UNIVERSITY OF MUMBAI No.UG/528 of 2008

CIRCULAR:

The Principals of the affiliated colleges in Architecture are hereby informed that the recommendation on 21st February, 2008 has been accepted by the Academic its meeting held on 15th April 2008 vide its meeting held on 15th April 2008 vi ouncil at its meeting held on 15th April, 2008 vide item No.4.16 and subsequently Council at its meeting held on 24th April, 2008 vide approved by the Management Council at its meeting held on 24th April, 2008 vide approved by No.16 and that, in accordance therewith, the Three Year (Part-time) Master of Architecture degree (Sem. I to Sem. VI) in Landscape is introduced by the Arcantesity from the academic year 2008-2009.

Further that in exercise of powers conferred upon the Management Council under Section 54(1) and Section 55(1) of the Maharashtra Universities Act, 1994, it has made Ordinances 5746, 5747, 5748, 5749, 5750, 5751 and 5752 and Regulations 5838, 5839, 5840, 5841, 5842, 5843, 5844, 5845, 5846, 5847, 5848, 5849, 5850, 5851, 5852, 5853, 5854, 5855, 5856, 5857, 5858, 5859, 5860 and 5861 relating to the scheme of examination including syllabus for the Three Year(Part-time) Master of Architecture degree (Sem. I to Sem. VI) in Landscape is as per Appendix and that the same has been brought into force with effect from the academic year 2008-2009.

MUMBAI-400 032 10th December, 2008

PRIN, K. VENKATARAMANI REGISTRAR

To,

The Principals of the affiliated colleges in Architecture.

AC/4.16/15.04.2008 M.C/16/24.04.2008

No.UG/528-A of 2008,

MUMBAI-400 032

10th December, 2008.

Copy forwarded with Compliments for information to:-

1) The Dean, Faculty of Technology,

2) The Chairman, Ad-hoc Board of Studies in Architecture,

3) The Controller of Examinations,

4) The Co-ordinator, University Computerization Center.

(D.H. KATE) DEPUTY REGISTRAR (U.G./P.G. SECTION)

UNIVERSITY OF MUMBAI



Ordinances & Regulations,

Scheme and Syllabus For the Three year (Part time) (Sem.I to VI) Master of Architecture

Landscape

(Introduced from the academic year 2008-2009)



Post Graduate Studies in Landscape Architecture Three years - Part Time

Semester I

	Scheme	of Instr	uction		Scheme of 1	Fram	
Subject	Lectures	Studio	Hrs.	Internal		Written	Max .
			/ Week	Assessment			
		0	1	0	()	50	~ 50
	1	0		0	0	50	50
The state of the s	-1-	0	100	()	()	50	50
		0	2 1000	()	0	50	50
and the bound	1-	l 3	2	100	0	50	150
	0	-8	8	200	200	()	400
		25.		up s Sues in	4.4		
	- 5	9	14	300	200	250	750

Sen.ester II

	Scheme	of Insti	ruction		Scheme of E	
Subject	Lectures	Studio	Hrs.	Internal	External	Written Max
Subject			/ Week	Assessment	Assessment	Exam Marks
i la mi		0	1	: 0	0	50 - 50
Plant Physiology		0	+1	0	0	50 50
Hydrology / Pesigni - I		0	1	0 .	()	50 50
History of Landscape Design -1		0	1	0	0	50 1, 50
Materials and Estimation	ì	1	2	100	0	50 150
Advance Landscape Engineering	0	S	8	200	200	0 400
Landscape Design - II	0	3				
Total	5	9	14	300	200	250 750

Semester III

	Scheme	of Instr	uction		Scheme of I		
Subject	Lectures			Internal	External	Written	MAX
dubject	Dectares	-	/ Week	Assessment	Assessment	Exam	Mark
Ecology	1	0	I	0	0	50	50
story of Landscape Architecture - II	1-1	0	i	0	0	50	50
Computer Application	1	0	1	50	, 0	0	50
Alfoduction to Urban Design,	1	0	1	0	0	50	50
Planning & Traffic Planning							ļ
THE Decion T	0	2	2	100	0	50	150
adscape Design - III	0	8	8	. 200	200	0	400
							660
Total	4 .	.10	. 14	350	200	7.00	750

1

Semester IV

Subject	Scheme Lectures	of Instr	uction		C.I		
Wind 3 million	- stares	Studio	Hrs.	Internal	Scheme of I	Exam	
» Analysis		17 , 15	/ Week				Max
Feosystem Analysis Environmental Impact Assessment &	1	0	1	0	Assessment	Exam	Marks
Environment		0	1	0	()	5()	50
Landscape Management & Horticultu		T. The	o Oper	-	()	50	50
Landscape	1	0	411	0			
practice / Saminars	10.00	A CLAY	0.19	0	()	50	50
Lives / Seliminary	1	0	1	0			
Plants & Design - II	()	2	2	0	0	50	50
Plants & Design Studio - IV	()	8	8	100	()	50	150
	Land			200	200	()	400
Total	4 .	10	1.4				
			14	300	200	250	750

Semester V

Cabinat	Scheme	of Insti	uction		Scheme of I	2		
Subject	Lectures	Studio	Hrs.	Internal	External			
Landscape Conservation & Regional	,		/ Week		Assessment	Written Exam	Max Mark	
landscape planning	1	0		0	0	50	50	
Landscape resources	1	0	I	0				
Landscape Project Mangement & professional Practice	1	0	I	0	-0	50	50	
Electives / Seminars	1	0	-					
andscape Design Studio - V	. 0	10	8	300	0	50	50	
				300	250	0	550	
Total	4	10	14	300	2.50	200	75	

