

SAVITRIBAI PHULE PUNE UNIVERSITY
[Formerly the University of Pune]



DETAILED SYLLABUS OF FINAL YEAR B. ARCH.
2019 PATTERN
To Be implemented from AY 2023-24

BOARD OF STUDIES IN ARCHITECTURE
FACULTY OF SCIENCE AND TECHNOLOGY

SEMESTER IX

PRACTICAL TRAINING		
Course Code	5201967 [SV]	
Teaching Scheme	Examination Scheme	
Six months or One semester of approximate 16 working weeks [minimum 90 working days]	Sessional [CIA100+EA100]	200
	Viva [INT 25+ EXT 25]	50
	In-semester exam	NIL
	End Semester exam	NIL
	Total Marks	250
	Total Credits	14

COURSE OBJECTIVES:

- To undertake practical training under the guidance of experts / professionals.
- To Learn about architect's office management and learn about the process of design, execution, and management of a project.

COURSE CONTENT:

- Students should work in office of an architect or organization operating in an allied field of practice or research duly approved by the institution, under the mentorship of a registered architect having experience of minimum five years.
- The Practical training should be supervised and evaluated through periodic assessment by the mentoring architect.
- The students should periodically report to the coordinating teachers from the institute and keep the institute informed about his/her training.
- End semester viva voce would be conducted by the examiners appointed by the University.
- Training in foreign country shall be done under the registered architect of that country and to be approved and monitored by the Head of Institute.

SUBMISSION REQUIREMENT:

- Prepare a separate report along with formal log book & work diary.
- Student should maintain week wise work record in a diary to summarize the work done in the office, site visits, meetings with clients, agencies, interaction with principal architect. This diary should be authenticated by the architect every month.
- Professionals should issue a certificate of performance to the student with respect to the work quality, overall approach, attitude towards work.

- Students should produce report, log book, work diary & some sample drawings with permission from the employer [to indicate the kind of work s/he has carried out] at the time of sessional -viva voce examination.

OUTCOME :

Ability to understand real life situation of Professional Practice and to work with ethical and professional responsibilities.

SEMESTER X

ARCHITECTURAL DESIGN PROJECT		
Course Code	5201968 [SV]	
Teaching Scheme	Examination Scheme	
Total Contact Hours per week: 13 (Lectures: 3, Studio: 10)	Sessional [CIA225+EA225]	450
	Viva [INT 50+ EXT 50]	100
	In-semester exam	NIL
	End Semester exam	NIL
	Total Marks	550
	Total Credits	18

OBJECTIVE

To provide an opportunity to the students to apply the knowledge and skills gained in earlier years to a full-fledged Architectural Design project of student's choice with a holistic approach including background research, programme formulation, site selection investigations and design demonstration.

COURSE OUTLINE

The Architectural Design Project shall consist of Design Demonstration i.e. formulation of design programme, site investigation and selection, and culmination in architectural design proposal.

TOPIC FOR ARCHITECTURAL PROJECT

The topic for the project shall be approved by the Institute and guided by the Faculty. The student may consult external resource persons specializing in the chosen topic, but the assessment shall be done by the faculty. A guide may guide up to EIGHT students during the session. In order to qualify to work as a Guide, the faculty must possess a minimum of TEN YEARS of teaching / professional experience.

SUGGESTED CATEGORISATIONS OF THE TOPICS ARE AS UNDER:

1. Institutional Buildings
2. Infrastructural Buildings
3. Work places
4. Commerce and Trade buildings
5. Habitats
6. Healthcare

7. Hospitality
8. Religious Buildings,
9. Recreational Buildings
10. Industrial Buildings
11. Cultural Buildings
12. Urban Design project / Urban Design Insertions of suitable scale.
13. Conservation including Rejuvenation, Revitalisation of suitable scale.

Number of subcategories is possible under the above main categories as per the discretion of the Faculty Member.

The students may link the topic of the thesis to earlier explorations through Research in Architecture done in previous years or explore new concern as per his/her choice.

The scale of the project must do justice to the depth of involvement, (e.g., in case of very small projects in-depth design demonstration is expected)

However very large projects in specialized branches of architecture may not be encouraged and if taken up scope & scale needs to be limited as mentioned below.

