

**MASTER OF ARCHITECTURE
(LANDSCAPE ARCHITECTURE)**

SCHEME OF EXAMINATION

1 st YEAR - SEMESTER I												
Classification of Course	Code	Course	Hours/ Week	L	T	S	Credits	External Exam Type	Marks			Duration of (Theory) Exam
									Internal Assessment	External Examination	Total	
Core	LA1.01	Geology & Soils	2	2	0	0	2	Written-Exam	50	50	100	2 hrs.
	LA1.02	Hydrology & Geomorphology	2	2	0	0	2	Written-Exam	50	50	100	2 hrs.
	LA1.03	Ecology, Plant Taxonomy and Plant Physiology	2	2	0	0	2	Written-Exam	50	50	100	2 hrs.
	LA1.04	Landscape Engineering-I	3	2	1	0	3	Written-Exam	100	100	200	3 hrs.
	LA1.05	Landscape Architecture Studio - I	15	0	0	15	15	Jury	375	375	750	-
TOTAL			24				24		625	625	1250	

List of Abbreviations

L = Lecture; T = Tutorial/ Seminar/ Research/ Lab; S = Studio; NC = Non-Credit

1 st YEAR - SEMESTER II												
Classification of Course	Code	Course	Hours/ Week	L	T	S	Credits	External Exam Type	Marks			Duration of (Theory) Exam
									Internal Assessment	External Examination	Total	
Core	LA2.01	Remote Sensing & GIS based Land Information System	2	0	2	0	2	Written-Exam	50	50	100	2 hrs.
	LA2.02	Theory of Landscape Architecture	2	2	0	0	2	Written-Exam	50	50	100	2 hrs.
	LA2.03	Planting Design, Management & Landscape Economics	2	2	0	0	2	Written-Exam	50	50	100	2 hrs.
	LA2.04	Landscape Architecture Studio - II	14	0	0	14	14	Jury	250	250	500	-
Department Elective	LA2.05	Departmental Elective	2	2	0	0	2	Written-Exam	50	50	100	2 hrs.
Institute Elective	LA2.06	Institutional Elective	2	2	0	0	2	Internal Only	100	0	100	-
TOTAL			24				24		550	450	1000	

List of Abbreviations

L = Lecture; T = Tutorial/ Seminar/ Research/ Lab; S = Studio; NC = Non-Credit

2 nd YEAR - SEMESTER III												
Classification of Course	Code	Course	Hours/ Week	L	T	S	Credits	External Exam Type	Marks			Duration of (Theory) Exam
									Internal Assessment	External Examination	Total	
Core	LA3.01	Landscape Engineering - II	2	2	0	0	2	Written-Exam	50	50	100	2 hrs.
	LA3.02	Dissertation	2	0	2	0	2	Written-Exam	50	50	100	2 hrs.
	LA3.03	Urban and Regional Landscapes	2	2	0	0	2	Written-Exam	50	50	100	2 hrs.
	LA3.04	Landscape Architecture Studio - III	12	0	0	12	12	Jury	250	250	500	-
Department Elective	LA3.05	Departmental Elective	2	2	0	0	2	Written-Exam	50	50	100	2 hrs.
Institute Elective	LA3.06	Institutional Elective	2	2	0	0	2	Internal Only	100	0	100	-
TOTAL			22				22		550	450	1000	

List of Abbreviations

L = Lecture; T = Tutorial/ Seminar/ Research/ Lab; S = Studio; NC = Non-Credit

2 nd YEAR - SEMESTER IV												
Classification of Course	Code	Course	Hours/ Week	L	T	S	Credits	External Exam Type	Marks			Duration of (Theory) Exam
									Internal Assessment	External Examination	Total	
Core	LA4.01	Landscape Project Management and Professional Practice	2	2	0	0	2	Written-Exam	100	100	200	3 hrs.
Studio	LA4.02	Landscape Architecture Studio – IV (Thesis)	12	0	0	12	12	Jury	375	375	750	-
TOTAL			14				14		475	475	950	
GRAND TOTAL OF ALL SEMESTERS			84				84		2200	2000	4200	

List of Abbreviations

L = Lecture; T = Tutorial/ Seminar/ Research/ Lab; S = Studio; NC = Non-Credit

SYLLABUS

FIRST YEAR: SEMESTER I

LA1.01: Geology & Soils

Hrs / Week	Lecture	Tutorial	Studio	Credits	External Exam Type	Marks			Duration of (Theory) Exam
						Internal Assessment	External Examination	Total	
2	2	0	0	2	Written-Exam	50	50	100	2 hrs.

