

DETAILED SYLLABUS
OF
FOURTH YEAR B.ARCH.
TO BE MADE EFFECTIVE FROM THE ACADEMIC
YEAR 2006-2007

UNIVERSITY OF PUNE.
FACULTY OF ENGINEERING.
BOARD OF STUDIES IN ARCHITECTURE.

(FEBRUARY 2005. TOTAL PAGES 1 TO 23)

UNIVERSITY OF PUNE
FOURTH YEAR B.ARCH.

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
413443	Architectural Design. IV	2	12	14	450	100	550
413444	Bldg. Construction & Materials IV	4	7	11	250	100	350
413445	Town Planning	2	1	3	100	-	100
413446	Technology Elective (Term I)	1	1	2	50	-	50
413447	Design Elective (Term I)	1	1	2	50	-	50
413448	Management Elective (Term II)	Lecture & Studio Periods same as Term I Electives			50	-	50
413449	Allied Elective I (Term II)				50	-	50
413450	Dissertation	2	2	4	100	-	100
	Total	12	24	36	1100	200	1300

BACHELOR OF ARCHITECTURE.

TABLE OF EQUIVALENCE.

FOURTH YEAR B.ARCH.

TERM I.

1997 SYLLABUS.

2003 SYLLABUS.

SUBJECT CODE.	NAME OF SUBJECT.	SUBJECT CODE.	NAME OF SUBJECT.
413421.	Architectural Design. V	413443	Architectural Design IV.
413422	Bldg. Tech.. & Mat.V.	413444	Bldg.Const.&Mat. IV
413423	Engineering VII	-----	E emptied.
413424	Quantity Surveying& Estimation. I	-----	E emptied.
413425	Town Planning I.	413445	Town Planning.
413426	Specification Writing I	-----	E emptied.
413427	Professional Practice I	-----	E emptied.
413428	Elective I	-----	E emptied.

TERM II

413429.	Architectural Design. VI	413443	Architectural Design IV.
413430	Bldg. Tech. & Mat.VII.	413444	Bldg.Const.&Mat. Iv
413424	Quantity Surveving II	-----	E emptied.
413425	Town Planning II	413445	Town Planning.
413426	Specification Writing II	-----	E emptied.
413431	Building Science V	-----	E emptied.
413427	Professional Practice. II	-----	E emptied.

**University of Pune.
Fourth Year B.Arch**

SUBJECT CODE: 413443		ARCHITECTURAL DESIGN IV.	
TEACHING SCHEME.		EXAMINATION SCHEME	
		Paper.	100 Marks.
Lecture Periods.	2 per week.	Sessional (Internal)	200
Studio Periods.	12	Sessional (External)	200
Total Contact Periods	14 per week	Viva-voce	50
		Total Marks:	550

Objective

Introduce students progressively to designing for larger environmental contexts (preferably Indian) and for more complex multifunctional complex of buildings / situations like mass scale residential, institutional, commercial, transportation, health-care facilities.

Course Outline

A Design of Urban Large scale /density based housing with approximately minimum 200 tenements of density 120 tenements /hectare. Socio-economic determinants, legislative, economic constraints and technological alternatives shall be studied in detail. Exercises in simulation and conceptual modeling shall be conducted. Application of concepts of community participation, financing and construction planning, computer aided project documentation including working drawings, preliminary estimates, outline specifications and scheduling aimed at comprehensive understanding of the implementation process.

B Design of multifunctional complex of buildings in the urban context. Issues related to the growing problems of urban areas in third world countries and their future developments shall be explored. Emphasis on the design with relation to the contextual environment, traffic and planning controls and impact analysis. An understanding of the architectural implications of such developmental scheme should lead to insights in the formulation of political and administrative policies for the development of the physical environment.

Sessional Work

- Two assignments for a period of 18 weeks each.
- Complete Self-explanatory projects, graphically presented in the form of hard copies /printouts showing comprehensive understanding of the design and implementation process as mentioned in the course outline.

- Second Design project can be given in-group, of not more than 3 students provided the project is complex enough.
- Case studies, which will supplement / support the Architectural Design project can be done in groups.
- **All Architectural Design Assignments and submissions shall lay emphasis on designing Earthquake Resistant Structures, which will be worked out in consultation with the Teacher of Structures and the submission work will reflect various technologies adopted.**

Reference Books:

All available books on Architectural Design.

