YEAR / II Semester

ARCH 201: ARCHITECTURAL DESIGN STUDIO – I

COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION									TOTAL MARKS	EXAM DURATION (HRS)
									THEORY						STUDIO				
				L	T	S	CREDIT	TOTAL CLASS HRS	MST 1 10%	MST 2 10%	A. MST 10%	SS 50% OR 30%	ESUE 40%	TOTAL	IA 10% OR 60%	EV 10% OR 40%	TOTAL		
ARCH 201	AR	STUDIO	ARCHITECTURAL DESIGN STUDIO I			12	12	8							240	160	400	400	

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

OBJECTIVES OF THE COURSE:

Architecture as the environment, context, insertions, documentation, site visits, documentation through text, photography, drawings. Design exercises involving small Architectural design problems involving simple spatial organizations starting from single space and progressing to a small functional grouping of spaces.

EXPECTED SKILLS / KNOWLEDGE TRANSFERRED:

By the end of the course students should have skills of drawing and representation; assimilate learnings of graphics, construction, structures to apply to basic design.

FOCUS: Design Language

- Students will get the understanding of how Space becomes Place
- Students will understand Elements of place making such as moods, culture, traditions & aspirations.
- Students will achieve the capacity of analyzing the space quality.

COURSE OVERVIEW:

Study of the built environment and to develop a basic understanding of space and form. This course is intended to provide a framework for understanding design as a process.

COURSE CONTENTS:

Looking at the immediate built environment and understanding its fundamental components and their impact on the surroundings. Exercises relating personal experiences to behavioural needs and translating them into documented information that can be used as a basis for design. Problems aimed at drafting and presentation skills in the 2-D format.

A systematic introduction to issues related to design, its components and space standards; design of a basic shelter; an architectural form with a specific function

- The concept of space & place
- Placemaking through space, surfaces, envelopes, symbols, exploration with colours, textures, symbols, light, shades & darkness in response to culture, technology, time-place-human
- Man- Nature Interface for generating space, place.

Theme & Focus of Design:

User activity analysis; fundamentals of anthropometric studies & architectural design process; Study of building components; Development of forms through sketches, models; Case studies.

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.

Introductory to Anthropometrics: Study of human dimensions; space requirements for human activities; Detailing for human comfort; Furniture details & layouts.

Study of Building Components: Understanding components in buildings; Purpose; Applications in buildings; Interrelations; Designs; Materials; Innovations.

Design Exercise: Building Design; Complexity - Designing space for single/double user/s; Typology - Kiosk Design such as Security Cabin, Milk Booth, Photocopy Shop, Flower Shop, Gift Shop, Ticket Booth, Book/ Newspaper Stall, Food Stall, etc.; Site extent - Level site up to 100 m2.

GUIDELINES

One Major And Monitor Problem is 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

At least ONE major exercises and ONE minor design with one - TWO-time problems should be given. The final submission shall necessarily include a model for at least one of the two main problems

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.

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

REFERENCE BOOKS:

Allen, Edward. How Buildings Work: The Natural Order of Architecture. New York: Oxford UP, 1980. Print.
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, 1980.
Ching, Francis D. K. Architecture, Form, Space & Order. New York: Van Nostrand Reinhold, 1979 Print.
Ching, Francis D. K. Architecture--form, Space, & Order. Hoboken, NJ: John Wiley & Sons, 2007. Print.
Ching, Francis D. K., Barry Onouye, and Douglas Zuberbuhler. Building Structures Illustrated. Print.
Ching, Francis D.K. Architecture: Form, Space, and Order, 2nd Ed. Van Nostrand Reinhold, New York, 1996.
Corbusier, Le, and Frederick Etchells. Towards a New Architecture by Le Corbusier. London: Architectural Pr., 1965.
Corbusier, Le, Stanislaus Von. Moos, Arthur Rüegg, and Robert Venturi. Le Corbusier before Le Corbusier: Applied Arts, Architecture, Interiors, Painting, and Photography, 1907-1922: Exhibition Guide. New York: Bard Graduate Center for Studies in the Decorative Arts, Design, and Culture, 2002.Print.
Criss B.Mills, Designing with models: A Studio guide to making & using architectural models, Thomson & Wadsworth, USA,2000.
Curtis, Nathaniel Cortlandt. Architectural Composition. Cleveland, O.: J.H. Jansen, 1923. Print.
DeChiara and Callender, Time-saver standards for building types, Mc Graw Hill company
Dodds, George, Robert Tavernor, and Joseph Rykwert. Body and Building: Essays on the Changing Relation of Body and Architecture. Cambridge, MA: MIT, 2002. Print.
Field, M. City Architecture; Or, Designs for Dwelling Houses, Stores, Hotels, Etc. In 20 Plates. Descriptions and an Essay on the Principles of Design. New-York: D. Appleton, 1854. Print.
Hanks, A. David. Decorative Designs of Frank Lloyd Wright, Dover Publications, Inc. New York, 1999.
Hardy, Adam. Indian Temple Architecture: Form and Transformation: The Karnataka Drāvida Tradition, 7th to 13th Centuries. New Delhi: Indira Gandhi National Centre for the Arts, 1995. Print.
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.
Johnson, Paul-Alan. The Theory of Architecture: Concepts, Themes & Practices. New York: Van Nostrand Reinhold, 1994. Print.
Kirk, Paul Hayden and Sternberg, D. Eugene. Doctors Offices and Clinics, 2nd Ed. Reinhold Pub., USA, 1960.
Kostof, Spiro. A History of Architecture: Settings and Rituals. New York: Oxford UP, 1985. Print.
Krier, Rob. Architectural Composition, Academy Editions, London, 1988.
Maier Manfired 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.
Mitchell, William R. Summerour: Architecture of Permanence, Scale, and Proportion. Atlanta, GA: Summerour & Associates, Architects, 2006. Print.
Neufert, Ernst. Ernst Neufert Architects Data, Granada Pub. Ltd., London, 1970.
Pallasmaa, Juhani. The Thinking Hand: Existential and Embodied Wisdom in Architecture. Chichester, U.K.: Wiley, 2010.
Pevsner, Nikolaus. A History of Building Types. Thames and Hudson, London, 1976.
Pollio, Vitruvius, and M. H. Morgan. Vitruvius: The Ten Books on Architecture. New York: Dover Publications, 1960. Print.
Ramsey / Sleeper, National Architectural graphic standards, The American Institute of Architects
Rasmussen, Steen Eiler. Experiencing Architecture. Cambridge: M.I.T., Massachusetts Institute of Technology, 1962.
Rich, Peter Maurice., and Yvonne Dean. Principles of Element Design. Oxford: Architectural, 1999.Print.
Routledge Taylor & Francis Group.
Sam F Miller, Design process– Van Nostrand Reinhold
Shah, S. Charanjit. Architects Hand Book Ready Reckoner. Galogotia Pub. Co. New Delhi, 1996
Smith, Albert C; Schank Smith, Kendra, Developing Your Design Process: Six Key Concepts for Studio,
Smithies, K.W. Principles of Design in Architecture. Chapman and Hall, 1983.
Wittkower, Rudolf. Architectural Principles in the Age of Humanism. New York: W.W. Norton, 1971. Print.
Wucius, Wong. Principles of Two Dimensional Design. Van Nostrand Reinhold 1972.
Yacobi, Haim. Constructing a Sense of Place: Architecture and the Zionist Discourse. Aldershot, Hants, England: Ashgate, 2004. Print.