The built up area & the scope of a project (in particular in urban design, conservation, revitalisation etc) should be chosen such that the same can be handled at the B. Arch. level and involves a demonstration of a solution involving Architectural Design in particular.

SESSIONAL WORK

The portfolio of the final work submitted by the student shall contain MANUALLY LABOURED / COMPUTER GENERATED drawings of sheet sizes as per international standards and a PHYSICAL MODEL explaining the architectural proposal. The portfolio of process drawings and models must also be submitted separately for establishing continuous monitoring and progressive assessments, not to be marked separately. Along with the drawings A4 / A3 size bound report consisting of the background and rationale of the project, the methodology and the prints of the final proposal shall be submitted after the oral examination, to be kept in the library of the college. The choice of the size and format of the report is left to the institute, however, within one institute report size should be constant. In addition, the student may show other presentations like 3D views, walkthroughs etc.

SESSIONAL ASSESSMENT:

The Internal assessment of the architectural project shall be carried out STAGE WISE as decided by the college. The final assessment in the examination shall be done by both Internal and External examiner in which the student shall display the work on the space allotted to him/her and explain his work and answer all the queries raised by the examiner.

The external examiner shall be a professional, not teaching at any institute as visiting or core faculty and shall have minimum 10 years of professional experience.

The examiners shall assess the work done and presented by the student, duly approved by the Faculty. The drawings and models duly stamped and signed by the Faculty shall be treated as authentic work done by the student under the guidance of the Faculty. The student may submit a sufficient number of drawings required to satisfactorily explain the project. The student shall also present a separate portfolio of study & process sheets, study models etc.

ORAL EXAMINATION

The oral examination shall be held in the physical presence of the student in the examination centre of the candidate jointly and exclusively by the internal and external examiners. The student shall be allowed to present his project for a minimum 10 minutes without any interruption. The student shall be judged for the depth of understanding of the subject and clarity of graphical presentation of the project.

RECOMMENDED READING:

All books, Research Articles relevant to the topic of the architectural project. Appropriate case studies of architectural projects of similar nature to the chosen topics must form part of the report on the thesis.

ENTREPRENEURSHIP DEVELOPMENT		
Course Code	5201969 [SS]	
Teaching Scheme	Examination Scheme	
Total Contact Hours per week: 4 (Lectures: 2, Studio: 2)	Sessional	100
	In-semester exam	NIL
	End Semester exam	NIL
	Total Marks	100
	Total Credits	03

COURSE OBJECTIVE:

- To develop a spirit of entrepreneurship amongst budding architects, and empower and encourage students to be “**Archipreneurs**”
- To impart knowledge of the basics of entrepreneurship, management and legal aspects related to creation of new ventures
- To equip students with basic skills and competencies needed for ~~enterprise-oriented~~ professional development in architecture.
- To explore new vistas of entrepreneurship in the 21st century environment to generate innovative business ideas.

COURSE OUTLINE:

- **Unit 1**
Developing the mind-set of being an entrepreneur

- **Unit 2**
Basic knowledge of Entrepreneurship, business management, finance and Law
- **Unit 3**
Basic Entrepreneurial skills - Lateral thinking, problem solving, Oratory, Human Resource Management, Time management, Finance management, Office Administration and essential Software skills, etc.
- **Unit 4**
New vistas of Architectural entrepreneurship in the 21st century environment to generate innovative business models

COURSE DETAILS:

- **Unit 1: Developing the mind-set of being an entrepreneur**
 - Meaning and concept of entrepreneurship, ~~history of entrepreneurship development~~, role of entrepreneurship in economic development, factors affecting entrepreneurship, Types of entrepreneurs, examples & barriers to entrepreneurship. Skills of leadership, leaving the 'employee mentality' & developing the entrepreneur mindset.
 - Introduction to the concept of "*Intrepreneurship*"

Assignment 01: Essay writing (1500 - 2000 words)

