

UNIVERSITY OF PUNE

COURSE STRUCTURE AND SYLLABUS

FOR

MASTER OF ARCHITECTURE

M.ARCH (Landscape Architecture)

Effective from

JUNE 2008

FACULTY OF ENGINEERING
BOARD OF STUDIES IN ARCHITECTURE

SYLLABUS OF
MASTER'S DEGREE IN ARCHITECTURE
M. ARCH. (Landscape Architecture)

Preamble

From the traditional role that a landscape architect had to fulfill as a designer of gardens, the profession today invites the landscape architect to comment on and modify space, bringing to it his understanding of the natural factors of the place, culture, history. This complex process demands understanding of its history, societal processes and then design after understanding the future aspirations of the place student through out his / her academic career and on the personal interview.

Rather than following western models, the landscape architecture in India today needs to evolve its own philosophy by taking inspirations from the Indian past

The role of the Landscape architect with time is constantly modified and redefined with the changing scenario in the profession and arising complex ecological and environmental issues.

This course therefore focuses on –

- 1 Developing our own philosophy of landscape design by drawing upon Indian references to create Indian contemporary Landscapes.**

- 2 Effectively design contemporary landscapes and resolve environmental issues and ecological issues . Developing attitudes and concerns to create efficient and sustainable living environments and meaningfully contribute to the society by handling various scale of landscape projects.**

PROVISION OF INFRASTRUCTURE

The provision of infrastructure for Master's Course shall be done as per the guide lines laid down by the Council of Architecture, New Delhi, in respect of intake of students, class rooms, studios, laboratories, seminar rooms, library facilities, students amenities and all the appurtenant requirements to carry out teaching activity effectively.

APPOINTMENT OF TEACHING AND SUPPORTING STAFF

The appointment of teaching staff shall be done as per the norms laid down by C.O.A. New Delhi and other statutory bodies as applicable

RULES OF COURSE STRUCTURE FOR MASTER OF ARCHITECTURE.

M.ARCH. (Landscape Architecture)

RULES OF COURSE STRUCTURE FOR MASTER OF ARCHITECTURE.

M.ARCH. (Landscape Architecture)

RULE NO. 1 : ELIGIBILITY CRITERIA

A student seeking admission to Master of Architecture Course must have secured minimum 50% marks in aggregate in a Bachelor of Architecture degree course or equivalent courses recognized by the apex body with / without valid GATE score. The students with valid GATE score shall be given preference and the students without GATE score shall be considered subject to the vacancy.

RULE NO. 2 : SCHEME OF ASSESSMENT:

A candidate to be eligible for the Masters Degree in Architecture will be required to appear for and pass examinations as under

1. First Year M. Arch: SEM I AND SEM II
2. Second Year M. Arch. : SEM II AND SEM IV

University will declare combined result of

- SEM I + SEM II at the end of First Year and
- SEM III + SEM IV at the end of Second Year

RULE NO. 3 : GRANTING OF TERM

Academic year will consist of TWO SEMESTERS of 90 teaching days each. Sessional work/ assignments prepared by the students shall be continuously assessed by the Internal Teacher throughout the semester.

The candidate will be permitted to appear for the examinations at the end of each semester only if he/she keeps term at a college affiliated to the university and produces testimonials from the Principal for

1. 75% attendance in each head of passing of Theory and /or Sessional work as prescribed by the University.
2. Satisfactory completion of the Sessional Work prescribed for each subject and secured at least 50 % marks in the Internal Assessment for the same.
3. Good conduct.

RULE NO.4 : EXAMINATIONS

At each examinations Theory Paper Sessional and Sessional and viva – voce based on Sessional Work, as prescribed in the syllabus for the Examination at the end of each semester, shall constitute separate heads of passing.

RULE NO. 5 : SESSIONAL WORK ASSESSMENT:

- a) In respect of Sessional work in First , Second, Third and Fourth semesters, target date shall be fixed for the completion of each assignment. All assignments shall be continuously assessed by the Internal Teacher during each semester.
- b) For the First, Second, and Third Semester examinations, Sessional and Viva assessment will be done by an External Examiner, who is external to the college i.e. teacher from college other than one, whose students are being examined.
- c) For Fourth Semester examination, external assessment shall be carried out by a professional not teaching in any of the Colleges under University of Pune.
- d) An examiner for any of the subjects of examination shall have a minimum of 5 years of teaching/professional experience in his/her specific field of study.

RULE NO. 6: PRE REQUISITES AND RULES OF A.T.K.T. FOR ADMISSION TO HIGHER CLASSES

This course has been considered as an integrated one and students will be allowed to take admission to second, third and fourth semesters irrespective of number of subjects in which they are failing.

RULE NO. 7 : CRITERIA FOR PASSING

To pass the First and Second Year Examination, a candidate must obtain minimum 50 % marks in each paper, 50% in Sessional/Viva voce and 50% in aggregate.

RULE NO. 8 : GRADING SYSTEM

THE CLASS FOR THE DEGREE SHALL BE AWARDED TO THE STUDENT ON THE AGGREGATE MARKS OBTAINED BY HIM IN FIRST AND SECOND YEAR TAKEN TOGETHER.

The award of class shall be as follows.

- a) Aggregate 66% or more: First Class with Distinction.
- b) Aggregate 60% or more but less than 66% marks: First Class
- c) Aggregate 55% or more but less than 60% marks: Higher Second Class
- d) Aggregate 50% or more but less than 55% marks: Second Class

RULE NO. 9 : EXEMPTIONS AND SUPPLEMENTARY EXAMINATION

In case a candidate fails and desires to appear again,

- a) He/she will be exempted from appearing in the head/s of passing in which he/she has passed
- b) A candidate will have to appear for the examination of backlog subjects along with the examination of current semester.

RULE NO. 10 : OTHER RULES:

University/ affiliated colleges may frame additional rules and regulations or modify these regulations if required, and once approved by the University, they would be binding on the students.

