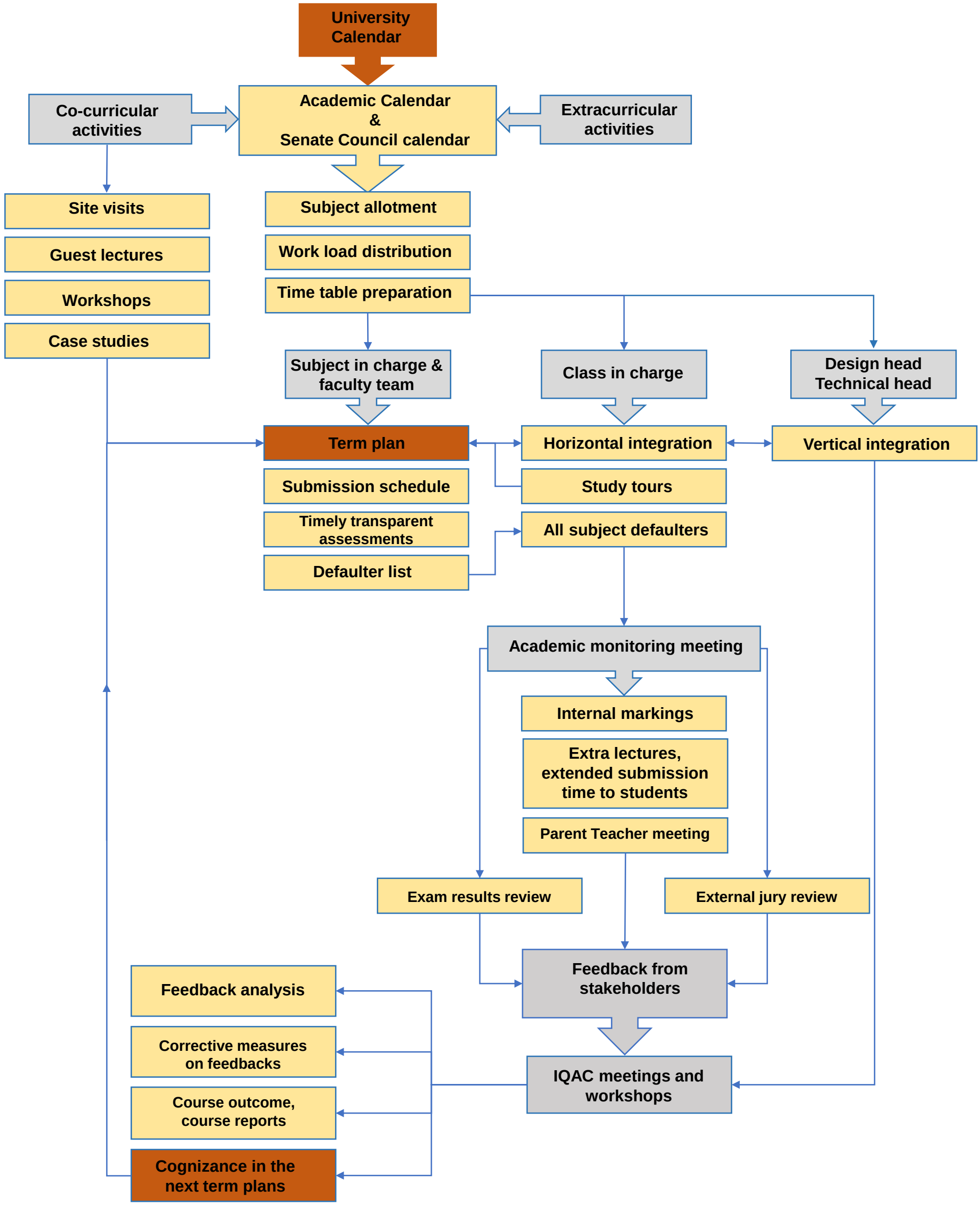
1.1.1 Curricular Planning and Implementation

INDEX

Sr. no.	Name of the document	Reference
1	Flowchart explaining the curriculum planning process	PiCA
2	University Arrangement of terms	(AY 2023-24)
3	B.Arch university syllabus	Architecture
4	Academic calander	PiCA(AY 2023-24)
5	Senate calander	PiCA (2023-24)
6	Time table	Term I, II, (2023-24)
7	Term Plan	Sem I,ABCM 2023-24
8	Horizontal meeting	Sem V (2023-24)
9	Academic monitoring committee meeting	2023-24
10	Defaulters list	Sem III (2023-24)
11	Faculty meeting	Sem V (2023-24)
12	Topics covered	Sem 7 AD (2023-24)
13	Course report	Sem III (Allied) 2023-24
14	Result analysis	2023-24
15	Feedbacks	Jury, employer and student feedbacks 2023-24



University of Mumbai

No. AAMS_UGS/ICC/2023-24/24

CIRCULAR:-

The Directors/Heads of the University Departments, the Principal of the affliated colleges, Head of the recognized Institutions concerned, the Principals of the Sir J.J. College, of Architecture and the Director/Co-ordinators of Ratnagiri Sub-Centre & Thane Sub-Centre, Bharatratna Dr. Babasaheb Ambedkar, Ambadve, (Model College), Smt. Vijayalakshmi Dalvi (Model College) and the Captain Superintendent, Ministry of Surface Transport, Training Ship "Chanakya" Government of India, Mumbai – 400 001, are hereby informed that the arrangement of terms in the various faculties of the University for the academic year 2023-2024 has been accepted by the Academic Council at its meeting held on 07th June, 2023 **vide** item No. 9.1 and subsequently approved by the Management Council at its meeting held on 17th June, 2023 **vide** item No. 5 and that in accordance therewith, the arrangement of terms for the courses of studies in the various faculties for the academic year 2023-2024 is under :-

Faculty of Humanities (Arts): - Including all **Certificate, Diploma, Post-graduate Diploma, Degree and Master Degree courses** under the Arts (excluding all Management Studies Courses and B.Ed. degree courses).

First Term - 13th June, 2023 to 11th November, 2023 Second Term – 28th November, 2023 to 01st May 2024	}	Both days inclusive

1) Mid Term Break from 19th September, 2023 to 23rd September, 2023 (both days inclusive) Ganpati Vacation.
2) Diwali Vacation from 13th November, 2023 to 27th November, 2023 (both days inclusive).
3) Winter Break from 25th December, 2023 to 31st December, 2023 (both days inclusive).
4) Summer Vacation from 02nd May, 2024 to 11th June, 2024 (both days inclusive).

2/-

Faculty of Science & Technology (Science) - Including all **Certificate, Diploma, Post-graduate Diploma, Degree and Master Degree courses** under the Faculty of Science.

First Term - 13th June, 2023 to 11th November, 2023
Second Term - 28th November, 2023 to 01st May, 2024
} Both days inclusive

1) Mid Term Break from 19th September, 2023 to 23rd September, 2023 (both days inclusive) Ganpati Vacation.
2) Diwali Vacation from 13th November, 2023 to 27th November, 2023 (both days inclusive).
3) Winter Break from 25th December, 2023 to 31st December, 2023 (both days inclusive).
4) Summer Vacation from 02nd May, 2024 to 11th June, 2024 (both days inclusive).

Faculty of Science & Technology (Engineering): - Including SE, TE & BE all Engineering (Full time) all Programs/Branches, ME (Second Year) all Programs/Branches, MCA (Second Year).

First Year Engineering Commencement Date as per CET Cell.

SE (Engineering) And ME (Second Year) (full time) all Programs/Branches.

First Term - 17th July, 2023 to 20th December, 2023
Second Term - 08th January, 2024 to 07th June, 2024
} Both days inclusive

TE & BE all Engineering (full time) all Programs/Branches.

First Term - 10th July 2023, to 20th December, 2023
Second Term - 08th January, 2024 to 07th June, 2024
} Both days inclusive

1) Mid Term Break from 19th September, 2023 to 23rd September, 2023 (both days inclusive) Ganpati Vacation.
2) Winter and Summer Vacation shall be given as per the UGC/University of Mumbai norms

3/-

MCA – Second year

First Term - 24th July, 2023 to 30th December, 2023
Second Term - 08th January, 2024 to 07th June, 2024
} Both days inclusive

1) Mid Term Break from 19th September, 2023 to 23rd September, 2023 (both days inclusive) Ganpati Vacation.
2) Winter and Summer Vacation shall be given as per the UGC/University of Mumbai norms

Faculty of Science & Technology (Pharmacy):- Including all B. Pharm Degree Course:-

First Term - 06th July, 2023 to 14th December, 2023
Second Term - 15th December, 2023 to 25th May, 2024
} Both days inclusive

1) Mid Term Break from 19th September, 2023 to 23rd September, 2023 (both days inclusive) Ganpati Vacation.
2) Diwali Vacation from 11th November, 2023 to 27th November, 2023 (both days inclusive).
3) Winter Break from 23th December, 2023 to 01st January, 2024 (both days inclusive).
4) Summer Vacation from 26th May, 2024 to 30th June, 2024 (both days inclusive).

Including all M.Pharm Degree Course:-

First Term - 01st August, 2023 to 31st December, 2023
Second Term - 01st January, 2024 to 30th June, 2024
} Both days inclusive

There is no vacation for M. Pharm Course.

4/-

PILLAI COLLEGE OF ARCHITECTURE
Dr. K. M. Vasudevan Pillai Campus
10, Sector-16, New Panvel 410 206 INDIA

Faculty of Science & Technology (Architecture): - Including all Certificate, Diploma, Post-graduate Diploma, 2nd Year to 5th year B.Arch Degree and 2nd year of M.Arch Master Degree courses in Architecture under the Faculty of Science:-

First Term - 05th June, 2023 to 20th October, 2023
Second Term - 20th November, 2023 to 30th April, 2024
} Both day inclusive

1) Mid Term Break from 19th September, 2023 to 23rd September, 2023 (both days inclusive) Ganpati Vacation.
2) Diwali Vacation from 21st October, 2023 to 19th November, 2023 (both days inclusive).
3) Winter Break from 23th December, 2023 to 01st January, 2024 (both days inclusive).
4) Summer Vacation from 01st May, 2024 to 02nd June, 2024 (both days inclusive).

Note: The commencement of the First Year B. Arch. (Sem I, Second Half 2023) shall depend on the completion of the examination process.

Faculty of Commerce & Management Studies (Commerce) - Including all **Certificate, Diploma, Post-graduate Diploma, Degree and Master Degree courses** under the Commerce Stream.

First Term - 13th June, 2023 to 11th November, 2023
Second Term - 28th November, 2023 to 01th May, 2024
} Both days inclusive

1) Mid Term Break from 19th September, 2023 to 23rd September, 2023 (both days inclusive) Ganpati Vacation.
2) Diwali Vacation from 13th November, 2023 to 27th November, 2023 (both days inclusive).
3) Winter Break from 25th December, 2023 to 31st December, 2023 (both days inclusive).
4) Summer Vacation from 02nd May, 2024 to 11th June, 2024 (both days inclusive).

5/-

Faculty of Commerce & Management Studies (Management): - Including all **Management Studies** (Excluding First Year of the MMS, Three years Part –time MMS (MM), Three years Part –time MMS (FM), Three years Part –time MMS (HRDM), Three years Part –time MMS (IM), Three years Part –time MMS (FSM) [Pl. refer Cir.No.UG/177 of 2019-20, dated 10th Dec, 2019].

MMS: First Year – 2nd Sem (A.Y.2022-23) 17th April, 2023 to 16th October, 2023.

MMS: Second Year – 3rd Sem (A.Y. 2023-24) 17th October, 2023 to15th February, 2024.

MMS: Second Year – 4th Sem (A.Y. 2023-24) 16th February, 2024 to 15th June, 2024.

Note:- 1st Year MMS: as per the schedule of CET Cell, DTE.

All Management programs other than 1st year MMS Three years Part –time MMS (MM), Three years Part –time MMS (FM), Three years Part –time MMS (HRDM), Three years Part –time MMS (IM), Three years Part –time MMS (FSM) [Pl. refer Cir.No.UG/177 of 2019-20, dated 10th Dec, 2019].

First Term - 01st July, 2023 to 05th December, 2023
Second Term - 02nd January, 2024 to 30th April, 2024
} Both days inclusive

Mid Term Break from 19th September, 2023 to 23rd September, 2023 (both days inclusive)

Semester End Break – 06th December, 2023 to 01st January, 2024 (both days inclusive)

Faculty of Interdisciplinary Studies (Education):-

Including all **Certificate, Diploma, Post–graduate Diploma, B.Ed Degree and Master Degree courses in Education and Special Education**:-

First Term - 23rd June, 2023 to 24th December, 2023
Second Term - 02nd January, 2024 to 22nd May, 2024
} Both days inclusive

1) Mid Term Break from 19th September, 2023 to 23rd September, 2023 (both days inclusive) Ganpati Vacation.
2) Diwali Vacation from 10th November, 2023 to 27th November, 2023 (both days inclusive).
3) Winter Break from 26th December, 2023 to 01st January, 2024 (both days inclusive).
4) Summer Vacation from 23rd May, 2024 to 22nd June, 2024 (both days inclusive).

6/-

Faculty of Interdisciplinary Studies (Law):-

Including all **Certificate, Diploma, and Post-graduate Diploma, Degree, and Master's degree courses**:-

First Term - 01st July, 2023 to 23rd December, 2023
Second Term – 01st January, 2024 to 18th May, 2024
} Both days inclusive

1) Mid Term Break from 19th September, 2023 to 23rd September, 2023 (both days inclusive) Ganpati Vacation.
2) Diwali Vacation from 11th November, 2023 to 26th November, 2023 (both days inclusive).
3) Winter Break from 24th December, 2023 to 31st December, 2023 (both days inclusive).
4) Summer Vacation from 19th May, 2024 to 30th June, 2024 (both days inclusive).

Faculty of Interdisciplinary Studies (Law):-

The arrangement of terms for **BMS-LLB (Five Years Integrated Course) (BBA-LLB) (Hons) (Five Years Integrated Course):-**

First Term - 01st July, 2023 to 23rd December, 2023
Second Term - 01st January, 2024 to 18th May, 2024
} Both days inclusive

1) Mid Term Break from 19th September, 2023 to 23rd September, 2023 (both days inclusive) Ganpati Vacation.
2) Diwali Vacation from 11th November, 2023 to 26th November, 2023 (both days inclusive).
3) Winter Break from 24th December, 2023 to 31st December, 2023 (both days inclusive).
4) Summer Vacation from 19th May, 2024 to 30th June, 2024 (both days inclusive).

7/-

Faculty of Interdisciplinary Studies (Fine Art) : - Including all **Certificate, Diploma, Post-graduate Diploma, Degree and Master Degree Courses (Music/Dance/Fine Art (By Paper & By Research) (All branches):-**

First Term - 13th June, 2023 to 11th November, 2023
Second Term - 28th November, 2023 to 01st May, 2024
} Both days inclusive

1) Mid Term Break from 19th September, 2023 to 23rd September, 2023 (both days inclusive) Ganpati Vacation.
2) Diwali Vacation from 13th November, 2023 to 27th November, 2023 (both days inclusive).
3) Winter Break from 25th December, 2023 to 31st December, 2023 (both days inclusive).
4) Summer Vacation from 02nd May, 2024 to 11th June, 2024 (both days inclusive).

Faculty of Interdisciplinary Studies (Fine Art):- Including (Music Department, Lok Kala Academy, Academy of Theatre Arts & Nalanda Nritya Kala Mahavidyalaya under the Fine Art stream.

First Term - 13th June, 2023 to 11th November, 2023
Second Term - 28th November, 2023 to 01st May, 2024
} Both days inclusive

1) Mid Term Break from 19th September, 2023 to 23rd September, 2023 (both days inclusive) Ganpati Vacation.
2) Diwali Vacation from 13th November, 2023 to 27th November, 2023 (both days inclusive).
3) Winter Break from 25th December, 2023 to 31st December, 2023 (both days inclusive).
4) Summer Vacation from 02nd May, 2024 to 11th June, 2024 (both days inclusive).

The said circular is available on the University website (www.mu.ac.in).

MUMBAI – 400 032
27th June, 2023

(Prof. Sunil Bhirud)
I/c. REGISTRAR

8/-

PILLAI COLLEGE OF ARCHITECTURE Dr. K. M. Vasudevan Pillai Campus 10, Sector-16, New Panvel 410 206 INDIA

To,

The Directors/Heads of the University Departments, the Principal of the affliated colleges, Head of the recognized Institutions concerned, the Principals of the Sir J.J. College of Architecture and the Director/Co-ordinators of Ratnagiri Sub-Centre & Thane Sub-Centre, Bharatratna Dr. Babasaheb Ambedkar, Ambadve, (Model College), Smt. Vijayalakshmi Dalvi (Model College) and the Captain Superintendent, Ministry of Surface Transport, Training Ship "Chanakya" Government of India, Mumbai – 400 001.

A.C/9.1/07/06/2023.
M.C/5/17/06/2023.

Copy forwarded with Compliments for information to:-

1) The Dean, of all faculties and Chairman/Chairpersons of the various Board of Studies and **Ad-hoc** Board of Studies,
2) The Director, Board of Examinations and Evaluation,
3) The Director, Board of Students Development,
4) The Director, Department of Information & Communication Technology,
5) The Co-ordinator, MKCL.

Copy for information and necessary action :-

1. **The Deputy Registrar, College Affiliations & Development Department (CAD),**
2. **College Teachers Approval Unit (CTA),**
3. **The Deputy Registrar, (Admissions, Enrolment, Eligibility and Migration Department (AEM),**
4. **The Deputy Registrar, Academic Appointments & Quality Assurance (AAQA)**
5. **The Deputy Registrar, Research Administration & Promotion Cell (RAPC),**
6. **The Deputy Registrar, Executive Authorities Section (EA)**
   He is requested to treat this as action taken report on the concerned resolution adopted by the Academic Council referred to the above circular.
7. **The Deputy Registrar, PRO, Fort, (Publication Section),**
8. **The Deputy Registrar, Special Cell,**
9. **The Deputy Registrar, Fort Administration Department (FAD) Record Section,**
10. **The Deputy Registrar, Vidyanagari Administration Department (VAD),**

Copy for information :-

1. **The Director, Dept. of Information and Communication Technology (DICT), Vidyanagari,**
   He is requested to upload the Circular University Website
2. **The Director of Department of Student Development (DSD),**
3. **The Director, Institute of Distance and Open Learning (IDOL Admin), Vidyanagari,**
4. **All Deputy Registrar, Examination House,**
5. **The Deputy Registrars, Finance & Accounts Section,**
6. **The Assistant Registrar, Administrative sub-Campus Thane,**
7. **The Assistant Registrar, School of Engg. & Applied Sciences, Kalyan,**
8. **The Assistant Registrar, Ratnagiri sub-centre, Ratnagiri,**
9. **P.A to Hon'ble Vice-Chancellor,**
10. **P.A to Pro-Vice-Chancellor,**
11. **P.A to Registrar,**
12. **P.A to All Deans of all Faculties,**
13. **P.A to Finance & Account Officers, (F & A.O),**
14. **P.A to Director, Board of Examinations and Evaluation,**
15. **P.A to Director, Innovation, Incubation and Linkages,**
16. **P.A to Director, Department of Lifelong Learning and Extension (DLLE),**
17. **The Receptionist,**
18. **The Telephone Operator,**

Copy with compliments for information to :-

19. **The Secretary, MUASA**
20. **The Secretary, BUCTU.**

AC 6/6/2012
Item No. 4.78

UNIVERSITY OF MUMBAI

Syllabus for the Bachelor of Architecture

Programe : B.Arch.

Course : Bachelor of Architecture
(Semester I & II)

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

Introduction

1.Notes for the creation of a new syllabus in architecture (Bachelor of Architecture, University of Mumbai)

"It is time that (we) remembered that schools were set up to challenge the wisdom of the world and its corruption, rather than to reinforce it."
Daniel Liebeskind

Architectural Education in India has been weighed down by the traditions of Architectural Practice that labor under the twin hegemonies of design and technology. In the past architectural curricula have developed as reactions to historical change, to immediately preceding narratives. We must appreciate that architecture today is more and more being informed by disciplines out of/other than architecture.

There is a need for redefining the Student of Architecture today. A student of architecture is not only a learner, but also a producer of knowledge. The student's tools include a critical, evaluative, conceptual mind, the ability to interconnect concepts/ facts, to use theory and argument and seek a higher level of explanation in the process of learning and its application to design. The student's initial challenges shall be to differentiate between objective and accepted reality, to appreciate architecture as a cultural process, and to perceive change as a series of discontinuities, more than cause/effect transitions. Only then can the student become relevant in today's world, rather than mindlessly repeat the dogma of the past.

In the creation of a new syllabus for the Bachelor of Architecture Course, certain adjustments to older mindsets must be made:

1. Architecture has to be appreciated as a 2nd Order Discipline. It is a Meta discipline, a critical attitude, not merely an empirical discipline like engineering that needs/seeks/works with data.
2. Architecture deals with fundamental issues of users, cities and societies, and not only materials, processes and aesthetics. It questions the presupposed, and seeks new and contemporary meanings.

Before a new syllabus is made, the makers (teachers) must recognize their own possible insidiousness in the curriculum making process, and objectively go beyond their own accepted knowledge beliefs and realities. Real learning will not emerge merely out of the didactic (which itself emerges out of biases, prejudices and ad-hoc choices). Peter Eisenmann has said: *"The only way to advance in a discipline is to displace knowledge, and the only discourses that remain healthy are those that are displacing discourses. The ones that cling to their theory and their tradition and their rationality, die."*

The following objectives for a new syllabus for architectural education are proposed:

1. The new syllabus should prepare a student to understand and locate himself/herself in the real world.
2. The new syllabus should appreciate and reconcile itself to the imperfect times that we live in.
3. The new syllabus should reflect, through application, upon the technological state-of-the-art of the world today and its relevance.
4. The new syllabus should give a direction or hope for the future.

In order to fulfill these objectives, the following questions may be asked first:

1. What is a work of architecture?
2. How is architecture different from nature?
3. How useful are our tools (curriculum) for evaluating these two questions (meta-questioning)?

Since the latter half of 2011, the Ad-hoc Board of Studies in Architecture (University of Mumbai) has called together the principals and senior faculty of all the colleges of architecture under the university for a series of deliberations on the nature of the new syllabus. Right from the very outset there has been an agreement that the syllabus should reflect the following objectives:

- Architecture is 'discipline'/ meta-discipline, not merely an empirical process
- Critical thinking/ criticality is important. The student must be given the tools to critically evaluate the world he/she lives in
- The student needs to be redefined as more than a leaner, but a producer of knowledge
- In the spreading world of information technology and easily available knowledge, the teacher needs to be redefined as more than a giver of information, but one who can show the student how design is a critical process
- The architecture syllabus needs be flexible. Individual colleges should be given the means to interpret and expand on the syllabus in their own way
- Diversity must be appreciated and encouraged. Learning can be simultaneous and non-linear
- A student needs to inculcate the ability to question, ability to redefine technology, ability to question the relevance of technology
- Being informed by disciplines out of/other than architecture, Non technology subjects, particularly those from the liberal arts and the humanities may come into foreground
- Emphasis should be on theory also, not only on practice (empiricism)
- Encourage research and give direction to research

In addition to these agreed objectives, the following external requirements are also acknowledged. The first is the adoption of the Credit system for evaluation and grading, that the University of Mumbai has adopted for all future syllabi. This entails converting the current Annual pattern Syllabus to a Semester Pattern. Secondly, acknowledging the requirements given by the Council of Architecture, New Delhi; the course shall now be divided into two distinct stages- a Basic Course and Advanced Course. The Council has also encouraged individual colleges to be given both time and credits to develop their additional syllabi components so that diversity in directions for architectural education and practice shall be encouraged. As such 25% of the timetable shall be dedicated to projects, electives or coursework offered by the colleges themselves based on their philosophy and institutional objectives.

2-0
Explanatory notes on New Aspects in the Syllabus

Sessional work
Sessional work in the B. Arch. Course can be defined as mandatory assignments carried out by students in the classroom or the studio during the course of the semester (session).

Sesssional work will be detailed out in the course content for each subject, which may include drawings, sketches, reports, presentations, models as per the requirements. In the case of theory intensive subjects, sessional work may be in the form of class tests, seminars, presentation of reports or documentation.

In the design studio or for the technical subjects, sessional work shall consist of supervised design development, the working out of technical details, reports and documentation. All these assignments are marked in process and upon completion may be assessed in the form of Crits or Juries. Sessional work in
all subjects shall be designed, carried out and assessed by the subjects in charge and collated as Internal Marks.

Allied Design Studio
The Architectural Design Studio is the central subject in the architecture course; other subjects supplement knowledge, skills and critical understanding of the design of architecture. The **Allied Design Studio** is also a studio where subjects allied to Architectural Design can be taught and sessional work carried out in the form of design projects. These subjects are closely associated with the core of design and architecture.

In the previous syllabus, these subjects included Basic Design, Interior Design, Landscape Design and Urban Design/ Urban Planning. In the new syllabus, these subjects shall form part of a representative list that may include other design based subjects such as Visual Studies, Graphic Design, Product Design, Furniture Design, the Design of Outdoor Spaces and Public Places, or Town Planning.

Each college may determine the teaching modules and sessional work for these subjects, as also their location in the first three years. Each subject shall have both a Lecture as well as a Studio component. Credits for the Allied Design Projects will be given to each student as per his/her attendance, participation and contribution towards the projects. These Credits will be given by the respective Project teachers/ coordinators for the term.

College Projects
College projects form part of the 25% class time that shall be planned by the colleges according to their philosophy and institutional objectives. College Projects may include mixed group participation of students from different years, or may be dedicated to any one class. The College Project time and credits may also be used to supplement additional coursework to advance knowledge in the core subjects in the syllabus.

Credits for these projects will be given to each student as per his/her attendance, participation and contribution towards the projects. These Credits will be given by the respective project coordinators for the term.

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.

Electives
Electives form part of the 25% class time that shall be planned by the colleges according to their philosophy and institutional objectives. Electives may include mixed group participation of students from different years, or may be dedicated to any one class. Electives shall be offered by the college to each class to supplement additional coursework or to advance knowledge in architecture and allied fields.

Credits for electives will be given to each student as per his/her attendance, participation and satisfactory completion of assignments. These Credits for the Electives shall be given by the respective elective teacher for the term.

Representative Lists for possible electives in architecture and allied fields can be referred to from the Council of Architecture's Document on Minimum Standards of Architectural Education. Each college can, of course, determine electives based on the needs of the day, and the availability of resource persons.

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)

Scheme of Teaching and Examinations
Bachelor of Architecture (B. Arch.) Semester II

	Semester II Exam conducted by individual colleges	Teaching Scheme		Credits		
Sub. No.	COURSES	Lecture	Studio	Theory	Studio	Total
201	Architectural Design		4		4	4
202	Allied Design Studio		4		4	4
203	Architectural Building Construction & Materials	2	3	2	3	5
204	Theory & Design of Structures	3		3		3
205	Humanities	3		3		3
206	Environmental Studies	2		2		2
207	Architectural Representation & Detailing		3 +3		6	6
220	College projects		6		6	6
221	Elective		3		3	3
	Total	10	26	10	26	36

	Semester II Exam Exam conducted by individual colleges	Examination Scheme			
Sub. No.	SUBJECTS	Theory (paper)	Sessional Work	External viva	Total
201	Architectural Design Studio		150		150
202	Allied Design Studio		150		150
203	Architectural Building Construction	70	80		150
204	Theory & Design of Structures	50	50		100
205	Humanities	50	50		100
206	Environmental Studies		50		50
207	Architectural Representation & Detailing		100+50		150
220	College projects		100		100
221	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 II

201 Architectural Design Studio 2

Credits-4

Teaching Hours
Lectures- --------
Studio- 72 periods of 50 minutes duration -60 hours
Sessional marks-
Internal- 150 External -----

Object & context

Architecture as environment

Architecture in context

Architectural insertions, Documentation, site visits, documentation through text, photography, drawings, computers

Design exercises – Designing of space for small groups and minor activities with reference to climate, site conditions, and user requirements.

