



CTESCON

CHEMBUR TROMBAY EDUCATION SOCIETY'S

C T E S

COLLEGE OF ARCHITECTURE

ESTD : 2014

MH - 77

UNAIDED

APPROVED BY COUNCIL OF ARCHITECTURE

AFFILIATED TO UNIVERSITY OF MUMBAI

N.G. Acharya Marg
Chembur, Mumbai 400071
Maharashtra
India



+91 7700024676



admin@ctescoa.ac.in



www.ctescoa.ac.in

NAME : _____



UNIVERSITY OF MUMBAI

**Syllabus for the Bachelor of Architecture
Programme : B.Arch.**

Course : Bachelor of Architecture

(Semester I)

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

Scheme of Teaching and Examinations

Bachelor of Architecture (B. Arch.) Semester I

	Semester I Exam conducted by individual colleges	Teaching Scheme		Credits		
Sub . No.	SUBJECTS	Lecture	Studio	Theory	Studio	Total
101	Architectural Design Studio		4		4	4
102	Allied Design Studio		4		4	4
103	Architectural Building Construction & Materials	2	3	2	3	5
104	Theory & Design of Structures	3		3		3
105	Humanities	3		3		3
106	Environmental Studies	2		2		2
107	Architectural Representation & Detailing		3 +3		6	6
120	College projects		6		6	6
121	Elective		3		3	3
	Total	10	26	10	26	36

	Semester I Exam Exam conducted by individual colleges	Examination Scheme			
Sub. No.	SUBJECTS	Theory (paper)	Internal	External viva	Total
101	Architectural Design Studio		150		150
102	Allied Design Studio		150		150
103	Architectural Building Construction	70	80		150
104	Theory & Design of Structures	50	50		100
105	Humanities	50	50		100
106	Environmental Studies		50		50
107	Architectural Representation & Detailing		100+50		150
120	College projects		100		100
121	Elective		50		50
	Total				1000

Notes: Each period shall be of 50 minutes duration and each semester shall consist of 90 days of teaching programme.

The colleges are required to arrange the time table per semester as per the teaching scheme prescribed.

Syllabus (Course Content) for First Year B. Arch. course Semester I

101 Achitectural Design Studio 1

Credits-4

Teaching Hours

Lectures- -----

Studio- 72 periods of 50 minutes duration -60 hours

Sessional marks-

Internal- 150

External -----

Understanding the human body in space

Activities and their relation ship with spaces

Scales and proportions

Developing a language vocabulary, visualization

Exposure to architecture,

Exposure to architects and their works

Buildings, practices, site visits, meeting architects

Sessional work based on the basis of above.

102 Allied Design Studio 1

Credits-4

Teaching Hours

Lectures

Studio- 72periods of 50 minutes duration - 60hours

Sessional marks-

Internal- 150

External -----

The course content will be developed by the individual colleges as per their choice of Allied Design scheme.

The schemes may include Visual Studies, Basic Design, Graphic Design, Product Design, Furniture Design, Design of Outdoor Spaces

Visual Field & Practices *(given as an example)*

Visual practices visual compositions using real world materials

Similarity & self-similarity understanding diversity

Natural & artificial forms/colors/textures; inherent/applied

103 Architectural Building Construction & Materials 1

Credits-5

Teaching Hours-

Lectures-36 periods of 50 minutes duration- 30 hours

Studio- 54 periods of 50 minutes duration- 45 hours

Scheme of examination

Theory one paper of three hours duration Max. marks- 70 Min marks for passing- 28

Sessional marks-

Internal- 80 marks

External ----

Building Construction

Elements of buildings -Substructure/ Superstructure

Understanding role of building elements

Understanding construction built form & building practice

Paradigms: load bearing structures, frame structures

Study of Simple buildings from foundation to roof

Building construction drawing practices and conventions

Building details models

Building Materials

Contextual relevance- what are buildings made of

Natural and artificial materials- where they are used

Materials shall be studied by understanding their PROPERTIES viz. Density & Specific gravity, Strength, Thermal properties etc.

The study shall strongly emphasize the 'Selection Criteria' comprising various aspects viz. Technology, Aesthetic, Socio-Cultural, Socio-Economic, Ecology (green materials), etc.