Name of Course : Master of Architecture (M. Arch)

**LANDSCAPE ARCHITECTURE
Course Structure
First Year M. Arch (LA)
Semester – I**

Sub Code	Subject	Teaching Scheme (Lecture Periods of 45 min each)			Examination Scheme				Total Marks	Credits	
		Lecture	Studio/Seminar /Lab	Total	Paper	Sessional		Oral / Viva-Voce			
						Int.	Ext	Int			Ext
613301	Natural Sciences	3	1	4	75	25	-	-	-	100	2
613302	Landscape Technology I	2	2	4	75	25	-	-	-	100	2
613303	Theory of Landscape Architecture I	2	2	4	75	25	-	-	-	100	2
613304	Plants and Design	1	3	4	-	50	50	-	-	100	2
613305	* Elective- I 1.Landscape materials 2.Landscape Irrigation 3.Landscape Lighting 4.Landscape architecture and Allied Arts	1	3	4		100	-	-	-	100	2
613306	Landscape Design Studio I	2	8	10	-	100	100	25	25	250	5
		11	19	30	225	475		50		750	15

* The Institute has freedom to offer any listed or additional subjects based on availability of experts

Semester II

Sub Code	Subject	Teaching Scheme (Lecture Periods of 45 min each)			Examination Scheme				Total	Credits	
		Lecture	Studio/Seminar /Lab	Total	Paper	Sessional		Viva-Voce			
						Int.	Ext	Int			Ext
613307	Landscape Technology II	2	2	4	75	25	-	-	-	100	2
613308	Theory of Landscape Architecture II	2	2	4	75	25	-	-	-	100	2
613309	Landscape Professional Practice	1	3	4	-	50	50	-	-	100	2
613310	* Elective-II 1. Ecology and Ecosystem Analysis Indigenous plants 2.Critical Appraisal – Contemporary Landscapes 3.Landscape and Urbanism 4.Landscape architecture and Allied Arts	1	3	4	-	100	-	-	-	100	2
613311	Regional Landscape Planning	1	3	4	-	50	50	-	-	100	2
613312	Landscape Design Studio II	2	8	10	-	100	100	25	25	250	5
		9	21	30	150	550		50		750	15

* The Institute has freedom to offer listed or additional subjects based on availability of experts

Semester III

Sub Code	Subject	Teaching Scheme (Lecture Periods of 45 min each)			Examination Scheme					Total	Credit
		Lecture	Studio/Seminar / Lab	Total	Paper	Sessional		Oral Viva- Voce			
						Int.	Ext	Int	Ext		
713301	Landscape Conservation	2	2	4	75	25	-	-	-	100	2
713302	Environmental Legislation and Economics	3	1	4	75	25	-	-	-	100	2
713303	Landscape Management	3	1	4	-	50	50	-	-	100	2
713304	Research Paper	1	3	4	-	50	50	-	-	100	2
713305	* Elective-III 1.Land Information Systems and Computer Applications 2.Natural Resource Management 3.Energy Efficient landscapes 4.Landscape Computer Graphics	1	3	4	-	100	-	-	-	100	2
713306	Landscape Design Studio III	2	8	10	-	100	100	25	25	250	5
		12	18	30	150	550		50		750	15

* The Institute has freedom to offer listed or additional subjects based on availability of experts

Semester IV

Sub Code	Subject	Teaching Scheme (Lecture Periods of 45 min each)			Examination Scheme				Total	Credits	
		Lecture	Studio/Seminar /Lab	Total	Paper	Sessional		Oral / Viva-Voce			
						Int.	Ext	Int			Ext
713307	Dissertation	2	24	26	-	300	300	25	25	650	13
713308	*Professional Training	-	4	4	-	30	30	20	20	100	2
		2	28	30	-	660		90		750	15

*** Professional training to be conducted 6 weeks full time / 12 weeks part time with concerned office at any time during the semester as decided by the institution offering the course**

First Year M. Arch (Landscape Architecture)

Master of Architecture

(Landscape Architecture)

SEM :I

Subject Code :

Name of Subject:	Natural Sciences		
Teaching Scheme		Examination Scheme	Marks
Lecture Periods	3	Paper	75
Seminar / Lab / Studio	1	Sessional (Internal)	25
Periods		Sessional (External)	-
Total Contact	4	Jury (Viva-Voce)	-
Periods/Week		Total Marks	100
		Credits	2

Objective

- This subject will cover Botany, plant systematics, geology and soil sciences and hydrology and Microclimate.
- It also deals with Man - Environment relationship.

Course contents

- I. **Botany, Plant systematics** – Study of plants, their morphology, physiology, anatomy and taxonomy, principles of classification, diversity of form , understanding of plants as living materials, their growth, plant processes like photosynthesis and respiration with relation to the functioning of the plants in different situations, importance of water, mineral nutrition, photosynthesis, role of growth regulators, herbicides and growth retardants. Studying plant communities at a regional scale, understanding of regional distribution of plants. Flora of India study. Understanding horticulture practices i.e plant propagation, soil preparation and planting methods. Review of Botanical Gardens
- II. **Geology ,Geomorphology and Soil Sciences** -Understanding earth in space, Matter and minerals, various types and qualities of rock and their formations, crystal deformation and mountain building, glacier, mass movement, earthquakes, and wind. Early history of earth, origin of life and fossils, evolution of various periods/ages, soil formation processes, classification of soils and their properties, Field mapping of soils, degraded soils and problem soils. Survey of Indian Soil types.
- III. **Hydrology**– Hydrology cycle and sources of surface water, running water and underground water, , types of flow ,Occurrence and movement of ground water, water bearing properties of geological formations, artesian conditions, development of Karat topography, Saltwater intrusions, Characteristics and management of drainage basins. Ground water management, sources of ground water pollution and control.
- IV. **Climatology** - Composition of atmosphere, elements of weather and understanding various biomes and detailed understanding of climate and Microclimate and its components. Microclimatic controls.