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SUBJECT CODE: BUILDING CONSTRUCTION & MATERIALS IV. 413444			
TEACHING SCHEME.		EXAMINATION SCHEME	
		Paper.	100
Lecture Periods.	4	Sessional (Internal)	75
Studio Periods.	7	Sessional (External)	75
Total Contact Periods.	11 per week	Viva-voce	100
		Total Marks:	350

Course Objective:

To acquaint students with more complex structural systems, constructional details and building types with emphasis on applied constructional details from Architectural Design Project with developing the skills in Architectural Detailing.

Course Details:

Note: As far as possible and practicable various topics mentioned below shall be combined and studied as extension of Architectural Design Programme in Sem. VII AND VIII in the form of Applied Constructional Details.

1. Conceptual study of Design and Construction of long span structures like Sports Stadiums, Gymnasium, Auditorium etc. with special reference to design of seating, and various types of roofing systems. (Any one type of building shall be studied in detail)
2. Conceptual study of design and constructional details of,
 - Shell roofs.
 - Single curvature shells.
 - Short and long span barrel vaults.
 - North light and cantilever Barrel vaults.
 - Double curvature shells.
 - Shell domes.
 - Double curved shells.
3. Folded slab roofs.
4. Grid structures.
 - Space frames.
 - Flat grids.
 - Folded grids.
 - Folded lattice plates.
 - Braced barrel vaults.

- Braced domes.
5. Tension roof structures.
 6. High Rise Structures.
 7. Construction Details of an Industrial Structure with details of lighting, ventilation, rainwater disposal, gantry, and introductory details of machine foundations and high strength flooring.
 8. Construction Details of semi permanent structures such as exhibition pavilions, temporary viewing galleries etc.
 9. Constructional details of sound and heat insulation and their application in areas such as conference halls, concert halls, recording studios, cold storage rooms, roof insulation etc.
 10. Constructional details of swimming pools and all the appurtenant services.
 11. Constructional details of multi basement (maximum double basement) with waterproofing treatment, lighting, ventilation, rainwater disposal and diaphragm walls below ground level.
 12. Housing colony road constructional details including basic terminology, surface water drainage etc.
 13. Conceptual study of Design and Construction of Curtain Walls and Structural Glazing including thermal facings and cladding details.
 14. Conceptual study of shoring and underpinning.
 15. Study of materials and constructional details of Expansion Joints.
 16. Interesting Architectural and Interior details based on Architecture Design Project. (Min two details each)
 17. Earthquake Resistant Building Construction.
 - Quality control in construction, sequence of construction, good supervision practices, critical check points and certification at certain stages, reporting, maintenance of records, testing etc.
 - Seismic vulnerability evaluation of existing buildings.
 - Weakness in existing buildings, aging, weathering, developments of cracks etc
 - Concepts in repair, restoration, and seismic strengthening materials, and equipments for restoration of masonry, and concrete structures.
 - Methodologies for seismic retrofitting.
 18. Fire resisting constructional details.
 - 19 Study of following Material shall be done.
 - Sound and Heat insulating Materials.

- Plastics and rubbers.
- Adhesives.
- Mastics and sealants.
- Bituminous Materials used in road construction.
- Any other material incorporated in above-mentioned construction but not covered above.

Reference Material

1. Elements of Structures by MORGAN.
2. Structures in Architecture by SALVADORI
To Study standard building construction
3. Building Construction by MACKAY WB. Vol.1 to 4
4. Construction of Building by BARRY Vol. 1 to 5
5. Construction Technology by CHUDLEY R. Vol. 1 to 6
6. Building Construction illustrated by CHING FRANCIS D.K.
7. Elementary Building Construction by MITCHELL.
8. Structures and Fabric by EVERET

To study building materials.

- 1: National Building Code and I.S.I. Specifications.
- 2: Materials and Finishes by EVERET.
- 3: A to Z Building Materials in Architecture by HORNOSTLE.

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SUBJECT CODE: 413445		TOWN PLANNING.	
TEACHING SCHEME.		EXAMINATION SCHEME	
		Paper.	Nil
Lecture Periods.	2	Sessional (Internal)	50
Studio Periods.	1	Sessional(External)	50
Total Contact Periods per week 3		Viva-voce	Nil
		Total Marks:	100

Objectives:

To provide Town Planning inputs to architectural design. It is intended that Town Planning exercises should run parallel to the topics being taken up in architectural design studio. The focus will be on application of Town Planning theories in Town Planning studio.