104 Theory & Design of Structures 1

Credits- 3

Teaching Hours

Lectures- 54 periods of 50 minutes duration- 45 hours

Studio- -----

Scheme of examination

Theory -one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50

External ----

Introduction to the subject and theory of structure:

- a. Aims, objectives and scope of study of theory of structure for architects.
- b. Technical names and function of various structural components from foundation to roof.
- c. Fundamentals and mechanics.

- d. S.I. system and units.
- e. Understanding structure why things don't fall down

Structural systems- ways to create inner space
Under standing loads of various types

understanding the forces and Moments –

Definition, cause, effect, units
Types of forces,
Conditions of equilibrium
Beam reactions

105 Humanities 1

Credits- 3

Teaching Hours

Lectures- 54 periods of 50 minutes duration – 45 hours

Studio- -----

Scheme of examination

Theory -one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50

External ----

World history systems of knowledge

History of culture understanding human cultural development, products and sociology

Chronology India and the world

106 Environmental Studies 1

Credits- 2

Teaching Hours-

Lectures- 36 periods of 50 minutes duration

Studio- -----

Sessional marks-

Internal- 50

External -----

OBJECTIVE

Understand the relationship between Natural environment and Built environment

Understanding Natural resources

Forest resources, Water resources, Mineral resources, Food resources, Energy resources,
Land resources

CONCEPTS

Natural Environment, Ecology and ecosystems, Bio diversity and co existence

Relationship and co-existence of Built & Natural Environments

Building Types & Lifestyles in different geographic zones and climatic zones

107 Architectural Representation & Detailing 1

Credits-6

Teaching Hours

Lectures-----

Studio- 108 periods of 50 minutes duration – 90 hours

Sessional marks-

Internal- 150

External ----

Graphics

Studio work culture pencils, instruments, table, etc.

Plane geometry & solid geometry orthography

Drawing a building understanding thicknesses and hollows; plans, sections, elevations

Freehand

Memory left brain creativity

Objects taking things apart/ reassembly

Workshop

Building skills studio work culture; instruments, tabletop; cutting, joining, shaping

Materials and media installations assembly

120 College Projects 1

Credits- 6

Teaching Hours-

108 periods of 50 minutes duration - 90hours

Sessional marks-

Internal- 150

External -----

(to be developed by individual colleges)

The following is a representative list of what may constitute college projects:

Seminars, Tutorials/ additional classes for any course, Guest Lectures, putting up Exhibitions, Workshops, participating in Architectural Competitions or conducting Site Visits or Study Tours.

121 Elective 1

Credits- 3

Teaching Hours

Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 50

External -----

(to be developed by individual colleges)

DETAILS OF SCHEME OF EXAMINATION SEMESTER I
TO BE CONDUCTED BY COLLEGES.

BACHELOR OF ARCHITECTURE		SEMESTER I				DETAILS OF SCHEME OF EXAMINATION				
SR NO	Semester I EXAMINATION Exam conducted by individual colleges	THEORY				SESSIONAL MARKS				
		No of papers	duration	Max. marks	Min. Marks for passing	Max. marks	Min. Marks for passing	Max Marks	Min. Marks For passing	Max. marks for the course
101	Architectural Design 1	---	----	---	---	150	75	---	----	150
102	Allied Design 1	----	---	---	---	150	75	---	----	150
103	Architectural Building Construction 1	1	3HOURS	70	28	80	40	---	---	150
104	Theory & Design of Structures 1	1	2HOURS	50	20	50	25	---	---	100
105	Humanities 1	1	2HOURS	50	20	50	25	---	---	100
106	Environmental Studies 1	---	---	---	---	50	25	---	---	50
107	Architectural Representation & Detailing 1	---	---	---	---	100+50	75	---	---	150
120	College projects 1	---	---	---	---	100	50	---	---	100
121	Elective 1	---	---	---	---	50	25	---	---	50
	Total marks for the examination									1000

Notes:

Theory, internal sessional work, and external viva are considered as separate heads of passing

Total marks for the examination = 1000

Minimum marks for passing the examination= 50