Sessional Work

Assignment will be in the form of a handwritten journal and site visit report and tutorials covering all the topics mentioned above with suitable examples , sketches and supportive material.

Sessional Assessment

The sessional work as stipulated above will be assessed internally with weightage of 25 marks Theory examination based on the aforesaid course line will be conducted for 75 marks

Reference books

1. Manual Of Tropical Housing And Climate By Koenisberger
2. Environmental Science, Earth As A Living Planet, Second Edition By University Of California, Santa Barbara.
3. Principles Of Physical Geology By Arthur Holmes
4. Structural Geology By M R Billings
5. Geology Of India And Burma By M S Krishnan
6. Indian Geology By Valdiya

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SEM :I

Subject Code :

Name of Subject: Landscape Technology I

Teaching Scheme		Examination Scheme		Marks
Lecture Periods	2	Paper		75
Seminar / Lab / Studio Periods	2	Sessional (Internal)		25
		Sessional (External)		-
Total Contact Periods/Week	4	Jury (Viva-Voce)		-
		Total Marks		100
		Credits		2

Objective

Understanding the tools and techniques to shape the existing land in the form of intended design.

Course contents

- I. Understanding of the technical requirements of several aspects of the landscape designers work.
- II. Study and inspect several engineering topics such as contours and grading, cut and fill methods, storm water runoff systems, erosion control methods, grading terraces, road alignment basics.
- III. Grading of various areas like sports fields. Subsurface water drainage methods
- IV. Earthwork computations.
- V. Definition of watershed areas, calculation of surface runoff and design of swales for drainage of surface water.

Sessional Work

Assignment will be in the form of a journal covering all the topics mentioned above with suitable examples, sketches and supportive material. Students will work on atleast one project taken up in the design studios and work on landscape engineering and details of the project relating to all the above mentioned topics in the form of sheets and /or report.

Sessional Assessment

The sessional work as stipulated above will be assessed internally with weightage of 25marks. Theory examination based on the aforesaid course line will be conducted for 75 marks

Reference books

1. Landscape Architecture Journal
2. Gardeners World Journal
3. Time Saver Standards For Landscape Architecture, Charles W Harris And Nicholas T Dine Mcgraw – Hill International Edition, Arch. Series
4. Bartrum Douglas: Rock Garden. John Gifford Ltd., London
5. Perkins Philip H: Concrete Floors Finishes
6. Text By David Stevens: Ultimate Water Garden Book
7. Littlewood Michael: Tree Detailing. London. Butterworth Architecture, 1988.

8. Littlewood Michael: Landscape Detailing Vol.1 Enclosure
 9. Hazlett Thomas C: Land Form Designs. P D A Publication
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First Year M. Arch (Landscape Architecture)

Master of Architecture (Landscape Architecture) SEM :I

Subject Code :

Name of Subject: Theory of Landscape Architecture I

Teaching Scheme		Examination Scheme	Marks
Lecture Periods	2	Paper	75
Seminar / Lab / Studio Periods	2	Sessional (Internal)	25
		Sessional (External)	-
Total	Contact 4	Jury (Viva-Voce)	-
Periods/Week		Total Marks	100
		Credits	2

Objective

- This subject uses instances from world landscape history . Development of landscape through understanding of the natural and cultural factors of the place in spatial and temporal framework.
- Establish a relation to allied design and art forms which served as inspiration to the work of a landscape architect.
- This semester deals with the Oriental, Western and Central history till the 19th Century.

Course contents

- I. Studying various landscapes and garden designs from history in conjunction with the societal processes and corresponding design evolution.
- II. The Indian Context – Understanding attitudes to open space design in India, ancient horticultural practices , various influences in landscape and garden design like that of Mughal, British colonial and the Portuguese.

Sessional Work

Seminar presentations will be done on related topics and covered in detail and will be submitted in the form of report.

Sessional Assessment

The sessional work as stipulated above will be assessed internally with weightage of 25 marks. Theory examination based on the aforesaid course line for this subject will be conducted together for 75 marks.

Reference books

1. Ed By Mosser Monique Teyssot Georges:History Of Garden Design. Thames & Hudson
2. Geoffrey & Susan Jellicoe: The Landscape Of man.
3. Hunt John Dixon: Gardens And The Picturesque. The Mit Press London
4. Itoh Teiji: Kyoto Gardens Seasonal Images In Moss & Stone. Mitsumura Suiko Shoin Co.Ltd.,Japan
5. Ed. Moorhead Stever: Landscape Architecture. London. Rockport, 1997.
6. Kaiser Harvey H: Landmarks In The Landscape Historic Architecture

7. National Parks. Chronicle Books San Francisco,
8. Landscapes In History: Design And Planning In The Western Tradition, Pregill, Phillip And Volkman, Nancy, Van Nostrand, Reinhold, Ny
9. History Of Landscape Architecture: The Relation Of People To Environment, Tobey, George, Elsevier And Co. Ny
10. Tsu Frances Ya Sing: Landscape Design In Chinese Garden. Mcgraw Hill Book, Newyork,
11. Pincas Stephane: Versailles : The History Of The Gardens & Their. Thames & Hudson Ltd.,London
12. Gardens Of Paradise By John Brookes
13. Garden Of Mughals By Sylvia Crowe
14. The Quest For Paradise 'A History Of World Gardens' By Ronald King
15. Plant Myths And Tradition In India By Shakti M Gupta
16. Mughal Gardens By Elizabeth Moynlian
17. Architecture And Landscape : The Design Experiment Of The Great European Gardens And Landscapes, Birkhauser,Thoth Publishers, The Netherlands,2003

First Year M. Arch (Landscape Architecture)

Master of Architecture (Landscape Architecture) SEM :I

Subject Code :

Name of Subject:	Plants and Design		
Teaching Scheme		Examination Scheme	Marks
Lecture Periods	1	Paper	-
Seminar / Lab / Studio Periods	3	Sessional (Internal)	50
		Sessional (External)	50
Total Contact Periods/Week	4	Jury (Viva-Voce)	-
		Total Marks	100
		Credits	2

Objective

Planting design at various scales through proper understanding of the role of plant material in improvement of the environment visually and physically. This is supported by site visits, assignment and design exercises.

