

5TH YEAR / IX Semester

ARCH 901: ARCHITECTURAL DESIGN STUDIO VII

COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION							TOTAL MARKS	EXAM DURATION (HRS)		
				L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO						
									MST 1 10%	MST 2 10%	A. MST 10%	SS 50% OR 30%	ESUE 40%	TOT AL	IA 10% OR 60%			EV 10% OR 40%	TOTAL
ARCH 900	AR	STUDIO	ARCHITECTURAL DESIGN STUDIO VII			16	16	16								420	280	700	

L - THEORY; S- STUDIO , T- TUTORIAL; C - CREDIT-HRS: HOURS : MST - MIDTERM TEST , A.MST - AVERAGE OF MIDTERM , ESUE - END SEMESTER UNIVERSITY EXAMINATION; IA - INTERNAL ASSESSMENT PROGRESSIVE.;SS- FOLIO FINAL Sessional (INTERNAL) , EV - EXTERNAL VIVA VOICE,RVW - INTERMEDIATE REVIEW

COURSE OVERVIEW:

The course aims at teaching the design of urban block for people-centric designs with context related large-scale buildings for public uses.

OBJECTIVES OF THE COURSE:

To develop abilities in design in the context and people centric of user requirements.

EXPECTED SKILLS / KNOWLEDGE the TRANSFERRED:

Design vocabulary, enhancement and sensitization of student in design preparation and its relation to structural systems

COURSE CONTENTS:

- **Theme & focus of design:** People-centric, context intensive public-use projects demanding comprehensive Understanding of the urban framework.
- **Basic Components:** Behavioral Science; Functionality; Building Materials; Theory of Design; Form Development; Tectonic decisions: Structures, Building Materials, Services; Site Planning; Building Control Regulations; Inclusive Design; Design Communication.
- **Streetscape:** Importance, Exploring & Understanding the essence; detailing process; User analysis; Elements; functionality, aesthetics; Materials. This Minor Exercise will be represented through conceptual development (sketches, physical & digital models).
- **Precinct Analysis:** Exploration & analysis of trendsetting Urban Design works; Understanding urban design theories & processes; Learning from design quality; Literature/book reviews; Urban Design critiques.
- **Design Exercise:** Context Design. The complexity of design: Master planning, Precinct morphology & Building Detailing; Detailed study & analysis of the existing urban fabric. Formulation of strategies for intervention. Development of Design program for Civic Architecture. Typology: Large-scale public use projects: Commercial Zones, Mixed-Use Developments, Waterfront Developments, Heritage Zones, Redevelopment Projects, Civic Centers, Housing Schemes, Transit Oriented Developments, Recreational Precincts, Sites & Services Schemes etc. Site extent: Precinct up to 20,000 m2 with an influence zone of 40,000 to 60,000 m2.

GUIDELINES

One Major And Minor tasks/ exercises are to be set from the entire syllabus

The topic of the project is to be displayed on Institute Notice Board fifteen days in advance OF commencement of the classes

NOTE :

Necessary theoretical inputs to be given highlighting the norms and design issues. The topics not covered as design problems will have to be covered by the Studio faculty members through lecture/slideshow sessions and site visits.

At least one major exercises and one minor design with two-time problems should be given.

The final submission shall necessarily include a model for at least one of the two main problems.

In end exam which is a viva-voce, the students have to present the entire semester work for assessment.

Evaluation is to be done through viva voce by an external examiner appointed by the university at Institute. Portfolios, after the university exam, shall be retained at the Institute level for the viva - voice

REFERENCE BOOKS:

Bousmaha Baiche & Nicholas Walliman, Neufert Architect's data, Blackwell Science Ltd.
 Building Code – ISI
 Chiara Joseph de and Others. Time Savers Standards of Building Types. McGraw – Hill, 1990.
 Ching, Francis D.K. Architecture: Form, Space, and Order, 2nd Ed. Van Nostrand Reinhold, New York, 1996.
 Criss B.Mills, Designing with models: A Studio guide to making & using architectural models, Thomson & Wadsworth, USA,2000.
 DeChiara and Callender, Time-saver standards for building types, Mc Graw Hill company

Hanks, A. David. Decorative Designs of Frank Lloyd Wright, Dover Publications, Inc. New York, 1999.

Hepler, E. Donald, Wallach, I. Paul. Architecture Drafting and Design, 3rd Ed. McGraw-Hill Book Company, New York, 1977.

Itten, Johannes. Design and Form: The basic course at the Bauhaus, Thames and Hudson Ltd., London 1997.

Kirk, Paul Hayden and Sternberg, D. Eugene. Doctors Offices and Clinics, 2nd Ed. Reinhold Pub., USA, 1960.

