

UNIVERSITY OF PUNE

DETAIL SYLLABUS

FOR

**FIFTH YEAR BACHELOR OF ARCHITECTURE
(CONSTRUCTION MANAGEMENT)**

(To be implemented from 2015-16)

FACULTY OF ENGINEERING

BOARD OF STUDIES IN ARCHITECTURE.

FIFTH YEAR B.ARCH (C.M)									
SCHEME OF TEACHING & EXAMINATION									
Sr. No.	Subject Code	Name of the Subject	Head	Teaching Scheme			Examination Scheme		
				Load/ Week		Total	Term I	Term II	Total
				L	S/P	Load	Marks	Marks	Marks
1	513421	Practical Training	SV	0	0	0	100	0	100
2	513451	Architectural Project – Part II	SV	2	10	12	0	400	400
3	513423	Management Elective	SS	1	1	2	0	50	50
4	513424	Allied Elective	SS	1	1	2	0	50	50
		TOTAL		4	12	16	100	500	600
STAGE –II - LEGEND - SS- SESSIONAL, V-VIVA VOCE , TH-THEORY PAPER									

Note. The Candidate shall undergo Practical Training under the guidance of a registered Architect for a specified period.

The candidate to be assigned works related to PM consultancy, Site & Construction Management.

DETAIL SYLLABUS

Subject Code : 513421 PRACTICAL TRAINING (Sessional and Viva)			
Teaching Scheme		Examination Scheme	
Lecture Periods per week	--	Term I Only Sessional (Internal) Sessional (External) Viva	25 marks (for Term I) 25 marks (for Term I) 50 marks (for Term I)
Studio Periods per week	--	Total sessional marks for Term I Only	100 marks
Total Contact Periods per week	--	Paper	nil
		Total Marks	100 marks

AIMS AND OBJECTIVE:

The aim of introducing one complete term for the students to undergo practical training is to expose them to the world of Professional Practice and get hands on training under the guidance of a professional who is actively engaged in Architectural Practice. It still give the students first hand experience of dealing with live projects of various nature and also the site experience to see how the projects get built on the site. The students will also be able to learn about the Office Management, Project Management, Contract Management, Human Resource Management, new techniques of construction, advance building services, landscape and environmental designing etc. This rich experience is expected to enhance the students' ability to think comprehensively and better prepare them for undertaking the Architectural Project work in the final semester.

COURSE OUTLINE

- 1 The term of Practical Training will commence immediately after the examination of Fourth Year and will continue till the end of IX SEM or thereabout. The students are expected to work in the organization where architecture and its related practice are carried out and under the guidance of the professional who is registered with Council of Architecture. In case the student opts to go abroad he / she will work under the guidance of the professional who is registered with the council / any other organization controlling the profession of Architecture in the respective country. The students will decide very carefully about their placement venue as it is expected that they learn best ethics in Professional Practice and which produces quality architecture. The placement cell of each College will extend all possible help to the students in this regard.
- 2 The total duration of the training will be minimum 18 working weeks / 90 working days excluding the holidays.

SUBMISSION

1. The students shall prepare an exhaustive Training Report separately or in a formal Log Book issued to him by the College as per the College policy, week by week, which will cover detailed record of the work done in the office, site visit reports, interviews with clients and any other agency, interaction with principal architect etc. The professional with the seal of the organization, under whose guidance the student worked, will sign the report and also his reflection about the student's work and his overall approach and attitude towards the office work.
2. The students shall produce the above mentioned Training Report and the Log Book at the time of viva-voce examination. He will also produce few drawings with the permission of his employer to indicate the kind of work he has carried out.

SESSIONAL ASSESSMENT AND VIVA-VOCE: The sessional and viva assessment shall be done jointly by the Internal and External Examiners and the allocation of marks shall be as stipulated in the syllabus

Subject Code : 513451 ARCHITECTURAL PROJECT (PART II) (Sessional and Viva)			
Teaching Scheme		Examination Scheme	
Lecture Periods per week	2	Term II Sessional (Internal) Sessional (External) Viva	150 marks (for Term II) 150 marks (for Term II) 100 marks
Studio Periods per week	10	Total sessional marks for both terms	400 marks
Total Contact Periods per week	12	Paper	nil
		Total Marks	400 marks

OBJECTIVE:

To expose and to provide opportunity to the students to extend the findings of the research carried out under the subject of "Dissertation" to the architectural project and exercise full fledged large scale Architectural Design with holistic approach including site investigation, programme formulation, and design demonstration.

COURSE OUTLINE:

The architectural project (Part II) shall consist of: **Design Demonstration i.e.** Formulation of Design Programme, Site investigation, and selection, and culmination in a concrete design demonstration.

SUBMISSION WORK:

Sessional work for the Part II of Architectural Project shall consist of a **Design Solution:** Graphically presented Design solution in form of sufficient number of architectural drawings,(manually drawn/computerized) with models etc. Since the Architectural Project is the culmination of five years of learning in various aspects of Architecture, it is expected that students demonstrates an ability of holistic and comprehensive thinking in the areas of,

- Feasibility study & Product Mix.
- Site Planning.
- Structural considerations.
- Interior space planning.
- Environmental planning
- Building Services
- Management & Planning of Infrastructure.
- Climate responsive, Energy efficient and exhibiting qualities of sustainable architecture.
- Architectural Detailing.

The portfolio will consist of drawings sufficiently in detail to demonstrate the consideration given to the above mentioned attributes of a good quality Architectural Project. Emphasis shall be given to the preparation of self explanatory drawings in great detail, as if in any Architectural Competition.