Semester VI

0.1.	Scheme	of Insti	uction	1 1	Scheme of Exam				
Subject	Lectures	Studio	Hrs.	Internal	External	Written	Ma		
dscape D - :			/ Week	Assessment	Assessment	Exam	Mar		
dscape Design - III Thesis	0	14	14	500	250	0	750		
			- 1 P						
Total	0	14	5.4	500	250	1. 0	75		

K

MASTER OF ARCHITECTURE IN LANDSCAPE

PREAMBLE:

1. NEED OF POST GRADUATE STUDIES IN LANDSCAPE ARCHITECTURE

The concern about degrading environment around us and the desire to improve the same by The concern according to the same around us and the desire to improve the same by direct or indirect efforts initiates the need to upgrade the environment by beautifying our own direct or mun. We can plant trees, shrubs, lawns, hedges, creepers and climbers etc. But, such a localities. We could be possible only with the proper planning by resolving the problems in a development area. If landscaping is undertaken with proper planning by resolving the problems in a particular area. If landscaping is undertaken with proper planning, it would really enrich the particular area.

particular a

Unfortunately, we have only a handful number of professionals within us who could do the Untortuinated within us who could do the needful as we have only three Institutes at National level (Delhi, Ahmedabad and Hyederabad) offering Post-Graduate Studies in Landscape. The total intake of all these Institutes is not more oftening to the need to often the Post Condition of the post Condi than our steam the need to offer the Post Graduate Course in Landscape Architecture and also to form the Society for Landscape Architects or Indian Institute of Landscape Designers, as there are a good number of Landscape Designers available in the City of Mumbai.

It is important to start the Post Graduate Course in Landscape Architecture as Landscape Architecture has remained any more a personal luxury but has become an essential need of our society.

Scanned with OKEN Scanner

WHY WE NEED LANDSCAPE ARCHITECTURE COURSE IN MUMBAI?

Institutes offering Post-graduate Studies happen to be in the Northern half of Indian Two Institute is located in the Southern half.

Mumbai is the commercial Capital of India undergoing a rapid development. Obviously Mumbal is to Mumbal from different parts of India, in search of jobs. Over the years people lings acquired a status of concrete jungle. Pollution levels are increasing everyday Mumbai has increase in number of vehicles. We have water pollution (caused by development). With this situation according to us Mumbai is the most suitable place to start a Post-Graduate Course in Landscape Architecture.

Mumbai offers post-graduate Studies in all leading streams of education except architecture. Post Graduation in Landscape Architecture could be a positive step towards

a breakthrough.

Maharashtra is one of the leading States of Indian in terms of education, which is clearly evident from a large number of institutions offering graduate and post-graduate courses in

various disciplines

17he 2 year fulltime Master Course in Architecture has already been accepted by the academic council at its meeting head at 16th December 2000, wide item No. 4.22 and subsequently approved by the Management Council at it's meeting held on 30th January 2001 wide item No. 6. "That the Ordinances, Regulation, scheme and syllabus for Master Of Architecture In Landscape has been introduce with effect from the Academic year 2001-2002 as per Appendix."

The same course is now being converted to a 3 years part time course to facilate Teachers and Professional.

* Commencement of such course would be one more feather in the cap for Maharashtra.

3. IMPORTANT FEATURES OF POST GRADUATE STUDIES

Detailed study of main and allied subjects spread over six Semesters (Three Years)

Practice oriented Upgraded Syllabus.

3. Compulsory use of Computers in 3rd Semester to meet the challenges offered by changing work environment and latest technology.

4. Design Studios will be conducted by practicing Landscape Architects.

5. Specialists in the subjects will be invited to teach theory subjects.

6. Practicing Landscape Architects will conduct evaluation.

7. Theory and Studio classes will be scheduled for 14 hours a week time will be received for Site Visits, Slide Shows, Visiting Lectures, Seminars, and Product Presentations during all the Semester.

8. Field trip to a botanical garden will be conducted during 2nd Semester.

More stress will be levied on Sessional works, progressive markings, and reviews than on written examinations.

4 AC

UNIVERSITY OF MUMBAI

ORDINANCES, REGULATIONS & SYLLABUS FOR THE

MASTER OF ARCHITECTURE IN LANDSCAPE

A Candidate for being eligible for admission to first Semester of master of Architecture in Architecture in the a Graduate who has completed B ARCH Degree of a recognized University of equivalent phiscalions:

The course leading to the Master of architecture in Landscape shall be sex semesters part the years.

There will be an examination at the end of each semester, the candidate obtaining Master of the candidate obtaining Master of the Landscape will be required to pass all the Examinations held at end of each semester by the important authority mentioned hereafter.

The Master of architecture in Landscape will not be conferred upon a candidate unless the pages and Sessional Work prescribed to each semester Examination.

FIRST SEMESTER

The following are the syllabi in various subjects of the First Semester Examination in interpretable and state and state are and state and state are also are also are the syllabi in various subjects of the First Semester Examination in the syllability and state are also are the syllability and state are also are the syllability and state are also are also

The candidate will be examined in the following subjects as per the remination scheme for the First Semester Examination in Landscape Architecture which will be conducted the College affiliated on behalf of the University of Mumbai.

AU

Post Graduate Studies in Landscape Architecture Three years - Part Time

Semester I

		o			٠,		1.)		-		5r. No.	2
Total		Landscape Design - I	Landscape Engineering	Chranology	0:: 0::0::0::0::0::0::0::0::0::0::0::0::	70:0 70:0100	Geology:	Figure Laxonomy	D1514		Subject	
5	-	0		-	. -	-		-			Lectures Studio	Scheme of Instruction
9		8	-	0			0	0			Studio	of Instru
14		8	2	-	_	- -	-	_	/ Week		Hrs	action
300		200	100	0	0		0	0	Assessment	THICHMAI	Intownst	
200		200	0	0	0			0	Assessment	External		Scheme of Exam
250		0	50	50	50	90		50	Exam	Written Max		301
750		400	150	50	50	50		75	Marks	Max		

POST GRADUATE STUDIES IN LANDSCAPE ARCHITECTURE THREE YEARS – PART TIME

SEMESTER : I

TOTAL MARKS: 750

PLANT TAXONOMY

MARKS THEORY

. 50

CONTACT HRS/WEEKS.: 1

Introduction to plant kingdom:

Taxonomy & its significance, Nomenclature, classification Botanical characteristics & identification of different groups study of vegetation of India Mumbai & its suburbs.

