

UNIVERSITY OF MUMBAI

No.UG/ 403 of 2004

CIRCULAR :

Attention of the Principals of the affiliated colleges in Architecture is invited to this office Circulars No.UG-108 dated 31st March, 2001 No.UG-202 dated 8th May, 2002 and No.UG-109 dated 31st March, 2001 respectively, in respect of Ordinances, Regulations and syllabi relating to the Master of Architecture (M.Arch.) degree course (By Research), Master of Architecture (M.Arch.) degree course in Urban Design and Master of Architecture (M.Arch.) degree course in Urban Conservation and they are hereby informed that the recommendations made by the ad-hoc Board of Studies in Architecture at its meeting held on 13th May, 2003 has been accepted by the Academic Council at its meeting held on 2nd April, 2004 vide item No.4.1 and subsequently approved by the Management Council at its meeting held on 17th April, 2004 vide item No.20 and that in accordance therewith as required by the Government of India, HRD Department (i) the duration of Master of Architecture (M.Arch.) degree course (By Research) has been extended to IV Semesters (two years) from the existing course of the duration of III Semesters (one and half years), (ii) the duration of Master of Architecture (M.Arch.) degree course in Urban Design has been extended to IV Semesters from the existing III Semesters and (iii) the duration of Master of Architecture (M.Arch.) degree course in Urban Conservation has been extended to IV Semesters from the existing III Semesters.

Further that the Ordinances 5367, 5368 and 5369 and the Regulations 4680, 4681, 4682, 4683, 4684, 4686 and 4687 relating to the syllabus, scheme of papers and standard of passing for the Master of Architecture (M.Arch.) degree courses (By Research) is passed as per Appendix and that the Ordinances 5370, 5371, 5373, 5374, 5375, 5376, 5377, 5378, 5379 and 5380 and Regulations 4688, 4689, 4690, 4691, 4692, 4693, 4694, 4695, 4696, 4697, 4698 and 4699 relating to the scheme, syllabus and standard of passing for the Master of Architecture (M.Arch.) degree course in Urban Design is passed as per Appendix and that the Ordinances 5381, 5382, 5383, 5384, 5385, 5386, 5387, 5388, 5389, 5390, 5391, 5392 and 5393 and Regulations 4700, 4701, 4702, 4703, 4704, 4705, 4706, 4707, 4708, 4709 and 4710 relating to the scheme, syllabus and standard of passing for the Master of Architecture (M.Arch.) degree course in Urban Design and Urban Conservation is passed as per Appendix.

The above Ordinances have been made by the Management Council in exercise of the powers conferred upon it under sub-section (i) of Section 54 of Maharashtra Universities Act 1994 and the Regulations have been made by the Management Council in exercise of the powers conferred upon it under sub-section (i) of Section 55 of the Maharashtra Universities Act 1994.

Further that the above recommendation made by the ad-hoc Board has been brought into force with effect from the academic year 2004-2005.

Mumbai 400 032

13th September, 2004


for the REGISTRAR

The Principals of the affiliated colleges in Architecture.

A.C. 41 02.04.04

No.UG 403-A of 2004

13th September, 2004

Copy forwarded with compliments for information to :

- 1) the Dean, Faculty of Technology.
- 2) the ad-hoc Board of Studies in Architecture.


for the REGISTRAR.

Copy to :

The Director, Board of College and University Development, the Controller of Examinations, the Deputy Registrar (Eligibility & Migration Section), the Director of Students welfare, the Personal Assistants to the Vice-Chancellor, the Pro-Vice-Chancellor, the Registrar and the Assistant Registrar, Administrative sub-centre, Ratnagiri, for information.

The Controller of Examinations (10 copies), F. & A.O. (Accounts Section) Fort (2 copies), Record Section (5 copies), Publication Section (5 copies), D.R., Enrolment, Eligibility & Migration Section (3 copies), D.R., Statistical Unit (2 copies), D.R., (Accounts Section), Vidyanagari (2 copies), the Director, U.C.A., D.E. Bldg., D.R. (Affiliation Section) (2 copies), A.R., A.A. Unit (2 copies). It is requested to treat this as action taken report on the concerned resolution adopted by the Academic Council/Management Council referred to in the above Circular and that no separate A.T.R. will be sent in this connection. A.R., CONCOL (2 copies), UCTU (1 copy), D.R. (P.R.O.) (2 copies), Dy. Acct. (Unit V) (1 copy), In-charge, Central Computing Facility (1 copy), Receptionist (1 copy), Telephone Operator (1 copy), A.T.A.S.A. (1 copy), Superintendent, P.G. Section (2 copies).

2/4/2017

UNIVERSITY OF MUMBAI



Ordinances & Regulations Relating to Master of Architecture (M. Arch.) Degree Examination (By Research)

(with effect from the academic year 2004-2005)

UNIVERSITY OF MUMBAI

Ordinances and Regulations relating to the Master of Architecture (M.Arch.) degree examination by research.

Note : Every candidate for the Master of Architecture (M. Arch.) degree by research will have to register as a Post-Graduate student.

O. 5367 A candidate for being eligible for admission to the Master's degree course in Architecture (by research) must have passed the Examination for the degree of Bachelor of Architecture of this University or of any other University recognized as equivalent thereto with a minimum of 50 per cent marks on the aggregate or must have passed the diploma in Architecture conducted by the Board of Technical Examinations of the Maharashtra.

O. 5368 The duration of the M. Arch. degree course shall be of two calendar years. A candidate who has kept terms for the first year of the course to the satisfaction of his guiding teacher as laid down in R. will be permitted to keep terms for the second year of the course.

O. 5369 A candidate seeking admission to the course will have to submit, through his guiding teacher, a synopsis of his programme on a topic connected with the subjects mentioned in R. below, indicating therein its manner of treatment, to the principal of the college of Architecture through which he registers for the course for his approval, along with the application for examination to the course.

R. 4680 At the end of the satisfactory attendance of the first academic year a brief report to be submitted by the candidate on the instruction offered for the core subject, shall be assessed by his guiding teacher, after whose approval, the candidate will be permitted to keep terms for the second year of the course.

R. 4681 The thesis is to be submitted at the end of the second year. At least two months before submitting the thesis, a candidate shall forward to the Registrar through his guide and the Principal of the college a statement giving the title and a synopsis of the thesis along with the required fee. The candidate shall forward his thesis to the Registrar, through the Principal of the college of Architecture through which he has registered.

R. 4682 The thesis and the report indicating the applicability or otherwise of the finding of his thesis shall be finally referred for evaluation and report thereon to not less than two referees to be appointed by the Executive Council on the recommendation of the relevant Board of Studies and the Academic Council, one of whom shall always be the guiding teacher.