Course Outline:

- 1) Introduction to the subject of Town Planning, need of study of Town Planning for an architect.
- 2) Planning Theories- Theories by Le Corbusier, Sir Patrick Geddes, Sir Ebenezer Howard, C.A. Doxiadis, Clarence Perry and Lewis Mumford.
- 3) Study of existing settlement with respect to current theories in planning.
- 4) New towns and cities in India. (Administrative, Tourism Potential Areas, Industrial, Railway Town, Religious Activities, Project Based Areas etc.)
- 5) Introduction to Town Planning Schemes, Development Plan and Regional Plan. Types of surveys (Physical, Social and Economical, Aesthetic Surveys.) and method of their analysis, policy making and implementation, including finance funding and phasing.
- 6) Housing – National housing policy, social aspects of housing, economics of housing, Types of housing based on various aspects and land economics.
- 7) Introduction to Planning Legislation :Introduction to M.R.T.P. Act of 1966, Land Acquisition Act of 1894, Maharashtra Slum Redevelopment Act, Urban Arts Commission Act, Maharashtra Tree Act, Municipal Act, Urban Ceiling Act, M.I.D.C Act, Mhada Act. Development Control Rules for A, B, C Class Towns, and Municipal Corporations. Development Control Rules of Local Municipal Corporations.

8) Introduction about Professional Bodies in planning profession such as T.C.P.O. and I.T.P.I. etc. Various Planning authorities like D.D.A., CIDCO, MMRDA, and PCNTDA etc. Introduction to Local and Self Government in urban as well as rural areas, introduction to 73rd and 74th amendment to the constitution.

9) Urban redevelopment and renewal including necessary surveys, Urban traffic and Transportation.

10) Brief study about role of Urban Design, Landscape Design and Streetscape Design in Town Planning.

Sessional Work:

1. Subdivision of plots.(including conversion of land to Non Agriculture use)
2. Study report on Town Planners and towns designed by them.
3. Neighborhood layout.
4. Redevelopment of existing slum area of the city.
5. Project based on Urban Design and Landscape Design aspects in planning.
6. Case studies of various types of housing.
7. Visit to any of the planning organizations, builders and promoters.
8. Study of existing Town and Town Planning proposals.
9. Urban renewal scheme.
10. Social and environmental problems of sporadic and unplanned growth of urban and rural areas.

Recommended Readings:

1. Urban Pattern – Arthur B. Gallion.
2. Design of Cities – Edmund Bacon.
3. Site Planning- Kevin Lynch.
4. Image of City – Kevin Lynch.
5. Town and Country Planning in India – N.K. Gandhi.
6. Town Planning- Law, Administration and Professional Practice. – G.R.Diwan.
7. P.W.D. Handbook of Town Planning.
8. Development Plan and Regional Plan Reports.
9. Tomorrow- Peaceful Path To Social Reforms – Sir Ebenezer Howard.
10. Basics of Town Planning- J.G.Keskar.
11. Townscape-Gorden Cullen
12. Architecture of Town & Cities. – Paul D. Spreiregen.
13. The New Landscape – Charles Correa.
14. Land Acquisition Act of 1894.
15. Maharashtra Slum Redevelopment Act.
16. Urban Arts Commission Act.
17. M.R.T.P. Act of 1966.

Teaching Plan:

1. Out of all the exercises mentioned in sessional work, minimum **SIX** exercises are to be completed including following three compulsory exercises.
 - i) Case studies of various types of housing.
 - ii) Study of existing Town and Town Planning proposals.

- iii) Project based on Landscape Design, Urban design aspects in Town Planning.
2. Out of the rest excluding above three exercises any three could be taken up in rotation.
3. All the exercises mentioned in Sessional work will be group work. Individual student will carry marks from individual total.

Sessional Assessment:

1. There will be periodic assessment throughout the year. No journal is expected for assessment.
2. Sessional work will be assessed at the end of the academic year in equal proportions by external and internal examiners.