202 Allied Design Studio 2

Credits-3

Teaching Hours
Lectures
Studio- 72periods of 50 minutes duration - 60hours

Sessional marks-
Internal- 150 marks 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)*
Aesthetics as a product of context/ media
Mixing media/ hybridity
Visual culture icon, index, symbol
Installations exercises

203 Architectural Building Construction & Materials 2

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
walling systems ,external envelopes, internal partitions in various materials, cavity walls

openings/fenestrations

structural considerations; structural spans; lintel, beam, arch

fenestrations: opaque, translucent, transparent

Building Materials
Material Syntax

synchronic and paradigmatic choices

Understanding Specifications & Quantities
The outcome of this course is the ability to SPECIFY building materials as per the demands of Design Program.

204 Theory & Design of structures 2

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 ----

Understanding various concepts about structures as tall, long, thin, wide etc.

Understanding Articulation of structural systems from foundation to roof

Understanding the following:
1) Properties of section
2) Stress and strain:
3) Shear force and bending moment
4) Theory of simple Bending

205 Humanities 2

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 ----

History of art culture & aesthetics

Society, Context, Aesthetics, Architecture

Prehistory, Paleolithic and Neolithic Cultures,

River Valley Civilizations

Classical Greece and Rome

Vedic Culture, Kingship in India, Hellenistic influences

Buddhism and Jainism

206 Environmental Studies 2

Credits- 2
Teaching Hours
Lectures- 36 periods of 50 minutes duration – 30 hours
Studio- -----
Sessional marks-
Internal- 50 marks External ---

OBJECTIVE
Study the effect of architectural development on natural resources

Effects of architectural development on natural resources

Concepts of sustainable development
Renewable resources
Water cycle and its management
Conservation and generation of energy

207 Architectural Representation & Detailing 2

Credits- 6

Teaching Hours
Lectures------
Studio- 108 periods of 50 minutes duration – 90 hours
Sessional marks-
Internal- 150 External ----

Graphics
Views isometric, axonometric

Perspective & sciography exercises (may be done on sketch

Freehand

Landscape outdoor sketching

Anatomy

Workshop

Visual practices exercises

Architectural design exercises- making models

Theory of structures and construction – making of models

220 College Projects 2

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.

221 Elective 2

Credits- 3

Teaching Hours
Lectures
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										
	Semester I EXAMINATION Exam conducted by individual colleges	THEORY				SESSIONAL MARKS				
						Internal		External		
SR NO	COURSES	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

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

BACHELOR OF ARCHITECTURE SEMESTER II DETAILS OF SCHEME OF EXAMINATION										
	Semester II EXAMINATION Exam conducted by individual colleges	THEORY				SESSIONAL MARKS				
						Internal		External		
SR NO	COURSES	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
201	Architectural Design Studio 2	---	----	---	---	150	75	---	----	150
202	Allied Design studio 2					150	75	---	----	150
203	Architectural Building Construction 2	1	3HOURS	70	28	80	40	---	---	150
204	Theory & Design of Structures 2	1	2HOURS	50	20	50	25	---	---	100
205	Humanities 2	1	2HOURS	50	20	50	25	---	---	100
206	Environmental Studies 1	---	---	---	---	50	25	---	---	50
207	Architectural Representation & Detailing 2	---	---	---	---	100+50	75	---	---	150
220	College projects 2	---	---	---	---	100	50	---	---	100
221	Elective 2	---	---	---	---	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

UNIVERSITY OF MUMBAI

Syllabus for the Bachelor of Architecture

Programme : B.Arch.

Bachelor of Architecture
(Semester III & IV)

(As per Credit Based Semester and Grading System with effect from the academic year 2013–2014)

Scheme of Teaching and Examinations
Bachelor of Architecture (B. Arch.) Semester III

	Semester III Exam conducted by individual colleges	Teaching Scheme		Credits		
Sub. No.	SUBJECTS	Lecture	Studio	Theory	Studio	Total
301	Architectural Design Studio		6		6	6
302	Allied Design Studio		3		3	3
303	Architectural Building Construction	3	3 classes Technology studio	3	1	4
304	Theory and Design of Structures	2		2	1	3
308	Architectural Building Services	2		2	1	3
305	Humanities	3		3		3
306	Environmental Studies	2		2		2
307	Architectural Representation & Detailing	2	2	2	2	4
309	Architectural Theory	2				2
320	College projects		3			3
321	Elective		3			3
	Total	16	20	16	20	36

	Semester I II Exam Exam conducted by individual colleges	Examination Scheme			
Sub. No.	SUBJECTS	Theory (paper)	Internal	External viva	Total
301	Architectural Design Studio		100	100	200
302	Allied Design Studio		100		100
303	Architectural Building Construction	50	50		100
304	Theory and Design of Structures	50	50		100
308	Architectural Building Services	50	50		100
305	Humanities	50	50		100
306	Environmental Studies		50		50
307	Architectural Representation & Detailing		100		100
309	Architectural Theory		50		50
320	College projects		100		100
320	Elective		100		100
	Total				1100

PILLAI COLLEGE OF ARCHITECTURE
M. Vasudevan Pillai Campus
10, Sector-16, New Panvel
410 206 INDIA

Syllabus (Course Content) for Second Year B. Arch. Semester III

301 Architectural Design Studio 3

Credits-6

Teaching Hours
Lectures- --------
Studio- 108 periods of 50 minutes duration -90 hours

Sessional marks-
Internal- 100 External ---100

Objectives:

Understanding space requirements for various activities for small groups of people
Understanding indoor and out door spaces created by built forms.

Design Objectives
Design of spaces suitable for the intended activity
Design of spaces as per the behavioral needs of individuals and groups.
Design and detailing of built form and required infrastructure with reference to methods of construction, and materials

Design projects
Built and Un-built spaces for multiple activities for a small group of people
Built and Un built spaces for relatively larger groups.

302 Allied Design Studio 3

Credits-3

Teaching Hours
Lectures
Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-
Internal- 100 External ------

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

303 Architectural Building Construction & Materials 3

Credits-4

Teaching Hours-

Lectures-54 periods of 50 minutes duration- 45 hours
Studio- 54 periods of 50 minutes duration- 45 hours to be conducted as technology studio (out of which 15 hours are considered for credit calculations)

Scheme of examination

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

Sessional marks-

Internal- 50 marks External ----

Objectives-

Understanding concepts of framed structures in R.C.C.
Understanding methods of construction of various components of R.C.C. Structures

1. Structural framing in R.C.C for low rise buildings.
2 Foundation Systems, Floor Systems, Wall Systems, staircases, Roof Systems,
3. Moisture and Thermal protection in R.C.C. framed low rise buildings.
4. Movable light weight partitioning and paneling, Stairs in Interior spaces.

Sessional Work : based upon above in form of sketches, drawings, Case Studies, Reports.

Application to Architectural Design Projects.

304 Theory & Design of Structures 3

Credits- 3

Teaching Hours

Lectures- 36 periods of 50 minutes duration- 30 hours
Studio- 54 periods of 50 minutes duration- 45 hours
(to be conducted as technology studio out of which 15hours are considered for credit calculations)

Scheme of examination

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

Sessional marks-

Internal- 50 External ----

Objectives:
Understanding of basic theories and principles of structural analysis
Understanding of properties of materials relevant to structural analysis
Understanding of behavior of structural elements under various conditions

1. Theory of simple bending

    a. Theory of simple bending only equations & problem.
    b. Design of timber & steel beams.
    c. Shear stress distribution.

2. Deflection

    a. Simply supported beams and cantilevers with distributed & point loads by Euler's theory.
    b. Introduction to Macaulay's method
    c. Application of deflection in structural planning

3. Direct AND Bending Stresses

    a. Combined stress distribution for Beam, column and footing
    b. Application to design the footing of wall and column (only plan dimension)

4. Basics of RCC
    Grades of concrete and steel used in RCC.
    Application of thumb rules for selecting dimensions of slab, beam and column for low rise and low span structures. Placement of steel based of Bending moment and shear force diagrams

5. Material testing

    Cement(OPC)
    Initial and final setting time
    Consistency
    Fineness
    Compressive strength

    Sand
    Bulking, silt content, Fineness modulus

    Bricks
    Density, Water absorption, compressive strength

305 Humanities 3

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 ----

The study of the socio-cultural circumstances, the art and the architecture of the following:

The decline of the Roman Empire
The beginnings of Christianity and the formation of the Holy Roman Empire

Early Christian architecture
The Byzantine age
The Romanesque age
Medieval Europe
The Gothic age

The rise of Islam and its impact on Europe
The Crusades and their aftermath; the fall of Constantinople

The Renaissance in Italy
The rediscovery of the Classical past and its impact on art, architecture, science and philosophy
Humanism
The Masters of the Renaissance
Mannerism
The Renaissance in the rest of Europe

The Reformation, its impact on art and architecture
The Counter-Reformation
Baroque art and architecture

The age of discovery
Colonization and the changed world order
The Enlightenment
The age of revolution: America and France

The Industrial Revolution
Its rise in England
Demographic change and urbanization
New materials and technologies and their impact

New building types for the industrial age
The battle of 'styles'; nostalgia and exoticism
Neo-Classical and Neo-Gothic architecture

The Arts and Crafts Movements in Europe
Art Nouveau
Art Deco
Early modernistic impulses
Modern movements in art
Modern movements in architecture

306Environmental Studies

Credits-2

Teaching Hours

Lectures- 36 periods of 50 minutes duration-30 hours

Sessional marks-

Internal- 50 External ----

Objective: To study and understand passive methods of environmental control

Climatology and Building Sciences

Micro climate and Macro climate
Energy flow in building
Human comfort
Traditional methods for achieving comfort

Passive Methods of control
Natural lighting
Solar Radiations and Architecture
Air flow patterns inside buildings and in building layouts
Natural ventilation

307 Architectural Representation & Detailing 3

Credits-4

Teaching Hours

Lectures- 36 periods of 50 minutes duration-30 hours
Studio- 36 periods of 50 minutes duration – 30hours

Sessional marks-

Internal- 100 External ----

Perspective-
Perspective of building elements
Perspective of interior spaces

Sciography-
Shades and shadows of buildings and parts of buildings

Sessional work – Perspective and Sciography exercises

Documentation and measured drawings

Methods of measurement of interior and exterior spaces, Building Elements.

Sessional work –
Architectural plans, sections, elevation of existing building/ interior space as per the measurements.

308 Architectural Building Services 1

Credits- 3

Teaching Hours
Lectures- 36 periods of 50 minutes duration- 30 hours
Studio- 54 periods of 50 minutes duration- 45 hours to be conducted as technology studio (out of which 15 hours are considered for credit calculation)

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

Sessional marks-
Internal- 50 External ----

Objectives: understanding basic services required for a building and interior spaces

Sanitation:
Sanitary appliances and user space requirement
Various types of traps used with appliances
Design of toilets
Drainage and water supply connections to various appliances
Systems of building drainage

Water supply
Direct and indirect water supply for buildings
Connection from Municipal water main- Ferrule, water meter.
Design of water storage tanks, and down take pipes
Taps and valves used with various appliances

Sessional work_
Market survey for appliances and accessories,
Water supply calculations
Water supply layout- connection from municipal main to buildings
Water supply connections within the building
Design of toilets with water supply and drainage connections

309 Architectural Theory 1

Credits- 2
Teaching Hours
Lectures- 36 periods of 50 minutes duration – 30 hours
Studio- -----
Sessional marks-
Internal- 50 marks External ---

READING

Objectives:

1. To understand and comprehend ideas in architecture through writings in architecture
2. To appreciate architecture as the development of changing ideas over time, and as the representation of their particular time and context. To be able to chart the change of ideas chronologically over time.
3. To become familiar with and improve comprehension about architecture using theoretical texts and architectural criticism.

Sessional Work:

Students are expected to read from short and long writings about architecture and communicate their comprehension in writing and discussions/presentation in class. It is suggested that texts from the following authors be used to build up a body of knowledge about architecture (this is only a representative list):
Vitruvius, Andrea Palladio, John Ruskin, Louis Sullivan, Adolf Loos, Le Corbusier, writings from the the Bauhaus, Peter Blake, Philip Johnson, Charles Jencks, Robert Venturi, Adrian Forty, Christopher Alexander, Leon Krier, Kevin Lynch, Rem Koolhaas, Bjark Engels, Charles Correa, Romi Khosla,

320 College Projects 3

Credits- 3

Teaching Hours-
54 periods of 50 minutes duration – 45 hours
Sessional marks-
Internal- 100 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.

321 Elective 3

Credits- 3

Teaching Hours
Studio- 54 periods of 50 minutes duration – 45 hours
Sessional marks-
Internal- 100 External ------

(to be developed by individual colleges)

Technology Studio

Credit and marks as per the scheme of examination for individual courses

Teaching Hours
Studio- 54 periods of 50 minutes duration – 45 hour

Objectives

Integration of courses
Combined studio time

Technology studio is the studio time for students where guidance for technical courses will be available.
Combined Studio classes to be used for Sessional work for individual courses as well as for integration of courses

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

BACHELOR OF ARCHITECTURE SEMESTER III DETAILS OF SCHEME OF EXAMINATION										
	Semester III EXAMINATION Exam conducted by individual colleges	THEORY				SESSIONAL MARKS				
						Internal		External		
SR NO	COURSES	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
301	Architectural Design 3	---	----	---	---	100	50	100	50	200
302	Allied Design 3	----	---	---	---	100	50	---	----	100
303	Architectural Building Construction 3	1	3 HOURS	50	20	50	25	---	---	100
304	Theories and Design of Structures 3	1	2 HOURS	50	20	50	25	---	---	100
305	Humanities 3	1	2 HOURS	50	20	50	25	---	---	100
306	Environmental Studies 3	---	---	---	---	50	25	---	---	50
307	Architectural Representation & Detailing 1	---	---	---	---	100	50	---	---	100
308	Architectural Building Services1	1	2 HOURS	50	20	50	25	----	----	100
309	Architectural Theories 1	---	---	---	---	50	25	---	---	50
320	College projects 3	---	---	---	---	100	50	---	---	100
321	Elective 3	---	---	---	---	100	50	---	---	100
	Total marks for the examination									**1100**

Total marks for the examination = 1100
Minimum marks for passing the examination= 550

Scheme of Teaching and Examinations
Bachelor of Architecture (B. Arch.) Semester IV

	Semester IV Exam conducted by individual colleges	Teaching Scheme		Credits		
Sub. No.	SUBJECTS	Lecture	Studio	Theory	Studio	Total
401	Architectural Design Studio		8		8	8
402	Allied Design Studio		3		3	3
403	Architectural Building Construction	3	3 classes technology studio	3	1	4
404	Theory and Design of Structures	2		2	1	3
408	Architectural Building Services	2		2	1	3
405	Humanities	3		3		3
407	Architectural Representation & Detailing	2	2	2	2	4
409	Architectural Theory	2				2
420	College projects		3			3
421	Elective		3			3
	Total	14	22	14	22	36

	Semester IV Exam Exam conducted by individual colleges	Examination Scheme			
Sub. No.	SUBJECTS	Theory (paper)	Internal	External viva	Total
401	Architectural Design Studio		100	100	200
402	Allied Design Studio		100		100
403	Architectural Building Construction	50	50		100
404	Theory and Design of Structures	50	50		100
408	Architectural Building Services	50	50		100
405	Humanities	50	50		100
407	Architectural Representation & Detailing		100		100
409	Architectural Theory		50		50
420	College projects		100		100
421	Elective		100		100
	Total				1050

Syllabus (Course Content) for Second Year B. Arch. Semester IV

401 Achitectural Design Studio 4

Credits-8

Teaching Hours
Lectures- --------
Studio- 144 periods of 50 minutes duration -120 hours

Sessional marks-
Internal- 100 External ---100

Objectives:

- To develop research skills for survey research and case study.
- To understand functioning of community spaces in rural areas/semi urban areas
- To study principles of design, construction, and technology based on tradition and experience.

Objectives of Design Projects

- To design spaces suitable for life style in rural/semi urban areas
- To conserve the natural surroundings and social fabric suitable for communities
- To design the buildings suitable to climatic conditions, by using local materials and traditional methods of construction.
- To understand and provide specific infrastructure required for communities.

Design projects

Built and un built spaces for Cluster & Communities,

402 Allied Design Studio 4

Credits-3

Teaching Hours
Lectures
Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-
Internal- 100 External ------

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

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403Architectural Building Construction & Materials 4

Credits-4

Teaching Hours-

Lectures-54 periods of 50 minutes duration- 45 hours
Studio- 54 periods of 50 minutes duration- 45 hours to be conducted as technology studio (out of which 15hours are considered for credit calculation)

Scheme of examination

Theory :One paper of three hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50 marks External ----

Objectives-

- Understanding concepts of framed structures in Steel for low medium span building
- Understanding methods of construction of various components of steel structures
- Understanding concepts of trusses for low and medium spans

1.Structural framing in STEEL for low rise medium span buildings.

2. Foundation Systems, Floor Systems, Wall / Cladding Systems,

3. Roof Systems- concepts of trusses

4. Moisture and fire protections in STEEL framed low rise medium span buildings.

Sessional work

Based on above in the form of drawings, sketches, case studies, Reports

404 Theory & Design of Structures 4

Credits- 3

Teaching Hours

Lectures- 36 periods of 50 minutes duration- 30 hours
Studio- 54 periods of 50 minutes duration- 45 hours to be conducted as technology studio (out of which 15 hours are considered for credit calculations)

Scheme of examination

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

Sessional marks-

Internal- 50 External ----

Objectives:

Understanding of basic theories and principles of structural analysis
Understanding of properties of materials relevant to structural analysis
Understanding of behaviour of structural elements under various conditions

1. Analysis of short and long column

   a. Short & long columns, slenderness ratio etc.
   b. Euler's & Rankine's Theory

2 Analysis of fixed beams

   a. Advantages & disadvantages.
   b. Determination of negative & positive bending moments.
      (confine the loading to point & UDL covering full span only).

3 Analysis by moment distribution method

Continuous two span and three spans beams with UDL and Point loads with and without support settlement. Single storey and single bay non sway frame under UDL and point load. Comparison of the analysis results of simply supported, continuous and portal frame idealization of three dimensional structures.

4. Introduction to Steel Design

Basic information about different steel section used as structural members and steel table. Brief introduction to planning of low rise and low span steel structures

5. Soil Mechanics

a. Importance of subject.
b. Types of soil and their properties.
c. Methods of compaction and consolidation.
d. Void ratio, Porosity, Bulk density, Moisture content, Degree of saturation, Liquid limit, Plastic limit, etc.
e. Test for assessing load bearing capacity of soil.
f. Soil properties and characteristics relevant to the design of foundations.
g. Criteria for selection of foundation type for different soil conditions.
h. Effect of water level, settlement of soil.
I. Failure of foundation systems.
j. Improvement of soil properties.
k. Design procedure for simple load bearing foundations.

6 Material testing

Coarse aggregate
Fineness modulus
Crushing test
Concrete
Compressive strength
Slump cone test
Mangalore tile
Flexure test

405 Humanities 4

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 ----

The study of the socio-cultural circumstances, the art and the architecture of the followings:

The rise of the Mahajanapadas
The organization of kingdoms
Art and architecture of the rock cut temples
Persian and Hellenistic influences

The Mauryas and the Guptas
The legacy of Ashoka

The resurgence of Hinduism
The rise of the Shaivite and Vaishnavite traditions
The great temples of India, their design, evolution and significance
Khajuraho, Konarak, Halebid, Belur, Somnathpur, Aihole, Badami, Pattadakkal
The Dravida Style
The Nagara Style
Temple towns
Timber temple traditions of Kerala and Himachal Pradesh
The rise of the Vijayanagara empire
Development of state and domestic architecture in various parts of India

The rise of Islam
Timber mosques of Kerala
The influences of the Ghorid/ Ghaznavid invasions

The establishment of the Sultanates
The Khaljis and Delhi
The later Sultanates: the Tughlaqs and the Lodhis- Art and architecture

The Gujarat and Deccan sultanates- Art and architecture
Rajput architecture

The Mughals
Babar and Humayun- Art and architecture
The interregnum of Sher Shah Suri
Akbar
His patronage, influence and syncretic legacy
Akbar's karkhanas of art, miniature painting and calligraphy
Akbar's architecture
Jehangir, Shahjehan and Aurangzeb- Art and architecture
The decline of the Mughals and the rise of regional powers

The establishment and influence of the East India Companies
The Portuguese and Dutch influence
The port cities of Calcutta, Madras and Bombay
The architecture of the Presidency towns
Company paintings

The uprising of 1857 and its aftermath
New British architecture in India
Neo-Classical architecture
Neo-Gothic architecture, its impact on Urbs Prima Indis

The influence of the Bombay School of Art on Art and architecture in the 19th century
Indo-Saracenic architecture

The urban architecture of Bombay in the early 20th century
Art movements in the early 20th century in India
The first Indian Architectural practices
Art Deco in Bombay and India
Modernist impulses in art and architecture in the years leading to independence

407 Architectural Representation & Detailing 4
Credits-4

Teaching Hours
Lectures- 36 periods of 50 minutes duration-30 hours
Studio- 36 periods of 50 minutes duration – 30hours
Sessional marks-
Internal- 100 External ----

SURVEYING AND LEVELLING
Objectives:

To Understand methods of survey, and documentation,
Introduction to tools and equipments of Land surveying
Introduction to modern methods of surveying

1. Brief history of land surveys executed by Government Departments
Information and working of land record offices

2. Reading of Survey maps, understanding of features and undulation of ground

3.Chain Survey and Triangulation

A study of instruments used for chain Survey
Chains, Ranging Rods, Tapes, Optical square, Cylindrical cross staff

B. Chain line ranging, Measurement of offsets in field book
C. Recording of Chain survey measurements in field book
D. Plotting of Chain survey, scales used in plotting
E. Calculation of Area

4.Transverse Survey

A. Instruments used Prismatic compass and Theodolite
B. Recording measurements of prismatic compass survey, magnetic Meridian, Back, Fore, and reduced Bearings, Local attraction and its correction
C. Plotting of Transverse survey, Elimination of closing error

5. Various uses of Theodolite,
Finding out heights or distances of inaccessible structures
E. Lining out of large buildings, and roads

Sesssional Work-

Based upon above in the form of plates, drawings, class Tests

408 Architectural Building Services 2

Credits- 3

Teaching Hours

Lectures- 36 periods of 50 minutes duration- 30 hours
Studio- 54 periods of 50 minutes duration- 45 hours to be conducted as technology studio (out of 18 hours are considered for credit calculation)

Scheme of examination

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

Sessional marks-

Internal- 50 External ----

Objectives:
Understanding of external services of water supply and drainage for the buildings, and site lay outs.

Systems of building drainage
Design of under ground drainage system
Use of inspection chambers and disconnecting chambers
Connection to municipal sewer, use of Drop manhole
Ventilation of drainage system
Sewage disposal systems for small projects

Roof drainage
Site and surface drainage
Rain water harvesting

Various traps used in site layouts

Sessional Work- Drainage lay out
Surface drainage and rain water harvesting

409 Architectural Theory 2

Credits- 2
Teaching Hours
Lectures- 36 periods of 50 minutes duration – 30 hours
Studio- -----
Sessional marks-
Internal- 50 marks External ---

WRITING

Objective:

1. To be able to write with clarity about architecture and ideas in architecture.
2. To be able to correctly use architectural terms to communicate architectural ideas.
3. To be able to convey effectively in words the thinking behind one's own designs being carried out in various studios.
4. To learn to use referencing and citation as an essential tool of writing, and to understand clearly issues and consequences of plagiarism.

Sessional Work: this semester sessional work may be carried out in the form of writing workshops leading to short and longer pieces of writing. Resources persons such as published writers, architectural journalists and academics may be invited to conduct these workshops and encourage interaction in writing and reading by the students themselves. Much of the resource material from the previous semester may be relied upon to ensure vertical continuity of the subject.

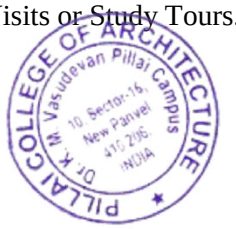
420 College Projects 4

Credits- 3

Teaching Hours-
54 periods of 50 minutes duration – 45 hours
Sessional marks-
Internal- 100 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.



421 Elective 4

Credits- 3

Teaching Hours
Studio- 54 periods of 50 minutes duration – 45 hours
Sessional marks-
Internal- 100 External ------

(to be developed by individual colleges)

Technology Studio
Credit and marks as per the scheme of examination for individual courses
Teaching Hours
Studio- 54 periods of 50 minutes duration – 45 hour

Objectives

Integration of courses
Combined studio time

Technology studio is the studio time for students where guidance for technical courses will be available.
Combined Studio classes to be used for Sessional work for individual courses as well as for integration of courses

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

BACHELOR OF ARCHITECTURE SEMESTER IV DETAILS OF SCHEME OF EXAMINATION										
	Semester IV EXAMINATION Exam conducted by individual colleges	THEORY				SESSIONAL MARKS				
						Internal		External		
SR NO	COURSES	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
401	Architectural Design 4	---	----	---	---	100	50	100	50	200
402	Allied Design 4	----	---	---	---	100	50	---	----	100
403	Architectural Building Construction 4	1	3 HOURS	50	20	50	25	---	---	100
404	Theory and Design of Structures 4	1	2HOURS	50	20	50	25	---	---	100
405	Humanities 4	1	2HOURS	50	20	50	25	---	---	100
407	Architectural Representation & Detailing 4	---	---	---	---	100	50	---	---	100
408	Architectural Building Services2	1	2HOURS	50	20	50	25	----	----	100
409	Architectural Theories 2	---	---	---	---	50	25	---	---	50
420	College projects 4	---	---	---	---	100	50	---	---	100
421	Elective 4	---	---	---	---	100	50	---	---	100
	Total marks for the examination									**1050**

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

Total marks for the examination = 1050
Minimum marks for passing the examination= 525

AC 19-9-2013
Item No. – 4.19

UNIVERSITY OF MUMBAI

Syllabus for the Bachelor of Architecture

Programme : B. Arch.