Krier, Rob. Architectural Composition, Academy Editions, London, 1988.

Maier Manfred Basic Principles of Design, Vol.1, 2, 3 & 4, Van Nostrand Reinhold, NY. (1977)

Meiss, Pierre Von. Elements of Architecture: From form to place, E and FN Spon, London, 1992.

Mike w.Lin, Drawing & Designing with confidence – A step by step guide, John Wiley & sons, USA, 1998.

Neufert, Ernst. Ernst Neufert Architects Data, Granada Pub. Ltd., London, 2000.

Peloquin, Albert. Barrier-Free Residential Design. McGraw-Hill, Inc., New York, 1994.

Pevsner, Nikolaus. A History of Building Types. Thames and Hudson, London, 1976.

Ramsey / Sleeper, National Architectural graphic standards, The American Institute of Architects

Sam F Miller, Design process– Van Nostrand Reinhold

Shah, S. Charanjit. Architects Hand Book Ready Reckoner. Galogotia Pub., New Delhi, 1996.

Smithies, K.W. Principles of Design in Architecture. Chapman and Hall, 1983.

Untermann, Richard and Small, Robert. Site Planning for Cluster Housing.

Wucius, Wong. Principles of Two Dimensional Design. Van Nostrand Reinhold 1972.

Time saver standards for building types, DeChiara and Callender, Mc Graw Hill company

National Building Code - ISI

Patricia Tutt and David Adler, New Metric Handbook — The Architectural Press

Chiara Joseph de and Others. Time Savers Standards of Building Types. McGraw – Hill, 1980.

Dawes, John. Design and Planning for Swimming Pools. The Architectural Press, London, 1979.

Ruknstein, M. Harvey. Central City Malls.

ARCH 906: INTERIOR DESIGN

COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION							TOTAL MARKS	EXAM DURATION (HRS)		
				L	T	S	CREDIT	TOTAL CLASS HRS	THEORY					STUDIO					
									MST 1 10%	MST 2 10%	A. MST 10%	SS 50% OR 30%	ESUE 40%	TOT AL	IA 10% OR 60%			EV 10% OR 40%	TOTAL
ARCH 906	AR	THEORY	INTERIOR DESIGN	1		2	3	3	15	15	15	45	60	120	15	15	30	150	3

L - THEORY; S- STUDIO ; T - TUTORIAL; C - CREDIT; HRS: HOURS ; MST - MIDTERM TEST , A.MST - AVERAGE OF MIDTERM , ESUE - END SEMESTER UNIVERSITY EXAMINATION; IA - INTERNAL ASSESSMENT PROGRESSIVE; SS- FOLIO FINAL Sessional (INTERNAL) ; EV - EXTERNAL VIVA VOICE; RVW - INTERMEDIATE REVIEW

COURSE OVERVIEW:

The course provides a framework of the discipline by addressing the theoretical, social, Historical, technological, professional aspects of Interior Design.

OBJECTIVES OF THE COURSE:

Understanding of the various issues involved in planning knowledge design solutions for interiors

EXPECTED SKILLS / KNOWLEDGE TRANSFERRED:

To understand the techniques of planning and construction for an interior project using different materials

COURSE CONTENTS:

- **Introduction to interior design:** History, styles; Behavioral Science: Nature & role of social, physical & built environment; Environmental psychology: behavior, psychology, perceptions, preferences, etc.; Basic components- Functionality, Services, Inclusive Design; Basic elements of design for evolution of creativity - dot, line, plane, volume 2D & 3D. Basic principles of design - Axis, symmetry, balance, focus, rhythm, harmony, unity, variety, contrast, hierarchy, scale & proportion, movement, emphasis, dominance, fluidity, articulation & order.
- **Concept & theme Development:** Enclosures & envelopes to formulate the volumes, response to functional spaces; Functionality: Spatial Organization & Planning; Derivation of quantitative aspect of spaces based on User-Activity Analysis, furniture/equipment, Anthropometry, Ergonomics, Layout, Circulation, etc.; qualitative aspects based on ambience.
- **Technical decisions-** Constructional details & Material specification- Exploration & selection responding to functionality & aesthetics; Decisions for aesthetics: Color, textures, patterns, surface finishes, ornamentation, furnishings, accessories, interior Landscaping, etc. with reference to visual comfort & ambience in the interiors.
- **Services** - Mechanical & Environmental System: HVAC, electrical, firefighting, sanitary & plumbing, security, telecommunications, lifts, escalators, lighting & acoustical systems etc. responding to functionality & aesthetics.
- **Design & Detailing:** Broad Typology: Residential/ Commercial / Retails / Offices/ Institutional/ Hospitality/ Recreational/ Sports/ Healthcare/ Others. Site extent: Ranges from 200 m2 - 600 m2.