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SUBJECT CODE: TECHNOLOGY ELECTIVE. (Term I) 413446			
TEACHING SCHEME.		EXAMINATION SCHEME	
		Paper.	Nil
Lecture Periods.	1	Sessional (Internal)	50
Studio Periods.	1	Sessional(External)	Nil
Total Contact		Viva-voce	Nil
Periods.	2	Total Marks:	50
per week			

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 Technology Elective topics are as follows.

1. Modular Planning and System Building Construction.
2. Non-Conventional Technologies.
3. Rural (Vernacular) Architecture.
4. Energy Efficient and Eco Friendly Construction.
5. Earthquake Resistant Construction.
6. Smart and Intelligent Buildings.

7. Building Performance Analysis and Appraisal.
8. Structure and Form in Architecture.

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 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.

**University of Pune.
Fourth Year B.Arch.**

SUBJECT CODE: 413447		DESIGN ELECTIVE. (Term. I)	
TEACHING SCHEME.		EXAMINATION SCHEME	
		Paper.	Nil
Lecture Periods.	1	Sessional (Internal)	50
Studio Periods.	1	Sessional(External)	Nil
Total Contact Periods per week 2		Viva-voce	Nil
		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 Design Elective topics are as follows.

1. Interior Design
2. Industrial and Product Design
1. Urban Design
2. Advanced Landscape Design
3. Housing
4. Set Design
5. Special Facilities Planning
6. Sustainable Development and Architecture

7. Barrier free Environment and Design
8. Urban and Rural Planning
9. Infrastructure Planning
10. Advanced Computing in Architecture
11. Climate responsive Architecture.
12. Mathematics and Science in Design.
13. Theory of Architecture.

DETAILED SYLLABUS

1. Sustainable Development and Architecture

- Philosophy of Sustainability, management and design aspects
- Management in terms of resource and conservation management, antipollution measures, Water / waste management etc.
- Design aspects in terms of designing the structures, such as solar passive, energy efficient, cost-effective, eco friendly designing.
- . Studying other forms of energy and their applications like Tidal / hydal/ wind/biotic.
- Studying environmentally sustainable technologies, construction techniques, and use of materials.
- Studying environment related broader topics and issues like river-beds, environmental pollution etc.

2. Barrier free environment and design

- Types of disabilities and its implications in Architecture, barrier free environment, access- provisions to facilities and amenities.
- Special design considerations in residential buildings, congregational buildings like auditoriums, theatres, studios, transport terminals etc, Institutional buildings, outdoor appurtenances, garden – parks etc.
- Study of norms set by Central Government.

3. Natural Disaster resistant architecture

- Types of disasters like earthquake, fire, floods, cyclones, Tsunami and its effects on Architecture.
- Study of geological structure and its deformation, study of behavior of the structure in such disasters, Measures to counteract destabilizing forces, design aspects and considerations for various types of buildings especially the residential, congregational and institutional buildings.

4. Urban and Rural Planning

- Introduction to hierarchy of planning- levels and their impact on architecture and architectural profession, understanding the interrelation between urban planning and architecture in terms of FSI, Ground coverage, density and urban form.
- . Comprehensive plan of action for reducing inter-regional and intra-regional disparities. Introduction to Regional plans, Master plans, Zonal

plans, town planning schemes and urban design schemes. Special requirements for rural planning.

5. Infrastructure Planning

- Need for infrastructure planning, Introduction to types and design of infrastructure requirements for large scale architectural projects like drainage, water supply, storm water drainage, electrification, fire-fighting, road and transport facilities, provision of amenities, security systems, remote control systems, telecommunication systems etc.

6. Advanced Computing in Architecture

- Software customization – developing expert system for parametric design using languages such as Visual Basic, Auto Lisp etc. Developing plug-ins for programs like 3D Studio Max etc
- . Expert software which can either be a part of the main software or a third party software for tasks like working of quantities, making atomization for typical drawings such as municipal / centerline plans etc.
- Advanced 3D modeling with the use of animated maps, Special effects plug-ins, advanced lighting, animations etc.
- Exploring the use of Internet for architectural data exchange and development of web-based solutions for the same (eg. Web page designing).
- Virtual Reality
- Intelligent building and design
- Understanding / Exploring softwares like Ideas, Catia, ProE Used for designing complicated structures like the Bilbao Museum in Spain or most of the buildings of Frank Gehry.

