

LD-105-INTRODUCTION TO LANDSCAPE DESIGN

CourseTitle	Introduction To Landscape Design	CourseCode	LD-105
Semester	I Year	CourseGroup	Core
TeachingschemeinHrs(L:T:P)	4:1:0	Credits	3.00
TypeofCourse	Lecture+Assignments	TotalContactHours	75
CIE	60 marks	SEE	40 Marks

Pre-Requisites

This course impart the foundational knowledge needed to grasp the historical, ecological, and design aspects of landscape architecture

Course Outcomes

CO1	Introduce students to the historical development of gardens and the evolution of landscape design across cultures and time periods.
CO2	Understand the scope, roles, and professional responsibilities of landscape architects in contemporary practice.
CO3	Familiarize students with the fundamental elements and principles of landscape design and their application in outdoor spaces.
CO4	Develop awareness of landscape ecology, sustainability, and environmentally responsible design approaches in landscape planning.
CO5	Apply landscape design concepts through case studies, site analysis, and small-scale design projects , integrating historical knowledge, ecological principles, and contemporary practices.

TimeSchedule		
Unit No.	UnitName	Hour
1	History of gardens	15
2	Evolution of landscape	15
3	Scope of landscape profession	10
4	Elements of landscape design	10
5	Principles of landscape design	15
6	Landscape ecology & sustainability	10
	Total	75

Course Contents:

UNIT 1 Stone History of Gardens

DURATION:15 HOURS

- 1.0 Meaning and significance of gardens in human civilization
- 1.1 Ancient gardens: Egyptian and Persian
- 1.2 Classical gardens: Greek and Roman
- 1.3 Medieval gardens: Islamic and Mughal (India)
- 1.4 European gardens: Italian Renaissance, French formal, English landscape
- 1.5 Modern gardens: Japanese and contemporary styles

UNIT 2 Evolution of Landscape

DURATION:15 HOURS

- 2.0 Definition and concept of landscape
- 2.1 Relationship between man, nature, and landscape
- 2.2 Evolution of landscape design through different periods
- 2.3 Influence of culture, climate, and geography
- 2.4 Formal and informal landscape styles
- 2.5 Landscape development in urban contexts
- 2.6 Sustainable landscape concepts

UNIT 3 Scope of Landscape Profession

DURATION:10 HOURS

- 3.0 Landscape architecture as a profession
- 3.1 Roles and responsibilities of landscape professionals
- 3.2 Interdisciplinary nature of practice
- 3.3 Areas of practice: residential, public, institutional, urban
- 3.4 Career opportunities in private and public sectors
- 3.5 Future scope of landscape architecture in India

UNIT 4 Elements of Landscape Design

DURATION:10 HOURS

- 4.0 Natural elements: landform, water, vegetation, climate
- 4.1 Man-made elements: pathways, pavements, structures, street furniture

- 4.2 Hardscape and softscape components
- 4.3 Use of color, texture, form, and scale
- 4.4 Functional and aesthetic considerations

UNIT 5 Materials Principles of Landscape Design

DURATION:15 HOURS

- 5.0 Unity, balance, rhythm, proportion, harmony
- 5.1 Axis, symmetry, and asymmetry
- 5.2 Focal points and visual hierarchy
- 5.3 Scale and human comfort
- 5.4 Application of design principles in layouts

UNIT 6 Landscape Ecology and Sustainability

DURATION:10 HOURS

- 6.0 Introduction to landscape ecology
- 6.1 Ecosystems and biodiversity
- 6.2 Environmental impact of landscape development
- 6.3 Sustainable landscape practices
- 6.4 Water conservation and rainwater harvesting
- 6.5 Climate-responsive landscape design

Reference Books:

- Landscape Architecture: A Manual of Site Planning and Design – John Ormsbee Simonds
- Landscape Design: A Cultural and Architectural History – Elizabeth Barlow Rogers
- Indian Gardens: A Cultural History – Giles Tillotson
- Mughal Gardens of India – James L. Wescoat Jr.
- Elements of Landscape Architecture – S.K. Sharma (India-specific text)
- Ecological Landscape Design and Planning – Mohd. Shafi (Indian author, sustainability focus)
- Landscape Ecology Principles in Landscape Architecture and Land-Use Planning– Wenche Dramstad et al.
- Design with Nature – Ian McHarg (classic reference for sustainability).

Specific learning Outcomes

CO1: History of Gardens

After completing this unit, students will be able to:

- 1.1 Describe the cultural significance of gardens in human civilization.
- 1.2 Identify and classify ancient gardens (Egyptian, Persian) and their design features.
- 1.3 Compare classical gardens (Greek, Roman) with medieval gardens (Islamic, Mughal).
- 1.4 Analyze European garden styles (Italian Renaissance, French formal, English landscape).
- 1.5 Evaluate modern garden styles (Japanese, contemporary) for relevance in current practice.