The referees shall make their report after evaluation of the thesis and holding *viva-voce* examination of the candidate to test his knowledge of the subject of the thesis. The referees shall report to the Executive Council whether the thesis shall be accepted or rejected and their report shall be final. The external referee shall be a person residing in India who is an expert on the subject. The *viva-voce* shall be held jointly only after the thesis has been valued by both the referees and at the time of holding it, the referees conducting the *viva-voce* shall have the thesis in their hands.

R. 4683 The thesis that has been rejected maybe re-submitted after due revision for not more than two occasions within a period of three years from the rejection of his thesis.

R. 4684 Every candidate shall submit a certificate signed by the teacher under whom he has worked stating that there is a prima-facie case for consideration of the research work. Such certificate shall be regarded as satisfying the Board of Studies that a candidate has done sufficient work for the submission of his thesis for final evaluation.

R. 4685 Every candidate registered for the degree under O. shall submit three copies of the thesis with drawings, diagrams, etc. together with a synopsis and a statement indicating to what extent his work is original and to what extent it is borrowed from others. The research shall be the candidate's own work carried out under guidance or supervision of his teacher.

R. 4686 The following are the subjects within the purview of which a topic for the M. Arch. Degree by research, has to be selected by a candidate:-

- (1) Housing projects (urban and rural)
- (2) Industrial projects
- (3) Institutional projects
- (4) Commercial projects

R. 4687 Apart from the physical design aspect, a student will be required to explore the following areas* of study relating to the topic selected by him and will receive the instruction** as indicated below for the same:-

**Areas of Study*

- (a) Socio-economic features
- (b) Land, Government Policies and their effects
- (c) Geographical and climatic conditions
- (d) Case studies
- (e) Building techniques and their adaptations
- (f) Studies in depth of special problems involved in the subject to discover new areas of knowledge about the behavior of the user.
- (g) Physical design of the project on an actual located site giving structural concepts and also analysis of an exhaustive study of materials, services and management of the project.
- (h) A detailed report indicating to what extent findings of the thesis can be practically applied or adopted to a live project.

**** Instructions**

Core Instructions

Besides a major project on the selected subject, the candidate shall be offered core instructions in Architecture, related subjects and subjects of general interest. A candidate is required to submit a paper at the end of the first and the second term on the instruction offered.

General:

Politics, Government Policies, Economics, Sociology, Psychology, Business Management, Art, History, Statistics.

Technical:

Structures, Services, Professional Practice, Construction Management, PERT/CPM, Real Estate, Building Codes.

Architectural:

Urban Design, Town Planning, Environmental Design, Architectural History.

UNIVERSITY OF MUMBAI



Ordinances & Regulations
including the Scheme and Syllabus
prescribed for the
Master of Architecture
in
Degree in Urban Design

(with effect from the academic year 2004-2005)

UNIVERSITY OF MUMBAI
MASTER OF ARCHITECTURE DEGREE IN URBAN
DESIGN

PREAMBLE

It is proposed to offer a regular M. Arch postgraduate course in Urban Design of two-year duration open to students with B.Arch. qualifications or equivalent recognized qualifications. This course is designed to enhance the skills of town planners, architects, surveyors, historians, geographers and others interested or involved in the urban design projects. The course will commence from the academic year 2001.

Main themes of this course are as follows:

Urban regeneration and community development
Quality in the built environment
Landscape planning and conservation
Heritage and conservation

Objectives of Urban Design Course are as follows:

- 1] to attain a fundamental understanding of large-scale design in a hand-on manner
- 2] to define and analyze current urban design issues.
- 3] to develop vital and sustainable urban design concepts, programs, policies and plans
- 4] to develop successful strategies for the implementation of urban design initiatives
- 5] to judge the performance of urban design projects, policies and processes
- 6] to work successfully with communities and public and private planning institutions
- 7] to develop research skills and enhance knowledge in the field in innovative ways

Candidates will be examined in the following subjects for Semester I examination of Master of Architecture degree in Urban Design

SEMESTER I

Sr. No.	Subject	Scheme of Instruction per week			Scheme of examination		
		Lec.	Studio	Hrs/ Week	Internal Assessment	Written Exam	Max Marks
1	Urban design history theory and criticism	2	-	2	50	50	100
2	Methods of Urban design	2	-	2	50	50	100
3	Planning Procedure	3	-	3	50	50	100
4	Housing and Urban Sociology	3	-	3	50	50	100
5	Computer Programming and information systems	2	-	2	100	-	100
6	Seminar: Introduction to	2	2	4	50	-	50
7	Design studio-1	-	12	12	450 (300+150*)	-	450
		14	14	28	800	200	1000

*periodic Assessment-300 and final assessment – 150

Ordinances, Regulations and Syllabus for the Master of Architecture Degree in Urban Design.

- O. 5370** A candidate for being eligible for admission to First Semester of Master's Course in Urban Design must be a Graduate who has completed the Degree in Architecture of a recognized University or equivalent Academic Qualification.
- O. 5371** The Course leading to the Master's degree in Urban Design shall be four Semesters, full-time Course in two years.
- O. 5372** There will be an Examination at the end of each Semester. The candidate obtaining Master's degree in Urban Design will be required to pass all the Examinations held at the end of each Semester by the Competent Authority mentioned hereafter.
- O. 5373** The Master's degree in Urban Design will not be conferred upon a candidate unless the candidate has passed in all the papers and completed the Sessional Work prescribed for each Semester Examination in accordance with the provisions relating to each Semester Examination.
- R. 4688** The total intake per batch will be maximum 30 and minimum 5 students.
- R. 4689** Performance of students shall be evaluated by Sessional work, Sessional Examination and final thesis.

SEMESTER I

- O. 5374 A candidate for being eligible for admission to First Semester in Urban Design of this University must have passed the Degree/Diploma in Architecture of a recognized University
- R. 4690 Given overleaf are the syllabi in various subjects of the First Semester Examination in Urban Design.
- R. 4691 The candidate will be examined in the subjects as per the examination scheme for the First Semester Examination in Urban Design, which will be conducted by the College, affiliated to the University.

The following are detail syllabi for various subjects of Semester I of Master of Architecture degree in Urban Design.

URBAN DESIGN HISTORY, THEORY AND CRITICISM

Marks (100)

Hrs/Week -2

The unit explores the evolution of ideas and principles of Urban Design by centering on the relationship between societal change and the formal organization of the urban environment. Historical, theoretical and critical lines of arguments will be pursued by examining urban places and spaces in their making, use and change, ranging from early civilizations to the present.