GUIDELINES

One Major And Minor tasks/ exercises are to be set from the entire syllabus

The topic of the project is to be displayed on Institute Notice Board fifteen days in advance OF commencement of the classes

GUIDELINES FOR QUESTION PAPER SETTING

All Theory cum studio-based courses

- Part- A (5 NOS X 6 MARKS = 30 MARKS) Answer all questions
- Part- B (2 NOS X15 MARKS = 30MARKS)
- (Either or type)

(Since they are a mix of drawing and theory content, all

Part-A questions relate theory

Part-B questions are drawing based.

It is not possible for a candidate to answer more than 4 drawing questions in a three-hour duration)to theory and all

- Students will be required to attempt 5+2 questions from the Eight questions, are to be set from entire syllabus. where 2 questions may be short answer , 2 questions may be short answer type with 2- 3 subheads and 2, short with 4 subheads answer type and 2 essay type questions which is compulsory.
- Students should attempt total 7 Questions including the compulsory question.
- Question paper is to be set covering the entire syllabus.

NOTE :

Students would need to undertake one of the design subjects for the studio exercise. Students may be required to develop a brief, translate it into requirements and design. One Major design exercise should be given.

The evaluation shall be through periodic internal reviews. The final submission will include a brief report of about 1000 words explaining the concept and design proposals for the main portfolio. It will also include a model.

Evaluation is to be done through viva voce by an external examiner appointed by the university at Institute. Portfolios, after the university exam, shall be retained at the Institute level for the viva - voice

REFERENCE BOOKS:

Archi World. Interior Best Collection: Residence, Commerce, Office, Restaurant Asia I-IV. Archi World Co., Korea, 2003.
Friedmann, Arnold and Others. Interior Design: An Int. to Architectural Interiors. Elsevier, New York, 1979.
Miller, E. William. Basic Drafting for Interior Designers. Van Nostrand Reinhold, New York, 1981.
Kurtich, John and Eakin, Garret. Interior Architecture, Van Nostrand Reinhold, New York, 1993.
Rao, M. Pratap. Interior Design: Principles and Practice, 3rd ed. Standard Pub., 2004.

ARCH 905: RESEARCH METHODOLOGY AND DISSERTATION

COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION							TOTAL MARKS	EXAM DURATION (HRS)			
				L	T	S	CREDIT	TOTAL CLASS HRS	THEORY					STUDIO						
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ARCH 905	PR	THEORY	RESEARCH METHODOLOGY AND DISSERTATION			3	3	3								50	50	100	100	

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COURSE OVERVIEW:

The course provides students with a framework to understand some emerging concepts in architecture and projects of design complexity and equip the student with adequate architectural design research methods for the realization of thesis concept. During the course of study, the subject of the thesis is developed and the project articulated.

The subject of Dissertation is included in the syllabus with the intention of introducing the students to the process of conducting systematic research in the subject of their choice but in the overall Architectural Context and acquainting them with the research methodologies adopted while carrying out research in a particular subject. The students are expected to get an orientation in Technical Writing which is an emerging field for making a career. The Dissertation is expected to impart initial training at undergraduate level so as to prepare them for more advanced research at postgraduate level. The topic of research should relate to the "Architectural Project" that the student intends to undertake. This will help the student to extend the findings of the research to the architectural design.

OBJECTIVES OF THE COURSE:

To impart knowledge to students, on the tools and methods needed to handle a design project of reasonable complexity individually,

- To introduce the students to research in architecture and its significance in the architectural practice.
- To introduce the students the types of research in architecture and the process of formulating a research plan.
- To introduce the students to various methods of research in architecture, their relative advantages and disadvantages and their applications.
- To introduce the students to data analysis and simple statistical analysis and to interpret and infer from the data.
- To introduce the students to the technical writing and presenting a research report.

EXPECTED SKILLS / KNOWLEDGE TRANSFERRED:

The skills required to collect, assimilate and synthesis data relevant to handle a design thesis project independently.

COURSE CONTENTS

Introduction to research in architecture – its significance, research design, types of research, literature study, methods of research in architecture (Interviewing / visual methods / content analysis); data documentation and analysis, introduction to statistics, presenting the data and reporting the research.