Course contents

- I Natural Design characteristics of Plant Materials and factors influencing choice of plant material for specific design applications
- II Plant selection from ecological, aesthetic, symbolic, functional point of view.
- III Planting for urban and rural roads, parks and open spaces, internal courtyards etc.
- IV Planting for wild life, land rehabilitation, plants growing in and around water bodies.
- V Bio-aesthetic planting

Sessional Work

Assignment will be in the form of a journal covering all the topics mentioned above with suitable examples , sketches and supportive material.

Sessional Assessment

The sessional work along with external jury as stipulated above will be assessed internally and externally with equal weightage of 50 marks each for sessional work and a consolidated list of both will be submitted to the university.

Reference books

1. Randhawa M S: Flowering Trees. National Book Trust, New Delhi,
2. Santapau H: Common Trees. India The Land And The People
3. Mukherjee Pippa: Nature Guides, Common Trees Of India. Worldwide Fund For Nature, India,
4. Virginie & Elbert George A: Foliage Plants For Decorating Indoors. Timber Press,
5. Cloustan Brian: Landscape Design With Plants Ed.2.Heinemann Newnes Oxford,

6. Planting In Paved Area By Timothy Cochrane
7. Clouston Brian: Landscape Design With Plants Ed.2.Heinemann Newnes Oxford,
8. Tree Planting By Brenda Colvin

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SEM :I

Subject Code :

Name of Subject:		Elective I	
Teaching Scheme		Examination Scheme	Marks
Lecture Periods	1	Paper	-
Seminar / Lab / Studio Periods	3	Sessional (Internal)	100
		Sessional (External)	-
Total Contact Periods/Week	4	Jury (Viva-Voce)	-
		Total Marks	100
		Credits	2

Objective

Detailed study of Contemporary trends in Landscape Design components and techniques in any one of the following heads.

Course contents

1. Landscape Materials
2. Landscape Irrigation
3. Landscape Lighting
4. Landscape architecture and Allied Arts

Sessional Work

Assignment will be in the form of individual indepth study of a topic related to any one of the subject or any other additional subject based on availability of experts which is presented in the form of presentation and a written report of the same.

Sessional Assessment

The sessional work as stipulated above will be assessed internally of 100 marks.

Reference books

1. Between Landscape Architecture And Landscape Art . Weilacher Udo , Basel: Birkhauser, Verleg
2. Time Saver Standards For Landscape Architecture, Charles W Harris And Nicholas T Dine Mcgraw – Hill International Edition, Arch. Series
3. American Standards of Landscape Architecture

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SEM :I

Subject Code :

Name of Subject: Landscape Design Studio I

Teaching Scheme		Examination Scheme	Marks
Lecture Periods	2	Paper	-
Seminar / Lab / Studio Periods	8	Sessional (Internal)	100
		Sessional (External)	100
Total Contact Periods/Week	10	Jury (Viva-Voce)	50
		Total Marks	250
		Credits	5

Objective

- Studio work deals with understanding and / or resolving of basic landscape design issues and elements through study of existing landscapes.
- Studying elements of landscape design

Course contents

Projects dealing with simple function areas of smaller scale such as childrens play area, parking areas, small plaza and similar urban situations. Indepth Site Analysis and Site Planning.

Sessional Work

Students will work on analytical and design projects of simple function area of smaller scale and produce the work in the form of sheets and a report.

Sessional Assessment

The sessional work as stipulated above will be assessed internally and externally with equal weightage of 100 marks for sessional work along with external jury of equal weightage of 25 marks each for Viva – voce.

Reference books

1. Time Saver Standards For Landscape Architecture, Charles W Harris And Nicholas T Dine Mcgraw – Hill International Edition, Arch. Series
2. Simonds John O: Landscape Architecture Ed.2nd. Mcgraw Hill Inc, New York
3. Morrow Baker H: A Dictionary Of Landscape Architect. University Of New Mexico Press,Albu,
4. Introduction To Landscape Architecture By Laurie Michel, Elsevier Science Publishing Company, Ny
5. Landscape : Pattern Perception And Processes, Bell Simon, E And Fn Spon, London
6. Image Of The City , Kevin Lynch, Mit Press, London
7. Hazlett Thomas C: Land Form Designs. P D A Publication,
8. Cerver Francisco A: Landscape Architecture The World. Atrium International,
9. Cerver Francisco A: World Of Landscape Architects:World Of Environmental Design.
10. Cerver Francisco A: Elements Of Landscape ,World Of Environment. Printed In Spain
11. Reid Grant W: Landscape Graphics. 1987
12. Studies In Landscape Design By Geoffrey Jellicoe
13. The Experience Of Landscape By Jay Appleton
14. A Dictionary Of Landscape Architecture, Baker H Marrow, Asla

First Year M. Arch (Landscape Architecture)

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SEM :II

Subject Code :

Name of Subject: Landscape Technology and Advanced
Landscape Construction II

Teaching Scheme		Examination Scheme	Marks
Lecture Periods	2	Paper	75
Seminar / Lab / Studio Periods	2	Sessional (Internal)	25
		Sessional (External)	-
Total Contact Periods/Week	4	Jury (Viva-Voce)	-
		Total Marks	100
		Credits	2

Objective

- This subject deals with current practices in landscape engineering for various specialized areas like highways, parkways, disturbed landscapes like quarries, degraded wastelands, overexploited waterfronts etc , roof landscapes etc .

Course contents

- I. Detailing for the above mentioned topics in terms of construction techniques and landscape services.

Sessional Work

Assignment will be in the form of a manual/handwritten journal covering all the topics mentioned above with suitable examples, sketches and supportive material. Students will work on atleast one project taken up in the design studios and work on landscape engineering and details of the project and submit the work in the form of sheets and a report.

