting the evolution of the built environment and landscape developments. Emphasis on evaluating conceptual, formal and performative aspects of landscapes.

Course Code: LNDA 222

Course Title: Environment and Sustainability

Social, environmental, and economic sustainability related to landscapes within a global context. Problemsolving strategies within an interdisciplinary team environment. Landscape as a carbon sink and its role in the mitigation of the impact of manmade structures, systems and their behaviours.

Course Code: LNDA 223

Course Title: Materials and Construction II

Analysis of construction systems for site work: soils, excavation, slope retention and drainage. Small-structures: foundations, basements. Superstructure: masonry bearing wall construction, steel and concrete framing, stairs, ramps, bridges and walkways.

Course Code: LNDA 224

Course Title: Computer Aided Design II

Applying standard computer programs widely used in the market to produce three-dimensional images. Current and potential digital applications of computers such as 3D printing and their use in the design profession.

Course Code: LNDA 225

Course Title: Human Factors in Design

Introduce the functional, social, cultural and experiential relations people have with natural and built landscapes. Theoretical notions of territoriality; personal space and life style. Designing for community, privacy, and safety; perception and recognition of urban form; Design theories for the sensory environment.

Course Code: LNDA 310

Course Title: Landscape Design III

Design of a complex urban landscape taking into account social needs, site conditions, routes and spatial props, the environment and technologies. Emphasize on the creation of large-scale outdoor rooms, routes and places for multifaceted social activities; definitions by levels, structures and objects.

Course Code: LNDA 312

Course Title: Urban Agriculture

Introduce the emerging model for alternative urban land use where people grow food, work together, take care of the land, and build community. Urban Farm as a place and a process, integrating biological, ecological, economic and social concerns. Engage students to learn by doing, working in an agriculture setting.

Course Code: LNDA 313

Course Title: Working Drawings

Introduction to techniques and graphical conventions used in working drawings to produce plans, elevations, sections, and construction details of landscape settings. Implement a previous design by means of working details for construction to include specifications of constructions and service layouts.

Course Code: LNDA 314

Course Title: Geographical Information Systems

Introduce the hardware and software components of a Geographic Information System and reviews GIS applications. Data structures and basic functions, methods of data capture and sources of data, and the nature and characteristics of spatial data and objects. Introduce typical operations, products/applications.

Course Code: LNDA 320

Course Title: Landscape Design IV

Design of a complex urban landscape outside Bahrain taking into account, culture, beliefs, social needs, site conditions, existing structures, routes, spatial props, the environment and technologies. Emphasize on the cultural and environmental differences in the creation of outdoor rooms, routes and places.

Course Code: LNDA 323

Course Title: Outdoor Furniture Design

Introduce furniture design: man-object interface and ergonomics. Design of innovative, socially relevant, and symbolically meaningful built-elements in different landscape settings. Emphasis on Joinery, finishes and maintenance of furniture through articulation of details.

Course Code: LNDA 324

Course Title: Design Implementation

Concepts of project management, project delivery and project life cycle. Life cycle of projects from planning to tendering and construction. Types of Contracts. Construction drawings, specifications and bills of quantities. Tender documents and tender evaluations. Contract documents. Laws and regulations.

Course Code: LNDA 413

Course Title: Services in Landscapes

Introduction to the services and infrastructure for landscapes: Water supply and drainage systems. Garbage collection and disposal, access for maintenance and services for management of landscapes, Security, alarm systems, safety, lighting and surveillance.

Course Code: LNDA 421

Course Title: Landscape Professional Practice

Introduce principles of landscape architectural professional practice, standards and codes, with a focus on delivery of landscape services. Preparation for professional practice within the business of landscape architecture in private and public arenas in Bahrain.

Major Elective Course Descriptions

Course Code: LNDA 417

Course Title: Computer Animations

Introduction to the production of different animated landscape design presentations using advanced digital software.

Course Code: LNDA 291

Course Title: Industrial Training I

In this training course, all students in the program must participate in an approved training program in the relevant industry. At the completion of 300 hours of supervised training, each student must submit a formal report and conduct an oral presentation.