- **Introduction to research:** Introduction to " research" and its significance in architecture – meaning of research. Relationship between design and research. areas of research in architecture, qualitative and quantitative paradigms. Domain of Architectural Research; Understanding the nature of research in architecture- Need & significance; Objectives; Characteristics; Ethics; Concepts of theory; Research methods in Architecture.
- **Research Process:** Types of Research; Research methods & Research methodology; Research Process; Review of literature, research statement; Research design – need, components, considerations. Literature Study and Research : Significance of literature study in research, different sources of information such as books, journals, newspapers, internet, magazines, audiorecordings, etc. Referencing and documenting the bibliography.
- **Data Collection & Sampling:** Methods of Research in Architecture , Interview Techniques : Questionnaires /Face to face Interviews / Internet survey. Designing a Questionnaire / Interview schedule. Visual Techniques : Observations (participant / nonparticipant / direct), activity mapping, accession/erosion trace observations, cognitive maps, etc. Content Analysis : Secondary data analysis. Understanding the relative advantages, disadvantages and application of various methods mentioned above and choosing a

method appropriate for a research to achieve its objectives.

- Primary data; methods of data collection ; survey & observation; Questionnaires - types, aspects, sequence, Observation- types, characteristics, advantages, limitations etc., recording observations; Secondary data- sources, characteristics; Other Methods of Survey - visual, use of mechanical devices etc.; Sampling - need, significance, methods, classification, characteristics, determining sample size, time, event sampling etc.
- **Data Analysis:** Overview of measuring & scaling techniques; Processing & analysis of data - descriptive & inferential; graphical representation of analysis.
- **The report, Paper & proposal writing:** Purpose, characteristics, guidelines, steps, format, structure, contents, presentation, referencing style, ethical issues: plagiarism etc.

THESIS REPORT

- Introduction to architectural thesis Project, Difference between design thesis and design studio, selection of topics for architectural design thesis, design thesis topics based on building typologies, preparation of synopsis, Methodology of design thesis.
- Emerging concepts in architecture due to changes in social, economic, technological variables. Review of design projects related to real-world instances and relevant to the community at large. Review of projects of design complexity, involving themes, sub-themes and architectural expression.
- Research in architecture: Tools and Methods required to handle a design project. Scientific methods of research with special emphasis on architectural research methods. Architectural enquiry visual, observations, questionnaire formats of enquiry, Literature Review and case studies. Data analysis techniques interpretation of data.
- Thesis report writing and presentation:
 - Formats for the presentation of data, case studies and analysis.
 - Formats for the presentation of thesis design- media appropriate in the architectural profession such as two-dimensional drawing, physical models, three-dimensional computer models.
 - Report Writing: Techniques in report writing, presentation of contextual information relevant to the interpretation of the data collected and design; reporting the design development from concept to design solution, explain the relation of the design to existing knowledge on the topic in the form of coherently written thesis report.

Note: Thesis process will give the opportunity to students to harness their research abilities on identifiable domain & demonstrate the research as an application for a design project in the same identifiable manner. The Thesis Process assessing research abilities on identified domain & demonstration of research as an application on a design project. The process of the thesis will be in two stages: Domain Research & Design Project-Research Paper, Thesis research will further continue in preparing the base work for the design project in the eighth semester. Base work will involve literature survey for identified parameters, secondary case studies, primary guidelines, identification of primary case studies & site, preparation of process of case studies, & site studies. Secondly, to prepare the guidelines & checklist for case studies & site studies. The process for Thesis I: Inquire will include: Subject Description, Identification of domain, Fundamentals of design domain, Identification of project, its scale & complexity, Identification of scope of work, User activity analysis, Identification of parameters of Thesis & Prioritization, Selection of focus. Research focus - Research shall involve selection of the broad area of study, defining the scope of the study, finalization of the methodology, data collection, analysis, interpretation, & research paper writing.

SYNOPSIS

CASE STUDY

GUIDELINES

A Class test based upon the units 1 to 4. (20 % of total marks) to be conducted at the end of term Writing a review essay of about 1000 words on any one book / part of a book (chapter) related to architecture, read by the student. (10% of total marks) in term

The topic of the project is to be displayed on Institute Notice Board fifteen days in advance OF commencement of the classes

- Undertaking research on a topic (for Architectural Project approved by the University of Pune).
- a. Approach to research, research design (20% of total marks)
- b. Field work (data collection) and Analysis of the data (20% of total marks)
- c. Report writing and presentation (30% of total marks).

- Phases (a) above can be assessed in term I while phases (b) & (c) above, will be essentially assessed in the term II.

SUBMISSION, CHAPTERS AND FORMAT OF THE REPORT

(Architectural Project Part I):

Candidates must submit three copies of the report duly signed and endorsed by the Principal and the Guide to their respective Institutes. Following is a brief guideline for the sections / chapters in the report and the formatting of the report.

