

UNIVERSITY OF PUNE
FINAL YEAR B.ARCH.
TERM I

Subject Code.	Name of Subject	TEACHING SCHEME (Periods of 45 Minutes Duration)			EXAMINATION SCHEME.		
		Lecture Periods.	Studio Periods	Total contact Periods	Sessional + Viva-voce	Paper	Total Marks
513451	Practical Training	-	-	-	200	-	200
	Total				200	-	200

TERM II

Subject Code	Name of Subject	TEACHING SCHEME (Periods of 45 Minutes Duration)			EXAMINATION SCHEME.		
		Lecture Periods.	Studio Periods	Total contact Periods	Sessional / + Viva-voce	Paper	Total Marks
513452	Allied Elective II	1	1	2	50	-	50
513453	Professional Practice	6	2	8	150	100	250
513454	Contract Management	6	-	6	100	-	100
513455	Architectural Project	1	13	14	700	-	700
	Total of Term II	14	16	30	1000	100	1100
	Total of Term I						200
	Grand Total						1300

Note: - Class will be awarded on total marks of Fourth Year (1300) & Final Year (1300) i.e. out of 2600 Marks

BACHELOR OF ARCHITECTURE

TABLE OF EQUIVALENCE

FINAL YEAR B. ARCH.

TERM I

1997 SYLLABUS

2003 SYLLABUS

SUBJECT CODE.	NAME OF SUBJECT.	SUBJECT CODE.	NAME OF SUBJECT.
513432.	Design Thesis.	513455	Architectural Project
513433	Elective II	-----	E emptied.

University of Pune

Final Year B.Arch.

SUBJECT CODE: 513451				PRACTICAL TRAINING.			
TEACHING SCHEME.				EXAMINATION SCHEME			
				Paper.		---	
Lecture Periods.	---			Sessional (Internal)		100	
Studio Periods.	---			Sessional (External)		50	
Total Contact Periods. Per week				Viva-voce		50	
				Total Marks:			200

Course Aims and objectives:

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 will give the students first hand experience of dealing with live projects of various natures 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 Details:

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.
3. The students shall prepare 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.
4. The students shall produce 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 what work he has carried out.
5. The sessional and viva assessment shall be done by the Internal and External Examiner and the marks allocation shall be as follows:

Internal Assessment

Assessment of the work done By the students in the office	50 Marks.
Training Report and Log Book:	50 Marks.

External Assessment

Assessment of the work done, Training Report and Log Book.	50 Marks.
Viva-Voce by both the Examiners.	50 Marks.

Total 200 Marks.

FINAL YEAR B.ARCH.

SUBJECT CODE: 513452		ALLIED ELECTIVE II	
TEACHING SCHEME.		EXAMINATION SCHEME	
		Paper.	Nil
Lecture Periods.	1	Sessional (Internal)	50
Studio Periods.	1	Sessional (External)	---
Total Contact Periods.	2 per week	Viva-voce	---
		Total Marks:	50

Aims and Objectives:

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, Marketing 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 Details:

Following is a list of topics from which individual College 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.
2. Fine Arts and Graphics.
3. Architectural Journalism.
4. Advanced Computer Graphics.

5.Architectural Conservation.

6.Photography.

7.Applied Psychology in Arch.

8.Applied Sociology in Arch.

9.Elementary Planning Policies.

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-4 size papers properly filed in a file 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-coordinator.

FINAL YEAR B.ARCH.

SUBJECT CODE: 513453				PROFESSIONAL PRACTICE.	
TEACHING SCHEME.			EXAMINATION SCHEME		
			Paper.		100
Lecture Periods.	6		Sessional (Internal)		50
Studio Periods.	2		Sessional (External)		50
Total Contact Periods.	8	per week	Viva-voce		50
			Total Marks:		250

Objective :

To acquaint students with avenues of professional services as well as relevant scope, mode and conduct of architectural practice.

To acquaint students with documentation and procedures for execution of building work/projects as well as with management aspects of the same.

Course Outline:

- (A) Tenders :- Types and procedures , selection of contractor for building work/project, pre-qualification of contractors, letter of intent/ “works-order” to the Contractor.
- (B) Articles of Agreement and Conditions of Contract. (Study of conditions stipulated by I.I.A. , Price Escalation).
- (C) Site-visit reports and instructions.
- (D) Introduction to architectural supervision, quality control and monitoring of projects with the help of Bar-Charts/ CPM/ Pert-Charts.
- (E) Introduction to ‘Arbitration’.

FINAL YEAR B.ARCH.

SUBJECT CODE: 513454		CONTRACT MANAGEMENT.	
TEACHING SCHEME.		EXAMINATION SCHEME	
		Paper.	Nil
Lecture Periods.	6	Sectional (Internal)	50
Studio Periods.	--	Sessional (External)	50
Total Contact Periods.	6 per week	Viva-voce	---
		Total Marks:	100

Course Objective:

To introduce students to the relevance, significance and implementation process of **CONTRACT MANAGEMENT** of an Architectural Project.