Evaluation by question paper of 1 hr duration.

Evaluation by course faculty.

2

GEOLOGY:

MARKS

THEORY

50

CONTACT HRS/WEEKS.: 1

Geological environments, glacial, fluvial, and shoreline

The Earth – composition, structure, distribution of land and sea, outer zones of the Earth. Major geological cycles – external and internal processes, changes and effects such as "arthquakes – Volcanoes folds, faults, etc.

Rocks – formation, classification, physical and chemical properties. Mass wasting and erosion chemical properties. Mass wasting and erosion Evolution of Landscapes. Basic concept of geomorphology/Geological factors in development of landscape / Environment Based on geological resources and Man's interventions their impact on environment and Landscape design.

Evaluation by question paper of I hr duration.

Evaluation by course faculty.

N

7

MARKS THEORY

: 50

CONTACT HRSAVEEKS: I

goil forming processes: Weathering, Pedogenesis, Soil profile, effects of climate, regetation, erosion and deposition, lack of drainage, type and parent material on soil development.

properties of Soil: Physical, chemical and biological properties, soil capability study.

Soil erosion: type, factors, conservation principles, methods for prevention, control and reclamation.

Soil Modification: Problem soils – (Acid, Alkali and Saline soils) – their causes and remedies. Ideal pH for some plants. Mineral nutrition and deficiency symptoms, manures and fertilizers including composting soil conditioning, soil mixtures alternative to soil.

Vermiculture, Soil Classification for India, Agra climatic zones of India.

Evaluation by question paper of 1 hr duration.

Evaluation by course faculty.

CLIMATOLOGY

MARKS THEORY

: 50

CONTACT HRS/WEEKS.: 1

Elements of weather: A brief introduction to the composition of atmosphere, elements of weather, temperature, precipitation, humidity, air pressure, wind patterns, and corridors.

Changes in atmosphere with altitude. Land water dynamics, Radiation.

Climatic zones of India: A brief outline of various characteristics critical aspect, duration of the critical conditions etc.

Evaluation of climatic data: Sources, methods of obtaining climatic data- Instruments, charts used for this purpose. Use of hand beld instruments, charts for on site study.

K

ċ

and synthesis of climatic date and how to arrive at conclusions/vegetation, synthesis of climate. Simplification as indicators of climate, and water etc. as indicators of climate.

Climatic impact of natural elements, landforms, vegetation, wind, Micro climate solar radiation control etc. wind breaks, shelter belts.

temperation in natural and manmade features on climate: Change in micro climate of an the impact of natural and manmade features and effect on the micro climate of an aith presence of natural and manmade features and effect on the micro. The impact of natural and manmade features and effect on the micro climate of an area of the presence of natural and manmade features and effect on the micro climate of

the site Microclimatic controls: How various landscape elements vegetation, water, landforms Microclimatic planning process help modify the climatic condition at site and city level.

What are the effects of each of the elements individually and in combination. What are the limitations of each of the methods.

Weather in relation to pollution control.

Evaluation by question paper of 1 hr duration.

Evaluation by course faculty.

LANDSCAPE ENGINEERING & CONSTRUCTION

MARKS THEORY **STUDIO**

CONTACT HRS/WEEKS.: 2

Design of Landforms and surface runoff

Contours - representation of land forms and land form design, interpolation of contours, slope analysis, uses and function.

Symbols and abbreviations, basic grading exercises, grading and alignment of paths/roads, angle of repose and use of retaining walls. Grading terraces.

Earth works - Principles of earthwork, cut and fill calculations - Borrow pit method, average and area method, average spot level method, precautions taken in cut and fill methods in relation to soil conditions, amount of precipitation etc.

Drainage - surface drainage, calculation of surface run-off, design of surface and storm water drainage, design of swales & gutters, soak pits, water harvesting schemes. Planning and grading of sports fields.

Mode of evaluation: Question paper of duration 2 hrs and sessional assignments.

Evaluation: By Course Faculty and Studio Faculty.

: 50

:100

MARKS
STUDIO
CONTACT HRS/WEEKS.: 8

sudio work shall deal with an appreciation of basic landscape design issues and elements simple site planning, use of plant material for defining and structuring the open spaces, imple treatments in relation to the buildings, understanding the aesthetic qualities of the plant material and their associations.

the initial stages only one aspect or skill would be emphasized. But as the studio

Mode of evaluation: Continuous Studio reviews by faculty members. Presentation of studio exercises, for evaluation by External Jury.

Site admeasuring 1 to 2 acres.

6

Evaluation: by Studio faculty & External Jury.

Total Studio Marks for Landscape Engineering Construction & Landscape Design: 500 months and studio Marks for Landscape Design: 500

Evaluation: By Studio Faculty & External jury.

STANDARD OF PASSING THE FIRST SEMESTER EXAMINATION

To pass the Examination candidate must obtain 50% of the full marks in Theory of the full marks in Sessional but has obtained the sendidate who has full marks in Theory To pass the full marks in Sessional work. However the candidate who has failed and of the full marks in The state of the Theory or Sessional but has obtained the passing marks either in Theory or either in Theory or Sessional but has obtained the passing marks either in Theory or either in at his own option to be excused from appearing for Theory or either in Theory or either in Theory or the single is at his own option to be excused from appearing for Theory or the single is at his own option. Theory of the passing marks either in Theory or either in at his own option to be excused from appearing for Theory or Sessional in Sessional in the had passed and the Marks obtained in the Theory or Sessional in the passing marks either in Theory or Sessional in Sessional in the Theory or either all is at this obtained in the Theory or Sessional in Sessional in had passed and the Marks obtained in the Theory or Sessional in which he had passed over to the subsequent examination. which he had presented over to the subsequent examination.