A review of the history and heritage of human settlements in India from ancient times to date. A critical examination of current trends in contemporary architecture and planning in India.

METHODS OF URBAN DESIGN

Marks (100)

Hrs/Week -2

The unit conveys concepts and methods of inquiry that are useful for urban design discourse and reflective practice, aiming at better environmental programming and design. It will explore ways of telling, sensing, noting, enquiring, conceiving, briefing and guiding in Urban Design.

Planning Practice in India- An overview

Survey Research Process: primary and secondary sources of data, techniques of data collection, analyzing and presenting physical and socio-economic data, questionnaire design, administration of field survey as:-

1. Methods of identifying urban and regional problems, setting of goals, objectives and priorities. Performance standards, spatial standards and standards for utilities.

Classification of regions, regionalization and deliberation technique for various types of regions. Cluster and factor analysis methods.

Analysis for understanding structure of urban areas, land value and density patterns, locational attributes of activity areas and locational dimensions of population groups. Forces of concentration and disposal. Social Area Analysis. Time series analysis.

PLANNING PROCEDURES

Marks (100)

Hrs/Week -3

Students will gain.

- a) knowledge of institutional and procedural context, which is essential for planning practice.
- b) skills in the formulation of planning controls and assessment of development proposals.
- c) an understanding of techniques, which are essential for effective community consultation and
- d) competence in the development and communication of planning arguments

The assignments require a demonstration of the student's ability to interpret documents, use case materials to develop reasoned arguments for planned intervention and prepare concise and coherent planning documents.

HOUSING AND URBAN SOCIOLOGY

Marks (100)

Hrs/Week -3

Socio-economic base for planning and population studies

Social aspects of urbanization, housing and community development in India. The implications and limitations of neighborhood planning as a sociological concept in the Indian context. Crime, delinquency and contemporary housing concepts. Crime, delinquency and obsolescence in urban areas as studies in urban anthropology.

Housing design and standards in the context of comprehensive socio-economic and physical planning.

Influence of socio-economic, climate, physiological, technological and traditional factors in the design of developing units, clusters and housing layouts.

Design consideration in economic housing for developing countries-site and services and incremental housing programs.

A comparative study of housing design and performance standards in India and Western countries with specific reference to dwelling units' density standards, community facilities, service and open spaces.

Selected case studies for a critical assessment of current housing development in the city.

COMPUTER PROGRAMMING AND INFORMATION SYSTEMS

Marks (100)

Hrs/Week – 2

Introduction to computers, concept of data management, flow-chart, introduction of programming languages. Application of computer in planning.
Application software's related to planning.

Following software is required for conducting this course.

- [i] SPSS / PCT
- [ii] Project management software
- [iii] CPM/ PERT & shortest path package
- [iv] Software related to landscape architecture
- [v] Any other software recommended by HODs of Departments of Studies

LANDSCAPE DESIGN AND URBAN ECOLOGY

Marks (100)

Hrs/Week – 4

This unit engages Indian indigenous, recent and international landscape dimensions in tangibles ways. The participants will come to better understand the nexus between urban design, architecture and landscape design in ways that respond to principles of ecologically sustainable development.

Environmental and ecological factor in site planning. Demonstration through texts and case studies. Physical development of land forms.

Concepts and theories in landscape architecture/city planning urban design in the historical perspective, origin of forms, organization of space, relationship of activity with buildings, open space/ built form.

Spatial organization of selected cities, emphasizing landscape assessment.

Urban landscape in relation to topography.

Selected case studies of urban landscape and streetscape in relation to the city fabric

Contemporary landscape and the emergence of the natural system.
Concept for opens space and park system in urban area.

URBAN DESIGN STUDIOS

Marks (450)

Hrs/Week- 12

The Central subject of the units, intensive studies design work on important contemporary urban programming and development challenges, to develop both practical skills and critical thinking.

Morphological and image structure survey / analysis of a selected part of a traditional urban area with detailed studies of urban landscape and streetscape.

Formulation of outline land use and design structure proposals for the area. Evolution of a viable design program.

Presentation of final proposals with three-dimensional models and sketches.

STANDARD OF PASSING
SEMESTER I EXAMINATION OF MASTER'S DEGREE IN URBAN DESIGN

R. 4692 To pass the Examination candidate must obtain 50% of the full marks in Theory and 50% of the full marks in Sessional work. However, the candidate who has failed either in Theory or Sessional but has obtained the passing marks either in theory or Sessional is at his own option, to be excused from appearing for theory or Sessional in which he has passed and the marks obtained in the theory or Sessional in which he has passed shall be carried 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 only will be placed in the First Class.

NOTE: The minimum attendance as per rules is compulsory

SEMESTER II

O. 5375

A candidate for being eligible for admission to Second Semester in Master's degree in Urban Design of this University shall produce testimonials of having satisfactorily kept attendance in the 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 has been studying, and has passed the First Semester in Urban Design 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 has obtained a minimum of 50% marks in the Design Studio I of Semester I.

O. 5376

A candidate who has passed the First Semester Examination and has satisfactorily completed the course of Second Semester will be permitted to appear for the Second Semester Examination in Urban Design.

R. 4693

The following are the syllabi in various subjects of the Second Semester Examination in Urban Design.

R. 4694

The candidates will be examined in the following subjects as per Examinations schemes for the Second Semester Examination in Urban Design, which will be conducted by the College, affiliated to this University.

Candidates will be examined on the following subjects for Semester II examination in Urban Design

SEMESTER II							
Sr. No	Subject	Scheme of Instruction/Week			Scheme of examination		
		Lec.	Studio	Total Hrs/Week	Internal Assessment	Written Exam	Max Marks
1	Physical Planning	2	-	2	50	50	100
2	Transportation and traffic for Urban design	2	2	4	100	50	150
3	Urban environmental sciences and services	2	-	2	50	50	100
4	Development finances	2		2	50	50	100
5	Urban and regional design in Mumbai	2	2	4	50	50	100
6	Design Studio II	-	12	12	*(300+150)	-	450
		10	16	26	600	400	1000

*Periodic assessment-300 and final assessment-150

The following are detail syllabi for various subjects of Semester II of Master's degree in Urban Design

PHYSICAL PLANNING

Marks (100)

Hrs/Week -2

The interaction between types and intensities of land use, transportation and broader dynamics of change in the physical environment.

Preparation of urban and regional development plan:- various approaches comprehensive planning; systems approach to planning case studies identifying use of techniques.

Aerial photography: basic principles and techniques of photogrammetry, photointerpretation and remote sensing.