7. Special Facilities Planning in Hotels and Hospitals

- Fumigation
- A/c for rooms, lobbies, lounges, OT
- Central gas/suction supply
- Electrification for various spaces and gadgets like defibrillator, CT scan, radiology, MRI etc
- Waste management with incinerator etc.
- Laundry
- Hot water, Boiler, Solar
- Emergency lighting
- Food management/movement/ kitchen layouts/ stores/ eating places
- Service floor
- Channeled music

8) Large span structures like Multiplex, Auditoriums, Railway stations, covered studio, airport terminal, hangers etc.

- Structural systems
- Light and ventilation
- Seating
- Crisis planning routes during emergency
- Surface finishes
- Rain water disposal

- Luggage movement
- Parking
- Telecommunication and security systems

NOTE: Detailed syllabus for all other Elective Topics will be finalized by individual College in consultation with expert Faculty, considering the time and marks allotted to the subject.

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 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.

**University of Pune.
Fourth Year B.Arch.**

SUBJECT CODE: 413448		MANAGEMENT ELECTIVE. (Term II)	
TEACHING SCHEME.		EXAMINATION SCHEME	
		Paper.	Nil
Lecture Periods.	1	Sessional (Internal)	50
Studio Periods.	1	Sessional(External)	Nil
Total Contact Periods per week 2		Viva-voce	Nil
		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 Management Elective topics are as follows.

1. Project Management.
2. Architectural Legalities.
3. Architect's Office Management.
4. Disaster Risk Management.

5. Entrepreneurship Development and Total Quality Management.

6. Information Technology in Architectural Profession.

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.

**University of Pune.
Fourth Year B.Arch.**

SUBJECT CODE: 413449		ALLIED ELECTIVE. (Term II)	
TEACHING SCHEME.		EXAMINATION SCHEME	
		Paper.	Nil
Lecture Periods.	1	Sessional (Internal)	50
Studio Periods.	1	Sessional (External)	Nil
Total Contact Periods per week 2		Viva-voce	Nil
		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.Housing Finance and Building Economics.

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 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.

**University of Pune.
Fourth Year B.Arch.**

SUBJECT CODE: 413450		DISSERTATION.	
TEACHING SCHEME.		EXAMINATION SCHEME	
		Paper.	Nil
Lecture Periods.	2	Sessional (Internal)	50
Studio Periods.	2	Sessional (External)	50
Total Contact Periods per week 4		Viva-voce	Nil
		Total Marks:	100

Aims and Objectives:

The subject of Dissertation is included in the syllabus with the intention of acquainting students in research methodologies adopted while carrying out research in a particular subject. The subject is an introduction to the students in conducting systematic research in the subject of their choice but in overall Architectural Context. In professional career the Architects are required to carry out investigations on various aspects of the project including its socio-economic aspects, overall viability, short term and long-term gains etc, the project's environmental impact and its analysis, traffic surveys, building performance analysis and appraisal etc. The students are expected to get orientation in **Technical Writing**, which is an emerging field for making a career. At postgraduate level the students are trained to carry out in depth study and research of more complex topics. The Dissertation is expected to impart initial training at undergraduate level so as to prepare them for more advanced research at postgraduate level.

Course Details:

The selection of subject topics is left to the students. It is possible that in keeping with the school's commitments and over all policy and mission statement, certain themes may be selected which will have social and architectural relevance and the research carried out will be useful to various organizations such as public bodies, corporations, NGO'S etc which are looking out for this kind of research to take policy decisions at State and National level. Individual College will appoint resource persons who have got sufficient experience in carrying out research and in Technical Writing.

The students are expected to carry out this activity individually or in groups but the submission of report will have to be done individually.

The report will contain three parts namely,

1. Reasons for selecting a particular topic and detailed synopsis of the topic selected.
2. Research Methodology adopted which will include personal interviews, written correspondence, questionnaires, sample surveys, photographs, statistical data and any other supporting documents.
3. The last part will contain actual report in approximately 3000 words with proper illustrations, pie charts. Photographs etc. with student's inferences, and recommendations.

The students will take extra precaution in using proper technical language for which the College shall make sufficient reference material available. The College will take this opportunity in identifying relevant themes and organizations in their neighboring areas and make this research available to them, thereby contributing to public well being and in the process giving vital training to the students.
