

**UNIVERSITY OF MUMBAI**  
**No. UG/118 of 2016-2017**

**CIRCULAR:-**

A reference is invited to the Regulation relating to the Master of Architecture (M.Arch.) programme vide this office Circular No. UG/03 of 2012, dated 5<sup>th</sup> February, 2012 and the Principals of the affiliated Colleges in Architecture are hereby informed that approved by the Academic Council at its meeting held on 24<sup>th</sup> June, 2016 vide item No. 4.91 and in accordance therewith, the revised syllabus as per the Choice Based Credit System for M. Arch.(by Research, Partly by Papers) (Sem. I & II), which is available on the University's web site ([www.mu.ac.in](http://www.mu.ac.in)) and that the same has been brought into force with effect from the academic year 2016-2017.

MUMBAI – 400 032  
October, 2016

  
(Dr.M.A.Khan)  
REGISTRAR

To,  
The Principals of affiliated Colleges in Architecture.

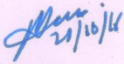
**A.C/4.91/24/06/2016**

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No. UG/118 -A of 2016-17      MUMBAI-400 032      25 October, 2016

Copy forwarded with compliments for information to:-

- 1) The Dean, Faculty of Technology,
- 2) The Chairperson, **Ad-hoc** Board of Studies in Architecture.
- 3) The Director, Board of College and University Development,
- 4) The Controller of Examinations,
- 5) The Co-Ordinator, University Computerization Centre.

  
(Dr.M.A.Khan)  
REGISTRAR

PTO..

**AC 24-06-2016**  
**Item No. 4.91**

# **UNIVERSITY OF MUMBAI**



**Syllabus for the**  
**Master of Architecture**  
(by research, partly by papers)

(As per Choice Based Credit System  
with effect from the academic year 2016–2017)

UNIVERSITY OF MUMBAI

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

**Preamble**

Architecture is not just buildings; it 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 situation. The architect should have the knowledge and awareness, not only about building systems and user requirements, but also about user aspirations and their behaviour.

Architects are generalists. They have to perform as technicians, artists, counsellors, project managers, co-coordinators, social scientists and visionaries. They must be aware of contemporary theories related to Art, Architecture, Culture, Sociology, Behaviour sciences, and Economics.

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 society.

**The Master of Architecture Program (By Research partly by papers) provides the opportunity to gain deeper knowledge of Architecture and its broader location in Society and Culture. It is a systematic attempt to obtain answers to specific questions about phenomena or events in built environment.**

**The course provides facilities for students to gain specialization in their chosen research topics**

**Architectural Research:**

The following are representative areas within the purview of which a topic for the M. Arch. Degree by research, can be selected by a researcher

- (1) Housing (urban and rural)
- (2) Industrial Architecture
- (3) Institutional Architecture
- (4) Commercial Architecture
- (5) Infrastructure (Urban/Rural)
- (6) Urban Design
- (7) Urban Renewable/ Redevelopment
- (8) Interventions in heritage precincts
- (9) Environmental Design projects
- (10) Landscape design
- (11) History of Architecture
- (12) Ancient Indian culture
- (13) Contemporary Architecture
- (14) Architectural design detailing
- (15) Inclusive Architecture

**Allied Research**

A researcher will be required to explore any of the following areas of study allied to the architectural research topic selected by him/her, 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) Society-History and culture
- (e) Building techniques and their adaptations
- (f) Behavior studies
- (g) Environmental Psychology

## **Seminar**

A researcher is required to present a paper related his/her topic of interest. A paper can also be based upon his/her architectural research or allied research topic.

## **Electives**

Every candidate has to complete elective courses and submit the required sessional work at the end of the semester. The following are a representative list of possible elective topics:

### **Possible Topics for departmental electives**

Visual studies, Geometry and Architecture, Environmental studies, Landscape design, Real estate management, inclusive Architecture, Structural systems, Construction management, History and culture

### **Possible topics for institutional electives**

Rural studies, rural sociology, Urban Sociology, Urban studies, Urban Infrastructure, User Behavior, Environmental Psychology,

## SEMESTER I

Scheme of examinations for SEMESTER I

Master of Architecture **M. Arch. (by Research) partly by papers**  
**(CONDUCTED BY COLLEGE)**

	<b>Semester I</b>	Teaching scheme		total	credits
		lecture	Studio	total	
MARRC101	Architectural research	3		6	6
	Architectural research studio		3		
MARRC102	Allied research studio		4	4	4
MARRC103	Research Methodology I	4		4	4
MARRC104	Theories in Architecture I	4		4	4
MARRE120	Elective1	3		3	3
MARRE121	Elective 2	3		3	3
	total	17	7	24	24

## SCHEME OF EXAMINATION SEMESTER I

CONDUCTED BY COLLEGE

	<b>Semester I</b>	Examination Scheme			
		Theory (paper)	Sessional work		
MARRC101	Architectural Research + Studio		Internal	External viva	Total
MARRC102	Allied research		100	100	200
MARRC103	Research Methodology I		100	--	100
MARRC104	Theories in Architecture I	50	50		100
MARRE120	Electives 1	50	50		100
MARRE121	Elective 2		100		100
	total		100		100
					700

## **SEMESTER I**

### **MARR101**

#### **Architectural Research and architectural research studio**

Students are required to initiate the process of research as per the guidance of the research guides and formulate their research design.

### **MARR102**

#### **Allied Research studio**

Students are required to conduct allied research as per the guidance of the research guides.