Collection of data by photo-interpretation and remote sensing techniques, analysis and interpretation of these data and compilation of interpreted data for the metric maps.

Specific applications in urban and regional planning, housing, urban design and landscape analysis.

Social applications of open space, development and pattern of space utilization in urban areas.
Behavioral factors in urban landscape design.

Design vocabulary and its application to improve the physical settings for the development process.

TRANSPORTATION AND TRAFFIC FOR URBAN DESIGN

Marks (100)

Hrs/ Week- 4

The unit presents both fundamental and advanced traffic and personal/public transport strategies for better urban design. Besides basic engineering and design principles for roads and streets, it explores transport policy and planning choices at the local scale in relation to multi-model optimization programs and projects. Emphasis is on the full integration of local transport parameters into urban design, as well as on comprehensive strategies towards environmental innovation.

URBAN ENVIRONMENTAL SCIENCE AND SERVICES

Marks (100)

Hrs/Week -2

The technical systems and dynamics those are critical to urban design, such as city microclimates, air flows, sound, lighting and utilities

DEVELOPMENT FINANCE

Marks (100)

Hrs/Week -2

The economics of property development in both the public and private sectors

URBAN AND REGIONAL DESIGN IN MUMBAI

Marks (100)

Hrs/Week -4

This in-depth, hands-on unit combines lectures, workshops and fieldwork, exploring the history, current practice and visions and the future outlooks of urban and regional design in Mumbai. Among other themes to be explored policies, programs and activities of various public institutions as they drive urban forms changes on a large and very large scale, current urban and regional design issues as seen by key professional groups and private practitioners, as well as give a detailed exposure to the ideas, methods and projects pursued by non governmental organizations active in the region. The professor of Urban Design will teach this subject with the assistance of a number of outstanding government executives and area experts.

URBAN DESIGN STUDIOS II

Marks (450)

Hrs/Week –12

The Central subject of the units, intensive studies design work on important contemporary urban programming and development challenges, to develop both practical skills and critical thinking.

Morphological and image structure survey/ analysis of a selected part of a traditional urban area with detailed studies of urban landscape and streetscape.

Formulation of outline land use and design structure proposals for the area. Evolution of a viable design program.

Presentation of final proposals with tree-dimensional models and sketches.

STANDARD OF PASSING

SEMESTER II EXAMINATION OF MASTER'S DEGREE IN URBAN DESIGN

R. 4695 To pass the Examination candidates must obtain 50% of the full marks in Theory and 50% of the full marks in Sessional Work. However, the candidate who has failed either in Theory or Sessional but has obtained the passing marks either in Theory or Sessional is at his own option to be excused from appearing for Theory or Sessional in which he has passed and the marks obtained in the Theory or Sessional in which has passed shall be carried 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 only will be placed in the First Class.

NOTE: The minimum attendance as per rules is compulsory

SEMESTER III

O. 5377

A candidate for being eligible for admission to Third Semester of Master's Degree in Urban Design of this University shall produce testimonials of having satisfactorily kept attendance in Second Semester and completed the required Sessional Work prescribed for the Second Semester, to the satisfaction of the head of the college in which the candidate has been studying, and has 'passed the Second Semester Urban Design 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 has obtained a minimum of 50% marks in the subject of Design Studio II.

O. 5378

A candidate who has passed the Second Semester Examination and has satisfactorily completed the course of Third Semester will be permitted to appear for Third Semester Examination in Urban Design.

R. 4696

Given overleaf are the syllabi in various subjects of the Third Semester Examination in Architecture.

R. 4697

The candidates will be examined in the given subjects as per the Examination scheme for the Third Semester Examination in Architecture, which will be conducted by the University.

SEMESTER – III

		Scheme of Instruction Per Week			Scheme of Examination		
Sr. No	Subject	Lecture	Studio	Total Hrs/Week	Internal Assessment	Written Exam.	Max Marks
1	Research methods	2		2	50	50	100
2	Urban byelaws and	2		2	50	50	100
3	Real estate and land management in Urban Design	2		2	50	50	100
4	Seminar	2		2	100		100
5	Urban Design – III		12	12	(300+150)		450
6	Thesis I	2		2	150		150
		10	12	22	850	150	1000

The following are detail syllabi for various subjects of Master of Architecture Degree in Urban Design.

1 **RESEARCH METHODS**

Marks 100

Hrs 2 per week

The course would have a dual purpose assisting the students towards articulating there are of concern, structure theory synopsis which has been chosen as their thesis. Towards exposing the students to various structures of knowledge, cultural theory which would equip them into methodologies to structure their area of concern.

2 **URBAN BYLAWS AND PLANNING LEGISLATION**

Marks 100

Hrs 2 per week

this is to deal with the awareness of Govt. policies, regulations, rules and laws related to land property, urban development in general and their impact on ordinal development.

Housing, slums and town planning in general and their impact on urban Form and Net works and actual development.

The legislation to include Income Tax Act, transfer of Property Act and Revenue code, Urban land ceiling and regulation Act.

Acquisition Act and Environment Protection Act and Constitution of India.

The legislation to include Rent Control Act. CO-operative Society Act. Apartment Ownership Act. National building code. Town Planning act, Development Control Rules including TDR, Heritage, conservation and environment Protection Act.

Topics related to Urban Design will have to be identified and explained in from of lectures and discussed for understanding then impact on urban development activities. Urban infrastructure Institutions in India their role and participation in development process and support from International Finance Institutions Methods and Project Financing appraisal, monitoring and recovery systems, role of property taxes, stamp duty and development and in project implementation.

3 **REAL ESTATE AND LAND MANAGEMENT IN URBAN DESIGN**

Marks 100

Hrs 2 per week

The emphasis on the integration of planning, marketing, site analysis, threshold analysis for development of new schemes, modes of real estate development, Built-operate-transfer (BOT), housing co-operatives, financing mechanisms and

real estate credit systems, fluctuations in property values and study of land use changes in real-estate trends, investment priorities in real estate.

4

SEMINAR

Marks (100)

Hrs 2 per week

The seminar will evolve interaction with practicing urbanist with discussions on cases of urban intervention about the success and failures of the project. Case studies of major urban design projects both national international should be taken by the students. Preferences can be given to regional cases within the international context and their national one can be much more elaborated.

The course shall come wide ranging issues in urban design including all the four streams that is housing, landscaping, transportation and conservative socio-economic aspects of urban phenomena will be thoroughly within this course thus covering the requirement of urban sociology and urban economics. Especially in the seminar specific emphasis will be given to topics of urban sociology and urban economics.