Bachelor of Architecture
(Semester V & VI)

(As per Credit Based Semester and Grading System with effect from the academic year 2014–2015)

Scheme of Teaching and Examinations
Bachelor of Architecture (B. Arch.) Semester V

	Semester V Exam conducted by individual colleges	Teaching Scheme		Credits		
Sub. No.	SUBJECTS	Lecture	Studio	Theory	Studio	Total
BARC 501	Architectural Design Studio 5		8		8	8
BARC 502	Allied Design Studio 5		3		3	3
BARC 503	Architectural Building Construction 5	3	3 classes of technology studio	3	1	4
BARC 504	Theory & Design of Structures 5	2		2	1	3
BARC 508	Architectural Building Services 3	2		2	1	3
BARC 505	Humanities 5	3		3		3
BARC 507	Architectural Representation & Detailing 5	2	2	2	2	4
BARC 509	Architectural Theory 3	2		2		2
BARP 520	College projects 5		3		3	3
BARE 521	Elective 5		3		3	3
	Total	14	22	14	22	36

	Semester V Exam Exam conducted by individual colleges	Examination Scheme			
Sub. No.	SUBJECTS	Theory (paper)	Internal	External viva	Total
BARC 501	Architectural Design Studio 5		100	100	200
BARC 502	Allied Design Studio 5		100		100
BARC 503	Architectural Building Construction 5	50	50		100
BARC 504	Theory & Design of Structures 5	50	50		100
BARC 508	Architectural Building Services 3	50	50		100
BARC 505	Humanities 5	50	50		100
BARC 507	Architectural Representation & Detailing 5		100		100
BARC 509	Architectural Theory 3		50		50
BARP 520	College projects 5		100		100
BARE 521	Elective 5		100		100
	Total	200	750	100	1050

Syllabus (Course Content) for Third year B. Arch. Course Semester V

501 Achitectural Design Studio 5

Credits-8

Teaching Hours

Lectures- --------

Studio- 144 periods of 50 minutes duration -120 hours

Sessional marks-

Internal- 100 External ---100

Course Objectives

- To understand the potential of urban land and optimization of spaces
- To understand architectural forms, and corresponding functions for different types of buildings.

Expected Course out come

Architecture for urban commercial, recreation, entertainment activities for large group of people with respect to following

- Development of appropriate architectural forms, their grouping and composition,
- Provision of spaces required for various activities.
- Provision of spaces for required infrastructure and services
-

502 Allied Design Studio 5

Credits-3

Teaching Hours

Lectures

Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100 External ------

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

Credits-3

503 Architectural Building construction 5

Credits-4

Teaching Hours-

Lectures-54 periods of 50 minutes duration- 45 hours

Studio- 54 periods of 50 minutes duration- 45 hours to be conducted as technology studio (out of which 15 hours are considered for credit calculations)

Scheme of examination

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

Sessional marks-

Internal- 50 marks External ----

Building Skin in various light weight materials.

: Building Skin in various lightweight materials for Framed Structure

- Curtain walls with transoms, mullions and infilling panels of various materials
- Suspended glazing
- Composite panel cladding to the existing structure

Canopies in various materials.

Foundation Systems

Types of foundation systems,

Shallow foundations

Concept of Buoyant Foundation

Spread Foundation, its need and application

Raft Foundations of various types viz. Slab, Slab & Beam, and Cellular type

Foundation Walls

Column footings- Strip, Combined, and Cantilevered footings

Sessional work based upon above in the form of case studies, site visits, sketches, Drawings.

504 Theory and Design of structures 5
Credits 3
Teaching Hours

Lectures- 36 periods of 50 minutes duration- 30 hours

Studio- 54 periods of 50 minutes duration- 45 hours

(to be conducted as technology studio out of which 15hours are considered for credit calculations)

Scheme of examination

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

Sessional marks-
Internal- 50 External ----

Theme- Structural steel design of primary elements

1. Understanding steel table and readily available steel sections in market.
2. Understanding connections
   Riveted , welded, and bolted for steel framed building, trusses etc
3. Design of tension members in trusses
4. Design compression members in trusses and columns
5. Design of beams
6. Design of foundations, slab base, gusseted base and grillage

Sessional work based upon above .

505 Humanities 5
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 -

Theme- Art and Architecture

Modern movements in art and architecture
Between the wars
After the wars

Architectural evolution influenced by developments in technology and structural systems

Postmodern (and late-modern) movements in art and architecture
Critical and philosophical influences on architecture after the 1980s
Critical regionalism
Deconstruction

Architectural and art trends in the first decade of the millennium

Art and architecture in India since independence
Modernism
Architecture for the State
Influence of Le Corbusier and Kahn
Indian modernists

The influence of Vistara and the validation of the vernacular
Critical regionalism

Architectural and art trends in the first decade of the millennium in India

507 Architectural Representation and detailing
Credits- 4
Teaching Hours
Lectures- 36 periods of 50 minutes duration-30 hours
Studio- 36 periods of 50 minutes duration – 30hours

Sessional marks-
Internal- 100 External ----

Theme-A.Quantity Surveying and Estimating
B.Specifications

Introduction:-Definition, Aim and object, Scope and importance of subject.

Types of Estimates- Approximate and Detailed.

Methods of Approximate Estimating – Built up or Carpet Area Method, Cubic Contents, Method and Numbers System, Current Rates in Bombay for Approximate Estimating.

Detailed Estimate on item rate basis- Quantities and Abstract of Estimate, Bill of Quantities of a Tender, Contingencies.

Rates for Civil work items- as per Municipal or P.W.D. Schedule Rates and Current market rates in Bombay, Units for rates.

Taking out quantities for civil works of Load Bearing structures and preparation of Abstract.

Taking out quantities for civil works of Load Bearing structures and preparation of Abstract.

Sessional Work based upon above topics.
B. Specifications
Importance of specification in the construction activities
Methods of drafting specifications with correct order and sequence
Types of specifications-detailed and brief, open and restricted, performance, and standard
(Indian standard Specifications and P.W.D. specifications)
Language of specifications
Organization of project specifications

Sessional work
Brief specification of a building project

508 Architectural Building services 3
Credits 3
Teaching Hours

Lectures- 36 periods of 50 minutes duration- 30 hours
Studio- 54 periods of 50 minutes duration- 45 hours
(to be conducted as technology studio out of which 15hours are considered for credit calculations)

Scheme of examination

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

Sessional marks-

Internal- 50 marks External ----

Electricity
Lighting
Acoustics

Electrical services:
Basic concept of electricity: direct and alternating currents
Three phase and single phase supply
Electrical supply to sites and distribution to buildings
Electrical distribution within buildings
Electrical layouts for interior spaces
Open and concealed wiring
Types of wires
Wiring accessories
Concepts of electrical safety- Earthing, MCB, elcb, lightning conductor

Artificial lighting
Direct and indirect lighting
Types of lamps
Illumination levels

Acoustics-
concept and terminology
Room Acoustics
Propogation and reverberation of sound
Acoustics for lecture halls and Auditoriums

Sessional work based upon above.

509Architectural theories 3

Credits- 2
Teaching Hours
Lectures- 36 periods of 50 minutes duration – 30 hours
Studio- -----
Sessional marks-
Internal- 50 marks External ---

RESEARCH AND CRITICISM
Objectives:

1. To understand the fundamentals of theoretical architectural research, its objectives and its essential methodologies.
2. To be able to build up from documentation and data collection to critical analysis and evaluation. Bloom's Taxonomy may be used by teachers to convey the various levels in research and evaluation to students.
3. To develop and attitude of Critical Thinking (reflective reasoning about beliefs and actions and ways of deciding whether a claim is always true, sometimes true, partly true, or false, from Robert Ennis) and its essential dimensions: the analysis, assessment, dispositions, skills and abilities and obstacles or barriers to critical thought (from critcalthinking.org)

Sessional Work: This semester small projects of research and reflective writing shall be undertaken by students to develop personal skills of research presentation and critical evaluation (using previously gained knowledge of referencing and citation). Students should be encouraged also to write pieces that are argumentative, and disputational to be able to convey with clarity and effectiveness alternative and individualistic thinking about architecture.

520 college projects 5

Teaching Hours-
54 periods of 50 minutes duration – 45 hours
Sessional marks-
Internal- 100 External -------

(to be developed by individual colleges)
The following is a representative list of what may constitute college projects:

Research and documentation, Seminars, Guest Lectures, putting up Exhibitions, Workshops, participating in Architectural Competitions or conducting Site Visits or Study Tours.

521 electives 5

Credits- 3

Teaching Hours
Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100 External ------

(to be developed by individual colleges)

Technology Studio

Credit and marks as per the scheme of examination for individual courses

Teaching Hours

Studio- 54 periods of 50 minutes duration – 45 hour

Objectives

Integration of courses
Combined studio time

Technology studio is the studio time for students where guidance for technical courses will be available.
Combined Studio classes to be used for Sessional work for individual courses as well as for integration of courses

DETAILS OF SCHEME OF EXAMINATION
TO BE CONDUCTED BY COLLEGES.

BACHELOR OF ARCHITECTURE: SEMESTER V

	Semester V EXAMINATION Exam conducted by individual colleges	**THEORY**				**SESSIONAL MARKS**				
						INTERNAL		EXTERNAL		
SUB. NO.	COURSES	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
BARC 501	Architectural Design 5	---	----	---	---	100	50	100	50	200
BARC 502	Allied Design 5	----	---	---	---	100	50	---	----	100
BARC 503	Architectural Building Construction 5	1	3 HOURS	50	20	50	25	---	---	100
BARC 504	Theory and Design of Structures 5	1	2HOURS	50	20	50	25	---	---	100
BARC 505	Humanities 5	1	2HOURS	50	20	50	25	---	---	100
BARC 507	Architectural Representation & Detailing 5	---	---	---	---	100	50	---	---	100
BARC 508	Architectural Building Services 3	1	2HOURS	50	20	50	25	----	----	100
BARC 509	Architectural Theory 3	---	---	---	---	50	25	---	---	50
BARP 520	College projects 5	---	---	---	---	100	50	---	---	100
BARE 521	Elective 5	---	---	---	---	100	50	---	---	100
	Total marks for the examination									**1050**

Notes: Theory, Internal sessional work, and External viva are considered as separate heads of passing

Total marks for the examination = 1050

Minimum marks for passing the examination= 525

Scheme of Teaching and Examinations
Bachelor of Architecture (B. Arch.)

Semester VI

	Semester VI Exam conducted by University of Mumbai	Teaching Scheme		Credits		
Sub. No.	COURSES	Lecture	Studio	Theory	Studio	Total
BARC 601	Architectural Design Studio 6		8		8	8
BARC 602	Allied Design Studio 6		3		3	3
BARC 603	Architectural Building Construction 6	3	3 classes of technology studio	3	1	4
BARC 604	Theory and Design of Structures 6	2		2	1	3
BARC 608	Architectural Building Services 4	2		2	1	3
BARC 605	Humanities 6	3		3		3
BARC 607	Architectural Representation & Detailing 6		6		6	6
BARP 620	College projects 6		3		3	3
BARE 621	Elective 6		3		3	3
	Total	12	24	12	24	36

	Semester V I Exam conducted by University of Mumbai	Examination Scheme			
Sub. No.	COURSES	Theory (paper)	Internal	External viva	Total
BARC 601	Architectural Design Studio 6		100	100	200
BARC 602	Allied Design Studio 6		100		100
BARC 603	Architectural Building Construction 6	50	50		100
BARC 604	Theory and Design of Structures 6	50	50		100
BARC 608	Architectural Building Services 4	50	50		100
BARC 605	Humanities 6	50	50		100
BARC 607	Architectural Representation & Detailing 6		100	100	200
BARP 620	College projects 6		100		100
BARE 621	Elective 6		100		100
	Total	200	700	200	1100

Syllabus (Course Content) for Third year B. Arch. Course Semester VI

601 Architectural Design Studio 6

Credits-8

Teaching Hours

Lectures- --------

Studio- 144 periods of 50 minutes duration -120 hours

Sessional marks-

Internal- 100 External ---100

Course Objectives

- To understand nature of Urban institutions,
- To understand the context and character for urban institutions
- To understand requirement of architectural forms, spaces for corresponding activities

Course out come

- Architecture for enhancement of institutional character
- Design development and detailing for integration of infrastructure and building systems

602 Allied Design Studio 6

Credits-3

Teaching Hours

Lectures

Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100 External ------

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

603 Architectural Building Construction 6

Credits- 4

Teaching Hours

Lectures-54 periods of 50 minutes duration- 45 hours
Studio- 54 periods of 50 minutes duration- 45 hours to be conducted as technology studio (out of which 15 hours are considered for credit calculations)

Scheme of examination

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

Sessional marks-

Internal- 50 marks External ----

RCC Floor system for large bay sizes

- Flat Slab Floor: Study of Plate slab, Plate slab with drops, and Plate slab with drops and column capitals
- Floors in One way and Two way ribbed slab, Waffle slab, Diagrid beam slab

Pre cast and Prefab building elements in various materials

- Pre cast floor system with RCC beams, RCC Channels, and infilling floor blocks of various materials
- Connections and assembly of various building elements (prefab walls, beams, columns, chajjas, staircase flights, floor units, etc.)

Sessional work based upon above.

604 Theory and Design of structures 6

Credits 3

Teaching Hours

Lectures- 36 periods of 50 minutes duration- 30 hours
Studio- 54 periods of 50 minutes duration- 45 hours
(to be conducted as technology studio out of which 15hours are considered for credit calculations)

Scheme of examination

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

Sessional marks-

Internal- 50 External ----

1.Concrete technology as relevant to architecture

Aggregates that constitute making of concrete, types , source and availability, grades of concrete, purpose and types of additives to concrete , use and purpose of special cements , high strength concrete, transportation of concrete, placement of concrete, compaction and curing of concrete, ready mix and site mix concrete, durability of concrete, formwork for different components of rcc

2. Reinforced cement concrete of primary structural elements

Basic theory of flexure for singly and doubly reinforced sections
One way and two way slab systems and doglegged staircase
Rectangular beams
Rectangular,square &circular columns
Isolated pad, stepped & sloped footing
Precast concrete elements, its application and suitability
Steel – concrete composite construction in buildings – a very basic descriptive introduction. Encased concrete construction.

3. Rcc theory of grid floors

Rectangular grid
Dia-grid

4. Rcc theory of flat slab

I) with column capital and drop
Ii) only drop
Iii) flat plate
Iv) an appreciation of the adoption of flat slab construction vis-à-vis beam / slab construction and vice-a-versa.

The above elements are to be taught with miminum calculations and with emphasis on making correct structural drawings and good structural planning leading

605 Humanities 6
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 -

Theme- Understanding Architecture with reference to social issues related to Urbanization

Urbanization at global level and in India.
Globalization and its effects on urban life
Major trends urbanization and Pace of urbanization in different parts of India
Changes in the pattern of urbanization in metro cities
Growth of smaller towns into cities, and its repercussions
Problem arising out of rapid urbanization
Genesis of Urbanization
Urban population growth due to natural increase of migration into urban areas,
Nature of issues related to urban migration
Work patterns in urban areas.

Urban issues to be studied with special reference to
Mumbai Metropolitan Region(MMR)
Preservation of Natural resources, natural heritage
Understanding Built heritage, and social- cultural heritage
Public spaces and public buildings with reference to accessibility, Gender, age

Transport and real Estate
Public Housing
Infrastructure development
Public Health problems

607 Architectural Representation and detailing
Credits- 6
Teaching Hours
Lectures- 36 periods of 50 minutes duration – 30 hours
Studio- 72 periods of 50 minutes duration -60 hours
Sessional marks-
Internal- 100 External ---100

Working Drawings
Working drawing of framed structure indicating following to appropriate scale
Foundation plan
Floor plans
Elevations and sections as necessary

Details for any three of following
Roofing system, walling system, staircase, flooring system, openings

608 Architectural Building services 4
Credits 3
Teaching Hours
Lectures- 36 periods of 50 minutes duration- 30 hours
Studio- 54 periods of 50 minutes duration- 45 hours
(to be conducted as technology studio out of which 15hours are considered for credit calculations)
Scheme of examination
Theory: one paper of two hours duration Max. marks- 50 Min marks for passing- 20

Sessional marks-
Internal- 50 marks External ----

Theme- Fire protection for buildings
Services for high rise Buildings
Fire protection
Study of fire regulations, Code of safety
Combustibility and fire resistance of building materials
Design consideration for fire safety
Fire escape routes
Fire alarms and warning systems
Systems for fire protection and Fire fighting
Water supply for Fire fighting- Static tanks, Hydrants, Wet and dry riser, sprinklers
Services for high rise Buildings (Space and installation requirement)
Water supply for high rise buildings
Electrical distribution for high rise buildings
Vertical transportation system –
Lifts – carrying capacity and travel time, grouping of lifts- installation requirement
Escalators-Provision of space and installation requirement

Sessional work based upon the above topics.

620 college projects 6

Teaching Hours-
54 periods of 50 minutes duration – 45 hours
Sessional marks-
Internal- 100 External -------

(to be developed by individual colleges)
The following is a representative list of what may constitute college projects:

Research and documentation, Seminars, Guest Lectures, putting up Exhibitions, Workshops, participating in Architectural Competitions or conducting Site Visits or Study Tours.

621 electives 6

Teaching Hours
Studio- 54 periods of 50 minutes duration – 45 hours
Sessional marks-
Internal- 100 External ------

(to be developed by individual colleges)

Technology Studio
Credit and marks as per the scheme of examination for individual courses

Teaching Hours
Studio- 54 periods of 50 minutes duration – 45 hour

Objectives

Integration of courses
Combined studio time

Technology studio is the studio time for students where guidance for technical courses will be available.
Combined Studio classes to be used for Sessional work for individual courses as well as for integration of courses

DETAILS OF SCHEME OF EXAMINATION
TO BE CONDUCTED BY UNIVERSITY OF MUMBAI

BACHELOR OF ARCHITECTURE: SEMESTER VI

	Semester VI EXAMINATION Exam conducted by University of Mumbai	**THEORY**				**SESSIONAL MARKS**				
						INTERNAL		EXTERNAL		
SUB. NO.	COURSES	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
BARC 601	Architectural Design 6	---	----	---	---	100	50	100	50	200
BARC 602	Allied Design 6	----	---	---	---	100	50	---	----	100
BARC 603	Architectural Building Construction 6	1	3 HOURS	50	20	50	25	---	---	100
BARC 604	Theory and Design of Structures 6	1	2HOURS	50	20	50	25	---	---	100
BARC 605	Humanities 6	1	2HOURS	50	20	50	25	---	---	100
BARC 607	Architectural Representation & Detailing 6	---	---	---	---	100	50	100	50	200
BARC 608	Architectural Building Services 4	1	2HOURS	50	20	50	25	----	----	100
BARP 620	College projects 5	---	---	---	---	100	50	---	---	100
BARE 621	Elective 6	---	---	---	---	100	50	---	---	100
	Total marks for the examination									**1100**

Notes: Theory, Internal sessional work, and External viva are considered as separate heads of passing

Total marks for the examination = 1100

Minimum marks for passing the examination= 550

AC 19-9-2013
Item No. – 4.21

UNIVERSITY OF MUMBAI

Syllabus for the Bachelor of Architecture

Programme: B. Arch.

Bachelor of Architecture
(Semester VII & VIII)

(As per Credit Based Semester and Grading System with effect from the academic year 2015–2016)

Scheme of Teaching and Examinations
Bachelor of Architecture (B. Arch.)

Semester VII

	Semester VII Exam conducted by college	Teaching Scheme		Credits		
Sub. No.	COURSES	Lecture	Studio	Theory	Studio	Total
BARC 701	Architectural Design Studio 7		8		8	8
BARC 702	Allied Design 7	2	2	2	2	4
BARC 703	Architectural Building Construction 7	3	3 classes of technology studio	3	1	4
BARC 704	Theory and Design of Structures 7	2		2	1	3
BARC 708	Architectural Building Services 5	2		2	1	3
BARC 707	Architectural Representation & Detailing 7	2	3	2	3	5
BARC 710	Professional Practice 1	3		3		3
BARP 720	College projects 7		3		3	3
BARE 721	Elective 7		3		3	3
	Total	14	22	14	22	36

	Semester V II Exam conducted by college	Examination Scheme			
Sub. No.	COURSES	Theory (paper)	Internal	External viva	Total
BARC 701	Architectural Design Studio 7		100	100	200
BARC 702	Allied Design 7		100		100
BARC 703	Architectural Building Construction 7	50	50		100
BARC 704	Theory and Design of Structures 7		100		100
BARC 708	Architectural Building Services 5	50	50		100
BARC 707	Architectural Representation & Detailing 7		100	100	200
BARC 710	Professional Practice 1	50	50		100
BARP 720	College projects 7		100		100
BARE 721	Elective 7		100		100
	Total	150	750	200	1100

Syllabus (Course Content) for Fourth Year B. Arch.
Semester VII

701 Achitectural Design Studio 7

Credits-8

Teaching Hours

Lectures- --------
Studio- 144 periods of 50 minutes duration -120 hours

Sessional marks-

Internal- 100 External ---100

Theme- Housing

Course Objectives

- Understanding typologies of housing in Urban Areas.
- Understanding quantitative and qualitative aspects of mass housing.
- Under standing user aspirations and user affordability

Expected Course out come

Design of housing schemes in urban area, along with necessary infrastructure, services, and amenities.

702 Allied Design

Credits-4

Teaching Hours

Lectures 36 periods of 50 minutes duration – 30 hours
Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100 External ------

The course content will be developed by the individual colleges as per their choice of Allied Design scheme.
Suggested Themes: town planning, Urban Design, Housing

703 Architectural Building construction 7
Credits-4

Teaching Hours-

Lectures-54 periods of 50 minutes duration- 45 hours

Studio- 54 periods of 50 minutes duration- 45 hours to be conducted as technology studio (out of which 15 hours are considered for credit calculations)

Scheme of examination

Theory: one paper of three hours duration Max. Marks- 50 Min marks for passing- 20

Sessional marks-

Internal- 50 marks External ----

Basement and Deep Foundations:

Single and multi level basements for Parking and Services.
Deep foundations using Piles.

Introduction to High rise buildings:

High rise buildings in RCC and Steel frame of varying structures
The construction process of high rise buildings

Introduction Earthquake Resistant Construction:

Earthquake resistant construction for Load bearing and Framed structures

704 Theory and Design of structures 7
Credits 3
Teaching Hours

Lectures- 36 periods of 50 minutes duration- 30 hours
Studio- 54 periods of 50 minutes duration- 45 hours
(to be conducted as technology studio out of which 15hours are considered for credit calculations)

Scheme of examination
Theory ---
Sessional marks-
Internal- 100 External ----

1.introduction to design of deep foundation
It is to be taught with an emphasis on their suitability with respect to different types of buildins and soil conditions and structural drawings (no calculation)

2.combined footings
1 rectangular footing
2 trapezoidal footing
3 strip footing
4 raft footing

3.piles footings
Pre cast and cast in situ piles and pile caps

4. Retaining walls

5.earth quake resistant structure

6. Theory and principles of structural design of tall buildings.

707 Architectural Representation and detailing 7
Credits 5
Teaching Hours
Lectures- 36 periods of 50 minutes duration-30 hours
Studio- 54periods of 50 minutes duration – 45hours

Sessional marks-
Internal- 100 External ----
Theme – Project Specifications
Building By laws and Approval Drawings

Project specifications
Detailed specifications of various work items for a structure from exacavation up to finishing in super structure.

1.Excavation- filling, timbering, trenches
2.Brick Masonry-
3. Stone Masonary
4.specification for R.C.C. work including mixing, placing, curing of concrete
5. Specifications for Fabrication and assembly of structural steel frame buildings
6. Rendering and plastering
7.Floor finishes
8.wall finishes
9. flooring cast in situ including I.P.S., Terrazo
10. Roof finishes in tiles and roofing sheets

Sessional work – Project specification for a building to include above items.
Building by laws and Approval Drawings
- Introduction to Building bye laws and regulations- their need and relevance
- Study of National Building Code
- Implications of Development control rules for greater Mumbai as approved by Government of Maharashtra on contemporary growth of built environment of Mumbai.
- Calculations of built up area and F.S.I.
- Comprehensive study of Building Bye laws relating to the strength and stability of structures, bye-laws relating to light and ventilation, and sanitation of buildings.
- Various drawings required for approvals from Authorities, on the basis of by Development Control rules and by laws

Sessional work – Set of approval Drawings and reports.

708 Architectural Building services 5
Credits 3
Teaching Hours

Lectures- 36 periods of 50 minutes duration- 30 hours
Studio- 54 periods of 50 minutes duration- 45 hours
(to be conducted as technology studio out of which 15hours are considered for credit calculations)

Scheme of examination

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

Sessional marks-

Internal- 50 marks External ----

Theme- Heating, Ventilation, and Air conditioning

Comfort conditions- temperature control, Humidity control, air filtration, and air changes.

Heating of spaces- local and central heating- heating equipment
Thermal conductivity, and insulation.

Ventilation-
Mechanical ventilation in buildings-
Mechanical Ventilation in Basements
Fans, blowers, air filters
Air conditioning
Concept of refrigeration cycle, and air cycle
Systems of air conditioning- local and central
Duct work and air conditioning layouts
Fittings and fixtures

Sessional work

Case studies, market surveys, and drawings, based upon above.

710 Professional Practice 1

Credits- 3
Teaching Hours

Lectures- 54 periods of 50 minutes duration – 45hours
Studio- -----

Scheme of examination

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

Sessional marks-

Internal- 50 marks External ----

- **Introduction to Architectural profession**,
- Role of professional bodies

- Architect's Registration Act 1972
- The professional role, responsibilities, duties, liabilities of Architects
- Code of professional conduct
- Code relation to Architectural competition
- Copy-rights of drawings

Office

Office structures – Small practice, medium practice & Large practice.
Nature of partnership, registration of firm and dissolution

Office set up and administration

Task allocation – Work plans, monitoring the plans, review meetings, record keeping - – Inward, Phone calls, Minutes of meeting, To do list, wish list-Time Management

Tenders

Types of tenders and tender document,
World Bank formats, Indian Banks Association guidelines, PWD, CPWD, Tender forms
Tender draft notices and inviting of tenders
Procedure for opening and selection of tenders
Qualification criteria, Bid capacity, freak rates, rate analysis..
Analysis and report to owner
Work order

Contract

Types of contracts and contract documents
Detailed knowledge about various conditions of contract as published by Indian Institute of Architects and specially about
Earnest Money
Security Deposit
Retention Money
Mobilization Fund
Bank Guarantee
Architect's Instructions
Clerk of works
Variation and Extras
Defects after completion
Certificate and Payments
Insurance and fire insurance
Liquidate damage
Termination of Contract

720 college projects 7

Teaching Hours-

54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100 External -------

(to be developed by individual colleges)

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

Research and documentation, Seminars, Guest Lectures, putting up Exhibitions, Workshops, participating in Architectural Competitions or conducting Site Visits or Study Tours.

721 electives 7

Credits- 3

Teaching Hours

Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100 External ------

(to be developed by individual colleges)

Technology Studio

Credits and marks as per the scheme of examination for individual courses

Teaching Hours

Studio- 54 periods of 50 minutes duration – 45 hour

Objectives

Integration of courses

Combined studio time

Technology studio is the studio time for students where guidance for technical courses will be available.

Combined Studio classes to be used for Sessional work for individual courses as well as for integration of courses

DETAILS OF SCHEME OF EXAMINATION
TO BE CONDUCTED BY COLLEGES.