Course Content

- Meaning of fossils as keys to the past.
- Earthquakes seismic micro zonation, seismic zones of India.
- Minerals and Metals.
- Rocks: Igneous, Sedimentary, Metamorphic.
- Isostasy, plate tectonics, crustal deformation and mountain building.
- Structural geology: dip, strike, folds, faults, joints, unconformities. Stratigraphy: principles, stratigraphy and geology of India.
- Application of geological information and

data in the interpretation of landscapes on maps and in the field.

- The relationships between geology, soils and plant and vegetation pattern: Practical examples. Geology data collection: -Survey, satellite data etc.
- Soils:
 - » Genesis, morphology and classification of soils. Soils types of India: -
 - » Properties of Soils: Physical, Chemical, Biological and Mineralogical.
 - » Soil use and Management:
 1. Soil evaluation and land-use planning.

2. Soil and water conservation.
3. Soil fertility and plant nutrition.
4. Soil degradation control, remedial actions and reclamation techniques.
5. Soil assessment at micro and macro level by various methods.
6. Managing difficult soils.

Evaluation Method

Through class test, quiz and / or field exercise in application of geology / soil information in landscape planning & design or appropriate method as decided by the concerned Faculty.

LA1.02: Hydrology & Geomorphology

Hrs / Week	Lecture	Tutorial	Studio	Credits	External Exam Type	Marks			Duration of (Theory) Exam
						Internal Assessment	External Examination	Total	
2	2	0	0	2	Written-Exam	50	50	100	2 hrs.

Course Content

Hydrology:

- Hydrological cycle and sources of surface & subsurface water
- Physical and chemical characteristics
- Rainfall regimes with specific reference to the India
- Characteristics and management of drainage basins: Introduction to watersheds
- Types of Flow: channel and sheet flow, laminar & turbulent flow.
- Antecedent soil moisture
- Infiltration and saturation access over land flow
- Practical application of hydrological principles to landscape planning and design.
- Occurrence and movement of ground water

- Water bearing properties of geological formation, artesian conditions development of karst topography; saltwater intrusions
- Aquifers recharge area, infiltration characteristics,
- Groundwater management, sources of ground water pollution and its control
- Methods of water conservation & conveyance of water
- Rainwater harvesting, artificial recharge
- Theoretical description of flow infiltration modelling

Geomorphology:

- Historical geomorphology: Landscape evolution models
- Geomorphological features of the Indian subcontinent.
- Geomorphological processes: Endogenic, Exogenic, Extra-terrestrial. Major processes

and associated landforms: Tectonic, fluvial, Aeolian, coastal, karst, glacial, and topography caused by ground water.

- Climatic geomorphology and morphogenic regions.
- Structural geomorphology, landforms developed on sedimentary sequences, volcanoes and volcanic landforms, pseudo structural landforms.
- Running water and underground water; channel networks and drainage basins.
- Landforms related to the activities of organisms and man.
- Application of remote sensing in geomorphology.

Evaluation Method

Through class test, quiz or appropriate method as decided by the concerned faculty.

LA1.03: Ecology, Plant Taxonomy and Plant Physiology

Hrs / Week	Lecture	Tutorial	Studio	Credits	External Exam Type	Marks			Duration of (Theory) Exam
						Internal Assessment	External Examination	Total	
2	2	0	0	2	Written-Exam	50	50	100	2 hrs.