5

URBAN DESIGN III

Marks (450)

Hrs 12 per week

Based o similar methodological approach as outlined in urban design I and II, this studio will basically address the area of urban conservation of both architecture and the urban areas.

Thus with the background knowledge and expertise gained through the previous studio works on urban housing, urban landscaping and urban transportation comprehensive approach shall develop specifically with respect to urban area conservation.

6

THESIS

Marks (150)

Hrs 2 per week

With the necessary background on theory and practical aspects of four major streams of urban design i.e. housing, landscaping, conservation and transportation, students shall undertake Independent research project on a micro level topic in any of the major or related minor disciplines. Research work shall provide opportunity in dealing with chosen topic, through original contribution and input after sorting out available data and material essentially it shall have theoretical study as well as application of the issue to a driven situation.

The Thesis is divided into two parts one that is initiated in Semester III and the second demonstrated in Semester IV. In the first part students are required to put forth theoretical arguments, which would help them to work on the basis in the rest semester.

STANDARD OF PASSING

**SEMESTER III EXAMINATION OF MASTER'S DEGREE IN URBAN
DESIGN**

R. 4697 A To pass the Examination, candidate must obtain 50% of the full marks in Theory and 50% of the full marks in Sessional Work. However, the candidate who has failed either in Theory or Sessional but has obtained the passing marks either in Theory or Sessional is at his own option to be excused from appearing for Theory or Sessional in which he has passed and the marks obtained in the Theory or Sessional in which he has passed shall be carried over to the subsequent Examination.

That successful candidate who has obtained 55% of the total marks obtainable in the Examination taken at one sitting only will be placed in the Second Class.

That successful candidate who has obtained 60% of the total marks obtainable in the Examination taken at one sitting only will be placed in the First Class.

NOTE: The minimum attendance as per rules is compulsory

SEMESTER IV

O. 5379

A candidate for being eligible for admission to Forth Semester in Urban Design of this University shall produce testimonial of having satisfactorily kept attending in 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 has been studying and has passed the Third Semester Examination in Urban Design 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 has obtained a minimum of 50% marks in Urban Design.

O. 5380

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 Urban Design.

R. 4698

Given overleaf are the syllabi in various subjects of the Forth Semester Examination in Urban Design.

R. 4698 A

The candidates will be examined in the given subjects as per the Examination schemes for the Forth Semester Examination in Architecture, which will be conducted by the University.

Candidates will be examined for the following subjects for Semester IV examination in Urban Design.

SEMESTER IV

Scheme of Instruction Week					Scheme of examination		
Subject	Lec.	Lab.	Studio	Total Hrs/Week	Internal Assessment	Written Exam	Max Marks
Urban Design Research	-	-	2	2	50	-	50
Urban Design Seminar	-	-	2	2	100	-	100
Thesis	-	-	15	15	(300+550)	-	850
	-	-	19	19	450+550	-	1000

Periodic Assessment = 300 and final assessment = 550

The candidate will be examined by external jury appointed by University alongwith the internal guide for 550 marks.

The following are detail syllabi for various subjects of Semester IV of M. Arch in Urban Design

URBAN DESIGN RESEARCH

Marks (50)

Hrs/ Week-2

Independent research studies

URBAN DESIGN SEMINAR

Marks (100)

Hrs/ Week -2

Based on the existing urban design project detailed investigations are conducted By the students on selected subjects of studie. The findings of their studies are Presented through a class seminar along with a documented report

THESIS

Marks (850)

Hrs/Week- 15

Townscape plans and future prospect

Renewal and rehabilitation programme in the core-inner city areas

Town's retrieval and regulatory control

Zoning studies and procedures for implementation

**STANDARD OF PASSING SEMESTER IV EXAMINATION OF
MASTER'S DEGREE IN URBAN DESIGN**

R. 4699 To pass the Examination, candidate must obtain 50% of the full marks in Theory and 50% of the full marks in Sessional Work. However, the candidate who has failed either in Theory or Sessional but has obtained the passing marks either in Theory or Sessional is at his own option to be excused from appearing for Theory or Sessional in which he has passed and the marks obtained in the Theory or Sessional in which he has passed shall be carried over to the subsequent Examination.

That successful candidate who has obtained 55% of the total marks obtainable in the Examination taken at one sitting only will be placed in the Second Class.

That successful candidate who has obtained 60% of the total marks obtainable in the Examination taken at one sitting only will placed in the First Class.

NOTE: The minimum attendance as per rules is compulsory for both years.

UNIVERSITY OF MUMBAI



Ordinances & Regulations
including the Scheme and Syllabus
prescribed for the
Master's^{OF} Architecture Degree In
Architectural and Urban Conservation

(with effect from the academic year 2004-2005)

UNIVERSITY OF MUMBAI
MASTER OF ARCHITECTURAL AND URBAN
CONSERVATION

PREAMBLE

Architecture and town planning education in India is faced today with the demands of a rapidly growing country involving changes in urbanization phenomenon. Issues that have so risen from rapid urbanization need immediate attention.

Rapid changes in a developing society often post a threat to the conservation of universal values directly or indirectly. With the advent of modern movement in architecture, architectural education has ceased its links with the historical traditions. It is recognized that a sense of historical continuity is essential in the field of architecture and town planning.

India is richly endowed with natural and man-made assets that need to be conserved. The building and urban heritage often gets neglected and gradually erased under the impact of the process of indiscriminate and insensitive development. It is felt that by integrating old and new development within the composite framework of a living environment both development and conservation could become complementary. While recognizing the many facets of conservation, the course primarily focuses on architectural and urban conservation. The comprehensive nature of this course aims to highlight the need to improve core areas of historic towns and cities by conserving cultural properties, monuments and historical precincts.

Mumbai city has made a definite beginning in the field of conservation in the country. It is the first city to have conservation legislation for protection to listed heritage structures and where so many conservation projects have been implemented too. It is also the first city where MMRDA (Mumbai Metropolitan Regional Development Authority) have set up a heritage society, which financially supports conservation studies undertaken by professionals.

All this has been possible due to enlightened activists public and bureaucrats who realized the threats to the heritage of this commercial capital of the country.

It is now proposed to offer a regular three semester's course of studies leading to Master of Architectural and Urban Conservation. A Centre for Conservation Studies would also be setup with a view to conduct research and field study in conservation and also to develop intensive short-term courses for sponsored and non-sponsored candidates. The course will commence from the academic year 2001.

THE COURSE STRUCTURE

Art and Science of Conservation thus provides a multi-disciplinary field of study involving the fields of architecture, urban planning and design, art history, chemistry of building material, consolidation and structural degeneration of historical structures, urban conservation and legislation. The Course devised covers various theoretical and practical aspect of conservation and restoration of cultural properties through the study of individual buildings, historic areas, areas of architecture and historical values and centre of historic town covered under urban.