Those successful candidates who obtained 55% of the total marks obtainable in Those such at one sitting only will be placed in the Second Class.

Those successful candidates who obtained 60% of the total marks obtainable in the examination taken at one sitting will be placed in the First Class.

SECOND SEMESTER

05748 A candidate for being eligible for admission to Second Semester in Landscape Architecture of this University shall produce testimonials of having satisfactorily kept attendance of First Semester and completed the required Sessional Work prescribed for the First Semester, to the satisfaction of the head of the college in which the candidate had been studying, and has passed the First Semester in Landscape Architecture Examination conducted by the prescribed Authority. In case of failure in the First Semester Examination, the candidate will be permitted to join the Second Semester provided the candidate had obtained a minimum of 50% Marks in Landscape Design.

१५८८ A candidate who has passed the First Semester Examination and has Satisfactorily completed the course of Second Semester will be permitted to appear for Second Semester Examination in Landscape Architecture.

R5844 The following are the syllabi in various subject of the Second Semester Examination in Landscape Architecture.

R5845 The candidates will be examined in the following subjects as per Examination which will be scheme for the Second Semester Examination in Landscape Architecture which will be conducted by the College affiliated on behalf of the University of Mumbei

Post Graduate Studies in Landscape Architecture Three years - Part Time

Semester II

	6	Vi.	4.	(2)	2	b-4		Sr. No	
Total .	Landscape Design - II	Advance Landscape Engineering	Materials and Estimation	History of Landscape Design -I	Hydrology	Plant Physiology		o. · Subject	
5	 0		-	-	1	_		Lectures Studio Hrs.	Scheme of Instruction
9	∞	-	0	0	0	0		Studio	of Instr
14	∞	2	-	-	-		/Week	Hrs.	uction
300	200	100	0	0	0	0	Assessment	Internal	
200	200	0	0	0	0	0	/ Week Assessment Assessment	External	Scheme of Exam
250	0	50	50	50	50	50	Exam	Written Max	xam
750	400	150	50	50	50	50	Marks	Max	

K

POST GRADUATE STUDIES IN LANDSCAPE ARCHITECTURE 3 YEARS - PART TIME

SEMESTER - II

TOTAL MARKS: 750

PLANT PHYSIOLOGY

MARKS -THEORY

: 50

CONTACT HRS/WEEKS.: 1

Growth processes viz; Photosynthesis, Respiration & Factors affecting them.

physiology of

1

Roots: Related to absorption of water & nutrients.

- A) Leaves & branches related to growth, effect of pruning on tree growth & flowering
- C) Flowering Horticultural Practices

Transplanting: Trees suitable for transplanting, care & conditions for successful transplanting.

Evaluation by question paper of 2 hrs duration.

Evaluation by course faculty.

2

HYDROLOGY:

MARKS

THEORY

: 50

CONTACT HRS/WEEKS.: 1

Hydrological cycles and sources of surface water. Characteristics and management of drainage basins. Type of flow channels, management of surface water, Ground water occurrence. Aquifer recharge areas, infiltration, water intrusion areas, was a bearing, gound water management, sources of ground water pollution and its control, use of sline/brackish water for development. Basic impacts of hydrology on environment and landscape development.

Mode of evaluation by question paper of I hr. duration

Evaluation: by Course faculty.

HISTORY OF LANDSCAPE DESIGN-I

MARKS THEORY

CONTACT HRS/WEEKS.: 1

of the development of Landscape design from prehistoric to present with an understand the generative ideology, formulation of framework a moverview of the generative ideology, formulation of framework for the general of landscape design.

landscape and garden design in the ancient world; Babylon, Egypt, Paris, Greece, Rome and India

The Islamic tradition: Influence in Spain, the Mughal Garden in India: origin, principles and development.

Renaissance in Europe. Italian and French gardens.

3

Evolution of the axial plan. Development during the baroque period.

England: Evolution of the English Landscape style. Japan: Japanese Landscape Style.

The 19th Century in Europe and USA: emergence of landscape architecture an a orofession. Evaluation by question paper of 2 hrs duration Valuation by course Faculty.

MATERIALS AND ESTIMATION.

MARKS THEORY CONTACT HRS/WEEKS.: 1

: 50

Natural materials, Manmade materials, use of materials, use of ideal materials for driveways, pathways, cubings, retaing walls, lighting etc. Regional availability of material & usage.

Calculation of areas, quantities, actual market rates including breakup.

Mode of Evaluation by Question Paper of 2 his doration.

Evaluation by course Faculty.

4

MR

ADVANCE LANDSCAPE ENGINEERING

MARKS
THEORY
STUDIO
CONTACT HRS/WEEKS 2

pesign of Water Features:
Use of water in the appropriate context of time, political/religious power, way of thinking, technical advancements and influences from other regions. Qualities of water, scope, type of display:

Design of water features, technical requirements considerations for design and detail.

Design of irrigation system: Landscaped areas types, objectives and design, water needs and sources, application methods of installation, control systems, scheduling, maintenance.

Design and detail of hard landscape: Paving, barriers, edge conditions - functions. Types, criteria for selection, design aspects, detail design. Design of roads highways & parkways calculation of vertical & horizontal alignments.

Design of electrical lighting: Definition of technical terms, types of electrical lighting, types of electrical lighting, types of fixtures, auxiliary fixtures, principles of design for outdoor illumination, design & types of effects with electrical lighting, safety precaution & drawbacks of electrical lighting, electrical accessories and their installation.