Course Outline:

1. Significance of Contract Management to Architectural Project and effects on Quality Control, timely completion and Project Cost.
2. Architect's role in Contract Execution.
3. Process of Contract Management with introduction to following aspects.
 - Project organization.
 - Project Team.
 - Quality control and Architect's supervisory / monitoring role.
 - PERT/CPM and Network Techniques.
 - Time cost analysis and Value engineering.
4. Introduction to Construction Management with brief introduction to,
 - Material and Equipment Management.
 - Cost control and cash flow.
 - Manpower Management.

Sessional work.

Journal with notes on the course contents.

Report on live case study of a Project under construction.

Recommended Reading.

1. Managing Construction Projects. (A guide to processes and procedure.) Edited by A.D. Austen and R.H.Neole.
2. Techniques in Planning and controlling construction projects. By Hira N. Ahuja.

FINAL YEAR B.ARCH.

SUBJECT CODE: 513455		ARCHITECTURAL PROJECT.	
TEACHING SCHEME.		EXAMINATION SCHEME	
		Paper.	Nil
Lecture Periods.	1	Sessional (Internal)	400
Studio Periods.	13	Sessional (External)	200
Total Contact Periods.	14 per week	Viva-voce	100
		Total Marks:	700

Objectives:

- To expose students to methodical research/ investigation of an architectural topic and written presentation of the results in well compiled technical report.
- To expose and to provide opportunity to students to exercise full-fledged large scale Architectural Project with holistic approach including site investigation, programme formulation, and design demonstration.

Course outline:

The architectural project shall consist of two parts namely,

1. Research and writing of Technical Report.

The assembly of material related to Architectural Topic, usually from documents, articles, books, Internet, and personal interviews and observations. The presentation of material and its evaluation in clear and concise English precisely documented and illustrated.

2. Design Demonstration.

Formulation of Design Programme, Site investigation, and selection, and finally culminating in to concrete design demonstration.

The choice of subject shall depend upon many factors such as student's personal interest, circumstances and abilities. A careful check shall be made to see that access is available to relevant buildings and

to appropriate libraries, record offices, laboratories, and other technical resources. Thought must be given to any travel, and field trips, which may be necessary.

Following is a list of few Building Types for reference.

1. **Housing:**
Individual or Group Housing Schemes.
2. **Transportation Projects.**
Railway stations, City / Interstate Bus Terminus/ Domestic and International Air ports.
3. **Cultural, Educational Projects.**

Display oriented topics like Museums, Art Galleries, and Theatres for Performing Arts such as Drama, Dance and Music. University and College campuses, Libraries etc.
4. **Sports, Recreation and Tourism oriented topics.**

Stadium, Gymnasium, Swimming Pool, Students Recreation Centers, Clubs, Tourist Resorts, Holiday Homes, Motels, Conference Centers etc.
5. **Administrative and Civic Buildings.**

Private and Government Offices, work centers, Town Halls, Police Headquarters, Law Courts. etc.
6. **Industrial Projects.**

Factories, Specialised Production Centers such as Pharma Industry, I T Parks and related types of buildings.
7. **Technical and specialized topics such as,**

Hospitals, Clinics, Film and T.V Studios, Cost and structure oriented topics such as cost effective technologies, Energy efficient building design, Pre fabricated and Industrialized Construction etc.

Sessional Work:

Sessional work will consist of two parts namely,

1. **Technical Report:**
Size.
The typewritten Project Report shall be presented in neatly bound two original copies, which will be certified and signed by the College

Authorities as authentication of the work and by the Guide who has guided the work.

The size of the Project Report shall be hard bound book of A-3 sized 420 mmx297 mm Landscaped Format and with embossed title necessarily on the spine and front page.

Total Pages:

There shall be maximum 50 pages with one side printing.

Printing:

Font type like Arial/Helvetica/Times New Roman with 12-point size shall be used for regular typing with 15-point size shall be used for captions. The typing shall be done with 1.5 line spacing throughout. The presentation copy shall be necessarily a bound copy and not a spiral bound copy and number of copies shall be as prescribed by the College.

2. 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 student demonstrates an ability of holistic and comprehensive thinking in the areas of,

- Site planning.
- Structural considerations.
- Interior space planning.
- Environmental Planning.
- Building Services.
- Climate responsive, Energy efficient and exhibiting qualities of sustainable architecture.
- Good eye for Architectural Detailing.

The portfolio will consist of drawings sufficiently in detail to demonstrate consideration given to above-mentioned attributes of good quality Architectural Project. The emphasis shall be given to prepare self-explanatory drawings in great detail, which can be assessed in the absence of the student, as is the practice 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 both 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 marking shall be done out of 400 marks and External marking shall be done jointly by the Internal and External Examiner/s out of 300 marks, out of which 100 marks shall be reserved for oral presentation.

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 FIFTEEN 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:

- 1) Writing Hand Book. By Architectural Association and published by RIBA.