Course Content

- Introduction to the Plant Kingdom.
- Basic plant structure / morphology / anatomy / plant functions and related aspects
- Principles of taxonomy / classification, identification and naming
- Photosynthesis and respiration mechanism
- Application of Plant Physiography to sustainable landscape design such as use of CAM (Crassulacean acid metabolism) plants in Green roofs etc.
- Familiarity with local flora
- Growth regulators
- Ecological and Botanical considerations in landscape design
- Concept of Ecosystem: General Structure and Function:
 1. Energy flow, Primary & Secondary Production
 - 2, Types of Biogeochemical cycles; Carbon cycle, Global water cycles, nitrogen cycle bioaccumulation and bio magnifications and
 3. Analysis and evaluation. Concept of ecosystem services.
- Ecology and ecological systems
 1. Types of Ecosystems
 2. The Plant Community: General
 - a. Structure,
 - b. Concept of ecological Succession and Maturity, Types of succession
 - c. Analysis.
 - d. Description and Evaluation
 3. Systems Ecology: Introduction to systems approach and mathematical modelling in ecosystem management
- Population Dynamics:
- Consequences of climate change on regional ecology
- Aquatic ecology – fresh water and marine
- Field ecology: Quadrat, transects, community analysis
- Field work and laboratory analysis of data
- Microclimate: Definition and characteristics. The role of landscape components in modifying microclimate with respect to temperature, humidity, precipitation, air corridors, heat islands, wind speed etc., in cities. Evaluation of microclimate data.
- Introduction to Air pollution and Bio-meteorology; climatic comfort indices. Sources and consequences of various types of air pollutants. Air pollution monitoring, quality criteria and its relation to plant.
- The urban forestry: It's ecological social and environmental dimensions. Urban vegetation and its role in the urban landscape.
- Forest types of India; introduction to forest related Acts, forest policy, and management of forest resources. Conservation Forestry, Agro-Forestry and Social Forestry.
- Significance of biodiversity, urban biodiversity, wildlife conservation

Evaluation Method

The internal assessment shall be conducted through, test, quiz collection of field data or appropriate method as decided by the concerned faculty.

LA1.04: Landscape Engineering - I

Hrs / Week	Lecture	Tutorial	Studio	Credits	External Exam Type	Marks			Duration of (Theory) Exam
						Internal Assessment	External Examination	Total	
3	2	1	0	3	Written-Exam	100	100	200	3 hrs.

Course Content

- Site Survey: techniques, methods and appraisal. Contour characteristics and there, graphical representation, and interpolation.
- Visualization of landforms.
- Earth form Grading; symbols, annotations, basic grading principles for grading of terraces, and roads road
- Horizontal and Vertical alignment of projects roads.
- Surface Drainage: Site planning for efficient drainage; understanding drainage pattern and watershed area, determination of catchments area and calculation of surface runoff.

- Types of drainage systems, design of drainage elements: swales and culverts etc.
- Sub surface drainage planning.
- Planning, grading and drainage of sports fields.
- Landscape working drawings: Format and representation of information.
- Overall organization of design drawings and data as respective package with relevant cross- referencing.
- Use of relevant software and introduction to advanced mapping technology for analysis.
- Site mobilisation; Sequence of site activity, site protection measures, site

implementation checklist.

- Landscape Engineering and water conservation; Watersheds and their characteristics, protection of natural water bodies: water retention structures, water harvesting techniques and devices.
- Environment-friendly material specifications and methodologies in landscape, to reduce carbon footprint.

Evaluation Method

The internal assessment shall be conducted through, test, quiz collection of field data or appropriate method as decided by the concerned faculty.

LA1.05: Landscape Architecture Studio-1

Hrs / Week	Lecture	Tutorial	Studio	Credits	External Exam Type	Marks			Duration of (Theory) Exam
						Internal Assessment	External Examination	Total	
15	0	0	15	15	Jury	375	375	750	-

Course Content

- Readings in Landscape Architecture
- Introductory exercises in Art, Architecture & Landscape urban form
- Introduction to Constitutes of Landscape – Urban, Rural, Suburban, Natural.
- Landscape Analysis and Site Planning for

medium sized sites (up to approx. 2 Ha)

- Site inventory, data visualization; analysis; assessments and landscape design of small spaces.
- Development of graphic representations and verbal and written skills using contemporary methods and tools

Evaluation Method

Studio exercise shall be evaluated by periodic reviews/ presentation on the basis of design quality, graphics and verbal written & behavioural communication skills.