BACHELOR OF ARCHITECTURE: SEMESTER VII

	Semester VII EXAMINATION Exam conducted by individual colleges	**THEORY**				**SESSIONAL MARKS**				
						INTERNAL		EXTERNAL		
SUB. NO.	COURSES	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
BARC 701	Architectural Design 7	---	----	---	---	100	50	100	50	200
BARC 702	Allied Design 7	----	---	---	---	100	50	---	----	100
BARC 703	Architectural Building Construction 7	1	3 HOURS	50	20	50	25	---	---	100
BARC 704	Theory and Design of Structures 7	----	---	---	---	100	50	---	----	100
BARC 707	Architectural Representation & Detailing 7	---	----	---	---	100	50	100	50	200
BARC 708	Architectural Building Services 5	1	2HOURS	50	20	50	25	----	----	100
BARC 710	Professional Practice 1	1	2HOURS	50	20	50	25	----	----	100
BARP 720	College projects 7	---	---	---	---	100	50	---	---	100
BARE 721	Elective 7	---	---	---	---	100	50	---	---	100
	Total marks for the examination									**1100**

Notes: Theory, Internal sessional work, and External viva are considered as separate heads of passing

Total marks for the examination = 1100

Minimum marks for passing the examination= 550

Scheme of Teaching and Examinations B.Arch Semester VIII

	Semester VIII Exam conducted by University of Mumbai	Teaching Scheme		Credits		
Sub. No.	COURSE	Lecture	Studio	Theory	Studio	Total
BARC 810	Professional Practice 2	Professional training of - 16 weeks				16

	Semester V III Exam conducted by University of Mumbai	Examination Scheme			
Sub. No.	SUBJECTS	Theory (paper)	Internal	External viva	Total
BAR T 811	Professional training			200	200

DETAILS OF SCHEME OF EXAMINATION
TO BE CONDUCTED BY UNIVERSITY OF MUMBAI

BACHELOR OF ARCHITECTURE: SEMESTER VIII

	Semester VIII EXAMINATION Exam conducted by University of Mumbai	**THEORY**				**SESSIONAL MARKS**				
						INTERNAL		EXTERNAL		
SUB. NO.	COURSES	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
BARCT811	Professional Training	---	----	---	---	---	---	200	100	200

Syllabus for Fourth Year B. Arch. Semester VIII

811Professional Training

Credits-16

Teaching Hours

Lectures- --------
Studio- ----

Sessional marks-

Internal- --- External ---200

Theme-Professional Training

During this term the students have to undergo training out-side the institute, in such offices / organizations as will give him/her the necessary opportunity to improve and consolidate his/her Architectural Knowledge.

During the practical training the student is expected to work in accordance with the discipline of the organization, and will have to make progress which will be carefully watched by the institution. The student will have to submit the a detailed report of the experience gained during the professional training.

Logbooks will have to be maintained by the students and counter signed by the principal of the firm , and also by the teacher in charge .

Pro forma for professional experience

Academic year
Name of the student -

Name of the office / organization with address

Registration details

Date of Joining:
Date of leaving:
Employers report: Brief Details of the experience gained by the student stating the nature of work

Signature of The employer

Signature of Professor In charge

AC 4-3-2014
Item No. – 4.47

UNIVERSITY OF MUMBAI

Syllabus for the Bachelor of Architecture

Programme : B.Arch.

Bachelor of Architecture
(Semester IX& X)

(As per Credit Based Semester and Grading System with effect from the academic year 2016-17

Scheme of Teaching and Examinations
Bachelor of Architecture (B. Arch.)

Semester IX

	Semester IX Exam conducted by college	Teaching Scheme		Credits		
Course code	Courses	Lecture	Studio	Theory	Studio	Total
BARC 901	Architectural Design Studio 8		8		8	8
BARC 902	Allied Design Studio 8	2	3	2	3	5
BARC 903	Architectural Building Construction 8	2	2 classes of technology studio	2	1	3
BARC 904	Theory and Design of Structures 8	1		1	1	2
BARC 908	Architectural Building Services 6	1	2 classes of technology studio	1	1	2
BARC 906	Environmental studies 4	2		2	1	3
BARC 910	Professional practice 2	3		3		3
BARD 911	Design Dissertation 1	1	3	1	3	4
BARE 921	Elective 8		3		3	3
BARE 922	Elective 9		3		3	3
	Total	14	22	14	22	36

	Semester IX Exam conducted by college	Examination Scheme			
Course code	courses	Theory (paper)	Internal	External viva	Total
BARC 901	Architectural Design Studio 8		100	100	200
BARC 902	Allied Design Studio 8	50	50		100
BARC 903	Architectural Building Construction 8		100		100
BARC 904	Theory and Design of Structures 8		50		50
BARC 908	Architectural Building Services 6		50		50
BARC 906	Environmental studies 4		100		100
BARC 910	Professional practice 3	50	50		100
BARD 911	Design Dissertation 1		50	50	100
BARP 921	Elective 8		100		100
BARE 922	Elective 9		100		100
	Total	100	650	150	1000

Syllabus (Course Content) for final year B. Arch. programme Semester IX

901 Achitectural Design Studio 8

Credits-8

Teaching Hours

Lectures- --------

Studio- 144 periods of 50 minutes duration -120 hours

Scheme of examination

Theory: ------

Sessional marks-

Internal- 100 External ---100

Course Objectives

Collection and analysis of data related to Design topic.
Application of technical knowledge to design detailing
Understanding impact of socio economic factors on user requirements
Study of climatic conditions, Site analysis, site planning
Understanding traffic patterns and transportation.

Expected Course out come

Architecture for urban commercial, transportation, recreation, entertainment activities for masses with respect to following

- Development of appropriate architectural forms, their grouping and composition,
- Architectural detailing.
- Provision of required infrastructure and services
- Design of complex/ multifunctional buildings and surrounding spaces

902 Allied Design Studio 8

Credits-5

Teaching Hours

Lectures- 36 classes of 50 minutes duration – 30hours

Studio- 54 periods of 50 minutes duration -45 hours

Scheme of examination

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

Sessional marks-
Internal- 50 marks External ----

The course content will be developed by the individual colleges as per their choice of Allied Design scheme.
Suggested Themes: Town planning, Urban Design, Housing, Environmental design

903 Architectural Building construction 8

Credits-3

Lectures-36periods of 50 minutes duration- 30 hours
Studio- 18 periods of 50 minutes duration- 15 hours
(to be conducted as a part of technology studio of 36 periods of 50 minutes duration – 30 hours)

Scheme of examination
Theory: ------

Sessional marks-
Internal- 100 marks External ----

Long span structures, Long span beams, Long span Trusses & Roof structures.
Long span Arches,
Cable structures,
Folded Plate structures, and Space frames,
Shell structures.

904 theory and Design of Structures 8

Credits-2

Lectures-18 periods of 50 minutes duration- 15 hours
Studio- 18 periods of 50 minutes duration- 15 hours
(to be conducted as a part of integrated studio of 36 periods of 50 minutes duration – 30 hours)

Scheme of examination
Theory: ------

Sessional marks-
Internal- 100 marks External ----

1. Long span structures

Long span beams, Long span Trusses & Roof structures.
Long span Arches,

2. Cable supported structures

3. Folded Plate structures, Shell structures.

4. Space frames

5. Portal frames

6. Pre-stressed Concrete, Pre-stressing and its applications to buildings,
Principles of Pre-tensioning & Post-tensioning

Sessional work based upon above.

906 Environmental Studies 4

Credits-3

Lectures-36 periods of 50 minutes duration- 30 hours
Studio- 18 periods of 50 minutes duration- 15 hours
(to be conducted as a part of technology studio of 36 periods of 50 minutes duration – 30 hours)

Scheme of examination
Theory: ------

Sessional marks-
Internal- 100 marks External ----

Objective: To study and understand sustainable building design processes

1. **Concepts of Sustainable Building**
   Social, Economic and Environmental aspects
   Different types of Indian and International Rating Systems (GRIHA, LEED, IGBC, Eco Housing, BREEAM, CASBEE, etc)

2. **Studying the Nation Building Code (NBC 2005) code with respect to the Chapter 11 on Sustainability**

3. **Energy Efficiency**
   Energy Efficient Design (Achieving Efficiency through design)
   Energy Conservation Building Codes (ECBC) Codes 2007
   Learning Different Energy Simulation Techniques (Energy / Lighting)
   Advanced Energy Efficient Standards and Systems
   - HVAC
   - Lighting
   - Appliances and Equipments
   - Building Envelope

   Understanding and calculation of energy consumption of a House, office building

4. **Water Efficiency**
   Water and Waste Water Management (Study of Water Balancing)
   Rain Water Harvesting
   Efficient waste water treatment techniques (DEWATS, MBR, MBBR etc)
   Efficient Water Fixtures

5. **Material Efficiency**
   Understanding various parameters for Sustainable Building Materials and evaluate using LCA (ISO 14000)

6. **Solid Waste Management**

Sessional work based upon above in form of case studies, report, presentations.

908 Architectural Building services 6

Credits-2
Teaching Hours

Lectures-18 periods of 50 minutes duration- 15 hours
Studio- 18 periods of 50 minutes duration- 15 hours
(to be conducted as a part of technology studio of 36 periods of 50 minutes duration – 30 hours)

Scheme of examination
Theory: ------

Sessional marks-
Internal- 50 External ---

Theme:

Integrated services
Specialized Services required for specific functions/ building types (for example hospitals, hotels, auditorium)
Specialized services as per climatic conditions
Building management systems
Infrastructure and amenities for public spaces

Sessional work: Reports and Case studies related to Thesis topic.

910 Professional Practice 2

Credits-3

Teaching Hours

Lectures- 54 classes 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 marks External ----

Instructions in the following should be such as to understand the purpose and implication of its application, instructions to the students should be general without going too much in detail in legal aspects.

Acquisition

General principles of land acquisition with reference to norms of compensation.
Purpose of acquisition

Valuation

Elements of valuation- market value methods of valuation specially income capitalization technique and physical method of valuation
Elementary examples including one for ownership flats and premises, Building up or determining rate of capitalization based on gilt-edged theory and general investment market theory.
Valuer and his/her function including registration

Meaning of immovable property- ownership and possession.
Joint tenancies and tenancy in common- types of tenure with special reference to freehold and leasehold tenure.
Different types of tenures of land- as commonly found- leasehold and freehold and lease and other rents.

Rent- different types of rent- standard rent, example on working out of standard rent. Ratable value and its relation to rent- nature and purpose of ratable value. Rent control act

Definition of property- ownership and possession- Joint tenancies and tenancy in common- types of tenure with special reference to freehold and leasehold tenure.
Principle types of landed properties- their outgoings calculation of rented value and not income market value.

Principles governing the rate of interest required for different types and class of properties- gilt edged securities.

Valuation

Ownership basis flats
Use in practice(Construction is not contemplated)
Gross annual value ratable value and their application

Dilapidation
Procedure for preparing report and schedule of dilapidations
Settlement of claims
Law related to structural and general repairs

Fire Insurance
Insurance policy and cover note
Fire loss assessment claim and report
Insurable value of the property.

Easement of Light, Ventilation and Access.

Sessional work based on above

911 Design Dissertation 1

Credits-4

Teaching Hours

Lectures- 18 classes of 50 minutes duration – 15hours
Studio- 54 classes of 50 minutes duration – 45 hours

Scheme of examination

Theory: -------

Sessional marks-

Internal- 50 marks External viva – 50 marks (in the beginning of semester 10)

Students are required to choose a topic and conduct research under the guidance of internal teachers. They are required to submit a report to in the given format.
The report should include
Title and description of the topic
Justification for Architectural intervention in context.

Back ground study
Review of related literature
Analysis of terms

Methodology of study (Survey, Case studies, project reviews)
Findings and analysis based on the methodology
Design objectives based upon the findings, and development of design brief
Site selection criteria

Description of the site
Site analysis to include local Architectural context, and socio economic conditions.
Climatic and environmental conditions, and prevalent bylaws.

921 Elective 8

Credits- 3

Teaching Hours
Studio- 54 periods of 50 minutes duration – 45 hours
Sessional marks-
Internal- 100 External ------

The electives are to be offered by individual colleges based upon current issues in Architecture and Urbanity

922 Elective 9

Credits- 3

Teaching Hours
Studio- 54 periods of 50 minutes duration – 45 hours
Sessional marks-
Internal- 100 External ------

The elective can be chosen by individual students based upon the topic related to Design Dissertation, under the guidance of internal teacher / guide.

DETAILS OF SCHEME OF EXAMINATION SEMESTER IX

BACHELOR OF ARCHITECTURE: SEMESTER IX EXAMINATION
TO BE CONDUCTED BY COLLEGES.

	Semester IX EXAMINATION Exam conducted by individual colleges	**THEORY**				**SESSIONAL MARKS**				
						INTERNAL		EXTERNAL		
SUB. NO.	COURSES	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
BARC 901	Architectural Design 8	---	----	---	---	100	50	100	50	200
BARC 902	Allied Design 8	1	2HOURS	50	20	50	25	----	----	100
BARC 903	Architectural Building Construction 8	----	---	---	---	100	50			100
BARC 904	Theory and Design of Structures 8	----	---	---	---	50	25	---	----	50
BARC 906	Environmental studies 4	---	----	---	---	100	50	----	----	100
BARC 908	Architectural Building Services 6	---	----	---	---	50	25			50
BARC 910	Professional Practice 2	1	2HOURS	50	20	50	25	----	----	100
BARD 912	Design Dissertation 1	----	---	---	---	50	25	50	25	100
BARE 921	Elective 8	---	---	---	---	100	50	---	---	100
BARE 921	Elective 9	---	---	---	---	100	50	---	---	100
	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= 500

Scheme of Teaching and Examinations
Bachelor of Architecture (B. Arch.)

Semester X

	Semester X Exam conducted by University of Mumbai	Teaching Scheme		Credits		
COURSE CODE.	COURSES	Lecture	Studio	Theory	Studio	Total
BARC 1006	Environmental studies 5 (Building sciences and sustainability)	2	8 classes of technology studio	2	1	3
BARC 1007	Architectural representation & detailing 9				6	6
BARC 1012	Advanced Building Construction and structures	2		2	1	3
BARC 1009	Advanced Theories 4			2		2
BARC 1010	Professional Practice 3	2		2		2
BARD 1011	Design Dissertation 2		16		16	16
BARE 1021	Elective 10		4		4	4
	Total	2	34	2	34	36

	Semester X Exam conducted by University of Mumbai	Examination Scheme			
COURSE CODE	COURSES	Theory (paper)	Internal	External viva	Total
BARC 1006	Environmental studies 5 (Building sciences and sustainability)		100		100
BARC 1007	Architectural representation & detailing 9		100	100	200
BARC 1012	Advanced Building Construction and structures		100		100
BARC 1009	Architectural Theories 4		50		50
BARC 1010	Professional Practice 3		50		50
BARD 1011	Design Dissertation 2		200	200	400
BARE 1021	Elective 9		100		100
	Total		700	300	1000

PILLAI COLLEGE OF ARCHITECTURE
Dr. K. M. Vasudevan Pillai Campus
10, Sector-16, New Panvel
410 206 INDIA

Syllabus (Course Content) for final year B. Arch. programme Semester X

1006Environmental Studies 5

Credits-3

Lectures-36 periods of 50 minutes duration- 30 hours
Studio- 18 periods of 50 minutes duration- 15 hours
(to be conducted as a part of technology studio of 144 periods of 50 minutes duration – 120 hours)

Scheme of examination
Theory: -------

Sessional marks-
Internal- 100 marks External ----

Objective: To evaluate and apply sustainable building strategies over design.

1. **Post occupancy evaluation of case studies of student's thesis work.**
2. **Urban sustainability**
3. **Impacts of built environment on its surroundings.**

1007Architectural Representation and detailing 8

Credits 6

Teaching Hours
Studio-108 periods of 50 minutes- 90 hours.
(to be conducted as a part of technology studio of 144 periods of 50 minutes duration – 120 hours)

Scheme of examination
Theory: -------

Sessional marks-
Internal- 100 External ---100
External viva will be conducted simultaneously for Design dissertation and design detailing

Students are required to submit a report to describe :
Structural system
Method of construction and materials
Active and passive Systems related to building sciences and environment protection

Required Drawings :
Detailed sections showing structural system

Schematic plan of design with services
Students are encouraged to detail out any significant part of their design under supervision of guides.

1012 Advanced Building construction and structures

Credits-3

Lectures-36periods of 50 minutes duration- 30 hours
Studio- 18 periods of 50 minutes duration- 15 hours
(to be conducted as a part of technology studio of 144 periods of 50 minutes duration – 120 hours)

Scheme of examination
Theory: -------

Sessional marks-
Internal- 100 marks External ----

1. Study of various Structural systems and methods of construction
2. selection criteria of structural system and method of construction for building types
3. Intelligent structures and control of structural response

Sessional work – Case studies, reports
Applications- structural and construction details for design Dissertation projects

1009 Architectural Theories 4
Credits-2

Lectures-36periods of 50 minutes duration- 30 hours
Studio ------

Scheme of examination
Theory: -------

Sessional marks- 50

Advanced Theories
Theory is an integral aspect of cultural analysis of which architecture is central. Significant inputs to current architectural theory have been from disciplines outside architecture that have make thinking richer and more relevant. Architectural Theory today is multi-disciplinary in nature, and this has significant bearing on architectural design.

The objective of learning in this semester is to make students aware of the current discourses in architecture through a direct interaction with architectural thinking and ideas. It is to make comprehensible the evolution of ideas in architecture, especially after the modernist era. Students should be provided readings, and discussions on both the ideas and the language of theory are encouraged, using actual examples of architecture. Sessional work should include writing about architecture, becoming conversant with the current language of theory and gaining an insight and sensitivity to architectural thinking that influences architectural practice today.

1.0 What are the current discourses in architecture today?
Understanding the effects of contemporary thought in society and culture today, and its impact on architectural design. Understanding theory as an academic discipline.

2.0 Tracing the rise of theory in architecture and culture after modernism. The significance of post-modern and post millennial discourses in architecture. Developing a post-modern world view.

3.0 The multi disciplinary approach: Understanding ideas from outside architecture that have informed current architectural discourse- from philosophy, sociology, linguistics, psychology, feminism, post-colonial studies, information technology, art, cultural and critical theory, etc. (Teachers may choose significant disciplines from which writings can be discussed)

4.0 Describing through theoretical discourse the post-millennial world we live in and the impact of architecture in our world today.

1010 Professional Practice
Credits-3

Lectures-36periods of 50 minutes duration- 30 hours
Studio-

Scheme of examination

Theory: ------

Sessional marks-

Internal- 50 marks External ----

Professional and legal responsibilities of Architects

Arbitration clause.

Arbitration, Conciliation and Mediation.

Arbitration proceedings and Awards.

Duties and liabilities in profession.

Legal responsibility of architect to Employer.

Government bodies and local bodies.

Express and implied authority of the Architect.

Architect's relationship with the Client and the Contractor.

Duration of liability.

Consumer Protection Act 1986.

All Acts related to non agricultural lands in relation to Building activities related to regions such as M.R.T.P, M.H.A.D.A and M.M.R.D.A. acts
Environmental policy and laws related to protection of environment.

1011 Design Dissertation

Credits-16

Lectures-----
Studio- 288periods of 50 minutes duration -240 hours

Scheme of examination

Theory: ------

Sessional marks-

Internal- 200marks External -200

External viva will be conducted simultaneously for Design dissertation and design detailing

Students are required to develop the design as per the design objectives and design brief submitted in the report.
Drawings should include location plan, site plan, detailed floor plans, elevations,views and large scale sections.

1022 Elective 10

Credits- 3

Teaching Hours

Studio- 54 periods of 50 minutes duration – 45 hours

Sessional marks-

Internal- 100 External ------

The elective can be chosen by individual students under the guidance of internal teacher

DETAILS OF SCHEME OF EXAMINATION SEMESTER X

BACHELOR OF ARCHITECTURE: SEMESTER X EXAMINATION
TO BE CONDUCTED BY UNIVERSITY OF MUMBAI

	Semester X Exam conducted by University of Mumbai	**THEORY**				**SESSIONAL MARKS**				
						INTERNAL		EXTERNAL		
COURSE CODE	COURSES	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
BARC 1006	Environmental studies 5	---	----	---	---	100	50	----	----	100
BARC 1007	Architectural Representation & Detailing 8	----	---	---	---	100	50	100	50	200
BARC 1009	Architectural Theories 4					50				50
BARC 1010	Professional Practice 3					50				50
BARC 1012	Advanced Building Construction and structures	----	---	---	---	100	50	---	---	100
BARD 1011	Design Dissertation 2	----	---	---	---	200	100	200	100	400
BARE 1021	Elective 10	---	---	---	---	100	50	---	---	100
	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= 500

MES PILLAI COLLEGE OF ARCHITECTURE

NEW PANVEL

AY 2023-24 Calendar - TERM I

June	July	August	September	October	November	December
1 Th	1 Sa	1 Tu	1 Fr	1 Su SWACHHATA CAMPAIGN	1 We	1 Fr FACULTY MEETING
2 Fr ELECTIVES CHOICE FORMS	2 Su	2 We	2 Sa	2 Mo GANDHI JAYANTI	2 Th	2 Sa
3 Sa	3 Mo	3 Th STRESS AND TIME MANAGEMENT - YVETTE LEE LECTURE	3 Su	3 Tu SEM I B.Arch. Commences; TOS Guest Lect by Mr. Sheikh; Foundations to Skyline Workshop - Surface Development and 3D Composition	3 Fr	3 Su
4 Su	4 Tu	4 Fr SENATE GENERAL BODY MEETING; T-SHIRT DISTRIBUTION FOR MES STAFF	4 Mo CAREER GUIDANCE FOR 12TH STUDENTS AT CAMPUS	4 We Foundations to Skyline Workshop - 3D Impressions	4 Sa	4 Mo MENTORS ORIENTATION - STUDENTS' PSYCHOLOGY - YVETTE, TOUR DOCUMENTATION WEEK - II and III yr.
5 Mo COLLEGE REOPENS; ELECTIVES CHOICE FORMS; PP DOCUMENTS GOOGLE FORM	5 We ANISH KINI LECT	5 Sa	5 Tu TEACHERS DAY / ALUMNI TALKS - VINAY DEGAONKAR LECTURE	5 Th Foundations to Skyline Workshop - Architectural Vogue; STUDENTS FEEDBACK FORM	5 Su	5 Tu
6 Tu ELECTIVES ALLOTTMENT; STRESS MANAGEMENT WORKSHOP COMMENCES	6 Th	6 Su	6 We HAEMOGLOBIN TESTING CAMP	6 Fr TERM ENDS for sem V, VII, IX; Foundations to Skyline Workshop - Freehand sketching and Still Life Art	6 Mo Compilation of all Course Files and Reports	6 We
7 We HORIZONTAL AND VERTICAL INTEGRATION MEETINGS;	7 Fr SEM VII YMCA SITE VISIT; ERANNA YEKBOTE ALUMNI TALKS	7 Mo	7 Th	7 Sa	7 Tu	7 Th
8 Th TREE PLANTATION - WORLD ENV DAY	8 Sa	8 Tu	8 Fr	8 Su	8 We	8 Fr IQAC WORKSHOP
9 Fr IQAC WORKSHOP; FEEDBACKS REVIEW; STUDENTS WORK EXHIBITION	9 Su	9 We AMRUT KAAL KE PANCH PRAN	9 Sa RCC Lab Testing at HOC Lab	9 Mo INTERNAL MARKS SUBMISSION; DESIGN DOSSIER WORKSHOP - 5 DAYS	9 Th	9 Sa
10 Sa	10 Mo SEM II EXAMS; BRIDGE TO NATURE COMPETITION PARTICIPATION	10 Th	10 Su	10 Tu First Year Induction day; 75 Architects Exhibition; Emerging visions in Architecture Exhibition	10 Fr	10 Su
11 Su	11 Tu SEM II EXAMS	11 Fr FRIENDSHIP DAY CELEBRATION	11 Mo TENTAIVE ATKT EXAMS	11 We AMRUT KALASH INITIATIVE	11 Sa Diwali Vacation for B.Arch, M.Arch - Sem I and all Faculty	11 Mo
12 Mo HORIZONTAL AND VERTICAL INTEGRATION MEETINGS to happen in this week	12 We SEM II EXAMS; SEM VII SITE VISIT	12 Sa	12 Tu KESHAV CHIKODI - VALUATION LECTURE	12 Th	12 Su	12 Tu
13 Tu PP JURY; PROJECT MANAGEMENT WORKSHOP COMMENCES	13 Th SEM II EXAMS	13 Su	13 We	13 Fr DESIGN DOSSIER WORKSHOP - DAY 5	13 Mo	13 We
14 We	14 Fr SEM II EXAMS; ELECTIVES FORM; CIDCO - AVINASH SHABADE LECT FOR M.ARCH.	14 Mo	14 Th	14 Sa Term Ends for Sem III	14 Tu DIWALI PADWA	14 Th
15 Th	15 Sa	15 Tu INDEPENDENCE DAY	15 Fr Nurturing Nature Activity; CLEAN AIR FOR BLUE SKIES	15 Su	15 We BHAUBIJ	15 Fr
16 Fr	16 Su	16 We PATETI	16 Sa	16 Mo REGULAR EXAMS SEM III, V, VII, IX	16 Th	16 Sa
17 Sa	17 Mo SEM III COMMENCES; ELECTIVES ALLOTMENT	17 Th	17 Su	17 Tu	17 Fr TENTATIVE STUDY TOURS 2ND AND 3RD YR	17 Su
18 Su	18 Tu ARCHITECTURE THROUGH LENS OF GEOMETRY WORKSHOP OF DAYS COMMENCES	18 Fr FITNESS DAY; ENVISAGE COMPETITION PARTICIPATION	18 Mo	18 We	18 Sa	18 Mo
19 Mo	19 We	19 Sa WORLD PHOTOGRAPHY DAY	19 Tu GANESH CHATURTHI	19 Th	19 Su	19 Tu
20 Tu	20 Th	20 Su	20 We TENTAIVE MID-TERM BREAK	20 Fr Vachan Prerana Diwas Celebration	20 Mo COLLEGE REOPENS for Faculty and Sem I, X	20 We
21 We YOGA DAY; INTERNATIONAL MUSIC DAY; THESIS FORUM	21 Fr	21 Mo	21 Th	21 Sa	21 Tu II Year Study Tour - Tirthan Valley Sharchi village	21 Th
22 Th	22 Sa EARTHQUAKE RESISTANT PRACTICES WORKSHOP AT IIT KANPUR	22 Tu	22 Fr	22 Su	22 We	22 Fr
23 Fr	23 Su	23 We	23 Sa	23 Mo	23 Th III Yr Study Tour to Rajasthan	23 Sa
24 Sa	24 Mo	24 Th AKSHAY URJA DIWAS - SHIRGAONKAR LECTURE; IQAC MEETING - REVIEW/PLNG OF ACTIVITIES AND ACADEMICS	24 Su	24 Tu DASARA	24 Fr	24 Su
25 Su	25 Tu	25 Fr ONAM CELEBRATION	25 Mo	25 We Sem VII ARD Jury, Sem III - AD Jury	25 Sa	25 Mo CHRISTMAS
26 Mo MUMBAI PUNE EXPRESSWAY SITE VISIT	26 We	26 Sa WORLD PHOTOGRAPHY DAY - EXPERT LECTURE	26 Tu MARK REVIEW MEETINGS	26 Th Sem VII AD Jury; Sem V AD Jury	26 Su	26 Tu
27 Tu	27 Th	27 Su	27 We COURSE REPORT SUBMISSIONS; MARK REVIEW MEETINGS	27 Fr	27 Mo GURUNANAK JAYANTI	27 We
28 We	28 Fr	28 Mo	28 Th ANANT CHATURDASHI; EID-E-MILAD	28 Sa	28 Tu	28 Th
29 Th BAKRI EID	29 Sa MOHARRAM	29 Tu WOMEN EQUALITY DAY; M.ARCH. MUMBAI VISIT	29 Fr THESIS FORUM; 1st yr commences	29 Su	29 We	29 Fr
30 Fr SEM II ENDS; MINIMUM DWELLINGS COMPETITION PARTICIPATION	30 Su	30 We ROLINS ACOUSTICS LECTURE; BUILDING FAÇADE SYSTEM GUEST LECTURE	30 Sa	30 Mo TENTATIVE DIWALI VACATION	30 Th	30 Sa
	31 Mo	31 Th RAKHI WITH KHAKI; PHOTOGRAPHY COMPETITION RESULTS DECLARATION		31 Tu Sem IX DD Jury		31 Su