Sessional Assessment

The sessional work as stipulated above will be assessed internally of 25 marks. Theory examination based on the aforesaid course line for this subject will be conducted for 75 marks.

Reference books

1. Landscape Architecture Journal
2. Gardeners World Journal
3. Aurand C Douglas: Fountains And Pools. P D A Pub. Co., Arizona,
4. Bartrum Douglas: Rock Garden. John Gifford Ltd., London
5. Time Saver Standards For Landscape Architecture, Charles W Harris And Nicholas T Dine Mcgraw – Hill International Edition, Arch. Series
6. Woodhouse Ursula: A Practical Guide To Paving Pools P. Murdoch Books Sydney
7. Bartrum Douglas: Rock Garden. John Gifford Ltd., London
8. Perkins Philip H: Concrete Floors Finishes
9. Text By David Stevens: Ultimate Water Garden Book
10. Noel: Urban Street Furniture Design.

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SEM :II

Subject Code :

Name of Subject:		Theory of Landscape Architecture II	
Teaching Scheme		Examination Scheme	Marks
Lecture Periods	2	Paper	75
Seminar / Lab / Studio Periods	2	Sessional (Internal)	25
		Sessional (External)	-
Total Contact Periods/Week	4	Jury (Viva-Voce)	-
		Total Marks	100

Objective

This semester deals with contemporary landscapes and how environmental issues and ecological issues have been resolved.

Course contents

- I Theories and Landscape design: Habitat theory, personal space, Prospect –refuge theory. Perception, Behaviour , Landscape Assessment.
- II Introduction to Art in Landscape
- III Introduction to contemporary trends in designed landscapes all over the world.

Sessional Work

Assignment will be in the form of a journal covering all the topics mentioned above with suitable examples, sketches and supportive material. Site visits and study of existing contemporary landscapes to be done and submitted in the form of individual report.

Sessional Assessment

The sessional work as stipulated above will be assessed internally of 25 marks Theory examination based on the aforesaid course line for this subject will be conducted together for 75 marks.

Reference books

1. Mastaedi Arain: Landscape Design Today. Spain. Carles Broto & Josey Maria,
2. Building And Landscape ,Andersson, Sven Ingvar, Kobenhavn K , Danish Academy
3. Schaal Hans Dieter: New Landscape Architecture. Ernst & Sohn,
4. Topos, Landscape Journal, Basel, Munchen And Birkhauser
5. Time Saver Standards For Landscape Architecture, Charles W Harris And Nicholas T Dine Mcgraw – Hill International Edition, Arch. Series
6. Preserving Modern Landscape Architecture, Papers From The Wave Hill, National Park Service Conference
7. Landscape Transformed, Academy Editins, 1996

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SEM :II

Subject Code :

Name of Subject:		Landscape Professional Practice	
Teaching Scheme		Examination Scheme	Marks
Lecture Periods	1	Paper	-
Seminar / Lab / Studio Periods	3	Sessional (Internal)	50
		Sessional (External)	50
Total Contact Periods/Week	4	Jury (Viva-Voce)	-
		Total Marks	100

Objective

To learn all the techniques to make the drawing / design executable.

Course contents

- I. Professional practice – Ethics ,code of conduct and liabilities as a landscape architects, contracts and tenders, execution procedures. Professional fees. Role of various bodies and organizations like COA, IIA, ISOLA etc.
- II. Landscape working drawings with proper annotations and legends and understanding the universal vocabulary for this subject.
- III. Landscape detailing
- IV. Landscape specification writing
- V. Costing and estimation
- VI. Contracts and Tenders

Sessional Work

Journal covering all the above topics and Working drawings of any project done in current or previous semester submitted in the form of sheets .This will include specification writing and costing and estimation of the same.

Sessional Assessment

The sessional work as stipulated above will be assessed internally and externally with equal weightage of 50 marks each and a consolidated list of both will be submitted to the university.

Reference books

1. Time Saver Standards For Landscape Architecture, Charles W Harris And Nicholas T Dine Mcgraw – Hill International Edition, Arch. Series
2. Estimating Costing And Valuation, Singha Gurucharan ,Singh Jagdish ,Standard Pub. Dis,Delhi
3. Civil Engineering ,Contracts And Estimates ,Patil B S ,Orient Longman, Calcutta
4. Estimating And Costing In Civil Engineering, Theory And Practice,Dutta B N ,Ubs Pub. Dis. Ltd, New Delhi
5. Estimating And Costing ,Rangwala S C And Rangwala K S And Rangwala Kk, Charotar Pub. House, Anand, India
6. Construction Cost Engineering Handbook, Parascu Anghel, Marcel Dekker Inc, New York
7. Building Drawing, Shah M G And Kale C M ,Patki S Y ,Tata Mcgraw Hills Ltd, New Delhi
8. Building Drawing With An Integrated Approach To Built Environment, Shah Mg, Kale C M ,Patki S Y ,Tata Mcgraw Hill Pub. Co. Ltd, New Delhi

First Year M. Arch (Landscape Architecture)

Master of Architecture

(Landscape Architecture)

SEM :II

Subject Code :

Name of Subject: Elective II

Teaching Scheme		Examination Scheme	Marks
Lecture Periods	1	Paper	-
Seminar / Lab / Studio Periods	3	Sessional (Internal)	100
		Sessional (External)	-
Total Contact Periods/Week	4	Jury (Viva-Voce)	-
		Total Marks	100
		Credits	2

Objective

Detailed study of theories and practices in any one of the following -

Course contents

- 1.Ecology and Ecosystem Analysis
- 2.Indigenous Plants
- 3.Critical Appraisal-Contemporary Landscapes
- 4.Landscape and Urbanism

Sessional Work

Assignment will be in the form of individual indepth study of a topic related to any one of the subject or any other additional subject based on availability of experts which is presented in the form of presentation and a written report of the same.

Sessional Assessment

The sessional work as stipulated above will be assessed internally of 100 marks.