Ordinances, Regulations and Syllabus for the M. Arch in Architectural and Urban Conservation.

- O.5381** A candidate for being eligible for admission to First Semester of M. Arch in Architectural and Urban Conservation must be a Graduate who has completed the Degree in Architecture of a recognized University or equivalent Academic qualification.
- O.5382** The course leading to the M.Arch in Architectural and Urban Conservation shall be Four Semesters, full-time Course.
- O.5383** There will be a Examination at the end of each Semester. The candidate obtaining M.Arch in Architectural and Urban Conservation will be required to pass all the Examinations held at the end of each Semester by the Competent Authority mentioned hereafter.
- O.5384** The M. Arch in Architectural and Urban Conservation will not be conferred upon a candidate unless the candidate has passed in all the papers and completed the Sessional Work prescribed for each Semester Examination in accordance with the provisions relating to each Semester Examination.
- R.4700** the total intake per batch will be a maximum 30 and minimum 5 student.
- R.4701** Performance of students shall be evaluated by Sessional work, Sessional examination and final thesis.

SEMESTER I

O.5385

A candidate for being eligible for admission to First Semester in Architectural and Urban Conservation of this University must have passed the Degree/Diploma in Architecture of a recognized University.

O.5386

Given overleaf are the syllabi in various subjects of the First Semester Examination in Architectural and Urban Conservation.

R.4702

The candidate will be examined in the subjects as per the examination scheme for the First Semester Examination in Architectural and Urban Conservation, which will be conducted by the College, affiliated to the University.

Candidates will be examined in the following subjects for Semester I examination of Master's degree in Conservation

SEMESTER I

Scheme of Instruction per week						Scheme of examination		
Sr. No	Subject	Lec.	Lab	Studio	Hrs/ Week	Internal Assessment	Written Exam	Max Marks
1	Theory of Urban Planning And Design – I	2	-	1	3	50	50	100
2	Planning Techniques	3	-	-	3	50	50	100
3	Housing and Urban Sociology	3	-	-	3	50	50	100
4	Art, Architectural History Theory and Criticism	2	1	-	3			
5	Archaeology	2	1	-	3			
6	Seminar: Introduction to history of Landscape architecture	2	-	-	2	50		
7	Design Studio – I	-	-	12	12	450(300+150)		
		14	7	13	29	750	250	1000

*Periodic Assessment=300 and final assessment = 150

The following are detail syllabi for various subject of Semester I of Master's degree in Conversation

THEORY OF URBAN PLANNING AND DESIGN-I

Marks (100)

Hrs/ Week -3

A review of the history and heritage of human settlements in India –from ancient times to date. A critical examination of current trends in contemporary architecture and planning in India.

Urban design as a fusion of architecture and planning principles.

Issues and objectives in Urban Planning and Design as related to land use planning and preparation of development plans in India and other countries.

Restructuring of urban areas in the context of historical growth parameters, functional and environmental consideration.

Focus on area level studies for design intervention and feedback to the growth and development of the city fabric.

A review of the new town development in India and the West.

Selected case studies of new towns, city centers and control area redevelopment projects.

PLANNING TECHNIQUE

Marks (100)

Hrs/Week -3

Planning Practice in India. An overview.

Survey Research Process primary and secondary sources of data, techniques of data collection, analyzing and presenting physical and socio-economic data, questionnaire design, administration of field surveys.

Methods of identifying urban and regional problems, setting of goals, objectives and priorities. Performance standards, spatial standards and standards for utilities.

Classification of regions, regionalization and deliberation technique for various types of regions. Cluster and factor analysis methods

Analysis for understanding structure of urban areas, land value and density patterns, locational attributes of activity areas and locational dimensions of population groups. Forces of concentration and disposal. Social Area Analysis. Time Series analysis.

Preparation of urban and regional development plans: - various approaches, comprehensive planning, structure planning, systems approach to planning- case studies identifying use of techniques.

Aerial photography: Basic Principles and techniques of photogrammetry, photo-interpretation and remote sensing.

Collection of data by photo-interpretation and remote sensing techniques, analyzing and interpretation of these data and compilation of interpreted data for the metric maps.

Specific Applications in Urban and regional planning, traffic and transportation planning, housing, urban design and landscape analysis.

HOUSING AND URBAN SOCIOLOGY

Marks (100)

Hrs/Week -3

Social aspects of urbanization, housing and community development in India. The implication and limitations of neighborhood planning as a sociological concept in the Indian context. Comparative analysis of traditional and contemporary housing concepts. Crime, delinquency and contemporary housing concepts. Crime, delinquency and adolescence in urban areas as studies in urban anthropology.

Housing design and standards in the context of comprehensive socio-economic and physical planning.

Influence of socio-economic, climatic, physiological, technological and traditional factors in the design of developing units; clusters and housing layouts.

Design consideration in economic housing for developing countries- site and services and incremental housing programs.

A comparative study of housing design and performance standards in India and Western countries with specific reference to dwelling units' density standards, community facilities social and public spaces.

Selected case studies for a critical assessment of current housing development

ART, ARCHITECTURAL HISTORY, THEORY AND CRITICISM

Marks (100)

Hrs/Week 3

A] Examining of different periods of Architectural History and its contribution to the field of Art, Architecture and Urbanism.

B] Comparative study of Renaissance and the Development of Artistic traditions in India.

C] Review of Arts and Crafts Movement.

ARCHAEOLOGY

Marks(100)

Hrs/Week –3

A] Introduction to Archaeology [Visit to Excavation and field work]

B] History of Archaeology as a discipline

- Archaeology in India [overview]
- Interface with civilization
- Indian Archaeology[Primitive Period]
- City state up to Gupta period

C] Medieval Period [Archaeology]

Comparative study of Medieval Period with Renaissance

D] Scientific application to Archaeology

Archaeological Data/Resource Material

Documentation

Report [Project Assignment]

INTROUDUCTON TO HISTORY OF LANDSCAPE ARCHITECTURE

Marks (50)

Hrs/Week –2

Environmental and ecological factor in site planning. Demonstration through texts and case studies. Physical development of landforms in historical context.

Concepts and theories in landscape architecture/city planning urban design in the historical perspective, origin of forms, organization of space, relationship of activity with buildings/open space/built form.

Spatial organization of selected cities of past, emphasizing landscape assessment.

History of Urban Landscape in relation to topography.

Selected case studies of urban landscape and streetscape in relation to the city fabric of the historic period.