PILLAI COLLEGE OF ARCHITECTURE
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MES PILLAI COLLEGE OF ARCHITECTURE

NEW PANVEL

AY 2023-24 Calendar - TERM II

December	January	February	March	April	May	June
1 Fr 2nd yr Study tour returns	**1 Mo New Year's Day**	1 Th Tentative First Year Tour	1 Fr FAREWELL	1 Mo	1 We MAHARASHTRA DIN	**1 Sa**
2 Sa 3rd Yr Study Tour returns	2 Tu SEM I - FORM FILLING	2 Fr WORLD WETLANDS DAY	**2 Sa**	2 Tu MARK REVIEW MEETINGS	2 Th SUMMER VACATION	**2 Su**
3 Su	3 We SEM I UD JURY	**3 Sa**	**3 Su**	3 We	3 Fr	3 Mo COLLEGE REOPENS
4 Mo FACULTY MEETING, TOUR DOCUMENTATION WEEK - II and III yr.	4 Th	**4 Su**	4 Mo KT EXAMS	4 Th	**4 Sa**	4 Tu
5 Tu MENTORS ORIENTATION - STUDENTS' PSYCHOLOGY - YVETTE; UNIV KT Juries	5 Fr	5 Mo 1ST YR TOUR DOCUMENTATION WEEK	5 Tu	5 Fr	**5 Su**	5 We
6 We M.Arch. 6 days Workshop; UNIV KT Juries	**6 Sa**	6 Tu	6 We	**6 Sa**	6 Mo	6 Th
7 Th	**7 Su**	7 We	7 Th	**7 Su**	7 Tu	7 Fr
8 Fr IQAC WORKSHOP; Haemoglobin Testing Follow up camp	8 Mo SEM I EXAMS (B.ARCH AND M.ARCH)	8 Th	8 Fr MAHASHIVRATRI	8 Mo Tentative Univ Sem VI theory exams; ALL SEMESTER EXAMS	8 We	**8 Sa**
9 Sa	9 Tu SEM I EXAMS (B.ARCH AND M.ARCH)	9 Fr	**9 Sa**	9 Tu GUDHI PADVA	9 Th	**9 Su**
10 Su	10 We SEM I EXAMS (B.ARCH AND M.ARCH)	**10 Sa**	**10 Su**	10 We	10 Fr	10 Mo
11 Mo M.ARCH. (UD) WORKSHOP - ASEEM	11 Th	**11 Su**	11 Mo	11 Th RAMZAAN EID	**11 Sa**	11 Tu
12 Tu M.ARCH. (UD) WORKSHOP - ASEEM	12 Fr Cricket	12 Mo MUTATIONS, KINESTHESIA Tentative	12 Tu	12 Fr JURIES	**12 Su**	12 We
13 We TUG OF WAR; M.ARCH. (UD) WORKSHOP - ASEEM	**13 Sa**	13 Tu MUTATIONS, KINESTHESIA Tentative	13 We	**13 Sa**	13 Mo	13 Th
14 Th M.ARCH. (UD) WORKSHOP - ASEEM	**14 Su**	14 We MUTATIONS, KINESTHESIA Tentative	14 Th	**14 Su**	14 Tu	14 Fr
15 Fr M.ARCH. (UD) WORKSHOP - ASEEM	15 Mo MAKAR SANKRANTI, Photo Day	15 Th MUTATIONS, KINESTHESIA Tentative	15 Fr	15 Mo Tentative sem VI Juries; M.Arch. Thesis Juries	15 We RESULT DECLARATION	**15 Sa**
16 Sa	16 Tu Startup Day (Week); M.Arch. Tetris series - Thesis Guest Lecture;	16 Fr MUTATIONS, KINESTHESIA Tentative	**16 Sa**	16 Tu	16 Th	**16 Su**
17 Su	17 We SEM I RESULTS DECLARATION	**17 Sa**	**17 Su**	17 We RAM NAVMI	17 Fr	17 Mo BAKRI EID
18 Mo RESULTS DECLARATION; SEM I MARKS MEETING; 3'O CLOCK STUDIO; SPIRIT WEEK	18 Th Traditional Day	**18 Su**	18 Mo	18 Th	**18 Sa**	18 Tu
19 Tu SPIRIT WEEK	19 Fr ALUMNI TALKS	19 Mo SHIV-JAYANTI	19 Tu	19 Fr	**19 Su**	19 We
20 We SPIRIT WEEK	**20 Sa**	20 Tu	20 We	**20 Sa**	20 Mo	20 Th
21 Th SPIRIT WEEK	**21 Su**	21 We	21 Th	**21 Su** MAHAVIR JAYANTI	21 Tu	21 Fr
22 Fr ALUMNI TALKS; FRESHERS; SPIRIT WE	22 Mo	22 Th	22 Fr	22 Mo Tentative sem X thesis Juries	22 We	**22 Sa**
23 Sa	23 Tu	23 Fr ALUMNI TALKS	**23 Sa**	23 Tu	23 Th BUDDHA POURNIMA	**23 Su**
24 Su	24 We Startup Day	**24 Sa**	**24 Su** HOLI	24 We	24 Fr	24 Mo
25 Mo CHRISTMAS; WINTER BREAK	25 Th 3'O CLOCK STUDIO	**25 Su**	25 Mo DHULIVANDAN	25 Th	**25 Sa**	25 Tu
26 Tu WINTER BREAK	26 Fr REPUBLIC DAY	26 Mo	26 Tu	26 Fr	**26 Su**	26 We
27 We WINTER BREAK	**27 Sa** COMMUNITY SERVICE DAY, UBER RANG	27 Tu MARATHI BHASHA DIWAS	27 We	**27 Sa**	27 Mo	27 Th
28 Th WINTER BREAK	**28 Su**	28 We	28 Th	**28 Su**	28 Tu	28 Fr
29 Fr WINTER BREAK	29 Mo	29 Th	29 Fr GOOD FRIDAY	29 Mo	29 We	**29 Sa**
30 Sa	30 Tu		**30 Sa**	30 Tu	30 Th	**30 Su**
31 Su	31 We		**31 Su**		31 Fr	

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AUG 2023 AGENDA

EVENTS

1st GBM
2nd AMRITKA PANCHA PRAN
3rd FRIENDSHIP DAY
4th FITNESS DAY
5th AKSHAY URJA DIVAS
6th ONAM
7th PHOTOGRAPHY WORKSHOP
8th WOMEN EQUALITY DAY
9th RAKHI WITH KHAKI

Pillai

Anubhuti PICA

PiCA

PiCA Student Council SENATE

INSTITUTION'S INNOVATION COUNCIL

Pillai College of Architecture, New Panvel
UNIVERSITY OF MUMBAI

SUN		6	13	20	27
MON		7	14	21	28
TUE	1	8	15	22	29 (8th)
WED	2	9 (2nd)	16	23	30
THU	3	10	17	24 (5th)	31 (9th)
FRI	4 (1st)	11 (3rd)	18 (4th)	25 (6th)	
SAT	5	12	19	26 (7th)	

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SEP 2023

AGENDA

EVENTS

1st WDC HEMOGLOBIN TESTING & CPR TRAINING

2nd i) INTERNATIONAL DAY OF CLEAN AIR FOR BLUE SKIES
ii) NURTURING NATURE BY NATURE'S CLUB

Pillai

nubhuti PICA

PiCA

PiCA Student Council SENATE

INSTITUTION'S INNOVATION COUNCIL

Pillai College of Architecture, New Panvel
UNIVERSITY OF MUMBAI

SUN		3	10	17	24
MON		4	11	18	25
TUE		5	12	19	26
WED		6 1st	13	20	27
THU		7	14	21	28
FRI	1	8	15 2nd	22	29
SAT	2	9	16	23	30

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DEC 2023

AGENDA

EVENTS

1st TUG OF WAR
2nd SPIRIT WEEK - 18th to 21st
3rd TREASURE HUNT
4th 3'O CLOCK STUDIO
5th BACK TO SCHOOL
6th FRSHERS

Pillai

Srujan PiCA

PiCA

PiCA Student Council SENATE

INSTITUTION'S INNOVATION COUNCIL

Pillai College of Architecture, New Panvel
UNIVERSITY OF MUMBAI

SUN		3	10	17	24
MON		4	11	18 2nd	25
TUE		5	12 1st	19 3rd	26
WED		6	13	20 4th	27
THU		7	14	21 5th	28
FRI	1	8	15	22 6th	29
SAT	2	9	16	23	30

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MES PILLAI COLLEGE OF ARCHITECTURE

TIME TABLE FOR ACADEMIC YEAR 2023-24 - Term I

Day	SEM / TIME	8:30 - 10.10	10:10 - 11.50	11.50 - 12.20	12.20 - 2.00	2.00 - 3.40
MON	3	A D- VRINDA, Moushumi, Gauri, Jayraj, Ashwini, Mahesh K, Rahul			EVS 3 (2) -CLIMATOLOGY- ASHWINI, Sarojini	CP(AUTOCAD)- JAYRAJ, Gauri, Anand, Shital, Moushumi
MON	5	AD-5-(8) - AJITA, Smita, Bhide, Jui, Neha S., Neha D, Tushara			HUMANITIES (3)- SMITA, Mahesh K	
MON	7	AD-7 (8) - RUPALI, Jinu, Avinash, Aditya, Anand, Sayalee, Avishkar			ALLIED DESIGN 7 (Town Planning) - (G 401) - AVINASH, Aditya, Khushpreet, -	
MON	9	AD-8 (8) - SAROJINI, Tanaya, Aarti, Khushpreet, Harshada, Suvarna, Geeta			Allied Design 8 (Urban Design) - SUVARNA, Tushara, Aarti, Sayalee, Harshada	
MON	UD 3	Design Studio II - Harshada, Sasmit			ELECTIVES 1 - REAL ESTATE - Anand	
TUE	3	TOS- Shital, Prashant	ELECTIVE 3: Gegometry in Arch - Neha D		BLDG SERVICES (2) - Neha S, Bhide, Avinash, Ashwini, Tanaya, Suvarna	
TUE	5	AR&D 5 (Qty & Spec) (2+2)- BHIDE	ELECTIVE 5: Architecture, Anxienty and spirituality - Sudnya; Principles & application of bldg sciences - Sarojini, Disaster relief shelter - Suvarna; Project Management - Shringarpure, Vrinda		AR Theory (2) - AJITA	TOS 5 (2+1) - Prashant, Shital
TUE	7	TECHNOLOGY STUDIO (3)- RUPALI, Vrinda, Neha D	TOS 7 (2+1)- Prashant , Shital (G 303)		BLDG CONST 7- (3+1) - RUPALI, Vrinda, Sarojini, Neha D, Prashant, Aarti	
TUE	9	ELECTIVE 8: Arch and Heritage Conservation - Ajita, -; Illustrations as design narrative - Tushara	Professional Practice 2 (3T) - TANAYA, Jui, Aarti		DD1 - ALL	
TUE	UD 3	THESIS 1 - SASMIT, Sudnya, Harshada			Design Studio II (Discussion) - HARSHADA, Sasmit	
WED	3	A D- VRINDA, Moushumi, Gauri, Jayraj, Ashwini, Mahesh K, Rahul			ALLIED DESIGN STUDIO 3 (3)(interior) - SAYALEE, Gauri, Jayraj, Moushumi, Geeta	
WED	5	TOS 5 (2+1) - Shital, Prashant	AR&D 5 (Qty & Spec) (2+2)- Bhide, Shital, Prashant		B.TECH (3+1) - VRINDA, Rupali, Tanaya, Avinash, Sasmit, Neha D, Mahesh K	
WED	7	B.SERV 5 (2+1) (HVAC) - SAYALEE, Sarojini, Suvarna, Neha S, Shirgaonkar			TOS 7 (2+1) - Prashant, Shital	COLLEGE PROJECT - Intro to DD - AJITA, Ashwini
WED	9	DD 1 (1T + 3S) - Ajita			ELECTIVE 9: DD allied research - DD guides / Solar Energy Theory and Application Workshop- Shirgaonkar	
WED	UD 3	Design Studio II (Working) - HARSHADA, Sasmit			UD Research (Working) - Sudnya, Harshada, Sasmit	
THU	3	HUMANITIES (3)- Jinu (G 201), -	AR THEORY (2) - Jinu, -		TECHNOLOGY STUDIO (3) -SASMIT, Jayraj, Geeta	
THU	5	Transportation - Avinash	B. SERV. (2+1)- Elect., Light & Acoustics -TANAYA, Ajita, Jui, Ashwini, Shirgaonkar		COLLEGE PROJECT (WD) - Suvarna, Jui, Sayalee, Neha S, Shirgaonkar	
THU	7	ELECTIVE 7: Digital Tools and Techniques - JAYRAJ, Tushara, Aditya, Vrinda, Prashant			PROF PRAC 1 (3) - Bhide, Tanaya, Harshada	
THU	9	Bldg Serv 6 (1T+1S) - SAROJINI, Geeta, Sayalee, Aarti, Rahul			Environmental Studies 4 (2T+1S) - SAROJINI, Tushara, Ashwini	TOS-8 (1T+1S) - Prashant, Shital
THU	UD 3	DEVELOPMENT FINANCE - Omkar, Aarti			Elective 2- UD SEMINAR (UD Research) - Sudnya	
FRI	3	ARD-GRAPHICS-KEDAR, Sahil, Jayesh			TOS- Shital	Bldg Const. Theory (2)- SASMIT
FRI	5	AD-5-(8) - AJITA, Smita, Bhide, Jui, Neha S., Neha D, Tushara			ALLIED DESIGN STUDIO 5 (LANDSCAPE PLNG) (3)- JUI, Ajita, Ashwini, Khushpreet, Tushara	
FRI	7	AD-7 (8) - RUPALI, Jinu, Avinash, Aditya, Anand, Sayalee, Avishkar			ARD 7 (Bye-laws & Municipal Drgs) (2+3) BHIDE, Suyog, Avinash, Anand, Avishkar	
FRI	9	AD-8 (8) - SAROJINI, Tanaya, Aarti, Khushpreet, Harshada, Suvarna, Geeta			Arch Bldg Const 8- SMITA, Rupali, Tanaya, Suvarna, Geeta (2T+1S)	
FRI	UD 3	Design Studio II (Discussion) - HARSHADA, Sasmit, Sudnya			Design Studio II (Discussion) - HARSHADA, Sasmit, Sudnya	
SAT	UD 3	URBAN BYELAWS - Aarti, Darshetkar			Design Studio II (Working) - Harshada, Sasmit	

PICA - TIME TABLE FOR -Term II : AY 2023-24

		8:30 - 10.10	10:10 - 11.50	11.50 - 12.20	12.20 - 2.00	2.00 - 3.40
Mon	2	B MAT- Ashwini	TOS-Shital		B TECH - SASMIT, Prathamesh, Rupali, Neha D, Snehal, Vrinda	
	4	AD-4 (8)- Vrinda, Jayraj, Moushumi, Rupali, Suvarna, Neha D, Harshada, Gauri			Building Services 2 (2+1) - NEHA S., Bhide, Avinash, Ashwini, Sayalee, Gauri	
	6	AD-6-(8) AJITA, Smita, Bhide, Sarojini, Anand, Neha S, Tushara, Rahul			AR&D 6 (WORKING DRG.) (6)- Sarojini, Suyog, Ajita, Tushara, Anand, Moushumi, Avishkar, Geeta	
	10	* Design Dissertation 2 (16): Tanaya, Sayali, Avinash			COMPULSORY ELECTIVE 10 BIM - Jayraj, Vrinda, Neha D, Prathamesh, Rahul	
	UD 2	Choice based Elective -1 - Urban Conservation - Sasmit			Design Studio II (working)- Sasmit, Aarti	
	UD 4	Thesis II - (working)			Thesis II - (working)	
Tue	2	ARD-GRAPHICS-KEDAR, Sahil, Jayesh, Neha S.			ARD-GRAPHICS-KEDAR, Sahil, Jayesh, Bhide	
	4	ELECTIVE 4 (Earthquake Resistant - Bhide, Shital, Communication Skills - Ashwini, Predesign Studies - Tanaya)	B. TECH 4 (L (3) - SASMIT, Ashwini		B. TECH -4 (3) - SASMIT, Tushara, Ashwini, Shital, Prathamesh, Snehal	
	6	HUMANITIES-6 (3)- Smita, Snehal	ELECTIVE 6 - - Communication & Organization Management): Shringarpure, Vrinda		B.TECH.-6 (3)- Avinash, Rupali, Tanaya, Sayalee, Neha D, Rahul	
	10	EVS 5 (3): SAROJINI, Prashant	Prof Practice 3 - Tanaya, Aarti, Suvarna		Advanced Bldg Construction (2): SMITA, Suvarna, Prashant	
	UD 2	Planning Techniques 1- Sudnya			Compulsory electives -2 (2+0) - Theory of Urban Forms - Harshada, Snehal	
	UD 4	Thesis II - (working)			Thesis II - (working)	
Wed	2	A D- ASHWINI, Jinu, Avinash, Tanaya, Sayalee, Mahesh, Avishkar			B TECH- SASMIT	EVS- TUSHARA
	4	HUMANITIES-4 (3) - Ajita, Neha D	Compulsory elective - Innovation, Ideas and Patenting - Tanaya, Neha D, Prathamesh		ARD 4 (Surveying & Levelling) (4) - SHITAL, Prashant, Avinash, Neha D, Bhide	
	6	B. SERV (Theory)- 4. (3) - Sarojini, Rupali	B. SERV (Studio) - 4 (3) - Sarojini, Neha S, Sayalee, Rupali		Allied Design Studio 6 (Housing Studies) (3)- RUPALI, Geeta, Suvarna, Aarti, Harshada, Omkar	
	10	ARD 8 (6) : Aarti, Geeta, Prashant, Snehal, Shirgaonkar			* Design Dissertation 2 (16): Shubhangi, Sarojini, Sasmit, Vrinda, Snehal, Tushara, Shirgaonkar	
	UD 2	Design Studio II (Discussion) - Sasmit			Design Studio II (Working) - Sasmit	
Thu	2	HUMANITIES- Jinu, Mahesh	TOS- SHITAL		ALLIED Design Studio 6 (Basic Design) (3) Tushara, Jayesh, Mahesh, Avishkar, Ashwini	
	4	COLLEGE PROJECT - VRINDA, Jayraj, Neha D., Prathamesh			ARCH THEORY-2 (2)- Jinu, Mahesh	TOS 4(2+1)- Shital
	6	AR&D 6 (WORKING DRG.) (6)- SAROJINI, Tushara, Suyog, Ajita, Geeta, Avishkar, Shirgaonkar, Prashant			TOS 6 (2+1) - PRASHANT	
	10	Advanced Theories 4 (2): NEHA S., Smita			ARD 8 (6) : AVINASH, SAROJINI, Snehal, Tanaya, Geeta, Shirgaonkar, Gauri	
	UD 2	Research Methodology - Sudnya			Design Studio II (Discussion) - Sasmit, Aarti	
	UD 4	Choice Based electives -1 (0+4) - UD Research - Snehal, Omkar			Thesis II - (working)	
Fri	2	CP- JAYESH, Kedar, Sahil, Sayalee, Mahesh			CP- JAYESH, Kedar, Sahil, Sayalee, Mahesh	ELECTIVES- Elements of Space Making - Suvarna, Painting and Sculpture - Jayesh, Kedar
	4	AD-4 (8)- Vrinda, Jayraj, Moushumi, Rupali, Suvarna, Neha D, Harshada			ALLIED DESIGN STUDIO-4(3) (Interior Design) - Sayalee, Jayraj, Anand, Moushumi, Prathamesh, Geeta	
	6	AD-6-(8) AJITA, Smita, Bhide, Sarojini, Anand, Neha S, Tushara			B. TECH 6 (3) - Avinash, Rupali, Tanaya	COLLEGE PROJECT (Research) - Smita, Ajita, Neha D
	10	* Design Dissertation 2 (16):			* Design Dissertation 2 (16): Smita, Rupali	
	UD 2	Design Studio II (working) - Sasmit, Aarti			Design Studio II (Discussion) - Aarti, Sasmit	
	UD 4	Thesis II (Working)			Choice Based electives -2 (0+4) - UD Seminar - Harshada	
Sat	UD 2	Transportation and Traffic for Urban Design - Ghangurde			Design Studio I - (Working)	
	UD 4	Thesis II			Thesis II	

Format 1

M.E.S.

PILLAI COLLEGE OF ARCHITECTURE , New Panvel

COURSE PLAN

Subject : Building Materials		**Session : 2023-24**	**Year : 1ST YEAR B.ARCH**
Course code: 103	**Credits:** 02	**Semester : I**	**No of Periods per week : 1**
Examination Scheme		**Sessional Marks -** / **Theory Paper**	**Internal : 50** / **External Jury : 00** / **Theory Paper : 00** — **Total Marks 50**

Faculty	Subject coordinator : Prof. Ashwini Bhosale
Faculty team: -	
Prof. Shital Marlapalle	

Course Aim and objective : (Please provide this info for ALL subjects)

Background: -

Building materials are the foundation of architecture, and architects must consider their contextual relevance and properties. Natural and artificial materials have specific applications based on their characteristics. Key properties like strength and thermal qualities play a significant role in material selection. The study also highlights selection criteria, which include technology, aesthetics, socio-cultural relevance, socio-economic factors, and ecological sustainability. These criteria help architects make informed choices that align with the project's context and objectives. In sum, building materials are a critical consideration in architectural design, encompassing the practical and contextual aspects of construction.

Aim:-

To provide students with a comprehensive understanding of building materials, their historical evolution, the basic components of building construction, and the criteria for selecting materials based on technology, aesthetics, ecology, contextual, and climatic factors.

PILLAI COLLEGE OF ARCHITECTURE Dr. K. M. Vasudevan Pillai Campus Sec-16, New Panvel 410 206 INDIA

Objectives:-

- Understand key building materials and their roles.
- Explore historical material evolution.
- Identify and analyze basic materials.
- Evaluate materials based on technology, aesthetics, ecology, context, and climate.
- Apply material selection criteria in real-world design.
- Promote sustainability and interdisciplinary thinking in material choices for architecture.

Process:-

The methods of conducting classes and studios for the Building Materials subject align with the aim and objectives of providing students with a comprehensive understanding of building materials and how they relate to architecture. Here's how each method and its associated tools and techniques support the aim and objectives:

- **Lecture Presentations:** These are used to provide students with the fundamental knowledge of building materials, including their properties, characteristics, and historical context. Visual aids, multimedia, and real-world case studies can enhance students' understanding of these concepts.

- **Group Assignments:** By assigning group projects or case studies, students are encouraged to work collaboratively and apply their knowledge to practical situations. This method promotes interdisciplinary thinking and allows students to evaluate materials based on various criteria, such as technology, aesthetics, ecology, context, and climate.

- **Notes Assignments:** These assignments require students to compile comprehensive notes based on lectures and readings. This helps reinforce theoretical knowledge, ensuring that students understand and remember key concepts and terminology related to building materials. Visual aids and annotations can further enhance the effectiveness of these assignments.

- **Discussions:** Classroom discussions, debates, and case analyses provide a platform for critical thinking and the exchange of ideas. They encourage students to explore the socio-cultural and socio-economic aspects of material selection, helping them understand the broader context of building materials.

- **Site Visits and Site Visit Report Assignments:** Site visits to construction sites, historical buildings, or places with innovative materials enable students to observe materials in real-world contexts. Following these visits, students are required to prepare detailed reports, which connect theory to practice. These reports often include photographs, field notes, and research, enabling students to evaluate materials in different climatic conditions and consider ecological and contextual factors.

Horizontal Integration approach with other subjects in the semester:-
T.O.S. :
Horizontal integration of the Building Materials and Theory of Structures subjects involves aligning the teaching of material properties with structural behavior, analyzing relevant case studies, and exploring the impact of material selection on structural performance. Joint projects, interdisciplinary workshops, and field trips further solidify this connection. This approach enables students to better grasp how materials and structures intersect in architectural design, resulting in more informed and well-rounded architects.

Expected outcomes in terms of students understanding and skills:-

- **Understanding of Building Materials:** Students should have a solid grasp of different building materials, their properties, and applications.
- **Historical Awareness:** They should understand the historical evolution of building materials in architecture.
- **Material Identification and Analysis:** Students should be able to identify and analyze basic building materials.
- **Criteria-Based Evaluation**: They should be capable of evaluating materials based on criteria like technology, aesthetics, ecology, context, and climate.
- **Real-World Application:** Students should be able to make informed material choices in architectural design based on project-specific criteria.
- **Sustainability Focus:** The course aims to instill a commitment to sustainability and eco-friendly material choices.
- **Interdisciplinary Thinking:** Students should develop interdisciplinary thinking, considering social, cultural, and economic factors in material decisions.

The integration of material properties with the Theory of Structures further enhances these outcomes, helping students understand the connection between materials and structural performance in architecture. This holistic knowledge equips them to become well-rounded and informed architects.

Suggested Reading Books/ Links/Research Journals	
S.No.	Name of the reference
1	W.B.Mckay, 'Building Construction', Orient Longman
2	Francis Ching, 'Building Construction & Illustrated', John Wiley, 1991
3	SK Duggal 'Building Materials'
4	Rangwala 'Building Construction'

	List of minimum FIVE Course Outcomes (COs) based on which student's progress will be

	evaluated.
1	To recall and understand the primary materials used in construction and their roles in architectural design.
2	To acquire a comprehensive understanding of building materials with respect to historical influences, technological advancements, aesthetic considerations, Contextual and climatic factors.
3	Enhancing practical knowledge, material awareness, contextual understanding, safety and sustainability awareness, fostering creativity.
4	A pop-up quiz on building materials to assess students' fundamental knowledge, safety awareness, and material selection skills.
5	To develop research, critical thinking, and presentation skills, as well as an understanding of the market dynamics of building materials.

** Please note that for theory subjects:

- Plan at least one assignment per month, each of 10% weightage (total 40%).
- Plan one class test at the end of each month, each of 20% weightage (total 60%).

Teachers may make a few changes in the above suggested pattern, depending upon individual subject requirements.