SESSIONAL ASSESSMENT

The Internal assessment of "Architectural Project" shall be carried out **STAGE WISE** as decided by the individual College.

The final assessment in the examination shall be done by Internal and External Examiner / s in which the student will display his work on the space allotted to him and explain his work and answer all the queries raised by the Examiners.

The Time allotted per student shall be minimum 30 minutes to maximum 45 minutes.

The Internal stage wise making shall be done out of 150 marks and External marking shall be done jointly by the External Examiner/s out of 150 marks. 100 marks shall be reserved for oral presentation to be assessed jointly by both Internal and External Examiners.

The individual college will make available Guides specializing in various disciplines who will make themselves available to the students in College premises on pre appointed days and time.

Individual Guide will guide maximum of **FIVE STUDENTS** of a particular College in which he is working as a Guide. Total number of students from all the Colleges shall not exceed **EIGHT** at any one time.

In order to qualify to work as a Guide the teacher / professional must possess minimum of **FIVE YEARS** of teaching / professional experience. Efforts shall be made to appoint guides who have high academic qualification, having rich Professional experience and contributed in a major way to the field of Architectural Education / Profession.

RECOMMENDED READING

All books relevant to the topic of the architectural project.

Subject Code : 513423 MANAGEMENT ELECTIVE - (Sessional)			
Teaching Scheme		Examination Scheme	
Lecture Periods per week	1	Term II Sessional (Internal) Sessional (External) Viva	25 marks (for Term II) 25 marks (for Term II) Nil
Studio Periods per week	1	Total sessional marks for both terms	50 marks
Total Contact Periods per week	2	Paper	nil
		Total Marks	50 marks

AIMS AND OBJECTIVE:

The subject of Electives has been introduced in syllabus with specific intention of in depth study of a particular subject of student's liking in greater detail but in the larger context of overall scope of Architecture syllabus at undergraduate level. This will give students an opportunity to develop their skills in a subject they may opt, to make their career in future. Architectural practice is a team effort in which persons of different skills in varied fields are required such as Concept Developers, Technical / Working Drawing Experts, Specification Writers, Quantity Surveyors, Project Managers, Contract Managers, Interior Designers, Architectural Photographers, Architectural Journalists, Signage and Graphic Designers, Energy Consultants, Building Services Consultants, Making Managers etc. In depth study in Electives will prepare the technical base of the students. Since the Architectural Projects in future are going to be very complex, the vital need of support staff in Architectural Practice will be fulfilled and the student's skills and talent will be effectively used.

COURSE OUTLINE:

Individual College may offer topics depending upon the availability of experts and resource material. The Colleges will have the opportunity to focus on particular group of topics according to overall philosophy and mission statement of the College. The probable management elective topics are as

Follows:

1. Project Management.
2. Energy management.
3. Architectural legalities.
4. Architect's office management.
5. Disaster management.
6. Risk management.
7. Entrepreneurship Development and Total Quality management.
8. Information Technology in Architectural profession.
9. Financial Management and Budgeting

SUBMISSION DETAILS:

The students are expected to study the selected topic in depth, including the basic principles, and their application in built projects by undertaking case studies, necessary site visits, and collecting all the relevant information to make it an exhaustive study and present it in a well documented format having A-3 / A-4 size papers properly filed with a signed certificate from concerned Teacher / Expert stating that the study was carried out under his guidance and countersigned by the Principal / Academic Co-ordinator.

Subject Code : 513424 ALLIED ELECTIVE (Sessional)			
Teaching Scheme		Examination Scheme	
Lecture Periods per week	1	Term II Sessional (Internal) Sessional (External) Viva	25 marks (for Term II) 25 marks (for Term II) Nil
Studio Periods per week	1	Total sessional marks for both terms	50 marks
Total Contact Periods per week	2	Paper	nil
		Total Marks	50 marks

AIMS AND OBJECTIVE:

The subject of Electives has been introduced in syllabus with specific intention of in depth study of a particular subject of student's liking in greater detail but in the larger context of overall scope of Architecture syllabus at undergraduate level. This will give students an opportunity to develop their skills in a subject they may opt, to make their career in future. Architectural practice is a team effort in which persons of different skills in varied fields are required such as Concept Developers, Technical / Working Drawing Experts, Specification Writers, Quantity Surveyors, Project Managers, Contract Managers, Interior Designers, Architectural Photographers, Architectural Journalists, Signage and Graphic Designers, Energy Consultants, Building Services Consultants, Making Managers etc. In depth study in Electives will prepare the technical base of the students. Since the Architectural Projects in future are going to be very complex, the vital need of support staff in Architectural Practice will be fulfilled and the student's skills and talent will be effectively used.

COURSE OUTLINE

Following is a list of topics from which individual Colleges may offer few topics depending upon the availability of experts and resource material. The Colleges will have the opportunity to focus on particular group of Electives such as Design, Technology, Management or Allied group, according to overall philosophy and mission statement of the College. The probable Allied Elective topics are as follows:

1. Visual Communication
3. Architectural Journalism
5. Architectural Conservation
7. Applied Psychology in Arch.
9. Housing Finance and Building Economics
2. Fine Arts and Graphics
4. Advanced Computer Graphics
6. Photography
8. Applied Sociology in Arch.

SUBMISSION DETAILS:

The students are expected to study the selected topic in depth, including the basic principles, and their application in built projects by undertaking case studies, necessary site visits, and collecting all the relevant information to make it an exhaustive study and present it in a well documented format having A-3 / A-4 size papers properly filed with a signed certificate from concerned Teacher / Expert stating that the study was carried out under his guidance and countersigned by the Principal / Academic Co-ordinator.