- 1. The report will have three main parts :
 - a. Initial Pages –in the following sequence.
 - i. Title Page.
 - ii. Certificate from the Institute
 - iii. Acknowledgement.
 - iv. Table of Contents
 - v. List of figures, photos, drawings, tables.
 - vi. List of abbreviations
 - b. Main body of the report (not to exceed 4000 words).
 - i. Introduction
 - ii. Literature review
 - iii. Methodology
 - iv. Data Analysis and Findings
 - v. Conclusions & Discussions
 - vi. Recommendations / Design Guidelines
 - vii. Glossary
 - c. Appendices
- 2. Formatting of the report
 - a. The report shall be presented in A4 Portrait form using executive bond paper.
 - b. The font to be used shall be either Times Roman or Arial.
 - c. CHAPTER TITLES : 16 point upper case bold, Subheadings : 14 point title case bold and overall text shall be in 12 point sentence case.
 - d. Line Spacing shall be 1.5 lines.
 - e. Page numbers shall be given at the bottom centre of a page. The initial pages (as in 1 above) should have roman small numerals (i, ii, iii etc.) while the body of the report and appendices shall have English numerals (1,2,3 etc.)
 - f. Margins : Left Margin 40mm (1.5 inch approx) All other margins 25mm (1 inch approx).
 - g. Report shall be typed on one side of the page.
 - h. Black binding with Golden Embossing.
 - i. Standard conventions for giving references, writing bibliography, annotating figures /tables shall be followed.

RECOMMENDATIONS:

- **Topic for Research:** The topic of research should be related to the “Architectural Project” that the student intends to undertake. This will help the student to extend the findings of the research to the architectural design. In this manner, the effort for dissertation would become focused, directional and relevant. 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.
- Thus coordination between “Dissertation” and “Architectural Project” at the Institute level is very essential and an over view meeting with the students should be arranged at the end of the third year B.Arch. Depending upon the philosophy of a particular Institute, the Institute may allow topics focusing upon a particular area related to their mission statement. Following is a list of some 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 Institute 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, IT Parks and related types of building
- **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.

NOTE: - The inputs to the students on various design thesis topics would be in the form of Expert /Guest Lectures

Each student in consultation with the faculty shall choose a thesis topic, collect necessary data, review literature on the chosen topic and present a written paper and seminar at the end of the semester.

Emphasis should be laid on understating of Building Research. The continuous evaluation shall be made of students work based on various models, assignments and reports

- **Guide:** The guides for the dissertation should have minimum 8 yrs. of teaching experience as full time faculty member at an architecture Institute or shall be a visiting faculty member / practitioner with at least 10 yrs experience. Preferably, a guide should not guide more than 8 students for the dissertation.
- **The dissertation coordinator** at a Institute, should deliver research methods lectures and at times call experts from the field of architecture to review students' work, experts from other fields to give special inputs such as technical writing, statistical methods etc.

REFERENCE BOOKS:

- *Spector, Tom and Rebecca Damron, How Architects Write (2012)
 Babbie, E. The Practice of Social Research, (third edition). Belmont :Wadsworth Publishing Co. 1983.
 Barnett, Sylvan. A Short Guide to Writing about Art (9th ed.: 2008)
 Barrass, Robert. Writing At Work \b a guide to better writing in administration, business and management, London: Routledge, 2003.
 Becker, Howard S. Writing for Social Carrier, David. Principles of Art History Writing (1991)
 Becker, Howard S., Writing for Social Scientists: How to Start and Finish Your Thesis, Book, or Article (1986)
 Clark, Roy Peter. Writing Tools: 50 Essential Strategies for Every Writer (2006)
 Creswell, J. W. Research Design: Qualitative, quantitative and mixed methods approaches, 2nd Ed., Thousand Oaks : Sage. 2003.
 Creswell, J.W. Research Design: Qualitative & Quantitative Approaches. Thousand Oaks : Sage.1994.
 D'Alleva, Anne. How to Write Art History (2006)
 De Vaus, D. A. Surveys in Social Research, Jaipur : Rawat Publications. 2003.
 Dey, J. Qualitative Data Analysis : A User Friendly Guide for Social Scientists, London : Routledge.1993.
 Forty, Adrian, Words and Buildings: A Vocabulary of Modern Architecture (2000) MLA Handbook for Writers of Research Papers (7th ed.): 2009)
 Frederick, Matthew. 101 Things I Learned in Architecture School (2007)
 Graff, Gerald and Cathy Birkenstein. They Say/I Say: The Moves That Matter in Persuasive Writing (2007)
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 Groat, Linda and David Wang. Architectural Research Methods (2002)
 Jo Ray McCuen, Anthony Winkler. Readings for writers, 9th ed., Fort Worth: Harcourt Brace Institute Publishers, 1998.
 Kothari, C.R. Research Methodology : Methods and Techniques, New Delhi : Wishwa Prakashan. 2005.
 Lange, Alexandra. Writing About Architecture (2012)
 Mukhi, H.R. Technical Report Writing: Specially prepared for Technical and Competitive Examinations, New Delhi: Satya Prakashan, 2000.
 Nachmias, C. F. and Nachmias, D. Research Methods in the Social Sciences, 5th Edition Great Britain: St. Martin's Press Inc. 1996.
 Norman K Denzin and Yvonna S Lincoln (Eds.) Handbook of Qualitative Research, Thousand Oaks : Sage Publications, pp. 377392. 1994.
 Patton, M. Q. Qualitative Evaluation Methods, Newsbury Park : Sage Publications. 1980.
 Sanoff, H. Methods of Architectural Programming, Dowden Hutchinson and Ross, Inc. Vol. 29, Community Development Series. 1977.
 Sanoff, H. Visual research methods in design, USA : Van Nostrand Reinhold. 1991.
 Seely, John. The Oxford guide to effective writing and speaking, 2nd ed., Oxford: New York: Oxford University Press, 2005.
 Silverman, D. Interpreting Qualitative Data : Methods for Analysing Talk, Text and Interaction, London: Sage Publication. 1993.
 Treece, Malra. Effective reports, 2nd ed., Boston: Allyn and Bacon, 1985.
 Turabian, Kate L. A Manual for Writers of Research Papers, Theses, and Dissertations: Chicago Style for Students and Researchers (7th ed.): 2007)
 Zeisel, John. An Inquiry by Design (2006)
 William Michelson (ed.) Behavioral Methods in Environmental Design, Stroudsburg, Pennylvania : Dowden Hutchinson and Ross
 Zinsser, William. On Writing Well (2006)

ARCH 906: BUILDING SOCIOLOGY AND ECONOMICS

COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION							TOTAL MARKS	EXAM DURATION (HRS)	
				L	T	S	CREDIT	TOTAL CLASS HRS	THEORY					STUDIO				
									MST 1 10%	MST 2 10%	A. MST 10%	SS 50% OR 30%	ESUE 40%	TOT AL	IA 10% OR 60%			EV 10% OR 40%
ARCH 906	AR	THEORY	BUILDING SOCIOLOGY AND ECONOMICS	2			2	2	10	10	10	50	40	100			100	3

L - THEORY; S- STUDIO ; T -TUTORIAL; C - CREDIT;HRS: HOURS ; MST - MIDTERM TEST , A.MST - AVERAGE OF MIDTERM , ESUE - END SEMESTER UNIVERSITY EXAMINATION; IA - INTERNAL ASSESSMENT PROGRESSIVE.;SS- FOLIO FINAL Sessional (INTERNAL) , EV - EXTERNAL VIVA VOICE;RVW - INTERMEDIATE REVIEW

COURSE OVERVIEW:

To introduce the economics and sociological aspects in architecture.

Students will use the sociological imagination to see how features of your personal, everyday life are linked to ongoing processes of social organization and coordination

- The student will articulate basic concepts, theories, and modes of explanation from the discipline of sociology and apply them to features of society and your own life.
- The student will identify the main methods of collecting data in sociological research and determine which is most appropriate for specific kinds of research questions
- The student will describe the central ideas of the founders of sociology
- The student will describe how individuals are shaped through basic social processes of culture, socialization, micro-level social interaction, and organizational life.
- The student will explain what is meant by the social construction of crime and deviance and why this is key to understanding current issues concerning criminality, crime rates, prisons, and policing strategies
- The student will analyze the life of the body (gender, sexuality, ageing, disability, health) in terms of social processes and structures.
- The student will explain why developing a systematic knowledge of society matters.
- The student will demonstrate critical thinking skills and formulate your ideas clearly in writing.
- The student will develop the understanding of the role of economics in architecture
- The student will develop the understanding of the role of different services, service providers and goods in the making of a building
- The student will develop the understanding of concepts of utility, demand supply, pricing, etc.

OBJECTIVES OF THE COURSE:

Students will understand the fundamental concepts and theories of sociology, economics and apply them in their design projects.

