GUJARAT TECHNOLOGICAL UNIVERSITY, AHMEDABAD, GUJARAT

COURSE CURRICULUM

COURSE TITLE: LANDSCAPE ARCHITECTURE

(COURSE CODE: 3355005)

Diploma Programme in which this course is offered	Semester in which offered
Architectural Assistantship	5th Semester

1. RATIONALE

Landscape design is combining creativity with nature and land modulation for aesthetic presentation of overall beauty of buildings. Landscape architect are responsible for well presentation of various aspect of exteriors for health, safety and welfare of users.

An architect should be aware of the environment and climate, as this awareness helps him/her in designing an efficient building. Knowledge and skill of landscaping helps architect to create an environment suitable to a designed building to make it healthy and pleasant to inhabit.

The course content designed, will provide an exposure and skills about landscaping.

2. LIST OF COMPETENCY

The course content should be taught and curriculum should be implemented with the aim to develop required skills in students so that they are able to acquire following competencies**:**

- **Visualize Landscape Design requirements for the given building and surroundings**
- **Prepare Landscape drawings including site layout and all plans, elevations and sectionsof a given space.**

3. COURSE OUTCOMES

The applied theory for this course should be taught and practical should be carried out in such a manner that students are able to acquire required learning out comes in cognitive, psychomotor and affective domain to demonstrate following course outcomes. Students will be able to

i. Suggest the alternative designs for landscaping for a given building and surroundings with the help of free hand sketching.
ii. Develop the design using the components and elements of landscape architecture
iii. Prepare all necessary Plans -- fully rendered with colour scheme, material, and description of species used.
iv. Develop Landscape design model of a selected a building unit/s

4. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (In Hours)			Total Credits (L+T+P)	Examination Scheme				
				Theory Marks		Practical Marks		Total Marks
L	T	P/S	C	ESE	PA	ESE	PA	
0	0	6	6	00	00	60	90	150

Legends: L-Lecture; **T-** Tutorial/Teacher guided theory Practice, S– Studio; **P** -Practical; **C** – Credit; **ESE** -End Semester Examination; **PA** - Progressive Assessment

5. COURSE CONTENT DETAILS

NOTE: There are no separate classes for theory and this theory should be discussed in the studio before relevant practical exercise**.**

Unit	Major Learning Outcomes (outcomes in cognitive domain)	Topics and Sub-topics
Unit – I Introduction	1a. Apply the concept of landscape designing. 1b. Appreciate environment/climate requirements on landscape designing	1.1 brief introduction of landscaping 1.2 Basic components of natural landscape Landforms, Water,Vegetation, etc. 1.3 climatic effect of landscaping
Unit – II Landscape Typologies	2a. Enlist the various components of Landscape design 2b. Explain various uses of the Landscape elements	2.1 Introduction to Historical landscape i. Indian Orchard System ii. Mughal Landscape iii. Oriental Landscape iv. Roman Landscape v. French Landscape vi. English Landscape vii. Modern Landscape
Unit – III Remodeling to Character Bungalow	3a. Develop Landscape design model of a selected a building unit/s 3b. Draw all the drawings, sketch to a suitable	**4.1** Floor plan with complete Site layout should including building units, roads and landscaped areas drawn clearly without rendering. **4.2** Landscape details to understand the layout in its totality.
Unit – IV Design of Landscape for a Character Bungalow	4a. Design hard and soft landscape features as per requirements. 4b. Develop the design using the components and elements of landscape architecture discussed afore.	4.1 Development of sketches showing spatial relationships and interactions to an appropriate scale. 4.2 Development of site layout with road network and landscaping. 4.3 Development of elevations and sections with respect to activities and usage of different spaces.

Unit	Major Learning Outcomes (outcomes in cognitive domain)	Topics and Sub-topics
Unit – V Presentation Drawings	5a. Prepare all necessary Plans -- fully rendered with colour scheme, material, and description of species used. 5b. Prepare 3D views/ sketches to explain the elements & designs	5.1 Plans and sectional elevations with detailed rendering showing all the components and elements of landscape e.g. Vegetation, garden furniture, hard and soft landscapes, water bodies, etc. as per the design.