Use of non-conventional sources of energy.

Evaluations: By question paper of 2 hrs duration & sessional assignments.

Evaluation by Course faculty and Studio faculty.

15 N

LANDSCAPE DESIGN - II

6

MARKS THEORY : 400 CONTACT HRSAVEEKS.: 8

The studio exercises will involve 3 or 4 of the following situations - urban context,.

Urban & Rural Landscape appraisal.

2 Analysis & Site Planning for medium sites

Landscape Design of small recreation sites.

Mode of evaluation: Continuous studio reviews by Studio faculty and presentation of studio exercises for evaluation by External Juries.

Total Studio Marks for Advanced Landscape Engineering & Landscape Design II: 500 (300 internal & 200 external)

STANDARD OF PASSING THE SECOND SEMESTER EXAMINATION

51/4 Examination candidate must obtain 50% of the full marks in Theory of the full marks in Sessional work. However the candidate who has failed Sent to pass the issuant and work. However the candidate who has failed to passing marks own option to be excused from marks either in The start his own option to be excused from marks either in The See 10% of the full marks in The Seesional but has obtained the passing marks either in Theory or Theory or Sessional but has obtained the passing marks either in Theory or other in Th Theory or Sessional in the passing marks either in Theory or sessional in sessional had passed and the Marks obtained in the Theory or Sessional in sessional had passed over to the subsequent example. special is at his own and the Marks obtained in the Theory or Sessional in special had passed and the Marks obtained in the Theory or Sessional in which he has a special shall be earried over to the subsequent examination. seem he had passed over to the subsequent examination.

Those successful candidates who obtained 55% of the total marks obtainable in Those succession at one sitting only will be placed in the Second Class.

Those successful candidates who obtained 60% of the total marks obtainable in Those succession at one sitting will be placed in the First Class.

THIRD SEMESTER

05749 A candidate for being eligible for admission to Third Semester in Landscape OF Parchitecture of this University shall produce testimonials of having satisfactorily kept Architecture of Second Semester and completed the required Sessional Work prescribed attendance of the Second Semester, to the satisfaction of the head of the college in which the candidate had been studying, and has passed the Second Semester in Landscape Architecture Examination conducted by the prescribed Authority. In case of failure in the Second Semester Examination, the candidate will be permitted to join the Third Semester provided the candidate had obtained a minimum of 50% Marks in Landscape Design.

85847A candidate who has passed the Second Semester Examination and has Satisfactorily completed the course of Second Semester will be permitted to appear for Third Semester Examination in Landscape Architecture.

R<u>5848</u> The following are the syllabi in various subject of the Third Semester Examination in Landscape Architecture.

R <u>इत्रम</u> The candidates will be examined in the following subjects as per Examination scheme for the Third Semester Examination in Landscape Architecture which will be conducted by the College affiliated on behalf of the University of Mumbai

Post Graduate Studies in Landscape Architecture Three years - Part Time

Semester III

	cy.	()			(1)	13			Sr. No.	
	iandscape Design - III	Fiants and Design - I	Town Fignning & Traffic Planning	Introduction to Urban Design,	Computer Application	History of Landscape Architecture - II	Ecology		o. Subject	
		1		NA.				1	Le	Sc
4	0	0		_	-	_	-		ctures	heme
10	o	72		0	0	0	0		Lectures Studio Hrs.	Scheme of Instruction
14	œ	2					_	/ Week	Hrs.	uction
350	200	100		0	50	0	0	Arsessment	Internal	
200	200	0	_	0	0	0	0	/ Week Assessment Assessment Exam Marks	External Written Max	Scheme of Exam
200	0	50		50	0	50	50	Exam	Written	xam
750	400	150		50	50	50	50	Marks	Max	



POST GRADUATE STUDIES IN LANDSCAPE ARCHITECTURE THREE YEARS - PART TIME

SEMECTER - III

TOTAL MARKS: 750

ECOLOGY

MARKS THEORY

SO

CONTACT PRSAVEEKS.: 1

fundaments of Ecology definition, scope, ecosystems and their functioning nature and components biotic and a biotic, major types, the biosphere and its

fological processes: energy flow-energy source, food chains and tropic structure, fological pyramids, bio-geo-chemical cycles hydrologic cycles hydrologic cycles nutrient goles - carbon, nitrogen, sulfur, phosphorous, evolution - variation and selection.

Ecology of growth, regulation, limits to growth, carrying capacity.

Evaluation by question papers of 2 hrs duration.

Evaluation: by course faculty.

1. HISTORY OF LANDSCAPE ARCHITECTURE - II

MARKS THEORY

: 50

CONTACT HRS/WEEKS.: 1

The 20th Century: Development of urban landscape design: garden cities, suburbs, new lowns, contemporary approaches in Landscape Architecture, with examples.

The Indian context: Understanding attitudes to open space design in India: ancient influence: Mughal influence: British colonial influence: contemporary issues.

Eco-tourism & sustainable development.

Evaluation by question papers of 2 hardwarden.

Evaluation: by Course faculty.

KU

P

COMPUTER APPLICATION

MARKS
CLASS ASSIGNMENTS : 50
CONTACT HRS/WEEKS. : 1

Use of Computer in preparation, presentation of drawings

(second of earth work and other quantities with the help of computer.

(second of earth work and information systems & G.I.S.

genote sensing land information.

Realization: By class assignments.

Evaluation: by Course faculty.

;

INTRODUCTION TO URBAN DESIGN, TOWN PLANNING & TRAFFIC PLANNING.

MARKS: 50 CONTACT HRS./WEEKS: 1

Interrelation of Landscape to urban design town planning & traffic

planning. Evaluation: By question paper of 2 hrs duration.

Evaluation by Course faculty.