- **Unit 2: Basics of Business Management**
Entrepreneurship, business management, finance and IPR
 - Fundamentals of Business - types of professional organizations -
 - Basics of Accountancy and Finance Management, & Investment planning
 - Introduction to business planning, understanding market needs, gaining marketing intelligence, survey and analysis of efficiency and productivity, market analysis, risk assessment, managing competition, etc.
 - Introduction to Intellectual Property Rights
- **Unit 3: Basic Entrepreneurial Skills Development**
 - Need to practice: Why practice? Where to start? Who to look at? What to look for?
 - Introduction to the changing face of Architectural Practice & the scope of diversification into activities allied to Architecture
 - Introduction to Lateral thinking and developing problem solving approach
 - Basics of People (HR) Management -
 - Importance and ways of Team Building
 - Importance of Time management
 - Need for developing Software skills
- **Unit 4: Developing a Business Model**
New vistas of architectural entrepreneurship in the 21st century environment to generate innovative business models

- Developing a Business Model: Understanding the importance of Team, steps to create Business Models, types of Models and finally creating a product that is market ready.
- Exposure to Case Studies of Entrepreneurs and their journeys

SESSIONAL WORK

- Totally 3 assignments to be done for this course.
- One assignment to mandatorily cover two Case Studies of entrepreneurs (One Architectural and the other allied) done individually and to be presented as seminar to the class
- Choice of other two assignments can be done individually or in a group of two (as per Units) is left to the discretion of the individual college. Considering this is a Semester X subject, the faculty is expected to set out the broad contour and sub-aspects (including basic principles, role play, case studies, application in Professional Field, etc.) of the said subject of Entrepreneurship Development
- The students are expected to present the work done in an A4 report format of minimum 25 pages, to include summary of interactions, essays, Class notes, Case Studies and Sessional work prescribed by the faculty with a signed certificate from the concerned Teacher / Expert stating that the study was carried out under his /her guidance, and countersigned by the Principal / Academic coordinator

RECOMMENDED READINGS:

1. **Manual of Architectural Practice** – Council of Architecture publication- Vol 1&5
2. How to Win Friends and Influence People by Dale Carnegie
3. Who Moved My Cheese? by Spencer Johnson
4. Thinking, Fast and Slow by Daniel Kahneman
5. The 4-Hour Workweek by Timothy Ferriss
6. The Art of Non-Conformity by Chris Gillebeau
7. The Entrepreneur Mind by Kevin D. Johnson
8. Design-Centered Entrepreneurship By Min Basadur, Michael Goldsby
9. Architect and Entrepreneur: A Field Guide to Building, Branding, and Marketing
10. Jab, Jab, Jab, Right Hook: How to Tell Your Story in a Noisy Social World by Gary Vaynerchuk
11. Lateral Thinking - Edward De Bono
12. Fundamentals of Intellectual property Rights- Ramkrishna B and Anilkumar H.S

ELECTIVE VI		
Course Code	4201957 [SS]	
Teaching Scheme	Examination Scheme	
<p style="text-align: center;">Total Contact Hours per week: 3 (Lecture: 1, Studio :2)</p>	Sessional (internal)	25
	Sessional (external)	25
	Viva (internal)	NIL
	Viva (external)	NIL
	In-semester exam	NIL
	End Semester exam	NIL
	Total Marks	50
	Total Credits	02

COURSE OBJECTIVES

The elective is offered preferably as an open elective but if it is not possible to offer an open elective the colleges may offer an elective which the student has not undertaken earlier.

To allow the students to study a subject of their interest and develop theoretical as well as practical understanding of the same

As mentioned in the course structure of 2019 pattern syllabus [Appendix B] a student may adhere to a particular stream of elective of his/her choice and nurture his/her area of interest and develop his/her expertise.

However, colleges have to ensure that the student does not repeat a particular elective.

COURSE OUTLINE:

Colleges have to develop course outline for the elective they wish to offer such that theoretical as well as practical aspects are covered linking them to the field of architecture.

Apart from lectures delivered by the subject resource persons, self-study in form of hands-on workshop / field work/ review of literature / seminar or any suitable format of learning may be adopted.

SESSIONAL WORK:

- The submission to be devised by the colleges in form suitable to the elective offered. The format could be [but not limited to] as following.
- Field study reports
- Mapping / documentation / photographic / video graphic documentation
- Measured drawings
- Computer based assignments
- Tutorials