EXPECTED SKILLS / KNOWLEDGE TRANSFERRED:

To develop a conceptual understanding of Sociology and economics planning principles in the built environments

COURSE CONTENTS:

Introduction to Sociology--The Sociological Imagination

- Introduction to Sociological Perspectives and Theories
- Introduction to Sociological Research The Social and Cultural Dimensions of Human Experience
- Culture
- Socialization
- The Mass Media Micro and Macro Approaches to the Organization of Social Life
- Social Interaction
- Groups and Organizations
- Families Deviance, Gender, and the Human Body
- Deviance and Crime
- Genders and Sexualities
- The Body-Disabilities, Aging, and Death

Introduction to building economics

- Ends – scarce means
- Goods and services- natural goods, manmade goods
- Producers- primary producers, secondary producers, tertiary producers
- Economy in design
- Macro & microeconomics analysis
- Project Costing
- Utility, demand & supply, wants, cost, value, price in the the building industry
- Cost-benefit analysis

GUIDELINES FOR QUESTION PAPER SETTING

All Theory Courses

- Part- A (5 NOS X 2 MARKS = 10 MARKS) Answer all questions
- Part- B (2 NOS X15 MARKS = 30 MARKS)
- (Either or type)
 - Students will be required to attempt five questions from the Eight questions, are to be set from entire syllabus. where 2 questions may be short answer type which is compulsory with 2- 3 subheads and 2, short with 4 subheads answer type and 4 essay type questions.
 - Students should attempt total Seven Questions including the compulsory question.
 - Question paper is to be set covering the entire syllabus.

NOTE:-Emphasis should be laid on understating of building evolution and form. The continuous evaluation shall be made of students work based on various models, assignments and sketching

Assignments

Simple exercises in urban design exercise using elements, Studio exercise emphasizing the relationship between built form and outdoor areas, and site planning issues. design of a neighbourhood open space (area of 2000 to 3000 sq. metres)

Reference books:

- Amos Rappoport, House Form and Culture
Wallis, Wilson D and Willey, M.M, Textbook of Sociology, 1st ed., Khel Sahitya Kendra, New Delhi, 2001.
Charon, Joel M. The Meaning of Sociology, 6th ed., Prentice Hall, New Jersey,1999.
Thio, Alex. Sociology: a brief introduction, 4th ed. Allyn and Bacon, Boston, 2000.
Schaefer, Richard T. Sociology: a brief introduction, 4th ed. McGraw Hill, Boston,2002.
Bilton, Tony and Oth. Introductory Sociology, 3rd ed. Palgrave, New York, 1997.
Stone, P.A. Building Economy: Design Production and Organisation a synoptic view, 2nd ed., Pergamon Press, Oxford, 1976.
Koutsoyiannis, A. Modern Micro economics, 2nd ed., ELBS with MacMillan Press,1994.
Nobbs, Jack and Hopkins, Ian. Economics: a core text, 4th ed. McGraw-Hill, London, 1995.
Teck, Hoon Hian and Oth. Economics: theory and applications, McGraw-Hill, Taiwan, 1998.
Dewett, K.K. Modern Economic Theory, Shyam Lal Charitable trust, New Delhi,2005.

ARCH 908: BUILDING PROJECT MANAGEMENT

COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION								TOTAL MARKS	EXAM DURATION (HRS)	
				L	T	S	CREDIT	TOTAL CLASS HRS	THEORY					STUDIO					
									MST 1 10%	MST 2 10%	A. MST 10%	SS 50% OR 30%	ESUE 40%	TOT AL	IA 10% OR 60%	EV 10% OR 40%			TOTAL
ARCH 908	PR	THEORY	BUILDING PROJECT MANAGEMENT	2			2	2	10	10	10	50	40	100				100	3

L - THEORY; S- STUDIO ; T -TUTORIAL; C - CREDIT;HRS: HOURS ; MST - MIDTERM TEST , A.MST - AVERAGE OF MIDTERM , ESUE - END SEMESTER UNIVERSITY EXAMINATION; IA - INTERNAL ASSESSMENT PROGRESSIVE,SS- FOLIO FINAL Sessional (INTERNAL) , EV - EXTERNAL VIVA VOICE,RVW - INTERMEDIATE REVIEW

COURSE OVERVIEW:

To introduce the importance of construction management in the field of architecture.

OBJECTIVES OF THE COURSE:

To impart training in the preparation of working drawings for buildings with specific reference to the code of practice as per IS Code No. 962 of 1969 and incorporating specifications as complementary to the working drawings.

To sensitize the students in preparing finer design details required for buildings.

The student shall prepare a report consisting of Detailed Structure Design of a building considering all safety factors including fire, earthquake, cyclone, floods, etc.

Report being prepared in bound form with drawings attached.

EXPECTED SKILLS / KNOWLEDGE TRANSFERRED:

To prepare working drawings for a project and resolve complex aspects in the buildings with appropriate materials and design details.