PLANTS AND DESIGN - I

MARKS 50 Theory: 100 Studio CONTACT HRS/WEEK: 2

i) Physical characteristics of plant material.

ii) Plant association communities (Shape, Colour, Form Texture & Size)

ii) Factor affecting choice of plant material for specific design applications.

- iv) Basic principle of planting design: functional of esthetic values of plants in landscape design.
- v) Plants for urban of Rural roads, parks, residential areas etc.

Preparation of planting plan & specifications.

Detailed study of plant material and appreciation of its intrinsic values, role of plant material in Landscape design, planting design.

ble of evaluation: Presentation of assignment & question paper of 2 lies duration.

baluation : by Course Doubly.

20 KV

LANDSCAPE DESIGN - III

MARKS STUDIO CONTACT HRS/WEEKS.: 8 :400

large scale Exercises of analysis & Purpose related to Landscape of

Spaces at Urban Design Scale Traffic inter charge systems Heritage / Cultural Landscape.

Total Studio Marks for Plant & Design & Landscape Design Studio: 500 (300 internal & 200 external)

STAINDARD OF PASSING THE THIRD SEMESTER EXAMINATION

RESOTO pass the Examination candidate must obtain 50% of the full marks in Theory of the full marks in Sessional work. However the candidate who has failed and 50% of the full marks in Theory or Sessional but has obtained the passing marks either in Theory or either in the own option to be excused from appearing for Theory or Sessional in sessional in the Theory or Sessional in which he had passed and the Marks obtained in the Theory or Sessional in which he had passed over to the subsequent examination.

Those successful candidates who obtained 55% of the total marks obtainable in the second Class.

Those successful candidates who obtained 60% of the total marks obtainable in the examination taken at one sitting will be placed in the First Class.

FOURTH SEMESTER

Architecture of this University shall produce testimonials of having satisfactorily kept attendance of Third Semester and completed the required Sessional Work prescribed for the Third Semester, to the satisfaction of the head of the college in which the candidate had been studying, and has passed the Third Semester in Landscape Architecture Examination conducted by the prescribed Authority. In case of failure in the Third Semester Examination, the candidate will be permitted to join the Forth Semester provided the candidate had obtained a minimum of 50% Marks in Landscape Design.

R585] A candidate who has passed the Third Semester Examination and has Satisfactorily completed the course of Forth Semester will be permitted to appear for Forth Semester Examination in Landscape Architecture.

R5852 The following are the syllabi in various subject of the Fourth Semester Examination in Landscape Architecture.

R5853 The candidates will be examined in the following subjects as per Examination Scheme for the Forth Semester Examination in Architecture which will be conducted by University.

AC

Post Graduate Studies in Landscape Architecture Three years - Part Time

Semester IV

	_	0		1		, d	S	-	-	1	,			0	27	
Total		Landscape Design Studio - IV	Plants & Design - II	Electives / Seminars		Practice	Landscape Management & Horticultural	Cog. Station		Environmental Impact Assessment &	December of the state of the st	Foogustem Analysis		Subject		
4		0	0	_						_				Lectures Studio		Scheme of Instru
0.1		8	2	0			0			0	0			Studio		of Inst
14		∞	12	_						_	_	/ VY CCK	1	Hrs.	1:	uction
300		200	100	0			0			0	0	Assessment		Internal		
200		200	0	0			0			0	0	Weekl Assessment Assessment		External	Scheme of Exam	Calcana af F
250		0	50	50		00	50			50	50	Exam		Written Max	X a n i	
750		400	150	50	1		50	ē	00	5	50	Marks	1000	21 24		

POST GRADUATE STUDIES IN LANDSCAPE ARCHITECTURE

THREE YEARS - PART TIME

SEMESTER - IV

TOTAL MARKS: 750

ECO SYSTEM ANALYSIS 1.

MARKS THEORY

: 50

CONTACT HRS/WEEKS.: i

Ecological communities : spatial structure, ecological niche and species diversity, succession.

Limiting factors and their operations : climatic and atmospheric factors, spoils, biotic factors, interaction of factors

Ecological balance and survival thresholds.

lluman influences on ecosystems : historical overview, the rise of agriculture, civilizations, industrialization and economitant urbanization, impacts on the environment global perspective, national perspective-ecosystems of India ecological issues.

Evaluation: by course faculty.

2 ENVIRONMENTAL IMPACT ASSESSMENT & LEGISLATION

MARKS THEORY

: 50

CONTACT HRS/WEEKS.: 1

Environmental science: Environment- definition, important components, quality of lotal environment, global issues - green house effect, acid rain, etc., status of environment i India, environment related acts, infernational treaties on environment, sustainable development - ecological & economical parameters, public participation & role of NGO's.

Pollution-definition-pollution of air, water, land and noise, effect on humans, flora, fauna, vegetation & life forms, demandation of land.

24 K

Environmental impact assessment : definitions, methodologies, techniques, adventages & disadvantages standards & their measurement environmental

EIA in India, legislation related to EIA, EIA in developed and developing countries. ecological attitudes in the past.

Environmental criteria for location of human settlements any major land based activity Environmental sites & quality of life. Applicability of EIA to various development Integration of EIA methodology to the first linear to the sites are sites and sites are sites Integration of EIA methodology to landscape design. Environmental programmes. Environmental planning and management strategies and approaches relevant to urban and rural areas, coplanting and relationship to landscape design.

Mode of evaluation: Submission of Term Paper and/or Test of 2 hrs duration Evaluation : by Course faculty & Studio faculty.

Environment Legislation:

Concept of law-constitution in relation to environment.

Introduction to town planning legislation and legal tools for development control and their relationship for landscape design objectives.

Indian forests Act, 1927 preserved, protected, private and village forests - widlife sanctuaries act.

Legislative and administrative framework for National parks in U.K., U.S.A. and Infla-

Periphery control legislation and green belt concept. Preservation of the country side.