Course Details :							
Week	**Topic**	**Objectives**	**Date**	**Related Assignments**	**Date of Submission**	**How the lecture or assignment is aligned to which CO and how?**	**Marks weightage %**
1	Introduction to the topic, its importance and relevance in Architecture, history and the timeline of usage of the materials up-to now	To develop research, critical thinking, and presentation skills, as well as an understanding of the market dynamics of building materials.	9/10/2023	Assignment 1: Students are to be divided in a group of 5 and will be doing market study on certain building materials followed by a presentation in the next class.	16/10/2023	CO1,CO2: It actively engages students in recalling and understanding primary building materials used in construction while also emphasizi	15%
2	PowerPoint presentation by		16/10/2023				

	the students ASSIGNMENT 01					ng their roles in architectural design, and it provides a platform for students to demonstrate this understanding through group presentations.	
3	PowerPoint presentation by the students ASSIGNMENT 01		23/10/2023	Assignment 2: NOTES on Types of building materials and their mechanical properties	30/10/2023	CO1, CO2: It supports this CO by exploring material selection's significance, including its influence on design choices and consideration of historical, technological, and contextual factors. This assignment helps students make informed choices in real-world architectural projects,	10%

						directly addressing the CO's goal.	
4	Introduction to the topic Clay and Bricks	Understanding the different types of materials (naturally available materials, their individual properties) and how these elements together contributes to the properties of the bricks and its types. Pop quiz test aims to encourage critical thinking, historical awareness, and effective communication of knowledge while preparing students for further architectural studies.	30/10/2023	Assignment 3: NOTES on: Difference between fly ash bricks, AAC bricks, red bricks. Pop Quiz Test	6/11/2023	C04: the lecture and assignment are aligned by focusing on fundamental knowledge and safety awareness.	10% 5% POP QUIZ TEST
5	Introduction to the topic stones	Introduction to stones, its sizes, types, use.	6/11/2023	Assignment 4: Students are supposed to be divided	20/11/2023	CO3 & CO5: This assignment aligns with various	10%

				into groups and pick any one stone to find out its classification, composition, Images, place of quarry/ finishes or dressed stone images Properties in detail Identifying any structure or elements where Stone is used.		Course Outcomes (CO) by having students research and analyze a specific building stone, enhancing their practical knowledge, material awareness, contextual understanding, safety and sustainability awareness, fostering creativity, and developing research, critical thinking, presentation skills, while also indirectly exposing them to market dynamics of building materials.	
6	**DIWALI VACATIONS (11th November 2023-19th November)**						
7	Review of the case studies ASSIGNMENT 02		20/11/2023	Assignment 5: NOTES on stones and its types.	27/11/2023		10%

8	Review of the case studies ASSIGNMENT 02		27/11/2023	Pop Quiz Test 02	4/12/2023		5% POP QUIZ TEST
9	Introduction to the topic mortar, cement.	To understand the importance if cement/concrete as a binding material, its composition different types of cement.	4/12/2023	Assignment 6: NOTES on cement and concrete, its importance, application in the building industry.	11/12/2023	CO5: It develops research skills by requiring students to gather information about cement and concrete, encourages critical thinking about their significance, incorporates presentation skills through the use of images and sketches, and provides insights into market dynamics by exploring applications and emerging trends in building materials, thereby fulfilling the objectives	10%
10	Introduction to the topic Concrete		11/12/2023		18/12/2023		

						of the course.	
11	SITE VISIT TO H.O.C. CAMPUS MATERIAL LABORATORY.	To serve as an essential component of architectural education by connecting students with the practical aspects of their field, promoting a deeper understanding of materials, and provide hands-on learning.	18/12/2023	Assignment 7:Making a structured report by documenting and observing the different building materials in use, construction techniques employed, safety measures in place, environmental considerations, and any quality control practices. Take photos and detailed notes, recording the date, time, and location. The report should be structured with an introduction, observations, conclusion, and any recommendations, if relevant.		CO3: By offering students a practical experience in construction and enhancing their awareness of different building materials, techniques, and the context in which construction occurs, while also emphasizing safety and sustainability. By documenting and observing these aspects and encouraging creativity through analysis and recommendations, the assignment effectively promotes the	15%

						development of well-rounded knowledge and skills in the field of construction.	
12	FINAL SUBMISSION	8/01/2023					10% ATTENDANCE
13							

Submission guidelines and requirements for students:

- Assignment 1: 15%
- Assignment 2: 10%
- Assignment 3: 10%
- Assignment 4: 10%
- Assignment 5: 10%
- Assignment 6: 10%
- Assignment 7: 15%
- Pop quiz test 1: 5%
- Pop quiz test 2: 5%
- Attendance: 10%

Pillai College of Architecture, New Panvel

HORIZONTAL INTEGRATION MEETING (2023-24)
SEMESTER V

Minutes of the Meeting

Date: 15th June 2023

Time: 01:30 p.m.

Location: College Conference Room

The meeting commenced promptly at 01:30 p.m. in the college conference room with all subject in charges in attendance.

Agenda Item 1: Integration of Subject Content

All subject in-charges were invited to discuss the integration of subject content. Each subject in charge provided insights into how they plan to conduct their respective courses while adhering to the prescribed curriculum and explored possibilities for integrating their subjects with others.

The identified integration possibilities are as follows:

- Architecture Design (AD) + Building Services: It was proposed to integrate acoustical treatment for the mini-theatre within the Building Services subject. This integration will enhance the practical application of acoustics in architectural design.
- Architecture Design (AD) + Landscape: The discussion centered on designing the site plan by incorporating landscape elements within the architectural design. This integration aims to create a holistic approach to architectural projects.
- Architecture Design (AD) + Architectural Theory: The proposal is to include writing the design intent within the Architectural Theory subject. This integration will help students articulate and communicate their design concepts effectively.

Agenda Item 2: Academic Calendar & Overlaps

The meeting also addressed concerns regarding the academic calendar and identified potential overlaps in subject schedules. It was decided that the academic calendar would be reviewed to ensure there are no scheduling conflicts. Any overlaps identified will be resolved promptly to minimize disruption to students and faculty, especially at the end of the semester.

Action Items:

Subject in-charges will collaborate to further develop the integration plans for the identified subjects.

Next Meeting: The next meeting will be scheduled at the end of the semester to discuss if the desired output is achieved.

Pillai College of Architecture, New Panvel

HORIZONTAL INTEGRATION MEETING (2023-24)

SEMESTER V

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New Panvel
410 206.
INDIA

Pillai College of Architecture, New Panvel
HORIZONTAL INTEGRATION MEETING (2023-24)
SEMESTER V

Pillai College of Architecture, New Panvel
HORIZONTAL INTEGRATION MEETING (2023-24)
SEMESTER V

Venue: Conference Room

Date: June 15, 2023

FACULTY	SUBJECT	SIGNATURE
AJITA DEOODHAR	ARCH. DESIGN	
JUI KSHIRSAGAR	ALLIED DESIGN 5 COLLEGE PROJECT	
VRINDA PADHYE	ELECTIVE	
PRASHANT BORGE	TOS	— AB —
SHITAL MARLAPALLE	TOS-5 Theory of Structure	
TANAYA DEKA	BUILDING SERVICES	
SMITA DALVI	Humanities 5	
SHUBHANGI BHIDE	ARD - V	
SUVARNA THAKRE	CP	
SAROJINI LOHOIT	ELECTIVE	
AVINASH SABHAGANI	TRANSPORTATION & CIVICSENSE	

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Mahatma Education Society's
PILLAI COLLEGE OF ARCHITECTURE
Dr. K.M. Vasudevan Pillai Campus, Sector 16, New Panvel, Mah. India 410 206.
Tel.: 022 2745 6100 /2745 1700 / 27481764 Fax: 022 2748 3208
WEB SITE : www.pica.ac.in Email:pica@mes.ac.in, pica.panvel@gmail.com

Date: 15th June 2023

CONSTITUTION OF ACADEMIC MONITORING COMMITTEE FOR THE AY 2023-2024

The Academic Monitoring Committee for academic year 2023-2024 has been constituted as per the following details. The committee is to address the tasks of formulating strategies for effective monitoring of curriculum delivery, objectives and outcomes.

Sr. No	Name	Designation	Position	Mobile Number	E-mail ID
1	Dr. Smita Dalvi	Professor	Chairperson	9969664859	smitadalvi@mes.ac.in
2	Dr. Sudnya Mahimkar	Principal	Member secretary	9969168272	sudnyamahimkar@mes.ac.in
3	Prof. Sasmit Acharekar	Associate Professor	IQAC Coordinator	9819573108	sasmita@mes.ac.in
4	Prof. Harshada Katkar	Associate Professor	M. Arch coordinator	8380074745	harshadakatkar@mes.ac.in
5	Prof. Sanjay Shirgaonkar	Professor	Design Chair	9082041745	sanjayshirgaonkar@mes.ac.in
6	Prof. Sarojini Lohot	Professor	Faculty Member	9890946152	slohot@mes.ac.in
7	Prof. Rupali Vaidya	Associate Professor	Faculty Member	9819948979	rupalivaidya@mes.ac.in
8	Prof. Ajita Deodhar	Associate Professor	Faculty Member	9819168033	ajitadeodhar@mes.ac.in
9	Prof. Vrindha Padhye	Assistant Professor	Faculty Member	9820811619	vrindapadhye@mes.ac.in
10	Prof. Ashwini Bhosale	Assistant Professor	Faculty Member	9820540690	ashwini.patil@mes.ac.in

15/06/2023

Dr. Sudnya Mahimkar
Principal & Member Secretary

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Dr. Smita Dalvi
Chairperson

PRINCIPAL
PILLAI COLLEGE OF ARCHITECTURE
Dr. K. M. Vasudevan Pillai Campus,
10, Sector-16, New Panvel-410 206

MES Pillai College of Architecture, New Panvel

Curriculum Planning & Implementation Committee
Academic Monitoring Committee

Date: 13 April 2023

NOTICE

A joint meeting of the above two committees will take place as per following details and agenda. The members are requested to be present for the same.

Date 20 April 2023
Time: 2.30 to 3.30 pm
Venue- Conference Room, 2nd Floor

Agenda:

1. Holding of workshops for discussing academic planning for Term I of A.Y. 2023-24.
2. To deliberate upon curricular activities during the next term.
3. To deliberate on academic review of A.Y. 2022-23

Prof. Smita Dalvi
Prof. Sudnya Mahimkar
Prof. Jinu Kurien
Prof. Tanaya Deka
Prof. Aarti Mankame
Prof. Jui Chougule
Prof. Shital Marlapalle
Prof. Avinash Sabhagani
Prof. Sarojini Lohot
Prof. Sasmit Acharekar
Prof. Rupali Vaidya
Prof. Ajita Deodhar
Prof. Vrinda Padhye
Prof. Ashwini Bhosale

PILLAI COLLEGE OF ARCHITECTURE

MES Pillai College of Architecture, New Panvel

Curriculum Planning & Implementation Committee
Academic Monitoring Committee

Minutes of the Meeting
Date 20th April 2023
Time 2.30 to 4.00 pm
Venue- Conference Room, 2nd Floor

Members Present :
Chairperson -Prof. Smita Dalvi
Secretary -Prof. Sudnya Mahimkar
Member -Prof. Jinu Kurien
Member -Prof. Tanaya Deka
Member -Prof. Aarti Mankame
Member- Prof. Sarojini Lohot
Member -Prof. Shital Marlapalle
Member -Prof. Avinash Sabhagani
Member- Prof. Sasmit Achrekar
Member- Prof. Ajita Deodhar

Agenda:

Agenda:
1. Holding of workshops for discussing academic planning for Term I of A.Y. 2023-24.
2. To deliberate upon curricular activities during the next term.
3. To deliberate on academic review of A.Y. 2022-23

Minutes of the meeting

- The previous MOMs was reviewed by Prof. Smita Dalvi for actions taken in the last academic year, 2022-23.
- The IQAC workshop to be held in the first week of June 2023, on 9th June.
- The workshop will have an annual exhibition for all semester Architectural Design which will be conducted at Ground floor studio. Representative work at 3 levels – excellent, good and fair to be displayed from all semesters. This will enable a better appraisal of the quality of academic work produced in the college in the year 2022-23.
- In the second half of 9th June workshop, AD studio teams for the first half of 2023-24 will present the studio briefs of their respective semesters.
- Jurors feedback and student feedback should also be discussed in the workshop.

SM

PILLAI COLLEGE OF ARCHITECTURE

- Prof Jinu Kurien volunteered to make a presentation during the workshop on architectural design components.

- The exam section and Ms. Radhika Sathe, the exam clerk, were instructed to circulate all declared results with faculty email group. Result analysis is also to be prepared for the benefit of this committee. Over all analysis of students CGPA & percentage should be done based on their final results to check for any disparity.

- MIS to be incorporated in the system from next academic year i.e. 2023-24.

- The college project, Allied Design & electives have been discussed briefly but it needs a detail discussion on how we want to go about it in near future and what would be the larger objective we want to achieve as a college.

- Dr. Mahimkar informed that college projects from semester 3 onwards will have the theme of digital tools and techniques in architecture.

- Value added courses such as Graphic design, Ui/ Ux, Furniture Design etc can be added in the academic year to make the students aware about current trends in the industry.

- The next academic year calendar's base will be prepared by Dr. Sudnya Mahimkar. Co-curricular and extra-curricular events & workshop will be updated later on by everyone.

- The meeting ended with the vote of thanks by the secretary.

27/4/2023

SEM III (SECOND YEAR) B.ARCH 2023-24

Defaulters List - 17th July 2023 - 31st August 2023

In case of NO DEFAULTERS please mention it in your subject column.

			AD	ALLIED DESIGN	BUILDING CONST.	BUILDING SERVICES	EVS	TOS	HUMANITIES	ARCH THEORY	ARD	COLLEGE PROJECTS	ELECTIVE
			VRINDA	SAYALEE	SASMIT	SHUBHANGI BHIDE	ASHWINI	SHITAL	JINU KURIAN	JINU KURIAN	KEDAR	JAYRAJ	NEHA D.
1	2022PA0070	ACHARYA AISHWARYA CHANDRAKANT				D					D	D	
2	2022PA0008	AMDOSKAR GANESH RAJENDRA	D					D			D		
3	2022PA0012	BIDKAR VED PRADOSH		D								D	
4	2022PA0088	BIRLA SAYLI MANOJ	D		D		D				D	D	
5	2022PA0034	BOTHRA BHAVIN JITENDRA	D		D						D	D	
6	2022PA0053	BOTTA HARINI RAVI	D				D				D	D	
7	2022PA0059	DALANE RUTUJA DATTUJI											
8	2022PA0044	DALVI RADHIKA SURESH									D		
9	2022PA0075	DASALE UNNATI PRAKASH									D		
10	2022PA0029	DESHMUKH MAHASHANA SANDEEP	D	D		D					D	D	
11	2022PA0042	DESHMUKH RITESH			D						D		
12	2022PA0040	DEVDA YASH MOHAN											
13	2022PA0067	DHAMAL PREM NANDKISHOR											
14	2022PA0014	DHOPAVKAR LEENA AMIT											
15	2022PA0060	GANGOTRI PARMESHWAR SHIVAJI	D	D	D	D	D	D			D	D	
16	2022PA0017	GAURI DEVARSH PREM	D			D					D	D	
17	2022PA0064	GHARGHE GRISHMA NAGORAO	D					D					
18	2022PA0051	GONDHALI RUDHRANI AMIT									D		
19	2022PA0020	HEMJITH ANCHAL											
20	2022PA0024	INGALE RUTUJA RAMESH											
21	2022PA0032	JAISON SAMUEL	D	D	D	D	D				D		D
22	2022PA0036	JOSHI JAY PRAMOD	D	D	D		D	D			D		D
23	2022PA0054	KADAM BHAKTI TUKARAM										D	
24	2022PA0068	KADAM MANTHAN BALWANT									D		
25	2022PA0035	KALE YASH DEVIDAS	D					D			D	D	
26	2022PA0028	KATHIRIYA RUSHIL HEMANT	D								D		
27	2022PA0066	KEDARI SHUBHAM PRAVIN	D	D	D	D		D			D	D	D
28	2022PA0077	KHAN TARANNUM RASHID	D		D		D				D	D	

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29	2022PA0063	KOLI PRATHAMESH KISHOR									D		
30	2022PA0018	KOLI SUJAL RAVIRAJ									D		
31	2022PA0023	KOTARKAR SUSAN SURENDRA											
32	2022PA0015	MALI SANIT KAILASH	D	D		D	D				D		
33	2022PA0062	MANKUMBARE SHRAWANI ANKUSH	D								D		
34	2022PA0027	MHATRE RUTUJA DEEPAK											
35	2022PA0083	MITTAPELLY SAITEJA NELAVENDHAR	D								D		D
36	2022PA0049	MORE MOHIT SACHINDRA	D					D			D		
37	2022PA0026	MORE PRACHI SUNIL									D		
38	2022PA0057	MORE SAI RAJENDRA	D		D			D			D	D	
39	2022PA0084	NAGPAL JOSHNA MUKESH	D		D						D	D	
40	2022PA0080	NAVALE SUROMAYI ROHDAS										D	
41	2022PA0019	PATIL HIRAL VILAS											
42	2022PA0030	PATIL KANIKA VIJAY	D	D		D					D		
43	2022PA0039	PATIL KOMAL KRISHNA									D		
44	2022PA0031	PATIL NAMRATA SAHADEV	D	D		D					D	D	
45	2022PA0085	PATIL PRANJAL MOTILAL									D		
46	2022PA0016	PATIL SANSKRUTI UDAY									D		
47	2022PA0058	PATIL SHRUTIKA GORAKHNATH											
48	2022PA0052	PEDNEKAR PARTH PRAMOD											
49	2022PA0055	PINTO ALAN WILLIAM											
50	2022PA0061	PORE SHARADA ANANTA									D		
51	2022PA0011	RAJASEKARAN TAARIKA									D		
52	2022PA0050	RAO TANAYA SANTOSH	D	D							D		
53	2022PA0081	REHMANI SHAHARBANU SALIM			D	D		D			D		
54	2022PA0090	REPAL DIKSHA SASHARATH	D										
55	2022PA0078	SARKAR PIYALE BIMAL	D		D	D	D	D			D	D	
56	2022PA0047	SARMALKAR SUCHII SACHIN	D					D			D	D	
57	2022PA0043	SHAH MAHI BHAVESH									D		
58	2022PA0073	SHELAR CHAITANYA DEEPAK						D			D	D	
59	2022PA0069	SHRIWARDHANKAR JANHAVI MANGESH	D	D	D	D	D	D			D	D	D
60	2022PA0037	SINGH SHANU PRADEEP									D		
61	2022PA0048	SONAR PRATHAM ANIL	D	D	D		D	D			D		
62	2022PA0013	SULE MRUNMAYEE YOGESH									D		

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63	2022PA0025	SURYAWANSHI SATYAJEET SHIVAJI						D			D		
64	2022PA0065	TALMALE SHREYA DEVENDRA	D	D	D	D	D				D	D	
65	2022PA0056	TAMHANKAR ESHA SUDHIR	D	D		D					D	D	D
66	2022PA0074	TANDEL NISHANT JAGDISH			D								
67	2022PA0041	TAWDE YUTIKA SUSHIL											
68	2022PA0072	THAKKAR JAYANT HARISH	D					D			D	D	
69	2022PA0022	WAKODE PRERNA VIDYANAND	D								D		
70	2022PA0082	YUSUGADE PRACHETA PRASHANT	D			D	D				D		
71	2021PA0085	KADU DEVRAJ GANESH	D	D	D			D			D		
72	2021PA0083	MORE ATHARV RAJESH	D	D	D	D		D			D	D	D
73	2021PA0076	CHAVAN SAKSHI HEMANTKUMAR	D	D	D	D	D	D			D	D	D
74		PATIL TANMAY									D	D	

Pillai College of Architecture, New Panvel
MARKS REVIEW MEETING (2024-25)
SEMESTER V

MINUTES OF THE MEETING

Date: 04st October 2024
Time: 01:10 p.m.
Location: Conference Room

Agenda:

- Review of Final Marks for Semester 5
- Discussion on Defaulter Students
- Consideration of Extensions and Assignments for Defaulters
- Identification of Final Defaulters

The meeting commenced at 1:10 p.m. in the college conference room.

Each subject in-charge presented the compiled marks for their respective subjects. The status of all subjects was discussed, highlighting areas of concern, particularly defaulter students.

Discussion on Defaulter Students

Emphasis was placed on identifying students who had failed more than one subject due to irregular attendance and lack of participation but had the potential to achieve the desired outcome if given a chance. It was approved to address the defaulter students and provide them with an opportunity to improve their grades.

Consideration of Extensions and Remedial Marking

An extension was proposed for defaulter students to clear their subjects. Defaulter students must submit the assignments given by the respective faculty members within a specified time frame. The class in-charge will prepare a notice stating the remedial marking dates along with the list of defaulters and circulate it to the students.

Identification of Final Defaulters

Students who had not attended college throughout the semester and failed more than two subjects with poor academic records were identified as final defaulters. It was unanimously decided that these students would not be given another chance to clear their subjects, considering the extent of their academic deficiencies and lack of commitment.

All subject faculty members are requested to submit final internal marks to the exam department by 7th October 2024. The exam department will prepare and release a list of final defaulters and share it with the students before the commencement of the final exams.

Action Items:

- Subject in-charges to assign remedial work for defaulters.
- Subject in-charges to update the spreadsheet of compiled marks for Semester 5.
- Subject in-charges to submit revised marks to the exam department.

Pillai College of Architecture, New Panvel

MARKS REVIEW MEETING (2024-25)

SEMESTER V

PILLAI COLLEGE OF ARCHITECTURE
Dr. K. M. Vasudevan Pillai Campus
Plot No. 10, Sector-16,
New Panvel
410 206
INDIA

Pillai College of Architecture, New Panvel
MARKS REVIEW MEETING (2024-25)
SEMESTER V

Mahatma Education Society's

PILLAI COLLEGE OF ARCHITECTURE

Dr.K.M.Vasudevan Pillai Campus
10, Sector-16,New Panvel.

Attendance Sheet
of
Internal Marks Review Meeting of Sem 5 AY 2024-25

Date: 04.10.2024

Sr.No.	Subject Name	Faculty Name	Sign
1.	ELECTIVE (PM.)	Neha Deshpande	Neha
2.	TOS V	Shital V. Matlapalle	Shital
3.	ARD	Shital V. Matlapalle	Shital
4.	ALLIED DESIGN (LANDSCAPE)	JUI V CHOUGHULE	04.10.2024
5.	ARCH. BLDG. SERVICES IV	JUI V CHOUGHULE	04.10.2024
6.	College Project (W.D.)	Suvarna Thakare	S.Thakare
7.	Electives.	Sarajrao Lohot	Lohot
8	505 Humanities 5	Smita Dalvi	
9	501 AD	Ajita Deodhar	
10	Principal.	Sudhyo Mahimbare.	

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Ajita Deodhar <ajitadeodhar@mes.ac.in>

MOM of Marks Review Meeting of Semester 5_AY 2024-25

1 message

Ajita Deodhar <ajitadeodhar@mes.ac.in> Mon, Oct 14, 2024 at 4:33 PM
To: Smita Dalvi <smitadalvi@mes.ac.in>, Sarojini Lohot <slohot@mes.ac.in>, SNEHAL SHIRISH GHAG <snehalghag@mes.ac.in>, Shital Marlapalle <m.shital@mes.ac.in>, "NEHA S. DESHPANDE" <nehadeshpande@mes.ac.in>, Suvarna Thakre <suvarnathakre@mes.ac.in>, Jui Choughule <juichoughule@mes.ac.in>
Cc: "Dr. Sudnya Mahimkar" <sudnyamahimkar@mes.ac.in>

Dear All,

Please find attached the PDF for the Minutes of the Meeting (MOM) of the Marks Review meeting held on 4th October 2024 for Semester 5.
Thank you.

Best regards
Ajita Deodhar
Associate Professor
Pillai College of Architecture (Mumbai University)

PiCA Website | MES Website

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Marks Review Meeting 04.10.24.pdf
449K

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Dr. K. M. Vasudevan Pillai Campus
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Format 2

PILLAI COLLEGE OF ARCHITECTURE, NEW PANVEL

Term I - AY 2023 - 24 - Sem: 7

Subject: ARCH. DESIGN.

Professor/s

Date	Topics Covered in Lecture	Assignment introduced	Assignment Submitted	Students' Signature	
05.06.23	INTRODUCTION TO THE STUDIO	SOCIAL HOUS. CASE STUDY,		[signature]	[signature]
09.06.23	NO CLASS				
12.06.23	SITE VISIT (CHEMBUR)			[signature]	[signature]
16.06.23	DISCUSSION ON CASE STUDIES.			[signature]	[signature]
19.06.23	DISCUSSION ON SITE DOCUMENTATION.			[signature]	[signature]
23.06.23	PRESENTATION OF CASE STUDIES (SOCIAL HOUSING)			[signature]	[signature]
26.06.23	DRAFT PRESENTATION & DISCUSSION ON SITE ANALYSIS.			[signature]	[signature]
03.07.23	SITE ANALYSIS DOCUMENTATION.			[signature]	[signature]
07.07.23	STUDY VISIT.			[signature]	[signature]
10.07.23	SUMMARIZING DESIGN AEROBICS.			[signature]	[signature]
14.07.23	MODULE ON UNIT DESIGN.			[signature]	[signature]
17.07.23	PROGRAM INTRODUCTION.			[signature]	[signature]
21.07.23	GUEST LECTURE			[signature]	[signature]
24.07.23	CASE STUDY MARKING			[signature]	[signature]

[signature]

Format 2

PILLAI COLLEGE OF ARCHITECTURE, NEW PANVEL

Term - AY 2023-24 - Sem: 7

Subject: ARCHITECTURAL DESIGN

Professor/s: PROF. RUPALI VAIDYA

Date	Topics Covered in Lecture	Assignment introduced	Assignment Submitted	Students' Signature	
31.07.	DISCUSSION ON UNIT DESIGNS/ORGANIZATIONS.			[signature]	[signature]
04.08	" "			[signature]	[signature]
07.08	MARKING FOR UNIT DESIGNS. "			[signature]	[signature]
11.08	DISCUSSION ON SCHEMATIC LAYOUT.			Pathak	Ishita
14.08	~~CROSS~~ INDIVIDUAL GROUP JURY. (MARKING)			[signature]	DShinde
18.08	DISSCUSSION. ON PARKING LAYOUTS.			vaidehi	[signature]
21.08	INDIVIDUAL GROUP DISCUSSIONS.			[signature]	[signature]
25.08	CROSS JURY (SCHEMATIC LAYOUT, UNIT PLANS).			[signature]	[signature]
28.08	↓			DShinde	DShinde
01.09	REJURY. (SATISFACTORY WORK NOT DONE EARLIER JURY.)			[signature]	[signature]
04.09	PRESENTATION. ON GENERATING FORMS & ARTICULATION.			DShinde	[signature]
08.09	DISCUSSION ON DESIGN EXERCISE ON FACADES.			[signature]	DShinde
11.09.	DISCUSSION IN INDIVIDUAL GROUPS.				

Format 2

PILLAI COLLEGE OF ARCHITECTURE, NEW PANVEL

Term I / II - AY 2023-24 - Sem: 7

Professor/s: PROF RUPALI VAIDYA.

Subject: ARCHITECTURAL DESIGN.

Date	Topics Covered in Lecture	Assignment introduced	Assignment Submitted	Students' Signature	
				[signature]	[signature]
15.09	DISCUSSION OF SCHEMATIC DRAWINGS.			[signature]	[signature]
18.09	C R O S S J U R Y.			[signature]	[signature]
22.09	DETAIL DRAWINGS			[signature]	[signature]
25.09	DETAIL DRAWINGS.			[signature]	[signature]
29.09	DETAIL DRAWINGS.				