COURSE CONTENTS:

- **Introduction:** History; Stages involved; Project life cycle analysis; Role & responsibilities of the project manager; Areas of project management; Co-ordination of various teams involved in the project; Scheduling; Classification; Methods; Controlling & Lifecycle curves; Work breakdown structure.
- **Project Management through Networks:** Network techniques; Interrelationship of events & activities; Dummy activities; Types of networks; Rules of drawing a network; Fulkerson's rule.
- **Project management techniques:** Program Evaluation & Review Technique; & Critical Path Method; Time Estimates; Networking with PERT models; Probability analysis.
- **Precedence Networks for Construction Projects:** Representation of Nodes; Logic of Precedence diagram; Rules for drawing; Forward pass & backwards pass calculations.
- **Time-Cost Relationship:** Total Project Costs; Cost curve; Optimization of Cost through Network Contraction & steps involved; Cost control & cash flow; Case studies- Application of knowledge & Understanding of project management tools.

GUIDELINES FOR QUESTION PAPER SETTING

All Theory Courses

- Part- A (5 NOS X 2 MARKS = 10 MARKS) Answer all questions
- Part- B (2 NOS X15 MARKS = 30 MARKS)
- (Either or type)

- Students will be required to attempt five questions from the Eight questions, are to be set from entire syllabus. where 2 questions may be short answer type which is compulsory with 2- 3 subheads and 2, short with 4 subheads answer type and 4 essay type questions.
- Students should attempt total Seven Questions including the compulsory question.
- Question paper is to be set covering the entire syllabus.

NOTE:-Emphasis should be laid on understating of building evolution and form. The continuous evaluation shall be made of students work based on various models, assignments and sketching

***Note:** - Students shall prepare at least two structural drawing sets and design the structures, one for a small residence and one for a large building than the other

Evaluation is to be done through viva voce by an external examiner appointed by the university at Institute.

REFERENCE BOOKS:

- Gupta, B.L. and Gupta, Amit. Construction Management, Machinery and Accounts, 3rd ed. Standard Pub, 2005.
 Loraine, R.K. Construction Management in Developing Countries. Thomas Telford, London, 1993.
 Sinath, L.S. PERT and CPM Principles and Applications, 3rd ed. Affiliated East-West Press, New Delhi, 2003.
 Singh, Harpal. Construction Management and Accounts 14th ed. Tata McGraw-Hill Pu b., New Delhi, 1981.
 Gould, E. Frederick and Joyce, E. Nancy. Construction Project Management. Prentice Hall, New Jersey, 2000.
 Shrivastava, U.K. Construction Planning and Management, 3rd ed. Galgotia Pub., New Delhi, 2004.

ARCH 919: ELECTIVE - VII

COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION							TOTAL MARKS	EXAM DURATION (HRS)		
				L	T	S	CREDIT	TOTAL CLASS HRS	THEORY					STUDIO					
									MST 1 10%	MST 2 10%	A. MST 10%	SS 50% OR 30%	ESUE 40%	TOT AL	IA 10% OR 60%			EV 10% OR 40%	TOTAL
ARCH 919	SU	STUDIO	ELECTIVE- VIII (POOL II)			2	2	2								100		100	

L - THEORY; S- STUDIO , T -TUTORIAL; C - CREDIT;HRS: HOURS ; MST - MIDTERM TEST , A.MST - AVERAGE OF MIDTERM , ESUE - END SEMESTER UNIVERSITY EXAMINATION; IA - INTERNAL ASSESSMENT PROGRESSIVE.;SS- FOLIO FINAL Sessional (INTERNAL) , EV - EXTERNAL VIVA VOICE,RVW - INTERMEDIATE REVIEW

COURSE OVERVIEW:

The following is a representative list of what may constitute Institute 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. Provides knowledge to support student being sensitive design;

- a paper presentation and a summer case study

OBJECTIVES OF THE COURSE:

overall nurturing of the student with issues in practice and field outside

EXPECTED SKILLS / KNOWLEDGE TRANSFERRED:

better grooming than just books and theories.

COURSE CONTENTS:

The creative electives provide an opportunity to express talents which are different from architecture but related to imagination, visualization & creation. They offer hands-on experience of unique ingenuity & workmanship. The essence of creative domain can be achieved by exploring different materials, techniques, processes; developing creative products; finishing & presenting the product for the concepts evolved. The outcome will be through portfolio & presentations.

As Per Pool Electives Choices Stage II Odd semester pool

Chairperson
Board of Studies
Shri Vaishnav Vidyapeeth Vishwavidyalaya
Indore

Deputy Registrar
Shri Vaishnav Vidyapeeth Vishwavidyalaya
Indore