Reference books

Manual Of Tropical Housing And Climate By Koenisberger
Climate Responsive Architecture By Krishnan
Environmental Science –Earth As A Living Planet Second Ed. University Of California, Santa Barbara
Cerver Francisco A: Landscape Architecture The World. Atrium International,
Cerver Francisco A: World Of Landscape Architects:World Of Environmental Design.
Cever Francisco A: Elements Of Landscape ,World Of Environment. Printed In Spain
Urbanismo : Urban Planning Vol.2. Axis Books, Spain,
Urbanismo : Road Systems Vol.3. Axis Books, Spain,
Urbanismo : Parks, Vol.4. Axis Books, Spain,
Urbanismo : Squares, Vol.5. Axis Books,Spain
Urbanismo Urban Spaces City Outskirts. Axis Books, Spain,

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SEM :II

Subject Code :

Name of Subject:	Regional Landscape Planning		
Teaching Scheme		Examination Scheme	Marks
Lecture Periods	1	Paper	-
Seminar / Lab / Studio Periods	3	Sessional (Internal)	50
		Sessional (External)	50
Total Contact Periods/Week	4	Jury (Viva-Voce)	-
		Total Marks	100
		Credits	2

Objective

Understanding Regional scale of landscape architecture and its allied aspects.

Course contents

- I. Landscape Planning theories
- II. Methodology and process adopted for regional landscape planning
- III. Landscape landuses and related policy framework for regional landscape planning
- IV. Role of environmental impact assessment in landscape planning
- V. Multidisciplinary framework for regional landscape planning
- VI. Understanding of regional plans
- VII. Role of landscape architect in preparation of regional plans , city master plans , townships etc

Sessional Work

Assignment will be in the form of a journal along with individual study project/s which are presented in the form of presentation and a written report of the same.

Sessional Assessment

The sessional work as stipulated above will be assessed internally and externally with weightage of 50 marks each.

Reference books

1. Cerver Francisco Asensio: City Planning ,Urban Architecture
2. City And Grassroots:A Cross Cultural Theory Of Urban Social Movements,London Castels,Manuel
3. Cerver Francisco Asensio: City Planning Urban Architecture. Arco Colour
4. Collection,
5. Shirvani Hamid: Urban Design Process. Van Nostrand Reinhold Co.New York
6. Turner Tom: City As Landscape. E&Pn Spon AnImprint Of Chapman & H
7. Urbanismo : Urban Planning Vol.2. Axis Books, Spain,
8. Urbanismo : Road Systems Vol.3. Axis Books, Spain,
9. Urbanismo : Parks, Vol.4. Axis Books, Spain,
10. Urbanismo : Squares, Vol.5. Axis Books,Spain
11. Urbanismo Urban Spaces City Outskirts. Axis Books, Spain,
12. A Good City Form By Kevin Lynch
13. A Pattern Language By Alexander Christopher
14. Shirvani Hamid: Urban Design Process.

15. Timeless Way Of Building, Christopher Alexander, Oxford University Press,Ny
16. American Society Of Civil Engineers: Urban Planning Guide. (Revised Edition) New York. 1986.
17. Broto Carles: Urbanism. Links International,
18. Gallion Arthur B & Eisner Simon: Urban Pattern : City Planning And Design. Cbs Pub. & Dist. Co. Delhi,
19. Kawaguchi Yoko: Urban Environment Design 5. Korea. Jeong, Kwang-Young, 2003.
20. Mehta Karanvir: Urban Spaces & City
21. Landscape Assessment : Values, Perceptions And Resources By Zuber And Others

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SEM :II

Subject Code :

Name of Subject: Landscape Design Studio II

Teaching Scheme		Examination Scheme	Marks
Lecture Periods	2	Paper	-
Seminar / Lab / Studio Periods	8	Sessional (Internal)	100
		Sessional (External)	100
Total Contact Periods/Week	10	Jury (Viva-Voce)	50
		Total Marks	250
		Credits	5

Objective

Understanding and resolving complex issues at various scales and situations in an urban or rural fabric of residential / commercial/ institutional/ recreational landuse and flat / contoured site .

Course contents

- I. Site analysis with surrounds and site planning for large scale sites.
- II. Landscape design for a large scale site having strong ecological, historical or contemporary context.

Sessional Work

Students will work on abovementioned in detail and submit the work in the form of sheets and a report.

Sessional Assessment

The sessional work as stipulated above will be assessed internally and externally with equal weightage of 100 marks each for sessional work along with external jury of equal weightage of 25 marks each for Viva – voce and a consolidated list of both will be submitted to the university.

Reference books

1. Breen Ann & Rigby Dick: New Waterfront: A Worldwide Urban Success Stor. Thames & Hudson
2. Panich & Trulsson: Desert Southwest Gardens.
3. Lyall Sutherland: Designing The New Landscape. London, Thamas & Hudson, 1997.
4. Urbanism Journal
5. Time Saver Standards For Landscape Architecture, Charles W Harris And Nicholas T Dine Mcgraw – Hill International Edition, Arch. Series
6. A Pattern Language By Alexander Christopher
7. Turner Tom: City As Landscape. E&Pn Spon AnImprint Of Champman & H
8. Urbanismo : Urban Planning Vol.2. Axis Books, Spain,
9. Urbanismo : Road Systems Vol.3. Axis Books, Spain,
10. Urbanismo : Parks, Vol.4. Axis Books, Spain,
11. Urbanismo : Squares, Vol.5. Axis Books,Spain
12. Broto Carles: Urbanism. Links International,
13. Kawaguchi Yoko: Urban Environment Design 5. Korea. Jeong, Kwang-Young, 2003.
14. Residential Landscape By T E Walker

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SEM :III

Subject Code :

Name of Subject:		Landscape Conservation	
Teaching Scheme		Examination Scheme	Marks
Lecture Periods	2	Paper	75
Seminar / Lab / Studio Periods	2	Sessional (Internal)	25
		Sessional (External)	-
Total Contact Periods/Week	4	Jury (Viva-Voce)	-
		Total Marks	100
		Credits	2

Objective

To understand the importance of landscape conservation and various approaches to same

Course contents

1. Landscape Conservation in Indian Context.
2. Environmental conservation
3. Landscape conservation and its significance (natural resources such as soil, water, vegetation etc)
4. Conservation of historic landscapes.
5. Non-Conventional energy resources used in designed Landscapes
6. National and International policies related to landscape conservation areas such as forests , national parks, protected landscapes , bioserves etc.