6. SUGGESTED LIST OF EXERCISES/PRACTICALS/STUDIO WORK

The practical/exercises should be properly designed and implemented with an attempt to develop different types of skills **(outcomes in psychomotor and affective domain)** so that students are able to acquire the competencies/programme outcomes. Following is the list of practical exercises for guidance.

Note*: Here only outcomes in psychomotor domain are listed as practical/exercises. However, if these practical/exercises are completed appropriately, they would also lead to development of certain outcomes in affective domain which would in turn lead to development of* ***Course Outcomes*** *related to affective domain. Thus over all development of* ***Programme Outcomes (****as given in a common list at the beginning of curriculum document for this programme) would be assured.*

Faculty should refer to that common list and should ensure that students also acquire outcomes in affective domain which are required for overall achievement of Programme Outcomes/Course Outcomes.

S. No.	Unit No.	Practical/ Exercises (major outcomes in psychomotor domains)	Approx. Hours Required
1	I	Show the components of Landscape design.	**02**
2	II	Preparation of a presentation regarding various world landscape architecture as in history.	**14**
3	III	Preparation of Remodeling drawings of the Character Bungalow.	**18**
4	IV	Preparation of sketches for landscape design of the Character Bungalow.	**48**
5	V	Preparation of all final landscape drawings.	**30**
TOTAL			**112**

7. SUGGESTED LIST OF STUDENT ACTIVITIES

Following is the list of proposed student activities like: interactive group discussions, course/topic based seminars, internet based assignments, teacher guided self-learning activities, course/library/internet based studies,studying e-brochures of various materials, etc. These could be individual or group-based.

Suggested individual activities to be performed under the guidance of architecture faculty, are as follows,

i. Collect landscape drawings and photographs.
i. Visits to three star hotel, temple, to see practical demonstration landsacape.
ii. Market survey to vending stores/shops/showrooms for landscape materials, finishes and fixtures for studying and understanding their applications/uses, e.g. nurseries, lighting, garden furniture, etc.

8. SPECIAL INSTRUCTIONAL STRATEGIES (if any)

i. This subject has theory component that is taught during practical classes so as to develop and encourage subject related skills. For this each student needs to be attended to, by the concerned faculty individually and hence this subject should be treated as a **"studio"** subject.
ii. Concerned faculty member should remain in the design studio with the students when are working on their drawings and continuously give guidance, support and feedback to them whenever required.
iii. However, the concerned faculty member has the freedom to undertake any activity during the design studio hours which is related to this course and is beneficial to the students for learning and for further improving their studio work. These activities can be site visits, visits to architect's offices and arrangement of expert lectures and/or guest faculty for this course.

9. SUGGESTED LEARNING RESOURCES

A. List of Books

Sr. No.	Title of Book/Journals	Author	Publication
1.	The Small Garden		Tiger Books International, PLC London
2.	Practical Guide To Home Landscaping		Reader's Digest Services Pty Ltd, Sydney
3.	Landscape Architecture	John Ormsbee Simonds	London,ILIFFE books ltd.
4.	Time Saver Standards for Landscape Architecture	Charles W Harris	McGrawHill
5.	Constructing landscape : Materials, Techniques, structural components	Astrid Zimmermann	

B. List of Major Equipment/Instrument

i. Architectural Drafting Instruments and software

C. List of Software/Learning Websites

i. www.archnet.org
ii www. landscapearchitecturemagazine.org
iii www. landscape.cals.cornell.edu

10. COURSE CURRICULUM DEVELOPMENT COMMITTEE

Faculty Members from Polytechnics

- **Smt. F. D. Vatsraj,** Lect. In Arch., G.P.Vadnagar
- **Smt. Poonam A. Trambadia,** Lecturer in Architecture, Govt. Polytechnic for Girls', Surat
- **Shri. N.H. Patel,** Lect. In Arch., Govt. Polytechnic for Girls', Surat

Co-ordinator and Faculty Members from NITTTR Bhopal

- **Prof. J. P. Tegar**, Professor& Head, Department of Civil & Environment Engineering
- **Prof. M. C. Paliwal,** Associate Professor**,** Department of Civil & Environment Engineering