Contemporary landscape and the emergence of the natural system in relation with history.

Concepts for open space and park system in historical urban area.

Social implications of open space, development and pattern of space utilization in urban areas. Behavioral factors in urban landscape design.

Design vocabulary and its application to improve the physical settings for the city development process.

CONSERVATION STUDIO

Marks (100)

Hrs/Week-12

Morphological and image structure survey/analysis of a selected part of a traditional urban area with detailed studies of urban landscape and streetscape.

Formulation of outline land use and design structure proposals for the area. Evolution of a viable design program

Presentation of final proposals with three-dimensional models and sketches

STANDARD OF PASSING

SEMSTER I EXAMINATION IN MASTER'S DEGREE IN CONSERVATION

R.4703

To pass the Examination candidate must obtain 50% of the full marks in Theory and 50% of the full marks in Sessional work. However, the candidate who has failed either in Theory or Sessional but has obtained the passing marks either in Theory or Sessional is at his own option, to be excused from appearing for Theory or Sessional in which he has passed and the Marks obtained in the Theory or Sessional in which he has passed shall be carried 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 only will be placed in the First Class.

NOTE: The minimum attendance as per rules is compulsory

SEMESTER – II

O.5387

A candidate for being eligible for admission to Second Semester in Architectural and Urban Conservation of this University shall produce testimonials of having satisfactorily kept attendance in the 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 has been studying, and has passed the First Semester in Architectural and Urban Conservation 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 has obtained a minimum of 50% marks in the subject of Design Studio – I of Semester I examination.

O.5388

A candidate who has passed the First Semester Examination and has satisfactorily completed the course of Second Semester will be permitted to appear for the Second Semester Examination in Architecture and Urban Conservation.

R.4704

Over leaf are the syllabi in various subjects of the Second Semester Examination in Architectural and Urban Conservation.

R.4705

The candidates will be examined in the following subjects as per Examination scheme for the Second Semester in Architectural and Urban Conservation, which will be conducted by the College, affiliated to this University.

Candidate will be examined in the following subjects for Semester II of Master's degree of conservation

SEMESTER II							
Sr. No.	Subject	Scheme of Instruction/Week			Scheme of examination		
		Lec.	Studio	Total Hrs/Week	Internal Assessment	Written Exam	Max Marks
1.	Heritage Management	2	-	2	50	50	100
2.	Conservation Legislation	2	-	2	50	50	100
3.	Current Trends in Conservation	2	2	4	100	50	150
4.	Conservation Philosophy	1	2	3	50	50	100
5.	Traditional techniques of Conservation	-	2	2	50	50	100
6.	Conservation studio	-	12	12	(300+150)	-	450
				25	750	250	1000

*Periodic Assessment=300 and final assessment = 150

The following are detail syllabi for various subjects of Semester II of Master's degree in conservation

HERITAGE MANAGEMENT

Marks (100)

Hrs/Weeks –2

- Overview and introduction to basic concepts of Heritage Management
- Case Studies.
- Heritage Tourism and Pilgrimage Tourism & the Management.
- World Heritage Sites and its Management.
- Urban Heritage and its Management
- Architectural Heritage & the Management

CONSERVATION LEGISLATION

Marks (100)

Hrs/Weeks –2

- International Charters.
- National policy for conservation
- Review of existing bylaws and conservation laws in the city country
- Case studies of bylaws across the world.
- Incentives in conservation planning
- Sensitive development guidelines
- Do's and don'ts – Architectural conservation
- Review of existing laws of ASI. Town planning bylaws etc.

CURRENT TRENDS IN CONSERVATION

Marks (150)

Hrs. Weeks-4

- Various Agencies and their role in conservation
- Issues related to conservation like less properties rent control act, D.C. rules, CRA. Etc
- Encounters with present practices internationally in urban and Architectural research
- Architectural conservation in practice
- Urban conservation in practice

CONSERVATION PHILOSOPHY

Marks (100)

Hrs./Week-3

- Different schools of thoughts of different countries cultural specific ness
- Eastern and Western approaches to conservation

- International charter and changing trends.
- What and why to conserve

TRADITIONAL TECHNIQUES

Marks (100)

Hrs./Week-2

- Importance of tradition in conservation
- Master craft person and his role in conservation
- Ancient wisdom of traditional techniques – time tested
- Traditional techniques versus modern interventions
- Case studies

CONSERVATION STUDIO

Marks (450)

12 Hrs/Week

- Conservation projects on selected sites.

STANDARD OF PASSING

SEMESTER II EXAMINATION OF MASTER'S DEGREE IN CONSERVATION

R.4706 To pass the Examination candidates must obtain 50% of the full marks in Theory and 50% of the full marks in Sessional Work. However, the candidate who has failed either in Theory or Sessional but has obtained the passing marks either in Theory or Sessional is at his own option to be excused from appearing for Theory or Sessional in which he has passed and the marks obtained in the Theory or Sessional in which has passed shall be carried 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 only will be placed in the First Class.

NOTE: The minimum attendance as per rules is compulsory

SEMESTER III

- O.5389** A candidate for being eligible for admission to Third Semester in Architectural and Urban Conservation of this University shall produce testimonials of having satisfactorily kept attendance in Second Semester and completed the required Sessional Work prescribed for the Second Semester, to the satisfaction of the head of the college in which the candidate has been studying, and has passed the Second Semester Urban Design Examination conducted by the prescribed Authority. In case of failure in the Second Semester Examination, the candidate has obtained minimum of 50% marks in the subject of Design Studio II
- O.5390** A candidate who has passed the Second Semester Examination and has satisfactorily completed the course of Third Semester will be permitted to appear for Third Semester Examination in Architecture.
- O.5391** The candidates will be examined in the given subjects as per the Examination scheme for the Third Semester Examination in Architecture, which will be conducted by the College affiliated to the University.

Candidates will be examined in the following subjects for Semester III of Master's degree of Conservation.

SEMESTER III

Sr. No	Subject	Scheme of Instruction/ Week				Scheme of examination		
		Lec.	Lab.	Studio	Total Hrs/Week	Internal Assessment	Written Exam	Max Marks
1	Introduction to the Art and Science of conservation	1	1	-	2	25	25	50
2	Inventor/Technique and Documentation	1	1	-	2	25	25	50
3	Techniques of Conservation	2	1	-	3	50	50	100
4	Analysis of Historical Structures (Seminar)	1	1	-	2	25	25	50
5	Chemistry of Building Material	-	2	-	2	25	25	50
6	Urban Conservation	-	2	-	2	25	25	50
7	Design Studio – III	-	-	12	12	(325 + 325)		650
		5	8	12	25	500	500	1000

- Periodic assessment = 325 and final assessment = 325

The following are detail syllabi for various subjects of semester III of Master's degree in Conservation.