### **MARR103**

#### **Research Methodology**

1. Types of Research: Historical Research, Descriptive Research, Experimental Research
2. Research Methods: Qualitative and Quantitative
3. Research Methods- Survey, comparative study, correlational studies, visual methods of research
4. Review of related literature
5. Research Design- Research plan and research questions

### **MARR104**

#### **Theories in Architecture I**

1. What is Critical Theory?
2. What are the effects of Critical Theory?
3. Research Approaches in architecture using Critical Theory
4. Building a World View

A Brief Introduction to Ideas relating to:

Rational and Empirical Thinking

Philosophy and Aesthetics

a. Plato's 'Theory of Forms'

b. Plato's Cave

Philosophy and Epistemology

c. Aristotle's Categories

d. Descartes

e. Immanuel Kant

Philosophy and Analysis

f. Hegel's Thesis Ant-thesis, Synthesis

## SEMESTER II

Scheme of examinations for SEMESTER II

Master of Architecture **M. Arch. (by Research) partly by papers**  
(Examination to be conducted by University of Mumbai)

		Teaching scheme		total	credits
		lecture	Studio	total	
	<b>Semester II</b>				
MARRC201	Architectural research	3		6	6
	Architectural research studio		3		
MARRC202	Allied research studio		4	4	4
MARRC203	Research Methodology II	4		4	4
MARRC204	Theories in Architecture II	4		4	4
MARRE220	Elective1	3		3	3
MARRE221	Elective 2	3		3	3
	total	17	7	24	24

### SCHEME OF EXAMINATION SEMESTER II CONDUCTED BY UNIVERSITY

		Examination Scheme			
		Theory (paper)	Sessional work		Total
	<b>Semester II</b>		Internal	External viva	
MARRC201	Architectural Research + Studio		100	100	200
MARRC202	Allied research		100	--	100
MARRC203	Research Methodology II	50	50		100
MARRC204	Theories in Architecture II	50	50		100
MARRE220	Electives 1		100		100
MARRE221	Elective 2		100		100
	total				700



## **SEMESTER II**

### **MARR201**

#### **Architectural Research and architectural research studio**

Students are required to continue with the process of research as per the guidance of the research guides

### **MARR202**

#### **Allied Research studio**

Students are required to conduct allied research as per the guidance of the research guides

### **MARRC203**

#### **RESEARCH METHODOLOGY 2**

1. Research population and research samples
2. Tools and techniques for data collection
3. Qualitative and Quantitative methods of Data analysis
4. Computer applications for data analysis

### **MARRC204**

#### **Theories in Architecture II**

1. Modernism and Postmodernism and Architecture and Culture  
Eco's definition
2. Structuralism and post-structuralism:
  - 2.0 Structuralism
  - 2.1 Meaning
  - 2.2 Applied Structuralism
  - 2.3 Post-Structuralism
  - 2.4 Deconstruction
  - 2.5 Deconstructivist Strategies
  - 2.6 Architecture and Deconstruction
  - 2.7 Reality & Hyper-reality
  - 2.8 The Post Modern World View
  - 2.9 A Brief Introduction to Ideas of Ferdinand de Saussure, Claude Levi-strauss, Roland Barthes, Jaques Derrida, Michel Foucault, Jean Baudrillard, Gilles Deluze
3. Critical Theory in Architecture (texts and architecture)  
A Brief Introduction to Ideas of Bernard Tschumi, Peter Eisenmann, Daniel Liebeskind, Frank Gehry, Rem Koolhaas, Bjarke Ingels

- 4. Critical Theory and Architectural Analysis
- 4.0 Strategies of Analysis and Synthesis:
- 4.1 CONTEXTUALISE
- 4.2 DECONTEXTUALISE
- 4.3 RECONTEXTUALISE
- 4.4 THINKING CRITICALLY: Identify and characterize arguments

### **SEMESTER III**

Scheme of examinations for SEMESTER III

**Master of Architecture M. Arch. (by Research) partly by papers  
(Examination to be conducted by college of Architecture)**

	<b>Semester III</b>	Teaching scheme		total	credits
		lecture	Studio	total	
MARRC301	Architectural research		16	16	16
MARRC303	Research Methodology		4	4	4
	Seminar (capacity building)		4	4	4
			24	24	24

### SCHEME OF EXAMINATION SEMESTER III CONDUCTED BY COLLEGE

		Examination Scheme			
		Theory (paper)	Sessional work		Total
			Internal	External viva	
MARRC301	Architectural research		200	200	400
MARRC303	Research Methodology		200		200
MARRS330	Seminar (capacity building)		100	--	100
	total				700

## **SEMESTER III**

### **MARRC301**

#### **Architectural Research and architectural research studio**

Students are required to continue with the process of research as per the guidance

### **MARRC303**

#### **RESEARCH METHODOLOGY**

1. Data analysis –Qualitative/quantitative
2. Writing findings of research
3. Writing of summary and conclusions
4. Writing Synopsis of research
5. Writing the research
6. Writing the Bibliography

### **MARRS330**

#### **Seminar**

Students must present a paper on some part of their current research or on a topic of their choice from allied research.

## **SEMESTER IV**

Scheme of examinations for SEMESTER IV

Master of Architecture **M. Arch. (by Research) partly by papers**  
**(Examination to be conducted by University of Mumbai)**

	<b>Teaching scheme</b>			
	<b>Semester IV</b>	Studio	total	credits
MARCC401	Architectural research	24	24	24

SCHEME OF EXAMINATION SEMESTER IV  
CONDUCTED BY UNIVERSITY

	<b>Semester IV</b>	<b>Examination Scheme</b>		
		Total Internal	External viva	Total
MARCC401	Architectural research	500	500	1000

## **SEMESTER IV**

### **MARCC401**

#### **Architectural Research**

Students are required to complete and submit the thesis as per the guidance