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Item No. 4.79

UNIVERSITY OF MUMBAI



**Scheme of Teaching and examination and course
content for the Master of Architecture**

Programme : M.Arch.

**Course : Architectural and Urban
conservation**

(As per Credit Based Semester and Grading System with
effect from the academic year 2012–2013)

**Semester wise scheme of examinations for
Master of Architecture
(M. Arch.) Architectural and Urban Conservation
SEMESTER I**

	EXAM CONDUCTED BY COLLEGE	TEACHING SCHEME			
		lecture	Studio	total	credits
	Semester I				
	Theory of Urban planning and Design	2	2	4	4
	Planning Techniques	3		3	3
	Housing and Urban Sociology	3		3	3
	Art, and Architectural History,	2		2	3
	Architectral Theory and criticism	2		2	2
	Archaeology	2		2	2
	Seminar: Introduction to history of Landscape Architecture	2		2	2
	Conservation Studio I		12	12	12
		16	14	30	30

SCHEME OF EXAMINATION SEMESTER I

		Examination Scheme			
		Theory (paper)	Sessional work		
	SEMESTER I		Internal	External viva	Total
	Theory of Urban planning and Design	50	50		100

	Planning Techniques	50	50		100
	Housing and Urban Sociology	50	50		100
	Art, Architectural History,	50	50		100
	Architectural Theory and criticism		50		50
	Archaeology	50	50		100
	Seminar: Introduction to history of Landscape Architecture		50		50
	Conservation Studio I		200		200
		250	550		800

Semester 1:

Theory of Urban Planning and Design - 1

Marks (100)

Hrs/ Week -3

Course contents:

- A review of the history and heritage of Human settlements in India and abroad.
- Restructuring of urban areas in the context of historical growth parameters, functional and environmental consideration.

Planning Techniques

Marks (100)

Hrs/Week –3

Course contents:

- What is planning
- Issues and objectives in Urban Planning and Design as related to land use planning and preparation of development plans in India and other countries.
- Focus on area level studies for design intervention and feedback to the growth and development of the city fabric

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

Housing and urban sociology

Marks (100)

Hrs/Week –3

Course contents:

- 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 and Architectural History

Marks (100)

Hrs/Week 2

Course contents:

- Examining of different periods of Architectural History and its contribution to the field of Art, Architecture and Urbanism.
- Comparative study of Renaissance and the Development of Artistic traditions in India.
- Review of Arts and Crafts Movement

Architectural theory and criticism

Marks (50)

Hrs/Week 2

Course contents:

- Introduction to works of various architects and theories of architectural practice

Archaeology

Marks(100)

Hrs/Week –3

Course contents:

- Introduction to Archaeology
- Visit to ASI protected monument
- Acts
- Preparation of Archaeological report

Introduction to History of Landscape Architecture

Marks (50)

Hrs/Week –2

Course contents:

- History of Urban Landscape in relation to topography
- 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.
- Environmental and ecological factor in site planning. Demonstration through texts and case studies. Physical development of landforms in historical context
- Spatial organization of selected cities of past, emphasizing landscape assessment.
- 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

Course contents:

- 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

SEMESTER II exam conducted by University

	Semester II	Teaching scheme			
		lecture	Studio	total	credits
	Heritage Management	2		2	2
	Conservation Legislation	2		2	2
	Current trends in Conservation	2	2	4	4
	Conservation Philosophy	1	2	3	3
	Traditional Techniques of conservation		2	2	2
	Conservation studio		12	12	12
		7	18	25	25

SCHEME OF EXAMINATION SEMESTER II

		Examination Scheme			
		Theory (paper)	Sessional work		Total
			Internal	External viva	
	Heritage Management	50	50		100
	Conservation Legislation	50	50		100
	Current trends in Conservation	50	100		150
	Conservation Philosophy	50	50		100
	Traditional Techniques of conservation	50			100
	Conservation studio		400		450
		250	750		1000

Semester 2:

Heritage management

Marks (100)

Hrs/Weeks –2

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

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
- Review of existing laws of ASI.
- 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 + Workshops

Conservation Studio

Marks (450)

Hrs./Week-12

- Conservation projects on selected sites.

SEMESTER III

	Semester III	lecture	Studio	total	credits
	Introduction to Art and science of Conservation	1	1	2	2
	Inventor/Technique and documentation	1	1	2	2
	Techniques of conservation	2	1	3	3
	Analysis of historical structures	1	1	2	2
	Chemistry of building materials		2	2	2
	Urban Conservation		2	2	2
	Conservation Studio		12	12	12
		5	20	25	25

SEMESTER III EXAMINATION

CONDUCTED BY COLLEGE

		Examination Scheme			
		Theory (paper)	Sessional work		
	Semester III		Internal	External viva	Total
	Introduction to Art and science of Conservation		50		50

	Approaches in conservation	50	50		100
	Inventory Technique ,documentation,and implementation		50		50
	Analysis of historical structures in urban setting		50		100
	Chemistry of building materials		50		100
	Urban Conservation		50		100
	Conservation Studio		650		
	TOTAL	50	950		1000

Semester 3:

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.

APPROACHES IN CONSERVATION

Marks (100)

Hrs./Week-3

- Repair, Reconstruction, Restoration, Rehabilitation, Adaptive reuse – To observe various approaches in conservation and understand the undertaken processes
- Case studies and Site visits
- Survey and report

Inventory technique, documentation and implementation

Marks (50)

Hrs./Week-2

- Detailed investigation is undertaken followed by inspection report

- Structural survey reports analysis and synthesis for historical and architectural intervention in the structure listing of faults, repair and alterations.
- Tender preparation - Specifications, Quantities etc.

Analysis of Historical structures in Urban Setting

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.
- 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.
- Materials – Historic plaster/ mortar, Stone, Decorative finishes, Cast iron / Steel, Stained glass, Wood

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.
- Socio economic development and conservation.
- Detailed investigations are undertaken for their economic and social implication for any equitable development due to conservation.
- Review of national and international cases

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.

SEMESTER IV examination conducted by university

	Semester IV	lecture	Studio	total	credits
	Conservation Research		2	2	2
	Conservation seminar		4	4	4
	Thesis		18	18	18
			24	24	24

SCHEME OF EXAMINATION SEMESTER IV

		Examination Scheme			
		Theory (paper)	Sessional work		
			Internal	External viva	Total
	Conservation Research		100		100
	Conservation seminar		100		100
	Thesis		400	400	800
					1000

Semester 4:

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.