Legislation relating to preservation of parks, open spaces, play grounds, trees and accient monuments.

(Air/preservation and control of pollution) Act, 1981, Water (preservation and control of pollution) Act, 1974 - Mining Act.

Coastal Regulation Zone.

Mode of evaluation: question paper of 2 hrs duration Evaluation: by Course thousand

Landscape Management & Horticultural practice 3.

MARKS THEORY

CONTACT HRSAWEEKS. 1 Economics: Cost and benefits related to open space development.

Management: at regional scale soil conservation water management grass land management forestry and agricultural.

Horticultural Practices and maintenance. Mode of evaluation: question paper of 2 hrs duration Evaluation: by Course faculty.

4. Electives / Seminars

MARKS THEORY

50

CONTACT HRS/WEEKS

- Sculpture and painting i)
- Art appreciation ii)
- Vastu in Landscape iii)
- Software designing (by using Indian plants in Landscape). iv)

Mode of evaluation: by sessional assignments.

5. Plants & design - II

MARKS

THEORY

: 50

STUDIO

:100

CONTACT HRS/WEEKS.: 2

Growth rate of plants as criteria for plant choice, concept of nursery planting.

Planting for wind breaks, shelter belts, wild life land rehabilitation, and watershed management.

Landscape maintenance and management.

Elements of horticultural practices.

Preparation of planting concepts, planting plans, and plant schedule for large scale projects.

Estimation of costs and bills for quantity.

Question Paper of 2 year duration. Evaluation by course faculty.

6. Landscape Design Studio - IV

MARKS OIGUTZ CONTACT HRS/WEEKS.: 8

Site selection, analysis and proposals related to landscape of 1.

Institutional campuses 2.

Industrial estates 3.

Large recreational areas 4.

Total Studio Marks for Plant & Design & Landscape Design Studio: 500 (300 internal

STANDARD OF PASSING THE FOURTH SEMESTER EXAMINATION

pass the Examination candidate must obtain 50% of the full marks in Theory of the full marks in Sessional but has obtained the candidate when the sessional but has obtained the sessional but has obtain of the full marks in Sessional work. However the candidate who has failed in Theory or Sessional but has obtained the passing marks only Theory or Sessional but has obtained the passing marks either in Theory or Sessional but has obtained the passing marks either in Theory or single and the Marks obtained to appearing for Theory or the passing marks either in Theory or Sessional in the Theory or Sessional in sional is at 113 or sessional in the Marks obtained in the Theory or Sessional in the Sessional in which he has shall be carried over to the subsequent examination. which he had be carried over to the subsequent examination.

Those successful candidates who obtained 55% of the total marks obtainable in those satisfies at one sitting only will be placed in the Second Class.

Those successful candidates who obtained 60% of the total marks obtainable in the examination taken at one sitting will be placed in the First Class.

FIFTH SEMESTER

0575] A candidate for being eligible for admission to Fifth Semester in Landscape Architecture of this University shall produce testimonials of having satisfactorily kept attendance of Forth Semester and completed the required Sessional Work prescribed for the Forth Semester, to the satisfaction of the head of the college in which the candidate had been studying, and has passed the Forth Semester in Landscape Architecture Examination conducted by the prescribed Authority. In case of failure in the Forth Semester Examination, the candidate will be permitted to join the Fifth Semester provided the candidate had obtained a minimum of 50% Marks in Landscape Design.

\$5855 A candidate who has passed the Forth Semester Examination and has Satisfactorily completed the course of Fifth Semester will be permitted to appear for Fifth Semester Examination in Landscape Architecture.

Examination following are the syllabi in various subject of the fifth Semester Examination in Landscape Architecture.

Scheme for a candidates will be examined in the following subjects as per Examination scheme for the Fifth Semester Examination in Landscape Architecture which will be conducted by the Fifth Semester Examination in Landscape Architecture which will be conducted by the College affiliated on behalf of the University of Mumbai





Post Graduate Studies in Landscape Architecture Three years - Part Time

Semester V

_									1	9	-
		S	4		w	17)				ST. NO.	
Total		Landscape Design Studio - V	Electives / Seminars	& professional Practice	Lanciscape Project Mangement	Landscape resources	landscape planning	Landscape Conservation & Regional		Subject	
4		0	-		1	1				Lectures Studio Hrs.	Scheme of Instruction
10		10	0		0	0		0		Studio	of Instr
14	-	S			_	-		-	/ Weck	Hrs.	nction.
300		300	0		0	0		0	Assessment	Internal	
250		250	0		0	0		0	/ Week Assessment Assessment Exam Mark	External Written Max	Scheme of Exam
200		0	. 50		50	. , 0		50	Exam	Written	xam
750		550	50		50	50		50	Mark	Max	



POST GRADUATE STUDIES IN LANDSCAPE ARCHITECTURE THREE YEARS - PART TIME

SEMESTER - V

١

TOTAL MARKS: 750

LANDSCAPE CONSERVATION AND REGIONAL. LANDSCAPE PLANNING

MARKS

: 158

CONTACT HRS WEEKS :

Environmental impact of man's activities on earth. Role and characteristics of agricultural, forestry, industry and urbanization as components of the inginal landscape, landscape conservation.

National parks and other protective designations. Endangered Endscape firestry forestry types of India and their distribution: Forest policy: Forest and widife Forest and agricultural as competent uses in hill areas : social forestry.

Landscape assessment techniques: Basic quantitative methods of co-secting. analyzing projecting and presenting data for Landscape planning

Characteristics and elements from which landscape quality is derived visual and cultural landscape values. Environment impact studies. Case examples of landscape planning at regional scale.

Mode of evaluation question paper of 2 hrs duration and Term paper.

Evaluation by Course faculty.