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[signature]

Format 4

M.E.S.

PILLAI COLLEGE OF ARCHITECTURE , New Panvel

C O U R S E R E P O R T

Subject – Allied Design		**Term:I**	**AY:2023-24**	
Course Code:BARC 302	**Credits : 4**	**Semester:III**	**No of Periods per week :4**	
Total Marks: 100	**Internal :100**	**External :00**	**Theory Paper :**	**nil**

Faculty:	Subject coordinator :Sayalee Kulkarni Team Members: Profs. Jayraj Ghatge, Moushumi Kulkarni, Gauri Damle

Attach Following documents:

Photographs of students work wrt each assignment
Format 12 - SWD ppt in given format - 2 best works and 4 average works of each assignment
Students attendance of semester scanned
Format 3 -Topics Covered format scanned

INTRODUCTION:

Methodology (All the following points must be addressed in ALL subjects)

Aim: To introduce Interior design subject to the students and develop a thorough understanding of Interior environment, human comfort and interior planning. The intent is to treat the subject with clarity, and make it as accessible as possible and stimulate further in depth study and research

Objectives:-

To enhance the creativity, imagination and innovation through various elements of Interior design
To study and analyze the interior of ones home, where an individual experiences most of his comfort
To inculcate the connection between human needs, activities, spatial characteristics, human response to the interior, ergonomics, and furniture design
To get an understanding on the interior materials and overall material palette.
To understand the basics of space planning.

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To generate interior design drawings with an understanding of the depth of detailing required.

PROCESS: (Please elaborate pointwise)

1. **Please explain the methods of Conduction of classes and studios wrt aim and objectives.**
   The subject aims to improve the creativity and imagination of the students while designing the interior spaces of their home in an innovative way. it helped students understand the connection between human needs, activities, spatial characteristics, human response to the interior, ergonomics, furniture design and various other aspects of interior designing as well. The exercises induced helped students understand the basics of space planning through the design development process. This improved their theoretical knowledge as well as their technical thinking. The students got to know the current market trends of materials and their costs as the students were engaged in the market study through market surveys. They got to decide on the colour and material palette to implement in their designs.

2. **Tools and techniques used for course conduction.**
   the introductory topics were discussed with the students through powerpoint presentations in which reference images were shown to the students related to the topic. the detaining that is required in interior design drawings was shown to the students by drafting them on the board. the students were made to interact with the class through presentation to share their market survey studies

3. **Which are the innovative approaches adopted in this semester?**
   The studios were mostly in the form of working studios where students were made to work in class to get utmost output with an understanding of the subject. The students were able to clarify their doubts in the studio itself, which ultimately boosted the work speed. The idea of having more of working studios actually helped in completing the design projects well within the stipulated time as per the schedule.

4. **Explain the approaches used to encourage library usage by students and faculty.**
   The students were introduces an assignment in which they had to measure the furniture at their residing homes and compare them to the standard sizes. The standard sizes were asked to derive, referring the books from library the list of reference books was shared with the students during the class.

5. **How and to what extent, the aim and objectives are achieved.**
   The objectives of the course were set in a way that students are able to understand analyse and design their home interior in a very creative and innovative way. the objectives were well achieved as the students were able to understand the importance of interior design and could design a space keeping in mind its function as well as make it aesthetically appealing. They were able to analyse their furniture at home w.r.t. the standard sizes required to achieve comfort related to human activities. They were able to know the

current market trends and applied them to their design.

6. **Extent of horizontal and vertical integration achieved.**
   the subject was vertically integrated to their Architectural design exercises where the students study ergonomics. the anthropometrical study was related to the furniture in the house and their relation to the space planning. horizontally the subject was integrated with the college project where the students drafted their interior plans in autocad as an introductory exercise of the students to autocad.

7. **Extent of adherence to the Course Plan and schedule of submission prepared before the course started**.
   The entire program for the course conduction is planned before hand in order to avoid any collation with major submissions or major events that are expected in the semester. The schedule was very much followed by the students as well as the faculties except for the pre final and final submissions as students demanded for the extended submission time for their final submissions.

8. Explain with the help of each assignment and students work.

9. **Scope for improvement in future (next year).**
   Interior design has a very vast array of perceptions, opinions and options. however a very practical approach to the subject would help students understand how the interior design projects work. the students need to posses the skillset that would lead them to employability once they are out from the academics. inculcating the practical approach in teaching is the need while planning the next term of interior design.

10. **Mention if any guest lectures, site visits or workshops conducted under this subject to increase general or focused understanding of the subject.**
    No site visits and guest lectures were conducted in this semester.

Course Plan Submitted v/s completed				
Subject:			Course Code	
Faculty:				
WEEK	**TOPIC TO BE COVERED**	**ASSIGNMENT**	**Adhered to the schedule or not**	**Which COs are aligned to each lecture and assignment**
1	**Introduction to Interior design, project introduction**	**User study and analysis**	**yes**	
2	**Space planning introduction, std. furniture sizes of the furniture at home.**	**Library study**	**yes**	
3	**Market survey on materials**	**Ppt. on the collected materials and sample display**	**yes**	
4.	**Plans with material incorporation**	**Working studio**	**yes**	
5,6	**Design development**	**Working studio**	**yes**	
7,8,	**Sectional elevations**	**Working studio**	**yes**	
9	**Prefinal submission**		**late**	
10	**Prefinal submission**		**yes**	
11	**Final submission**		**yes**	

How COs are aligned to each lecture and assignment and assess the outcomes wrt the same: (Explain in detail)

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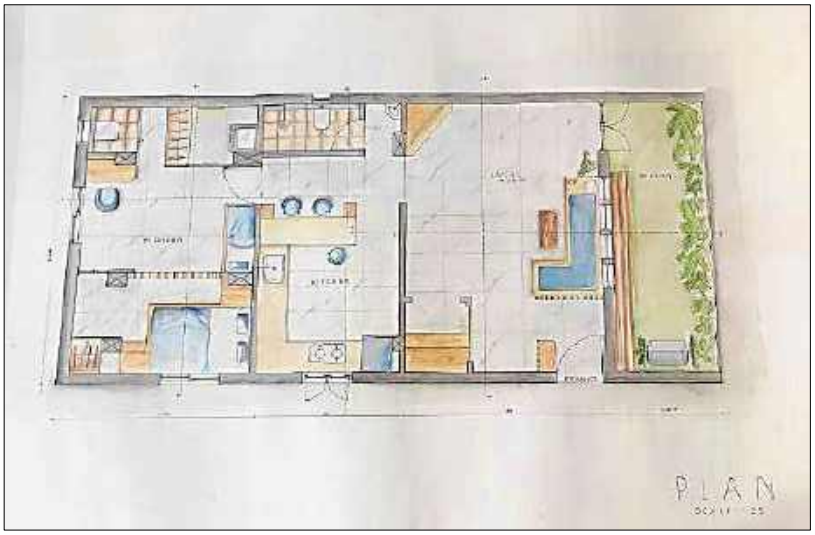
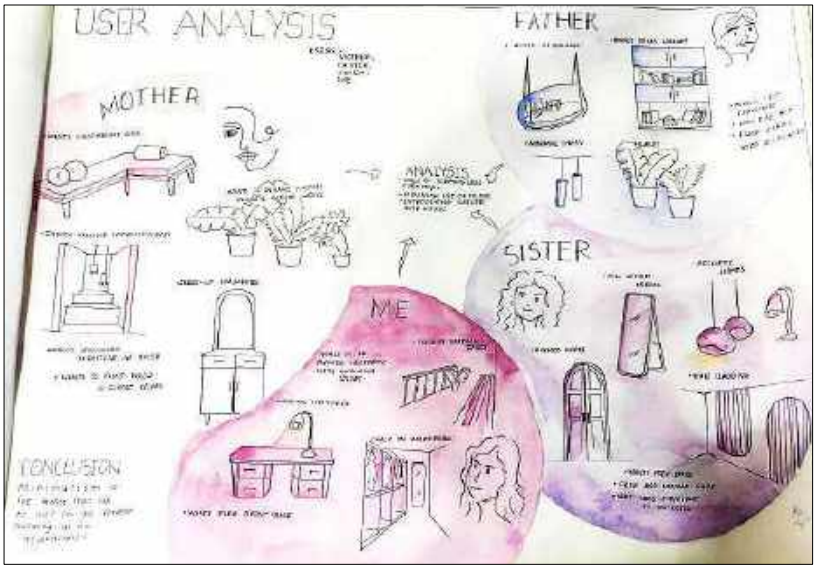
Course Outcomes	
At the end of this course, students will be able to	
CO1:	students know the importance of interior design and how they can make a space functional as well as aesthetically appealing as per the user requirement.
CO2:	students are able to study and analyse the standard sizes of the objects that are in a space and their relation with the space as well.
CO3:	students know the current market trends of interior materials
CO4:	students can plan the internal spaces through understanding of space planning.
CO5:	students can generate the drawings with details as required for interior design working drawings.

Topics Covered		Sub-Topics/ Chapters covered	COs	Total Weight
1	introduction to interior design and space planning.	presentation on how to plan living rooms, kitchens, bedrooms in diffrent ways of furniture arrangements	CO1	20%
2	user study	to study the requirements of all the users in the home and analysing them	CO1	20%
3	standard sizes and existing sizes	study the actual sizes of the furniture room wise in the house and their standard sizes referring the books in	CO2	10%
4	market survey	introduction to various types of materials available in market for various interior designing purposes.	CO3	10%
5	conceptualizing the designs	decide the theme of the design as per the user requirement and user analysis	CO4	20%
6	plans	prepare the detail plans as per the final concept	CO5	20%
7	sectional elevations	prepare the detail sectional elevations		20%

IMAGES OF STUDENTS WORK (EACH ASSIGNMENT) TO EXPLAIN THE ACHIEVEMENTS TO BE COMPOSED BY IN-CHARGES IN THE PPT - FORMAT 12.





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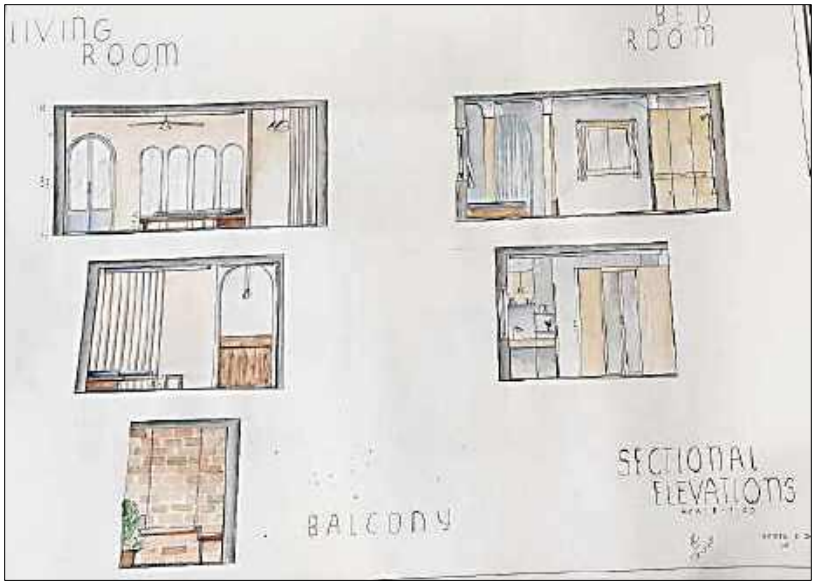

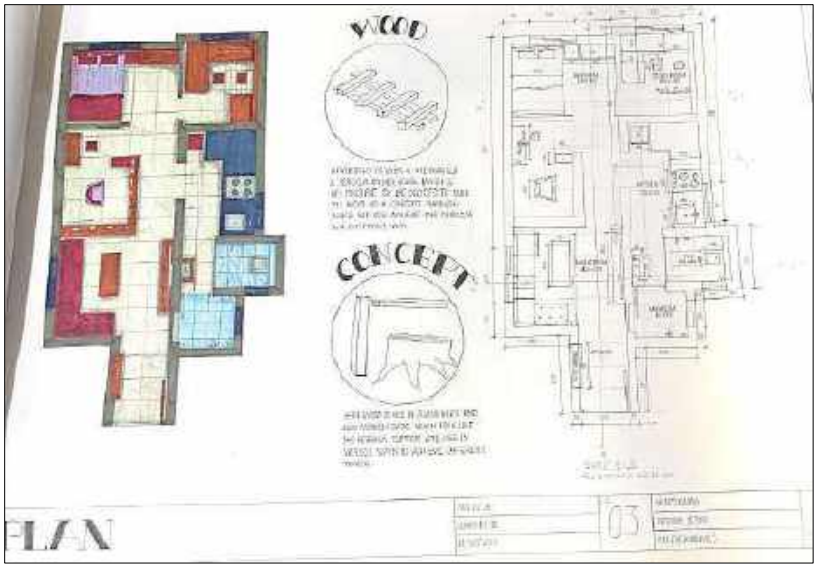

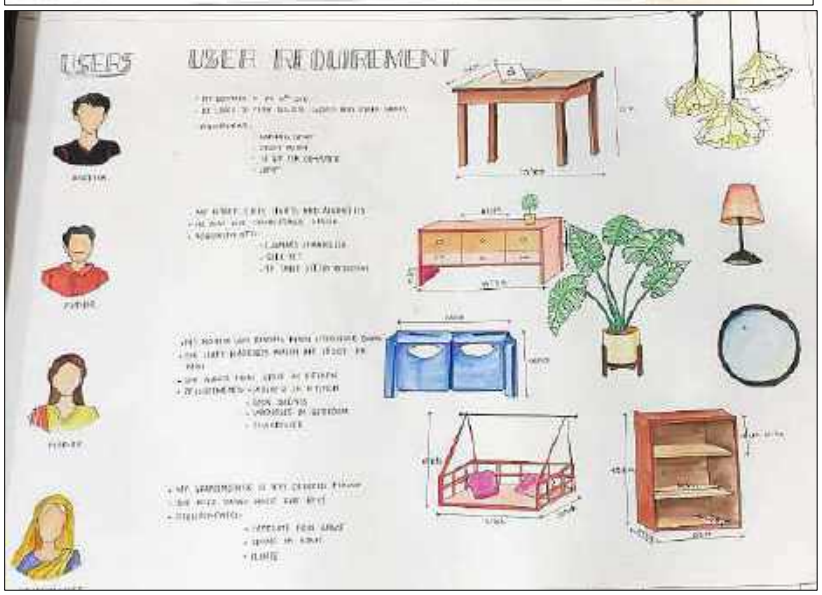

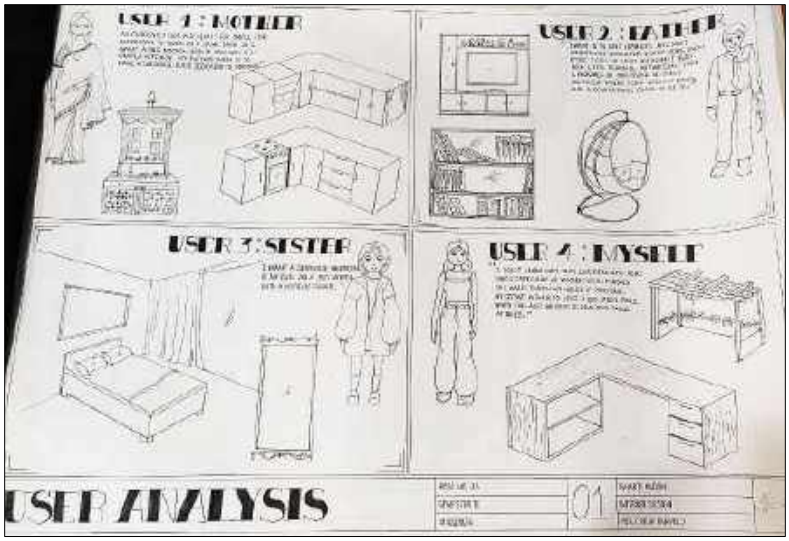

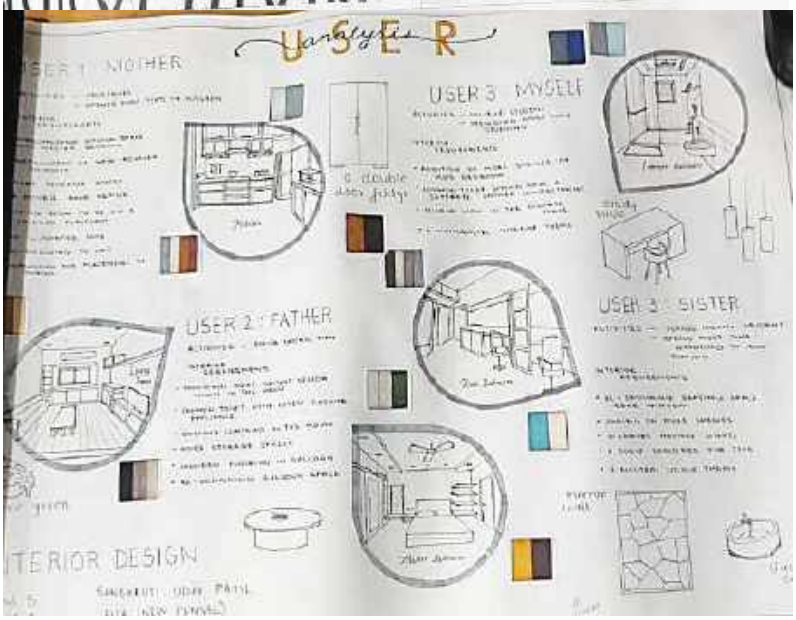

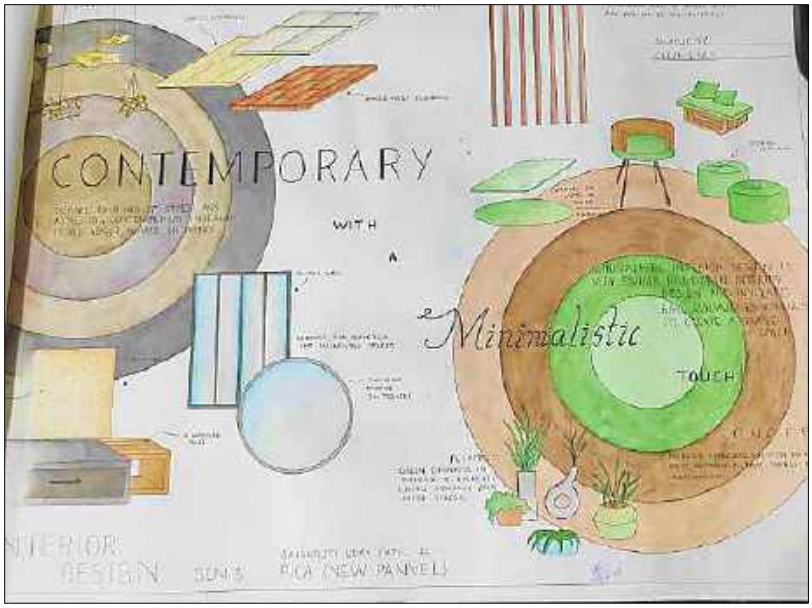

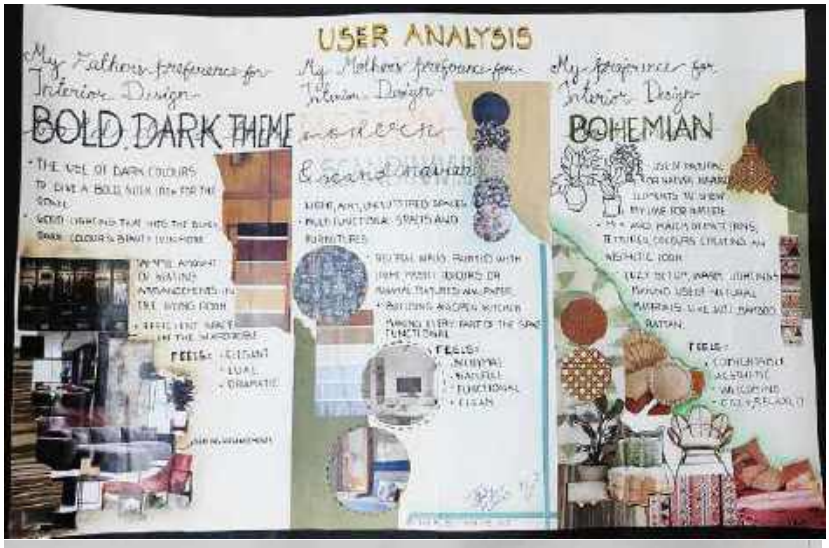

MAHATMA EDUCATION SOCIETY'S

PILLAI COLLEGE OF ARCHITECTURE,New Panvel

RESULT ANALYSIS -B.ARCH STUDENT DETAILS OF AY 2023-24

CATEGORIES	2023-24		Percentage of Passed students
	Students Appeared	Students passed out in semester wise	
Sem I	67	42 JAN 2024	**62.69**
Sem II	62	46 APR 2024	**74.19**
Sem III	65	51 OCT 23	**78.46**
Sem IV	57	52 APR 2024	**91.23**
Sem V	55	41 OCT 23	**74.55**
Sem VI	68	54 APR 2024	**79.41**
Sem VII	50	48 OCT 23	**96.00**
Sem VIII	58	58 JUNE 24	**100.00**
Sem IX	73	71 OCT 23	**97.26**
Sem X	73	71 APR 24	**97.26**
AVERAGE			85.10

Sem X = Final Year

Abbreviation:UOM =University of Mumbai

Entered By Verified By Principal

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MAHATMA EDUCATION SOCIETY'S

PILLAI COLLEGE OF ARCHITECTURE,New Panvel

RESULT ANALYSIS -M.ARCH (Urban Design) STUDENT DETAILS OF AY 2023-24

CATEGORIES	2023-24		Percentage of Passed students
	Students Appeared	Students passed out in semester wise	
Sem I	3	3 JAN 2024	**100.00**
Sem II	3	3 APR 2024	**100.00**
Sem III	6	6 NOV 23	**100.00**
Sem IV	6	6 Apr 2024	**100.00**
AVERAGE			**100.00**

Abbreviation:UOM =University of Mumbai

Entered By Verified By Principal

PILLAI COLLEGE OF ARCHITECTURE
M. Vasudevan Pillai Campus
Sector-16, New Panvel
INDIA

Sem II - 2023-24 - Course Evaluation

52 responses

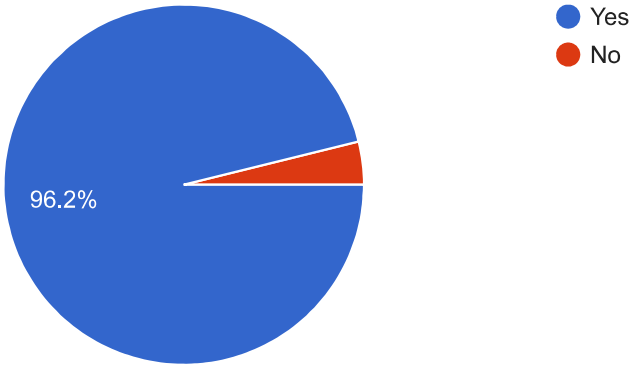
Publish analytics

UoM Architecture Syllabus

Are you satisfied with the syllabus structure by Mumbai University?

Copy

52 responses



Please give your suggestions to improve the syllabus if any.

13 responses

No

NA

.

All topics should be covered in 2 to 3 lessons

Building materials lecture should be more of physical material studies than of making presentation every lecture

No suggestions

I will suggest to to have more time to complte syllabus so we can focus on important topics

I'm satisfied with the syllabus

If we can focus more on drafting and sketching of buildings than painting and drawing random patterns

Semester ended very early, did not get proper time to understand and study.

I think not any improvement any subjects

More interesting assignments will be appreciated

Courses Feedback

How do you rate the teaching of individual subjects? Your satisfaction level and learning experience in them.

Copy

Please give your experience or suggestions to improve further or to appreciate for any of the above courses that you learnt last semester.

8 responses

NA

Their should be revision lecture included for every subject so that students can discuss their doubts on common ground.

I love lerning college project subject and electives with our respective faculty

More problem solving and guidance to new things

Thank you for being more than just a teachers you are mentor and inspiration I appreciate the time you put into lesson preparation it's really shines through in your teaching.

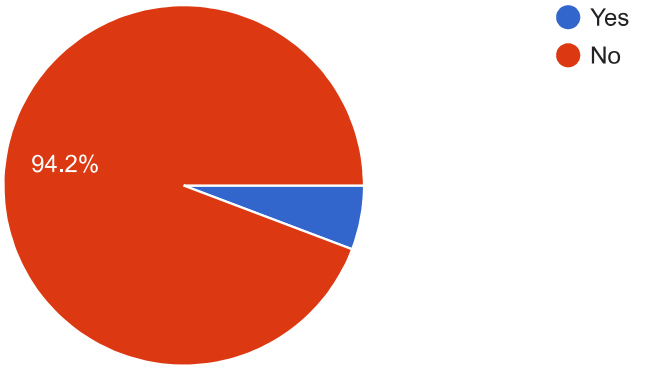
More interesting assignments would be expected next year

Prof. Shubhangi Bhide

Has Prof. Shubhangi Bhide taught to you?

Copy

52 responses



Prof. Shubhangi Bhide

Teaching methods, Communication and Personality

Copy

Any additional suggestion

0 responses

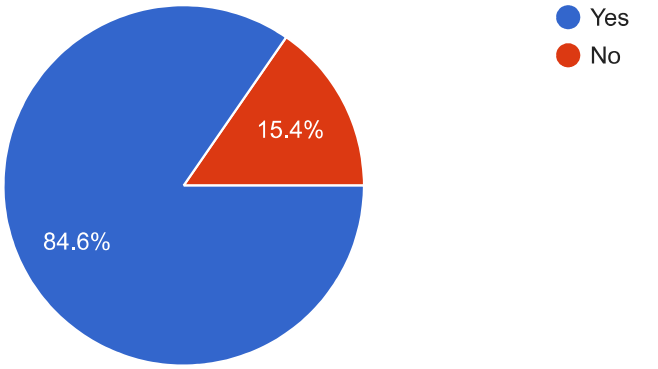
No responses yet for this question.

Prof. Rupali Vaidya

Has Prof. Rupali Vaidya taught to you?

Copy

52 responses



Prof. Rupali Vaidya

Teaching methods, Communication and Personality

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Any Additional Suggestion

1 response

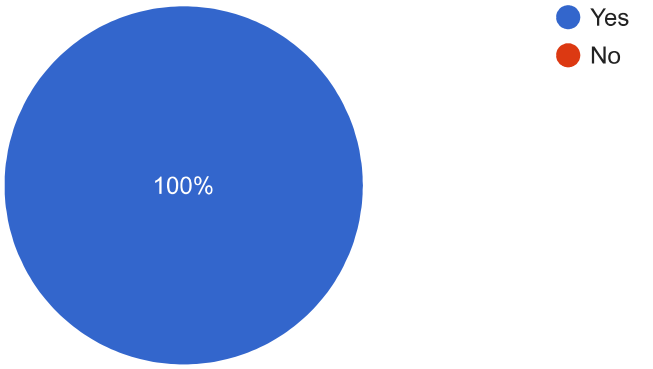
No

Prof. Ashwini Bhosale

Has Prof. Ashwini Bhosale taught to you?