FIRST YEAR: SEMESTER II

LA2.01: Remote Sensing & GIS Based Land Information System

Hrs / Week	Lecture	Tutorial	Studio	Credits	External Exam Type	Marks			Duration of (Theory) Exam
						Internal Assessment	External Examination	Total	
2	0	2	0	2	Written-Exam	50	50	100	2 hrs.

Course Content

Remote Sensing, Land Information System & GIS

Concept and Foundation of Remote Sensing

Elements of Photographic System

- Types of Aerial Photographs
- Vertical Photographs, Oblique Photographs, Satellite Imagery

Introduction to Air Photo Interpretation

Photogrammetry for Map Making

- Introduction /Definition
- Geometric Elements of a Vertical Photograph
- Relief Displacement
- Ground Control for Aerial Photography
- Digital Image Processing

Applications

- Geologic & Soil mapping

- Land-use / land cover Mapping a) Land use Classification
- Agriculture Applications
- Forestry Applications
- Water resource Applications:
- Water Pollution Detection
- Flood Damage Estimation
- Urban & Regional Planning Applications
- Wetland mapping

Geographical Information Systems

- Definition
- Composition of Geographical Information System
- Computer Hardware Module
- GIS Software Module
- Data Input, Data Storage, Data Output
- Database Structures

Description of the following:

- Application of GIS & Remote Sensing
- Automated Mapping/ Facility Management. (AM/FM)
- 3-D GIS Digital Elevation Model & Digital Terrain Model
- Digital Image Processing and Editing; Error Detection and Correction
- Geo Spatial Analysis: Turning Data into Meaningful information.
- Comparison of Vector & Raster Methods
- Internal G.I.S.
- Network Analysis
- Open GIS

Evaluation Method

The internal assessment shall be conducted through, test, quiz / laboratory experiences at G.I.S. Lab or appropriate method as decided by the concerned teacher.

LA2.02: Theory of Landscape Architecture

Hrs / Week	Lecture	Tutorial	Studio	Credits	External Exam Type	Marks			Duration of (Theory) Exam
						Internal Assessment	External Examination	Total	
2	2	0	0	2	Written-Exam	50	50	100	2 hrs.

Course Content

- Settlements and Landscape: Siting and evolution of cities in relation to regional landscape resources. The role of landform, water systems, climate and vegetation. Illustrative studies of cities in India and elsewhere.
 - Dialogue on developing an analytical approach to the study of theory; developing an attitude towards critique and evaluation of choices for design decisions in varied contexts of space and time. Appreciation of scale in terms of garden, landscape and nature.
 - An outline of the chronology of development and evolution of landscape and garden design in relation to art, architecture and city planning from the earliest period to the present day: towards a comprehensive and inclusive vision of Landscape Architecture. For study of this, a prior understanding of various styles is required which is discussed during the course of the subject only.
- Hence this may be changing perceptions of man's relationship with nature in various phases of history; responses and attitudes to nature and landscape resources as a function of this perception.
- Environmental and behavioural theories: Entropy, Prospect and Refuge, Defensible space etc. An introduction to social and cultural dimensions of landscape.
 - Development of landscape design and gardens till the early 19th century: Detailed study of selected examples from Eastern, Central and Western traditions; Influences and linkages across cultures and traditions, including
 - Ancient Heritage: Mesopotamia, Egypt, Greece, Rome, South America
 - Western Civilization: Europe; Italy, France, and England
 - Central: The Persian tradition and its far-reaching influence
 - Eastern Civilisation: China and Japan, Ancient and medieval period in India; Mughal and Rajput & Colonial Landscapes.
 - e.g. Chinese tradition and the English Landscape style, influence of Persian traditions towards the West and East.
 - Study the various aspects of cultural landscapes. Their definition, identification, characteristics & polices. Landscape inventory/ documentation conservation of historical landscapes.
 - Cultural landscapes, their definition, identification, characteristics and polices; Landscape inventory and conservation of historical landscape

Evaluation Method

The internal assessment shall be conducted through, test, quiz collection of field data or appropriate method as decided by the concerned teacher.