INTRODUCTION TO THE ART & SCIENCE OF CONSERVATION

Marks (50)

Hrs./Week –2

Overview and introduction to the basic concept of conservation

Values attitudes and principles judging the heritage traditions.

Evaluation techniques of built heritage, domestic and civic architecture. Artistic and traditional values.

Comparative overview of conservation movement in Europe, U. K. and Italy during 19th and 20th century.

Role of conservation architecture and revival of interest.

Archaeological report and their interpretation as related to the field of architecture and urban conservation documentary mapping of field study.

INVENTORY TECHNIQUE AND DOCUMENTATION

Marks (50)

Hrs/Week –2

Detailed investigation is undertaken followed by inspection report under the subject title Con – I and Con – II. Structural survey reports analysis and synthesis for historical and architectural intervention in the structure listing of faults, repair and alterations.

Effects of temperature and humidity on the structure.

Natural decay and an affect of biological factors such as air pollution and deterioration.

TECHNIQUES OF CONSERVATION

Marks (100)

Hrs/Week –3

Analysis of structures in terms of their efficiency and functions causes of decay.

Recording and diagnosis measures for control and treatment against repair and decay.

Structural survey, inspection and report.

Analysis of historical, architectural, masonry techniques.

Introduction to Photogrammetry & its application. Aerial photography and photo-interpretations exercise.

ANALYSIS OF HISTORICAL STRUCTURES

Marks (50)

Hrs/Week –2

Documentation, analysis and investigation of existing condition [surveys, inventory and analysis] in terms of historical, architectural and conservation.

Technical analysis.

Demographic and sociological analysis.

Analysis of urban functions and evaluation of structural conditions.

Critical analysis of the structures and its adaptation for appropriate usages.

Summary of methodological procedure for urban and architectural realization.

Restoration, retrieval, conservation plans and its implementation for revitalization.

CHEMISTRY OF BUILDING MATERIAL

Marks (50)

Hrs./Week –2

Analytical studies and behaviour of materials for the use of repairs, restoration and consolidation works of historical and architectural archaeological structures.

Analysis of mortar.

Behaviour of salts and porous materials.

Analysis and use of historic material for decorative art works such as Terracotta, tile works and rendering.

Laboratory exercises for water absorption, salt crystallization and microscopic analysis of the materials.

URBAN CONSERVATION

Marks (50)

Hrs./Week -2

Analysis of development proposals for conservation based on the synthesis and finding of the investigation of a selected projects study with focus for rehabilitation/ conservation and redevelopment plans.

Legal and administrative aspect of conservation

Archaeological acts/ charters pertaining to conservation.

Review of conservation acts.

Socio economic development and conservation.

Detailed investigations are undertaken for their economic and social implication for any equitable development due to conservation.

DESIGN STUDIO

Marks (650)

Hrs/Week -12

Studio projects are based on selection of a site or an area where excavation and conservation works are in progress or the area have been earmarked for such a study.

Evaluation and transformation of such area through different phases of development and the role of conservation for revitalizing the areas potential studio project will be confined to a medium size town, a part of an area which may be termed as historic zone.

STANDARD OF PASSING
SEMESTER III EXAMINATION OF MASTER'S DEGREE IN CONSERVATION

R.4707

To pass the Examination candidates must obtain 50% of the full marks in Theory and 50% of the full marks in Sessional Work. However, the candidate who has filed either in Theory or Sessional but has obtained the passing marks either in Theory or Sessional is at this own option to be excused from appearing for Theory or Sessional in which he has passed and the marks obtained in the Theory or Sessional in which has passed shall be carried 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 only will be placed in the First Class.

NOTE: The minimum attendance as per rules is compulsory

SEMESTER IV

O.5392

A candidate for being eligible for admission to Forth Semester in Urban Design of this University shall produce testimonials of having satisfactorily kept attendance in 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 has been studying, and has passed the Third Semester Examination in Urban design 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 has obtained a minimum of 50% marks in Urban Design.

O.5393

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 Urban Design.

R.4708

Given overleaf are the syllabi in various subjects of the Forth Semester Examination in Urban Design.

R.4709

The candidates will be examined in the given subjects as per the Examination scheme for the Forth Semester Examination in Architecture, which will be conducted by the University.

Candidates will be examined for the following subjects for Semester IV examination in Conservation.

SEMESTER IV

Subject	Scheme of Instruction Week				Scheme of examination		
	Lec.	Lab.	Studio	Total Hrs/Week	Internal Assessment	Written Exam	Max Marks
Conservation Research	-	-	2	2	50	-	50
Conservation Seminar Profession Practice Placement	-	-	2	2	100	-	100
Thesis	-	-	15	15	(300+550)	-	850
			19	19	450	-	1000

Periodic Assessment = 300 and final assessment = 550

The candidate will be examined by one external jury appointed by University alongwith the internal guide for 550 marks.

The following are detailed syllabi for various subjects of Semester IV of Masters Degree of Architectural and Urban Conservation.

CONSERVATION RESEARCH

Marks (50)

Hrs/Week – 2

Independent research studies in historical preservation, restoration and conservation.

CONSERVATION SEMINAR

Marks (100)

Hrs/Week – 2

Based on the architectural, historical and archaeological findings, detail investigations are conducted by the students on selected subjects of studies. The findings of their studies are presented through a class seminar alongwith a documented report.

THESIS (CONSERVATION STUDIES)

Marks (850)

Hrs/Week – 15

Town conservation plans and future prospect.

Renewal and rehabilitation programme in the core/ inner city areas.

Towns retrieval and conservation and regulatory control.

Zoning studies and procedures for implementation in historic districts and land mark designation.

STANDARD OF PASSING SEMESTER IV EXAMINATION

R.4710 To pass the Examination, candidate must obtain 50% of the full marks in Theory and 50% of the full marks in Sessional Work. However, the candidate who has failed either in Theory or Sessional but has obtained the passing marks either in Theory or Sessional is at his own option to be excused from appearing for Theory or Session in which he has passed and the marks obtained in the Theory or Sessional in which he has passed shall be carried over to the subsequent Examination.

That successful candidate who has obtained 55% of the total marks obtainable in the Examination taken at one sitting only will be placed in the Second Class.

That successful candidate who has obtained 60% of the total marks obtainable in the Examination taken at one sitting only will be placed in the First Class.

Candidates will be examined for the following subject for Semester IV examination in Conservation.

NOTE: The minimum attendance as per rules is compulsory for both year.