Sessional Work

Assignment will be in the form of a journal along with individual study and / or design project/s which are presented in the form of presentation and a written report of the same. The project will also include design solution for the disturbed landscapes or site needing conservation. This will be submitted in the form of sheets.

Sessional Assessment

The sessional work as stipulated above will be assessed internally with weightage of 25 marks . Theory examination based on the aforesaid course line of semester I and semester II for this subject will be conducted together for 75 marks.

Reference books

1. Cerver Francisco Asensio: Environmental Restortation Landscape. Arco Colour Collection,
2. Charles Mc Clenon: Landscape Planning For Energy Conservation
3. Crosbie Michael: Green Architecture. American Inst.Of Rch.Press,Washington
4. Papanek Victor: Green Imperative Ecology & Ethics In Design.
5. Vale Robert & Brenda: Green Architecture Thames And Hudson
6. Man's Role In Changing The Face Of Earth, Thomas, William L And Others, University Of Chicago Press, Chicago
7. Silent Spring By Carson Rachel
8. Only One Earth By Barbara Ward, Andre Deutsch Ltd, London
9. Grey World , Green Heart, Robert L Thayer, John Wiley And Sons Inc, Ny
10. Gardens For The Future , Cooper Guy, Conran Octopus, London
11. Environmental Science –Earth As A Living Planet Second Ed. University Of California, Santa Barbara

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SEM :III

Subject Code :

Name of Subject: Environmental Legislation & Economics

Teaching Scheme		Examination Scheme	Marks
Lecture Periods	3	Paper	75
Seminar / Lab / Studio Periods	1	Sessional (Internal)	25
		Sessional (External)	-
Total Contact Periods/Week	4	Jury (Viva-Voce)	-
		Total Marks	100
		Credits	2

Objective

Introduction to law and legal system concept related to environment in India and its comparative analysis with other similar countries. The subject aims at introducing the students to legal aspects in relation to environment.

Studying economic aspects of landscape design and planning.

Course contents

- 1 Legislation framework for environment in context of India and World.
- 2 Environmental legislation dealing with
 - town planning, forestry, national parks and sanctuaries
 - periphery control legislation
 - legislation relating to preservation of parks of urban spaces, monuments etc.
- 3 Air, Water and Mining acts etc.
- 4 EIA - Framework
- 5 Economic aspects of the environment and quantification of landscape values.
- 6 Economic significance of plants, insects and animals, role of wild life and bio-magnification

Sessional Work

Assignment will be in the form of a manual/handwritten journal covering all the topics mentioned above with suitable examples, sketches and supportive material.

Sessional Assessment

Theory examination based on the aforesaid course line of semester I and semester II for this subject will be conducted together for 75 marks with an internal sessional work assessment of 25 marks.

Reference books –

1. International Law And The Environment, Birnie, P W & Boyle
2. Energy And Ecology, David M Gates
3. Ecology And Environmental Planning, Edington, John
4. The Environment, Public Health And Human Ecology Consideration For Economic Development
5. Environmental Policies And Programs In India, Saksena, K.D.
6. India Development Report IGIDR 97

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SEM :III

Subject Code :

Name of Subject:		Landscape Management	
Teaching Scheme		Examination Scheme	Marks
Lecture Periods	3	Paper	-
Seminar / Lab / Studio Periods	1	Sessional (Internal)	50
		Sessional (External)	50
Total Contact Periods/Week	4	Jury (Viva-Voce)	-
		Total Marks	100
		Credits	2

Objective

To understand landscape management principles and concepts for various natural and manmade contexts.

Course contents

1. Management of the Landscaped site .
2. Wasteland management strategies for reclamation, laterite soils, saline and rehabilitation of degraded forests and other types of wastelands.
3. Introduction to Forestry management
4. Management concepts related to urban ecology , urban habitats, urban open space
5. Management concepts related to sub-urban such as rural landscapes
6. Management concepts related to natural landscapes such as forests, streams etc.

Sessional Work

Assignment will be in the form of a journal along with individual study projects which are presented in the form of presentation and a written report of the same.

Sessional Assessment

The sessional work as stipulated above will be assessed internally and externally with equal weightage of 50 marks each .

Reference books

1. Cobham: Amenity Landscape Management And Resources. London New York E & F.N. Spon,
2. Tropical Ecosystems (Ecology And Management) By K P Singh, J S Singh,Wiley Eastern Limited
3. Hannebalim Leroy G: Landscape Design : A Practical Approach. Prentic Hall, New Jersey, 1994.
4. Environmental Policies And Programs In India ,Saksena,K.D.
5. Papanek Victor: Green Imperative Ecology & Ethics In Design. Thames And Hudson,
6. Project Management Of Multiple Projects And Contracts, Ed By Loftus J, Thomas Telford Pub, London
7. A Management Guide To Pert/Cpm, Wiest Jd ,Levy F K Prentice Hall Of India Pvt, Ltd, New Delhi
8. Management, James A F And Edward Freeman R And Gilbert Daniel R ,Prentice Hall Of India Pvt Ltd, New Delhi
9. Essential Managers Manual, Heller Robert And Hindle Tim,D K London
10. Managing The Landscape Of The Town Chris Wild
11. Urban Forestry, Planning And Managing Urban Green Spaces By Robert W Miller
12. Planning And Urban Forestry
13. Management Of Park And Open Space Vegetation : Park Management
14. Management Of Protected Landscapes

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SEM :III

Subject Code :

Name of Subject:		Research Paper	
Teaching Scheme		Examination Scheme	Marks
Lecture Periods	1	Paper	-
Seminar / Lab / Studio Periods	3	Sessional (Internal)	50
		Sessional (External)	50
Total Contact Periods/Week	4	Jury (Viva-Voce)	-
		Total Marks	100
		Credits	2

Objective

The title of the research paper to be taken such that it could support the thesis subject and help to develop an appropriate methodology and research approach regarding the same.