LA2.03: Planting Design, Management & Landscape Economics

Hrs / Week	Lecture	Tutorial	Studio	Credits	External Exam Type	Marks			Duration of (Theory) Exam
						Internal Assessment	External Examination	Total	
2	2	0	0	2	Written-Exam	50	50	100	2 hrs.

Course Content

- Criteria for plant selection
- Planting design through the ages - a brief historic perspective.
- Planting as a design element for structuring the landscape.
- Differentiation between trees, shrubs, ground cover and creepers.
- Physical, botanical, horticultural and medicinal considerations for plant selection including (but may not be limited to) of form, leaf colour and texture, branching habit and trunk form and their texture, colour of flowers and fruit besides. Spring, winter summer and autumn variation in appearance.
- Visual aesthetic and functional considerations in planting design. The role of plant material in environmental improvement, (e.g. soil conservation, modification of microclimate, etc.). Planting for windbreaks and shelter belts.
- Planting in various environments such as woodlands, forests, rural areas, urban areas, roadside planting in urban and rural areas, industrial sites etc.
- Planting considerations & design for habitat protection / improvement/ reclamation of grasslands, woodlands, sloping areas, marshes, bogs, wetlands, waterside and aquatic planting etc.
- Planting design and ecological considerations, stratification of plant material in nature, herbal plants and their uses.
- Role of plants in development of sustainable landscapes.
- Growth rate of plants as a criterion for plant choice for particular situations. The concept of nurse planting. Creating conditions for plant establishment, planting and transplanting trees and shrubs.
- Transportation and maintenance of plant material.
- The preparation of planting concepts, planting plans and plant schedules for various scales of project. Estimation of costs and preparation of Bill of quantity.

Evaluation Method

The internal assessment shall be conducted through, test, quiz site visits/ collection of field data or appropriate method as decided by the concerned faculty.

LA2.04: Landscape Architecture Studio - II

Hrs / Week	Lecture	Tutorial	Studio	Credits	External Exam Type	Marks			Duration of (Theory) Exam
						Internal Assessment	External Examination	Total	
14	0	0	14	14	Jury	250	250	500	-

Course Content

- Exercise related to the application of ecological principles in a range of situations and directed towards understanding and proposing design possibilities in:
- Urban Open Space systems

- Rural Landscape
- Heritage and Cultural Landscape
- Development of graphic representations and verbal and written skills using contemporary methods and tools

Evaluation Method

Studio exercise shall be evaluated by periodic reviews/ presentation on the basis of design quality, graphics and verbal written & behavioural communication skills.

LA2.05: Departmental Elective

Hrs / Week	Lecture	Tutorial	Studio	Credits	External Exam Type	Marks			Duration of (Theory) Exam
						Internal Assessment	External Examination	Total	
2	2	0	0	2	Written-Exam	50	50	100	2 hrs.

Course Content

The subject for the Departmental Elective shall be decided on a semester basis depending on contemporary concerns and availability of faculty.

LA2.06: Institutional Elective

Hrs / Week	Lecture	Tutorial	Studio	Credits	External Exam Type	Marks			Duration of (Theory) Exam
						Internal Assessment	External Examination	Total	
2	2	0	0	2	Internal Only	100	0	100	-

Course Content

The subjects for Institutional Elective shall be decided on a semester basis depending on

the requirement of the department and on the basis of the interest expressed or requests received from various departments of school.

Evaluation Method

Through class tests, quiz or appropriate method as decided by the concerned faculty.

SECOND YEAR: SEMESTER III

LA3.01: Landscape Engineering - II

Hrs / Week	Lecture	Tutorial	Studio	Credits	External Exam Type	Marks			Duration of (Theory) Exam
						Internal Assessment	External Examination	Total	
2	2	0	0	2	Written-Exam	50	50	100	2 hrs.

