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UNIVERSITY OF MUMBAI



**Syllabus for the Master of Architecture
(By Research Partly by papers)**

Programme : M.Arch. (By Research)

Course : M.Arch. (By Research)

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

Master of Architecture course (By Research partly by papers) degree program

Preamble

Architecture is not just buildings, Architecture is everything about people and places.

In addition to the physical aspect of site and climate, the architect should be aware of the cultural characteristics of the place, its historic traditions, and current trends. The architect should have the knowledge about the buildings systems, user requirements, aspirations and behaviour.

Architects are generalists. They have to perform as technicians, artists, counsellors, project managers and co-coordinators.

Architects are members of society. They use society's resources. They should accept the responsibility of fulfilling society's needs. It is obvious that the deeper is their understanding, the richer their expression, and the keener their creative power, the more valuable will be their contribution to the society.

They must be aware of contemporary theories related to Art, Architecture and sociology and economics.

Master of Architecture Program (By Research partly by papers) provides the opportunity to gain deeper knowledge of Architecture. It is a systematic attempt to obtain answers to specific questions about phenomena or events in built environment and their application to building design.

The course gives facilities for students to gain specialization in their chosen design topics.

Notes:

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
- (5) Infrastructure projects

- (6) Urban Design projects
- (7) Urban Renewable/ Redevelopment
- (8) Interventions in heritage precincts
- (9) Environmental Design projects
- (10) Hybrid building projects (Mix-use)

Allied Research

Areas of Study for allied research

A student will be required to explore the following areas of study relating to the topic selected by him and will receive the guidance for the same:-

- (a) Socio-economic features
- (b) Land, Government Policies and their effects
- (c) Geographical and climatic conditions
- (d) Building techniques and their adaptations
- (e) behavior of the user.
- (f) A detailed report indicating to what extent findings of the thesis can be practically applied or adopted to a live project.

seminar

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 present a paper and at the end of the first and the second semester of the course.

Electives

Every candidate has to complete one elective and submit the required sessional work at the end of the semester I and semester II

Topics of electives

Visual studies, Digital Architecture, Landscape, Rural studies, Urban Sociology
Urban Infrastructure, User Behaviour, Structural systems, Construction management
History and culture

Scheme of examinations for SEMESTER I
Master of Architecture M. Arch. (by Research) partly by papers
(CONDUCTED BY COLLEGE)

	Teaching scheme		total	credits
	lecture	Studio	total	
Semester I				
Architectural research	2	2	4	4
Allied research	2	2	4	4
Research Methodology	2		2	2
Architectural theories 1	2		2	2
Elective1		2	2	2
Seminar		2	2	2
Research work		8	8	8
total	8	16	24	24

SCHEME OF EXAMINATION SEMESTER I

	Examination Scheme			
	EXAM CONDUCTED BY COLLEGE	Theory (paper)	Sessional work	
Semester I		Internal	External viva	Total
Architectural research		100	100	200
Allied research		100	--	100
Research Methodology	100	--		100
Architectural theories 1	100			100
Electives 1		100		100
Seminar		100		100
total				700

SEMESTER I

Research Methods I

Types of Research: Historical Research, Descriptive Research, Experimental Research

Research Methods: Survey, Comparative Research, Co relational Methods

Research sample and methods of sampling

Review of related literature

Research Design- Research plan and research questions

Tools and Techniques of research

Critical Theory I

1.0 What is Critical Theory?

2.0 What are the effects of Critical Theory?

3.0 Research Approaches

4.0 Building a World View

4.1 Structuralism

4.12 Meaning

4.13 Applied Structuralism

4.2 Post-Structuralism

4.21 Deconstruction

4.22 Deconstructivist Strategies

4.23 Reality & Hyper-reality

4.24 The Post Modern World View

SEMESTER II

	Teaching scheme		total	credits
	lecture	Studio	total	
Architectural research	2	2	4	4
Allied research	2		2	2
Research Methodology	2		2	2
Architectural theories 1	2		2	2
Elective1		2	2	2
Seminar		2	2	2
Research work		10	10	8
total	8	16	24	24

	Examination Scheme			
	Theory (paper)	Sessional work		Total
		Internal	External viva	
Architectural research		100	150	250
Allied research		100	--	100
Research Methodology	100	--		100
Architectural theories 1	100			100
Electives		50		50
Seminar		100		100
total				700

Semester II

Research Methods II

Research management

Collection of data

Qualitative and Quantitative methods of Data analysis

Computer applications for data analysis

Critical Theory II

1.0 A Brief Introduction to Ideas relating to:

Philosophy; Plato's 'Theory of Forms', Plato's Cave; Aristotle's Categories; Rational and Empirical Thinking; Descartes; Hegel; Immanuel Kant

2.0 Structuralism:

3.0 Postmodernism and Architecture, Eco's definition

4.0 Critical Theory in Architecture (texts and architecture)

5.0 Critical Theory and Architectural Analysis

5.1 Strategies of Analysis and Synthesis:

5.11 CONTEXTUALISE

5.12 DECONTEXTUALISE

5.13 RECONTEXTUALISE

THINKING CRITICALLY Identify and characterize arguments

SEMESTER III

	Teaching scheme		total	
	lecture	Studio	total	credits
Semester III				
Architectural research		6	6	6
Allied research	2		2	2
Research Methodology	2	2	4	4
Research work		12	12	12
	4	20	24	24

	Examination Scheme				
	EXAM CONDUCTED BY COLLEGE	Theory (paper)	Sessional work		Total
			Internal	External viva	
Architectural research		200	100	300	
Allied research		200	--	200	
Research Methodology		100		100	
total				600	

Research Methods III

Applications of Research to Architecture

Writing of summary and conclusions

Applications of Research to Architecture

Writing of summary and conclusions

Writing Synopsis of research

Writing the research

Writing the Bibliography

SEMESTER IV

	Teaching scheme		total	credits
	lecture	Studio	total	
Architectural Research and design		4	4	
Allied research		4	4	12
Research and Design work		16	16	16
		24	24	24

EXAM CONDUCTED BY UNIVERSITY	Examination Scheme			
Semester IV	Theory (paper)	Sessional work		
		Internal	External viva	Total
Architectural Research and design		500	500	100
total				1000