Copy

52 responses



Prof. Ashwini Bhosale

Teaching methods, Communication and Personality

Copy

Any Additional Suggestion

3 responses

NA

No

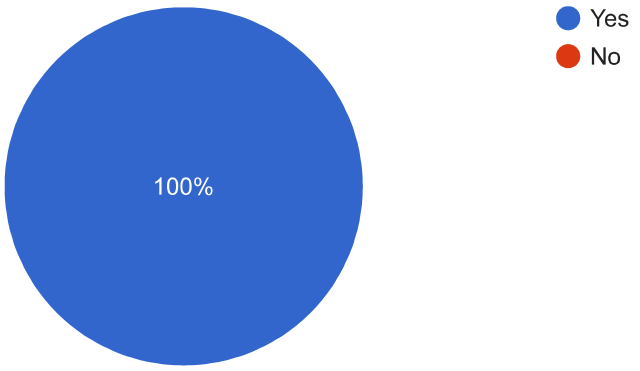
Please keep mam our 2nd Year class in-charge

Prof. Jinu Kurien

Has Prof. Jinu Kurien taught to you?

Copy

52 responses



Prof. Jinu Kurien

Teaching methods, Communication and Personality

Copy

Any Additional Suggestion

2 responses

Na

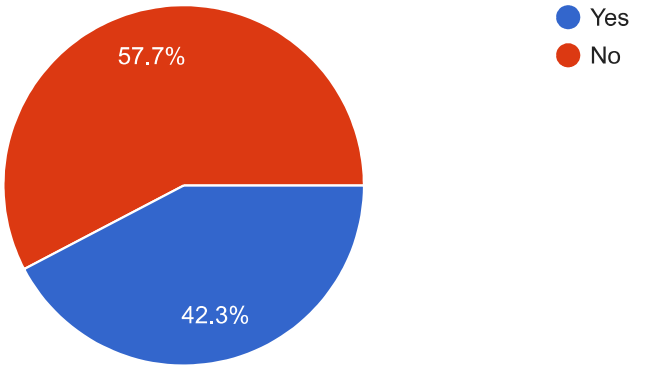
No

Prof. Suvarna Thakare

Has Prof. Suvarna Thakare taught to you?

Copy

52 responses



Prof. Suvarna Thakare

Teaching methods, Communication and Personality

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Any Additional Suggestion

1 response

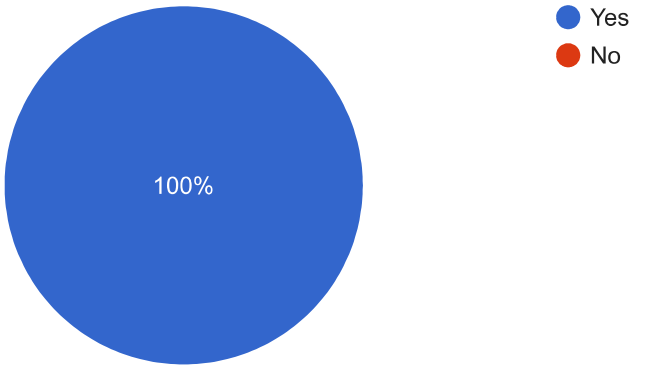
Na

Prof. Tushara Kaliyath

Has Prof. Tushara Kaliyath taught to you?

Copy

52 responses



Prof. Tushara Kaliyath

Teaching methods, Communication and Personality

Copy

Any Additional Suggestion

3 responses

Na

No

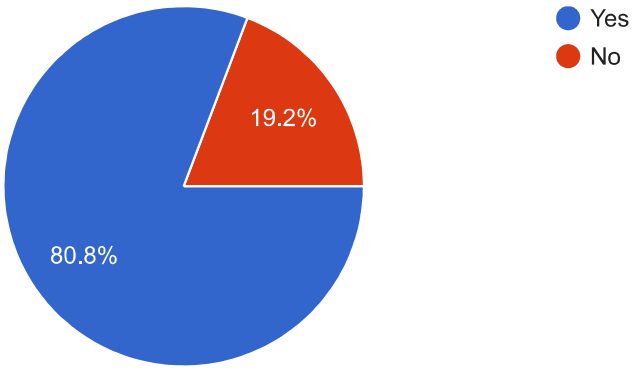
Please make mam our 2nd Year class in-charge

Prof. Avinash Sabhagani

Has Prof. Avinash Sabhagani taught to you?

Copy

52 responses



Prof. Avinash Sabhagani

Teaching methods, Communication and Personality

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Any Additional Suggestion

2 responses

Na

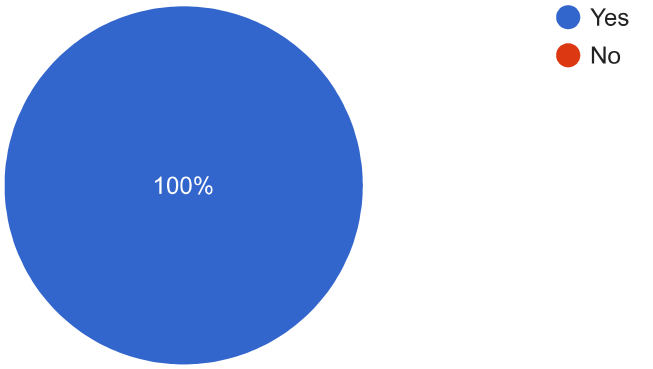
Keep more knowledgeable faculties than them

Prof. Kedar Shinde

Has Prof. Kedar Shinde taught to you?

Copy

52 responses



Prof. Kedar Shinde

Teaching methods, Communication and Personality

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Any Additional Suggestion

2 responses

Na

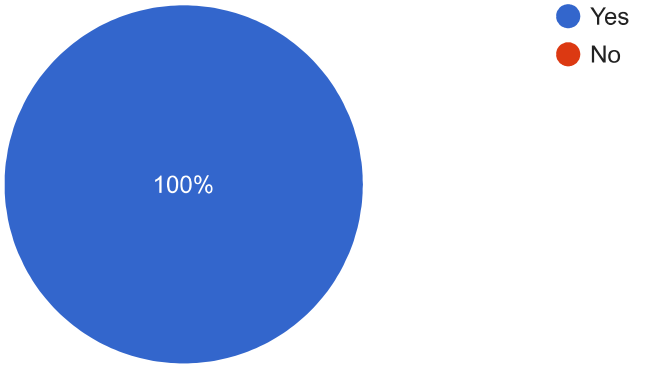
No

Prof. Jayesh Patil

Has Prof. Jayesh Patil taught to you?

Copy

52 responses



Prof. Jayesh Patil

Teaching methods, Communication and Personality

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Any Additional Suggestion

2 responses

Na

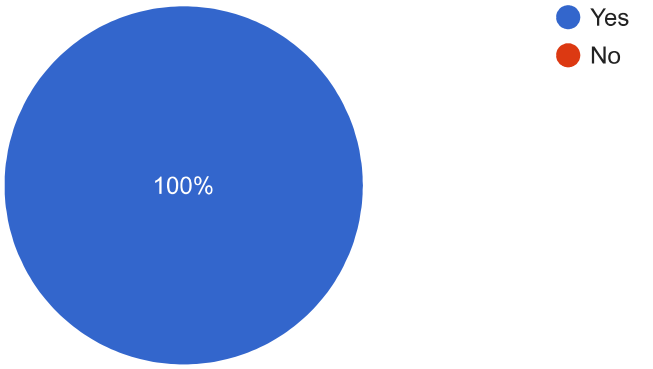
Need more lectures

Prof. Shital Marlapalle

Has Prof. Shital Marlapalle taught to you?

Copy

52 responses



Prof. Shital Marlapalle

Teaching methods, Communication and Personality

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Any Additional Suggestion

2 responses

Na

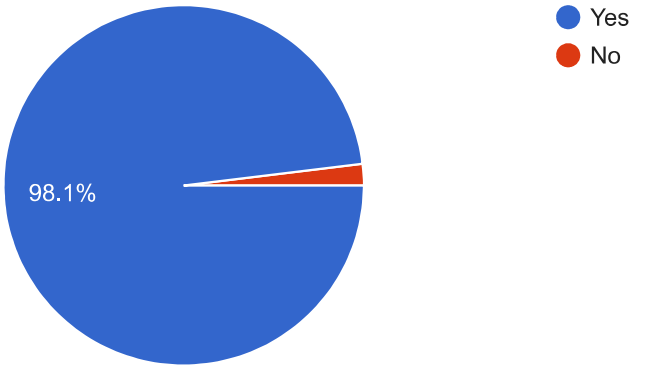
Need revision lectures

Prof. Sasmit Acharekar

Has Prof. Sasmit Acharekar taught to you?

Copy

52 responses



Prof. Sasmit Acharekar

Teaching methods, Communication and Personality

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Any Additional Suggestion

2 responses

Na

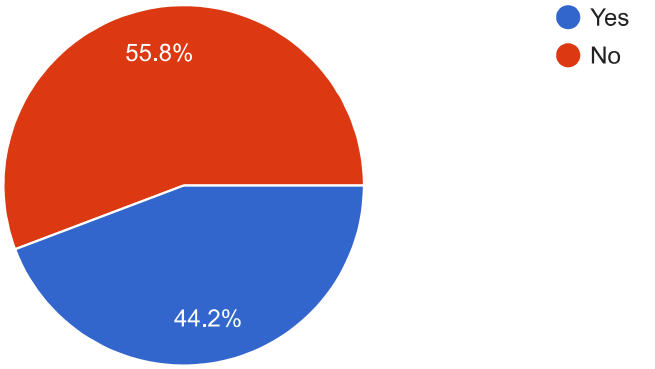
Needs more interaction

Prof. Tanaya Deka

Has Prof. Tanaya Deka taught to you?

Copy

52 responses



Prof. Tanaya Deka

Teaching methods, Communication and Personality

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Any Additional Suggestion

0 responses

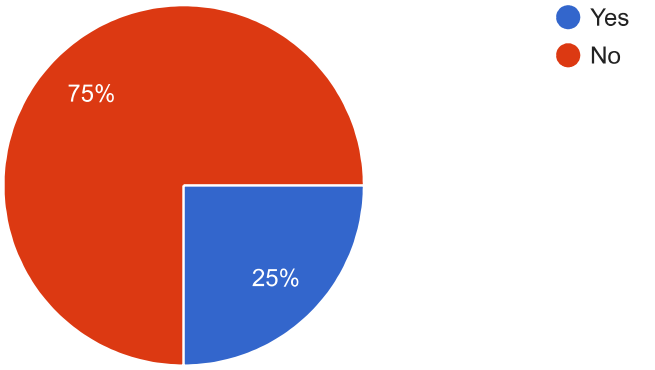
No responses yet for this question.

Prof. Neha Deshpande

Has Prof. Neha Deshpande taught to you?

Copy

52 responses



Prof. Neha Deshpande

Teaching methods, Communication and Personality

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Any Additional Suggestion

1 response

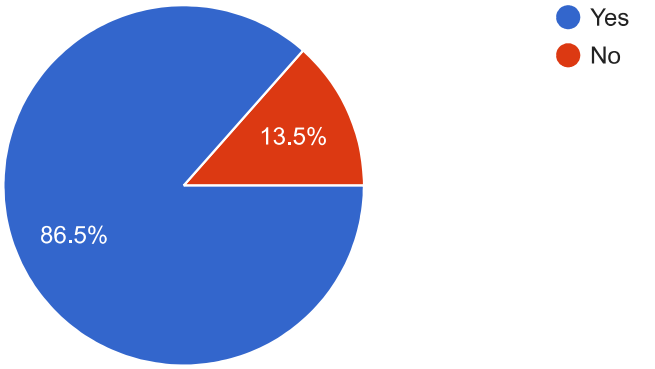
Na

Prof. Avishkar Bharati

Has Prof. Avishkar Bharati taught to you?

Copy

52 responses



Prof. Avishkar Bharati

Teaching methods, Communication and Personality

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Any Additional Suggestion

1 response

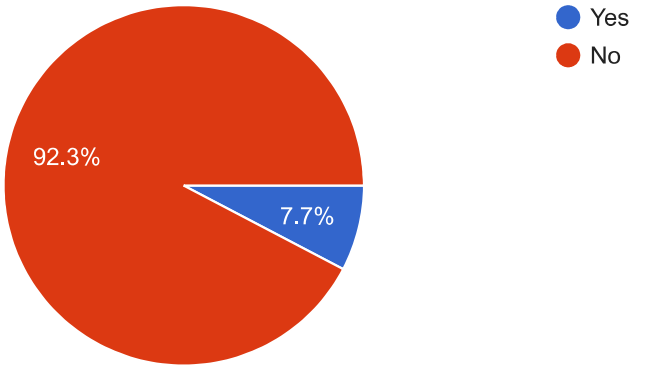
Na

Prof. Vrinda Padhye

Has Prof. Vrinda Padhye taught to you?

Copy

52 responses



Prof. Vrinda Padhye

Teaching methods, Communication and Personality

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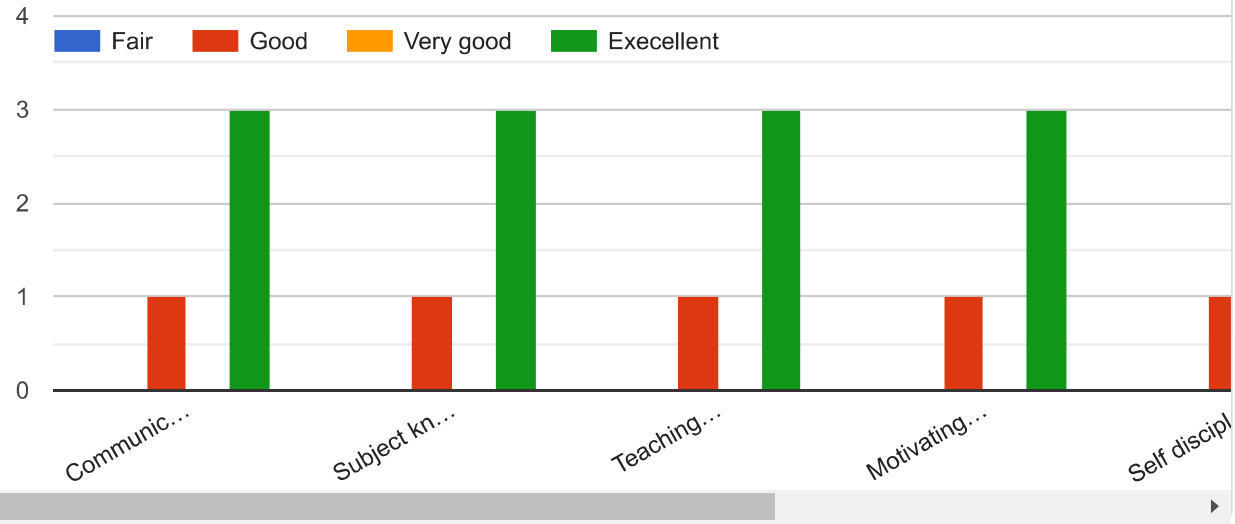


Any Additional Suggestion

0 responses

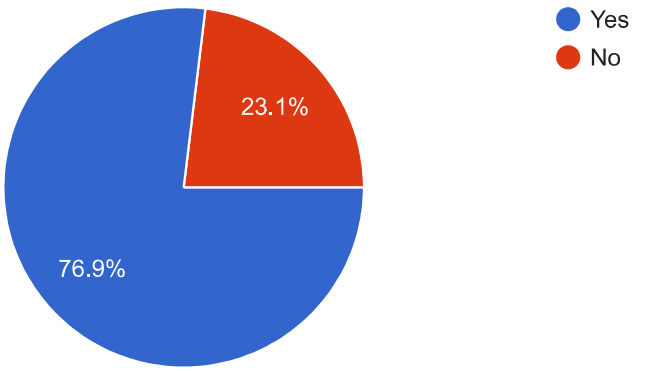
No responses yet for this question.

Prof. Sayalee Kulkarni

Has Prof. Sayalee Kulkarni taught to you?

Copy

52 responses



Prof. Sayalee Kulkarni

Teaching methods, Communication and Personality

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Any Additional Suggestion

1 response

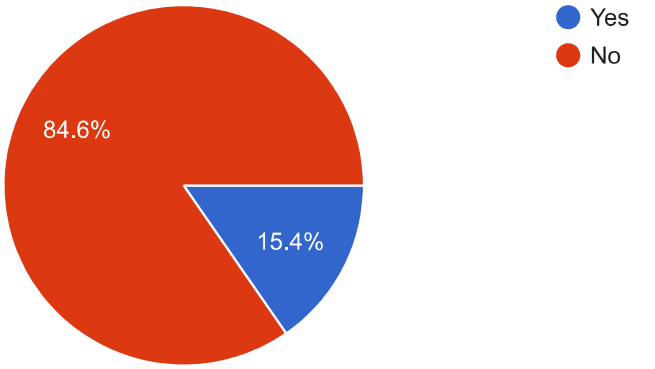
Na

Prof. Snehal Ghag

Has Prof. Snehal Ghag taught to you?

Copy

52 responses



Prof. Snehal Ghag

Teaching methods, Communication and Personality

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Any Additional Suggestion

0 responses

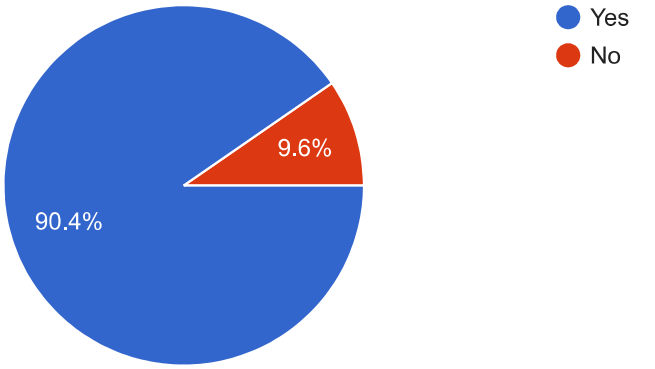
No responses yet for this question.

Prof. Prathamesh Deshpande

Has Prof. Prathamesh Deshpande taught to you?

Copy

52 responses



Prof. Prathamesh Deshpande

Teaching methods, Communication and Personality

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Any Additional Suggestion

1 response

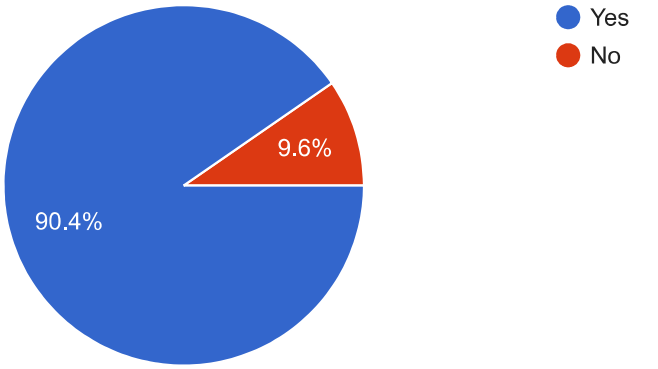
Na

Prof. Sahil Talib

Has Prof. Sahil Talib taught to you?

Copy

52 responses



Prof. Sahil Talib

Teaching methods, Communication and Personality

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Any Additional Suggestion

1 response

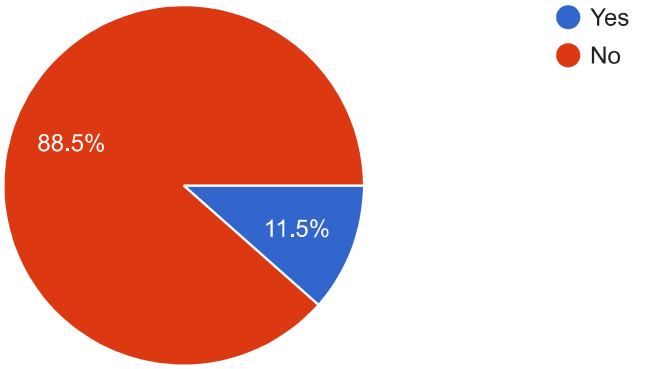
Na

Prof. Neha Sayed

Has Prof. Neha Sayed taught to you?

Copy

52 responses



Prof. Neha Sayed

Teaching methods, Communication and Personality

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Any Additional Suggestion

0 responses

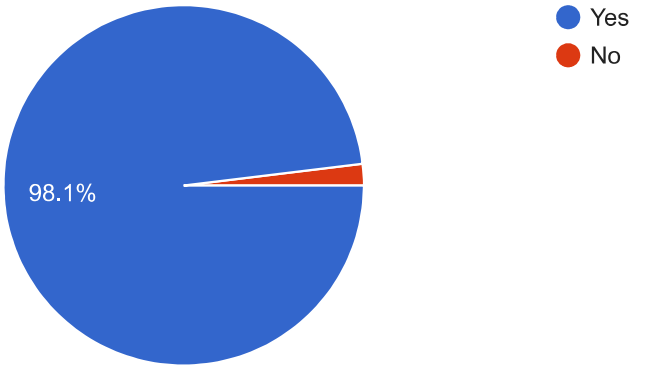
No responses yet for this question.

Prof. Mahesh Karande

Has Prof. Mahesh Karande taught to you?

Copy

52 responses



Prof. Mahesh Karande

Teaching methods, Communication and Personality

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Any Additional Suggestion

1 response

Na

Thank You!

Mahatma Education Society's
PILLAI COLLEGE OF ARCHITECTURE
Dr. K. M. Vasudevan Pillai Campus, Sector 16, New Panvel, Maharashtra, India 410 206.
Tel.: 022-2745 6100 / 2745 1700

EMPLOYER FEEDBACK FORM

Dear Employer,

Our 4th year architecture student VINAY MAHESH RATHI is working in your organization as an intern. We are thankful to you for giving an opportunity to our student to do internship with your prestigious organization.

We request you to fill up this feedback form. It will help us to improve the Institute further and give you better interns and employees in future.

Please Tick to rate the following:

Particulars	*Excellent*	*Very Good*	*Good*	*Fair*	*Average*
1. Student's overall performance	✓				
2. Student's general communication skill	✓				
3. Student's design and drawing skill			✓		
4. Student's computer software skill		✓			
5. Student's ability to learn new techniques	✓				
6. Curriculum of the B. Arch. course			✓		
7. Institute's efforts towards training the student			✓		

Please contact us if you have any specific comments / suggestions. You can e-mail us: pica@mes.ac.in.

We would like to know if you are a PiCA alumnus? YES _____ NO ✓

Name: SHREYA R *Position:* SENIOR ARCHITECT

Name of the firm / organization : CREST ARCHITECTS

Address: MVR Square, CMR Main Road, Kalyan Nagar, B'lore -43

E-mail: info@crestarchitects.com *Contact No:* 8884399992

Signature: Shreya R *Date:* 23.04.2024

PILLAI COLLEGE OF ARCHITECTURE
Dr. K. M. Vasudevan Pillai Campus
10, Sector-16, New Panvel
410 206, INDIA

Jury Feedback - Pillai College of Architecture

Please submit feedback regarding the jury you have just completed, including feedback on students and PICA performance.

Email *

niladwuti@gmail.com

Name of the Juror *

Niladwuti Chattopadhyay

Name of your Insitute / Practicing Firm *

Lokmanya Tilak Institute of Architecture and Design Studies

Phone no. *

09892178267

Name of the co-juror *

NA

Jury taken for the course *

- (●) B.Arch.
- ( ) M.Arch.

B. Arch.

Semester *

VIII

Subject for which jury conducted *

- ( ) AD - Architectural Design
- ( ) ARD - Architectural Representation and Drawing
- ( ) DD and ARD - Sem X - Design Dissertation
- (●) PP - Professional Practice
- ( ) DD Book jury - Sem IX

Architectural Design

Did you get adequate information about project/studio? *

	Yes	No
Program	○	○
Studio Process	○	○
Objectives	○	○
Submission Requirements	○	○

Was the project appropriate for that semester with respect to *

	Yes	No
Scale	○	○
Complexity	○	○
Objectives	○	○

What is your opinion wrt Predesign process?

PILLAI COLLEGE OF ARCHITECTURE Dr. M. Vasudevan Pillai Campus 10, Sector-16, New Panvel 410 206 INDIA

Rate students' performance *

	Excellent	Very Good	Satisfactory	Below Average
Design Process	○	○	○	○
Conceptual Clarity	○	○	○	○
Graphical Presentation	○	○	○	○
Language Fluency	○	○	○	○

Sem X - Design Dissertation and ARD

Design Dissertation *

	Excellent	Very Good	Satisfactory	Below Average
Reflection of research in the design	○	○	○	○
Design Process	○	○	○	○
Conceptual Clarity	○	○	○	○
Language Fluency and communication skills	○	○	○	○
Quantity of drawings	○	○	○	○
Graphical Presentation	○	○	○	○
Completeness of the drawings	○	○	○	○
Overall quality	○	○	○	○

ARD - Architectural Representation and Drawings *

	Excellent	Very Good	Satisfactory	Below Average
Completeness of the drawings	○	○	○	○
Application of basic knowledge	○	○	○	○
Quantity as per requirement of the subject	○	○	○	○
Correctness of drawings	○	○	○	○
Graphical Presentation	○	○	○	○
Detailing	○	○	○	○
Adaptation to Design in DD	○	○	○	○

Architectural Representation and Drawing

Rate students' performance *

	Excellent	Very Good	Satisfactory	Below Average
Completeness of the drawings	○	○	○	○
Quantity or drawings as per Subject requirement	○	○	○	○
Correctness of drawings	○	○	○	○
Graphical Presentation	○	○	○	○
Language Fluency and communication skills	○	○	○	○

Professional Practice

Rate students' performance *

	Excellent	Very Good	Satisfactory	Below Average
Relevance of the practising firm selected	○	◉	○	○
Completeness of the drawings	○	◉	○	○
General understanding about professional practice	○	○	◉	○
Quantity or drawings as per Subject requirement	○	◉	○	○
Correctness of drawings	○	◉	○	○
Graphical Presentation	◉	○	○	○
Language Fluency and communication skills	○	○	◉	○
Students knowledge of the project handled	○	◉	○	○
Students awareness regarding the bye laws wrt the project	○	◉	○	○

DD Book Jury - Sem IX

Rate students' performance *

	Excellent	Very Good	Satisfactory	Below Average
Conceptual Clarity	○	◉	○	○
Scale of the topic	○	◉	○	○
Research process	○	◉	○	○
Analysis and Inferences	○	◉	○	○
Language Fluency and communication skills	○	○	◉	○
Graphical Presentation	◉	○	○	○
Completeness of the work	○	◉	○	○
Overall quality	○	◉	○	○

M.Arch. Thesis

Rate students' performance *

	Excellent	Very Good	Satisfactory	Below Average
Research process	○	○	○	○
Conceptual Clarity	○	○	○	○
Scale of the design	○	○	○	○
Reflection of research in the design	○	○	○	○
Design Process	○	○	○	○
Language Fluency and communication skills	○	○	○	○
Quantity of drawings	○	○	○	○
Graphical Presentation	○	○	○	○
Completeness of the work	○	○	○	○
Overall quality	○	○	○	○

Suggestions or Appreciation

Please give your suggestion if any to improve the quality of work at PiCA.
Also, Your words of appreciation are highly valued and encouraging to us and our students.

For the Professional Practice Viva only drawings and works done by the student needs to be put across, scale and quantity does not matter its the quality of involvement of the student that's important

Thank You for your Feedback :)

Any suggestion to improve the institute's performance and perspective.