Course Content

- Methods and materials used in construction and detailing of landscape structures / planting.
 - Grading and storm water drainage: Roads, parking lots, paths and plazas.
 - Landscape engineering options aspects and methods of grading and representation of:
 - » Grade change device: Wall, steps, planters and ramps along with combination of such devices.
 - » Planting: Planters, beds, edges and terraces.
 - » Water elements: Pools, water bodies and water features
 - » Landscape simulation and site utilities:
- Basic planning and understanding of principles for:
- a. External lighting; types of fixtures and their use in varying situations.
 - b. Irrigation: broad systems and their utility as per plantation typology.
 - c. Street furniture / site furnishings
- Overall considerations and co-ordinators of external services such as electrical, plumbing CCTV & intercom cables vis-à-vis routing and interface with landscape elements.
 - Understanding land/ environmental modifications and engineering intervention in:
 - » Soil conservation and erosion control measures.
 - » Land reclamation and rehabilitation process.
 - » Disposal of sludge, fly-ash, solid and liquid waste.
 - » Strip-mines and quarries.
 - » Transportation corridors.
 - » Horticulture and Forestry techniques.

Evolution Method

The internal assessment shall be conducted through, test, quiz collection of field data or appropriate method as decided by the concerned faculty.

LA3.02: Dissertation

Hrs / Week	Lecture	Tutorial	Studio	Credits	External Exam Type	Marks			Duration of (Theory) Exam
						Internal Assessment	External Examination	Total	
2	0	2	0	2	Written-Exam	50	50	100	2 hrs.

Course Content

- Topics related to various aspects of Landscape Architecture would be chosen in consultation with faculty members, comprehensively researched, and findings presented in a series of seminars by individual students.

- The materials would be documented and formally presented as a Dissertation at the end of the semester.
- The dissertation would be of a length of between 3000 and 4000 words with illustrations, references, footnotes and annotations.

Evaluation Method

The internal assessment shall be conducted through, test, quiz collection of field data or appropriate method as decided by the concerned faculty.

LA3.03: Urban and Regional Landscapes

Hrs / Week	Lecture	Tutorial	Studio	Credits	External Exam Type	Marks			Duration of (Theory) Exam
						Internal Assessment	External Examination	Total	
2	2	0	0	2	Written-Exam	50	50	100	2 hrs.

Course Content

- Nineteenth Century Europe: The socio-cultural impact of industrialization and urbanization; its effect on public health legislation and the development of new landscape types, public parks and facilities for sports.
- Open space development in its urban design and planning context. Early industrial towns and the Garden City movement.
- USA: Further evolution of the public park as a major component of urban landscape. The work of F. L. Olmsted and other pioneers. Park-Systems and suburban development centered on open space.

- The Modern Movement: changing concepts of space and the relationship of architecture and landscape illustrated through studies of selected works of the modern masters.
- Post-war development in Europe: New Towns in England and the concept of Landscape Structure.
- Landscape Urbanism; Examples of open space development in new towns and urban renewal to illustrate the close conceptual relationship between town planning, urban design and landscape architecture (e.g. Haussmann’s Paris, Lutyen’s Delhi).
- Study of contemporary landscape architecture on basis of varying context,

- design uses and spatial typologies, with detailed analysis of selected examples.
- Contemporary concepts and concerns: “Green” Architecture and Energy-Saving site planning and Landscape Architecture; sustainable landscapes
- Artistic sensibility in Landscape Architecture, land art;

Evaluation Method

The internal assessment shall be conducted through, test, quiz collection of field data or appropriate method as decided by the concerned faculty.

LA3.04: Landscape Architecture Studio - III

Hrs / Week	Lecture	Tutorial	Studio	Credits	External Exam Type	Marks			Duration of (Theory) Exam
						Internal Assessment	External Examination	Total	
12	0	0	12	12	Jury	250	250	500	-

Course Content

- Relatively large-scale exercise of analysis and proposals related to Design of:
 - » Institutional Campuses
 - » Urban civic spaces at urban design scale, and

- » Transportation and interchange systems and complexes
- » Sustainable Landscapes
- » Development of graphic representations and verbal and written skills using contemporary methods and tools

Evaluation Method

Studio exercise shall be evaluated by periodic reviews/ presentation on the basis of design quality, graphics and verbal written & behavioural communication skills.