CO 2: Evolution of Landscape

After completing this unit, students will be able to:

- 2.1 Define the concept of landscape and its relationship with human culture.
- 2.2 Trace the evolution of landscape design across historical periods.
- 2.3 Assess the influence of culture, climate, and geography on landscape styles.
- 2.4 Differentiate between formal and informal landscape approaches.
- 2.5 Apply sustainable landscape concepts in urban contexts.

CO 3: Scope of Landscape Profession

After completing this unit, students will be able to:

- 3.1 Explain the role of landscape architecture as a profession.
- 3.2 Identify responsibilities of landscape architects in interdisciplinary practice.
- 3.3 Distinguish between areas of practice (residential, public, institutional, urban).
- 3.4 Evaluate career opportunities in private and public sectors.
- 3.5 Predict future scope of landscape architecture in India.

CO 4: Elements of Landscape Design

After completing this unit, students will be able to:

- 4.1 Identify natural elements (landform, water, vegetation, climate) in design.
- 4.2 Recognize man-made elements (pathways, pavements, structures, furniture).
- 4.3 Differentiate between hardscape and softscape components.
- 4.4 Apply design attributes (color, texture, form, scale) in outdoor spaces.
- 4.5 Evaluate functional and aesthetic considerations in landscape design.

CO 5: Principles of Landscape Design

After completing this unit, students will be able to:

- 5.1 Explain principles such as unity, balance, rhythm, proportion, harmony.
- 5.2 Differentiate between axis, symmetry, and asymmetry in layouts.
- 5.3 Identify focal points and establish visual hierarchy in design.
- 5.4 Assess scale and human comfort in landscape spaces.
- 5.5 Apply design principles to create coherent landscape layouts.

CO 6: Landscape Ecology and Sustainability

After completing this unit, students will be able to:

- 6.1 Define landscape ecology and its relevance to design.
- 6.2 Explain ecosystems and biodiversity in landscape contexts.
- 6.3 Assess environmental impacts of landscape development.
- 6.4 Apply sustainable practices such as water conservation and rainwater harvesting.
- 6.5 Design climate-responsive landscapes that promote ecological balance.

Cocurricular activities:

- Garden and site surveys – practical exposure to landscape elements.
- Visits to parks, heritage gardens, and exhibitions – experiential learning.
- Landscape museum/documentation – study of styles, ecology, and sustainability.

CO-PO MATRIX

	Basic knowledge	Discipline knowledge	Experiments and practice	Engineering tools	Engineer and society	Environment and sustainability	Ethics	Individual and team work	Communication	Lifelong learning	
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	Mapped POs
CO1	X				x						1,5
CO2	X	x						x	x		1,2,8,9
CO3					x		x				5,7
CO4					x		x	x	x		5,7,8,9
CO5	X	x		x	x	x					1,2,4,5,6

EXAMINATIONPATTERN										
MIDSEM-IEXAM(Duration of Exam:1Hour)										
		PARTA		PARTB	PARTC	Total Marks				
Marks/Question		1Markeach		3Markseach	5 Marks each	20 Marks				
No.ofQuestions		4 Questions		2/4 Questions	2/4 Questions					
S.No.	UnitNo.	R		U	A	Remarks				
1	UNITI	1,2		5(a)or5(b)	7(a)or 7(b)					
2	UNITII	3,4		6(a)or 6(b)	8(a)or 8(b)					
TotalQuestions		4		4	4					
TotalMarks		4		6	10	20 Marks				
MIDSEM-IIEXAM(Duration ofExam:1Hour)										
1	UNITIII	1,2		5(a)or5(b)	7(a)or 7(b)					
2	UNITIV	3,4		6(a)or 6(b)	8(a)or 8(b)					
TotalQuestions		4		4	4					
TotalMarks		4		6	10	20 Marks				
SEMESTERENDEXAMINATION(DurationofExam:2 Hours)										
		PARTA		PARTB	PARTC	Total Marks				
Marks/Question		1Markeach		3Markseach	5Marks each	40 Marks				
No.ofQuestions		8 Questions		4/8 Questions	4/8 Questions					
S.No.	UnitNo.	R		U	A	Remarks				
1	UNITI	4	1		9(a)	13(a)				
2	UNITII		2		10(a)			14(a)		
3	UNITIII									
4	UNITIV									
5	UNITV		3	5,6		9(b)		13(b)		
						11(a)		15(a)		
						11(b)		15(b)		
6	UNITVI			7,8		10(b)		14(b)		
						12(a)		16(a)		
						12(b)		16(b)		
TotalQuestions		8		8	8					
TotalMarks		8		12	20	40 Marks				

MODEL QUESTION PAPER
STATE BOARD OF TECHNICAL EDUCATION AND TRAINING BOARD
DIPLOMA MID SEM – I EXAMINATION (C-26)
LD-105-INTRODUCTION TO LANDSCAPE DESIGN

Duration: 1 Hour

Maximum Marks: 20

Units Covered: Unit I and Unit II

Instructions

1. Answer all questions in Part A.
2. Answer any TWO questions from Part B.
3. Answer any TWO questions from Part C.

PART – A

(4 × 1 = 4 Marks)

1. Define landscape?
2. Name one feature of Persian gardens?
3. What is meant by informal landscape style?
4. Mention one cultural influence on landscape design?