2. Landscape resources

Marks 50 Theory Contact hrs.: 1

Siting and evolution of cities in relation to regional landscape resource

Landscape heritage, cultural and sacred sites. City development plans development controls to conserve / create urban landscape.

Overview of landscape resources at national level - issues related to mountains, deserts, rivers and coastal regions. Rural landscape - agricultural and forestry.

: 30 ·

policies concerning - wastelands and watersheds Mode of evaluation question paper of 2 hrs duration and Term paper Evaluation : by Course faculty,

Landscape Project Management & Professional Practice

3. Marks 59 Theory Marks 50 Internal Assessment

Contact hes. : 1

Contact hrs.:

Legal aspects - codes, standards, and byelaws - role of municipal corporation. LTE ET commission etc.

Contract procedure, documenting etc.

Type of clients, professional fees, and role of professional institutes

Mode of evaluation question paper of 2 hrs duration and Term paper

Evaluation: by Course faculty.

Electives / Seminars 4.

Marks: So theory Contact Hrs. I

- Mythological importance of plant 1.
- Social dimensions in landscape architecture 2
- 3. Medicinal plants
- 4 Management skills

Evolution by class assignments

Landscape Design Studio - V

Marks: 550

Contact hrs. 10

large scale exercise of analysis, policies and proposals related to large projects like sites or SEZ, Eco-tourism projects etc.

Total Studio Marks for Landscape Design Studio: 550 (300 internal & 250 external)

$_{STANDARD}$ of passing the fifth semester examination

R To pass the Examination candidate must obtain 50% of the full marks in Theory of the full marks in Sessional but her all the candidate must be sessional but her all the ses R5558 To pass the full marks in Sessional work. However the candidate who has failed and 50% of the full marks in Sessional but has obtained the passing marks in Theory or Sessional but has obtained the passing marks in Theory or Session to be a session Rygon of the ran marks in In and 50% of the ran Sessional but has obtained the passing marks either in Theory or or option to be excused from appearing for marks at his own option to be excused from appearing for marks either in Theory or within and is at his own option to be excused from appearing for marks in In the second seco obtained the passing marks either in Theory or either in at his own option to be excused from appearing for Theory or Sessional in Sessional had passed and the Marks obtained in the Theory of Sessional in Sessional is at this gassed and the Marks obtained in the Theory or Sessional in which he had passed over to the subsequent examination which he had placed over to the subsequent examination.

Those successful candidates who obtained 55% of the total marks obtainable in the examination taken at one sitting only will be placed in the Second Class.

Those successful candidates who obtained 60% of the total marks obtainable in the examination taken at one sitting will be placed in the First Class.

SIXTH SEMESTER

05452 A candidate for being eligible for admission to Sixth Semester in Landscape Architecture of this University shall produce testimonials of having satisfactorily kept attendance of Fifth Semester and completed the required Sessional Work prescribed for the Fifth Semester, to the satisfaction of the head of the college in which the candidate had been studying, and has passed the Fifth Semester in Landscape Architecture Examination conducted by the prescribed Authority. In case of failure in the Filth Semester Examination, the candidate will be permitted to join the Sixth Semester provided the candidate had obtained a minimum of 50% Marks in Landscape Design.

A candidate who has passed the Fifth Semester Examination and has Satisfactorily completed the course of Sixth Semester will be permitted to appear for Sixth Semester Examination in Landscape Architecture.

Examination The following are the syllabi in various subject of the sixth Semester Examination in Landscape Architecture.

The candidates will be examined in the following subjects as per Examination when the form of the candidates will be examined in the following subjects as per Examination to the candidates will be examined in the following subjects as per Examination to the candidates will be examined in the following subjects as per Examination to the candidates will be examined in the following subjects as per Examination to the candidates will be examined in the following subjects as per Examination to the candidates will be examined in the following subjects as per Examination to the candidates will be examined in the following subjects as per Examination to the candidates will be examined in the following subjects as per Examination to the candidates will be examined in the following subjects as per Examination to the candidates will be examined in the following subjects as per Examination to the candidates will be examined in the candidates will be conducted by the candidates will be examined to the candidates will be conducted by th Scheme for the Sixth Semester Examination in Architecture which will be conducted by University University.

> 32 M/

Post Graduate Studies in Landscape Architecture Three years - Part Time

Semester VI

					1	No.	
Y 7 + 50 +	Total		Transfer of the second	Landscape Design - III Thesis		Subject	
-	0			0		Lectures	Scheme of Instruction
	14			14		Studio	of Instr
	14 14			14	/ Week	Hrs.	uction
	500		1	500	Week Assessment Assessment Exam Marks	Lectures Studio Hrs. Internal	
	250)		250	Assessment	External Written Max	Scheme of Exam
	0	>	_	0	Exam	Written	am
	100	1,00		750	Marks	Max	

POST GRADUATE STUDIES IN LANDSCAPE ARCHITECTURE THREE YEARS - PART TIME

SEMESTER - VI

TOTAL MARKS: 750

LANDSCAPE DESIGN - HI THESIS

MARKS

: 750

CONTACT HRS./WEEKS: 14

The exercise would deal with complex problems of landscape architecture including site planning and landscape planning and seeks to develop the concept of landscape design as formal expression of modern landscape architecture is heavily oriented upon the understanding of ecology.

Each student would be required to select a topic for individual project, before end of 5th Semester in consultation with faculty members.

The project as far as possible, should not be only design oriented, but should address to total landscape design approach comprehensively researched. The project work must clearly indicate students maturity in handling a project in a professional manner.

Mode of evaluation: Continuos Studio review by Studio faculty and presentation of studio exercises for evaluation by external juries.

Evaluation: by studio faculty and External jury.

+ Sites above 50 Acers.

Total Studio Marks for Landscape Design Thesis: 750 (500 internal & 250 external)

—×××××××

Rund Current 6/09/08

12 34.