LA3.05: Departmental Elective

Hrs / Week	Lecture	Tutorial	Studio	Credits	External Exam Type	Marks			Duration of (Theory) Exam
						Internal Assessment	External Examination	Total	
2	2	0	0	2	Written-Exam	50	50	100	2 hrs.

Course Content

The subject for the Departmental Elective shall be decided on a semester basis depending on contemporary concerns and availability of faculty.

LA3.06: Institutional Elective

Hrs / Week	Lecture	Tutorial	Studio	Credits	External Exam Type	Marks			Duration of (Theory) Exam
						Internal Assessment	External Examination	Total	
2	2	0	0	2	Internal Only	100	0	100	-

Evaluation Method

The subjects for Institutional Elective shall be decided on a semester basis depending on the requirement of the department and on the basis of the interest expressed or requests received from various departments of school.

SECOND YEAR: SEMESTER IV

LA4.01: Landscape Project Management and Professional Practice

Hrs / Week	Lecture	Tutorial	Studio	Credits	External Exam Type	Marks			Duration of (Theory) Exam
						Internal Assessment	External Examination	Total	
2	2	0	0	2	Written-Exam	100	100	200	3 hrs.

Course Content

Regulations and Legal Aspects

- Codes, Standards, Bye laws and planning regulations applicable to building and landscape development. The role of statutory and regulatory bodies such as the Municipal Corporation, N.D.M.C, D.D.A and Urban Art commission etc.

Construction Administration & Implementation Process

- Sequence of activities from inception to completion: agencies involved at each stage, their professional relationships and obligations. Co-ordination of agencies and activities on site. Practical examples.
- Budgetary control, progress evaluation and monitoring: various kinds of estimates, review and updating, simple examples of PERT charts and bar diagrams.
- Site documentation: importance of written records. Site instruction book, periodic reports, visual records, bar charts etc.
- Techniques of inspection and quality control; visits to site under development.

Construction Documents

- Contract Procedure; Criteria for selecting contractors: the process of calling tenders. Comparison of various kind of tenders with regard to objectives, utility and appropriateness.
- Tender Documentation and evaluation of tender; negotiations with contractors.
- Contract Documentation: Forms of contract; General and special conditions, specifications, Bill of quantities; significant clauses pertaining to defects, maintenance, arbitrations, etc.
- Parties to the contract; their roles, contractual relationships and legal obligations.

Professional Practice

- Types of client: Private, Government, Corporate etc. The scope and meaning of professional services.
- Professional relationship between client and Landscape Architect: Forms of agreement, conditions of engagement,

scope of work and services to be provided.

- Scale of Professional Fees: Common and accepted methods of charging fees, percentage, lump sum, time-basis etc. Calculation and estimation of fee based on work involved. Taxes, remuneration and reimbursement.
- Role of Professional Institute: Professional code of conduct. Relationship of Landscape Architect with other professionals.
- Practical illustrations of various aspects of Client-Landscape Architect transactions, especially with regards to the establishment of credibility and trust.

Landscape Design Competitions: Types & Guidelines

Evaluation Method

The internal assessment shall be conducted through, test, quiz collection of field data or appropriate method as decided by the concerned faculty.

LA4.02: Landscape Architecture Studio -IV (Thesis)

Hrs / Week	Lecture	Tutorial	Studio	Credits	External Exam Type	Marks			Duration of (Theory) Exam
						Internal Assessment	External Examination	Total	
12	0	0	12	12	Jury	375	375	750	-

Course Content

- Application to a Landscape Planning or Landscape Design proposal with adequate and appropriate research.
- Development of graphic representations and verbal and written skills using contemporary methods and tools.

Evaluation Method

Studio exercise shall be evaluated by periodic reviews/ presentation on the basis of design quality, graphics and verbal written & behavioural communication skills.