PART – B

(2 × 3 = 6 Marks)

5. (a) Explain the significance of gardens in human civilization?

OR

- (b) List any three features of Roman gardens?

6. (a) Define the concept of landscape and its relationship with man and nature?

OR

- (b) List any three formal landscape styles?

PART – C

(2 × 5 = 10 Marks)

- 7(a) Trace the evolution of gardens from Egyptian to mughal styles?

OR

- 7(b) Discuss the influence of climate and geography on landscape development?

- 8(a) Compare Italian Renaissance gardens with English landscape gardens?

OR

- 8(b) Explain formal and informal landscape styles with suitable examples?

MODEL QUESTION PAPER
STATE BOARD OF TECHNICAL EDUCATION AND TRAINING BOARD
DIPLOMA MID SEM – II EXAMINATION (C-26)
LD-105-INTRODUCTION TO LANDSCAPE DESIGN

Duration: 1 Hour

Maximum Marks: 20

Units Covered: Unit III and Unit IV

Instructions

1. Answer all questions in Part A.
2. Answer any TWO questions from Part B.
3. Answer any TWO questions from Part C.

PART – A

(4 × 1 = 4 Marks)

1. Define landscape architecture as a profession?
2. Name one natural element used in landscape design?
3. Mention one role of a landscape professional?
4. What is meant by hardscape in landscape design?

PART – B

(2 × 3 = 6 Marks)

- 5(a) Explain the interdisciplinary nature of landscape practice?

OR

- 5(b) List any three areas of practice in landscape architecture?

- 6(a) Describe the use of color, texture, and form in landscape design?

OR

- 6(b) List any three man-made elements in landscape design ?

PART – C

(2 × 5 = 10 Marks)

- 7(a) Discuss the career opportunities available for landscape professionals in India?

OR

- 7(b) Explain the roles and responsibilities of landscape architects in public projects?

- 8(a) Compare hardscape and softscape components with suitable examples?

OR

- 8(b) Explain functional and aesthetic considerations in landscape design with examples?

MODEL QUESTION PAPER
STATE BOARD OF TECHNICAL EDUCATION AND TRAINING BOARD
DIPLOMA SEMESTER EXAMINATION (C-26)
LD-105-INTRODUCTION TO LANDSCAPE DESIGN

Semester End Examination (SEE)

Duration: 2 Hours

Maximum Marks: 40

Instructions to Candidates

- i. Answer all questions in Part A.
- ii. Answer any FOUR questions from Part B.
- iii. Answer any FOUR questions from Part C.
- iv. Draw neat sketches wherever necessary.

PART – A

(8 × 1 = 8 Marks)

(Answer all questions)

1. Define landscape ecology?
2. Name one characteristic of Japanese gardens ?
3. What is meant by visual hierarchy?
4. Mention one principle of landscape design?
5. Give one example of a man-made landscape element?
6. Define biodiversity?
7. What is rainwater harvesting?
8. Name one climate-responsive landscape practice?

PART – B

(4 × 3 = 12 Marks)

(Answer any FOUR questions)

9(a) Explain the significance of gardens in human civilization?

OR

9(b) List features of Mughal gardens in India?

10(a) Define landscape and explain its relationship with man and nature?

OR

10(b) List sustainable landscape concepts?

11(a) Explain the interdisciplinary nature of landscape practice.?

OR

11(b) List career opportunities in landscape architecture?

12(a) Differentiate between hardscape and softscape?

OR

12(b) List natural elements used in landscape design?

13(a) Explain unity, balance, and rhythm in landscape design?

OR

13(b) Discuss focal points and visual hierarchy?

14(a) Define landscape ecology and explain its importance?

OR

14(b) List sustainable practices in landscape planning?

PART – C

(3 × 5 = 20 Marks)

(Answer any FOUR questions)

15 (a) Trace the historical development of gardens from Egyptian to European styles?

OR

15 (b) Compare Mughal gardens with French formal gardens?

16 (a) Explain the evolution of landscape design through different periods ?

OR

16(b) Discuss influence of culture, climate, and geography on landscape styles ?

17 (a) Explain scope and responsibilities of landscape architects in India ?

OR

17 (b) Discuss career opportunities and future scope of landscape architecture ?

18 (a) Explain natural and man-made elements of landscape design with examples ?

OR

18 (b) Discuss functional and aesthetic considerations in landscape design?

19 (a) Explain principles of landscape design such as unity, balance, proportion, and harmony?

OR

19(b) Discuss application of design principles in landscape layouts?

20(a) Explain landscape ecology, biodiversity, and sustainable practices ?

OR

20(b) Discuss water conservation, rainwater harvesting, and climate-responsive landscape design ?