Course contents

1. Includes both qualitative as well as quantitative methods.
2. Any topic related and supportive to thesis

Sessional Work

Present a research work paper supportive to Dissertation studies and submit in the form of report.

Sessional Assessment

The sessional work as stipulated above will be assessed internally and externally for 50 marks each .

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SEM :III

Subject Code :

Name of Subject:		Elective III	
Teaching Scheme		Examination Scheme	Marks
Lecture Periods	1	Paper	-
Seminar / Lab / Studio Periods	3	Sessional (Internal)	100
		Sessional (External)	-
Total Contact Periods/Week	4	Jury (Viva-Voce)	-
		Total Marks	100
		Credits	2

Objective

To give an opportunity to students to study topics in detail to enhance its application in landscape planning or landscape design process.

Course contents

- 1 Land Information systems and Computer Applications
2. Natural Resource Management
3. Energy Efficient Landscapes
4. Landscape Computer Graphics

Sessional Work

Assignment will be in the form of individual indepth study of a topic related to any one of the subject or any other additional subject based on availability of experts which is presented in the form of presentation and a written report of the same.

Sessional Assessment

The sessional work as stipulated above will be assessed internally of 100 marks.

Reference books

1. Introductory Digital Image Processing: A Remote Sensing Perspective, John R. Jensen
2. Landuse Planning And Remote Sensing, David T. Lindgren
3. Remote Sensing And Interpretation By Thomas M Lillesand And Kiefer
4. Energy Efficient landscapes
5. Landscape Graphics
6. Books on various softwares related to LIS and Landscape Computer Graphics

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SEM :III

Subject Code :

Name of Subject: Landscape Design Studio III

Teaching Scheme		Examination Scheme	Marks
Lecture Periods	2	Paper	-
Seminar / Lab / Studio Periods	8	Sessional (Internal)	100
		Sessional (External)	100
Total Contact Periods/Week	10	Jury (Viva-Voce)	50
		Total Marks	250
		Credits	5

Objective

To understand of ecologically sustainable landscape development is the underlying theme.

The studio exercises deals with complex problems of landscape architecture including site planning, landscape planning and seeks to develop the concept of landscape design as interacting process of natural and man-made environment. It addresses and resolves through landscape design and planning, the complex local and global problems from micro to macro levels, based upon the understanding of the ecology as part of the site context.

Course contents

Design at a regional scale addressing complex situations and which has a significant ecological context

Sessional Work

Students will work on the project addressing the abovementioned issues. The project resolve the problems through design and planning. Submit the same in the form of written report and drawings.

Sessional Assessment

The sessional work as stipulated above will be assessed internally and externally with equal weightage of 100 marks each for sessional work along with external jury of equal weightage of 25 marks each for Viva – voce.

Reference books

1. Landscape Architecture Journal
2. Time Saver Standards For Landscape Architecture, Charles W Harris And Nicholas T Dine Mcgraw – Hill International Edition, Arch. Series
3. Cerver Francisco A: World Of Landscape Architects: World Of Nvironmental Design. Ganduxer,
4. Cerver Francisco Asensio: Environmental Restoration Landscape.
5. Cerver Francisco Asensio: City Planning ,Urban Architecture
6. Protected Landscape By C Lucas
7. Protected Landscapes And Sustainability
8. Values Of Protected Landscapes
9. Management Of Protected Landscapes

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SEM :IV

Subject Code :

Name of Subject:		Dissertation	
Teaching Scheme		Examination Scheme	Marks
Lecture Periods	2	Paper	-
Seminar / Lab / Studio Periods	24	Sessional (Internal)	300
		Sessional (External)	300
Total Contact Periods/Week	26	Jury (Viva-Voce)	50
		Total Marks	650
		Credits	13

Objective

Each student is required to prepare an independent study with reference to a special subject before the end of third semester in consultation with the faculty members.

This subject gives an opportunity for the student to explore a practical or conceptual project / subject to evolve a sound methodology and solution. The project can focus on landscape planning , landscape design or any indepth research work in same or allied fields related to landscape architecture.

Course contents

1. Establishing a Research methodology .
2. Establish the significance of the Project.
3. Introduction of methods available in design.
4. Case studies
5. A design solution which will include design policies ,planning policies and landscape design proposal in detail

Sessional Work

The work will be in the form of necessary drawings to explain the project and its details. A comprehensive report of the project will be submitted which will include the above drawings.

Sessional Assessment

The sessional work will be assessed internally and externally with equal weightage of 300 marks along with a Combined internal and external jury of equal weightage of 25 marks each .

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SEM :IV

Subject Code :

Name of Subject:		Professional Training	
Teaching Scheme		Examination Scheme	Marks
Lecture Periods	-	Paper	-
Seminar / Lab / Studio Periods	4	Sessional (Internal)	30
		Sessional (External)	30
Total Contact Periods/Week	4	Jury (Viva-Voce)	40
		Total Marks	100
		Credits	2

Objective

To give an opportunity to work in an office and give the student an exposure to real time challenges and situations of the profession.

Course contents

Professional training to be conducted efficiently for a period of 6 weeks full time / 12 weeks part time with concerned office at any time during the semester as decided by the institution offering the course

Sessional Work

A log book consisting of details of work done during the professional training which would be duly stamped and signed by the Principal authority of the office / firm

Sessional Assessment

The sessional work will be assessed internally and externally with equal weightage of 30 marks each along with a Combined internal and external jury of equal weightage of 20 marks each .