ARCH 203: BUILDING MATERIAL & CONSTRUCTION – II

COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION									TOTAL MARKS	EXAM DURATION (HRS)
									THEORY						STUDIO				
				L	T	S	CREDIT	TOTAL CLASS HRS	MST 1 10%	MST 2 10%	A. MST 10%	SS 50% OR 30%	ESUE 40%	TOTAL	IA 10% OR 60%	EV 10% OR 40%	TOTAL		
ARCH 203	TE	THEORY CUM STUDIO	BUILDING MATERIALS & CONSTRUCTION – II	1		2	3	2	15	15	15	45	60	120	0	30	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

OBJECTIVES OF THE COURSE:

To understand the elementary and simple construction methods like joinery details in wood, fixing of hardware.

EXPECTED SKILLS / KNOWLEDGE TRANSFERRED:

To understand the techniques of constructing doors and windows, staircase and partitions using different materials

FOCUS: Load Bearing Const. Systems & Timber Const. Systems

- Students will understand the building elements, it's material - behaviour while connecting to another element (s)
- Students will understand the load-bearing system of construction, basic principles and materials.
- The student will learn the principle of the sub-structure system.

COURSE OVERVIEW:

Exploration of All building elements (From foundations to parapet) using simple manufactured materials and simple constructional systems

COURSE CONTENTS:

- Type of Foundation (Shallow, deep, special-type, etc.)
- Carpentry and joinery:
- Types of the opening in masonry wall (Door, Window, Arch, lintel, etc.)
- Understanding of frame structure with reference to the specific material – wood and concrete
- Various floor and floor system, partition walls
- Various Roof and roof system, roof coverings
- Doors, windows and openings

Note:

The class work and home assignments should include appropriate site visits by the students. The student will maintain field observations/record books. At least two exercises to be done in the construction yard.
Each Unit should include market survey and construction site visit compulsorily.
Emphasis should be laid on making students understand complete construction details of single story structure.

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.

REFERENCE BOOKS:

A.Agarwal –Mud: The potentials of earth-based material for third world housing – IIED, London 1981**.**
Barry, R. The Construction of Buildings Vol. 2, 5th Ed. East-West Press. NewDelhi, 1999.
Bindra, S P.and Arora, S P. Building Construction: Planning Techniques and methods of Construction, 19th ed. Dhanpat Rai Pub. New Delhi, 2000.
Chowdary, K.P. Engineering Materials are used in India, 7th Ed. Oxford and IBH Pub. Ltd., New Delhi, 1990.
Dr.B.C.Punmia – Building construction

Francies D.K.Ching – Building Construction Illustrated. VNR, 1975.
Hailey and Hancock, D.W. Brick Work and Associated Studies Vol. 2. MacMillan, London, 1979.
HUDCO – All you wanted to know about soil stabilized mud blocks, New Delhi, 1989.
Moxley, R. Mitchell's Elementary Building Construction, Technical Press Ltd.
R.Chudley – Building Construction Handbook – BLPD, London 1990.
R.Chudley, Construction Technology.
Rangwala, S.C. Building Construction, 22nd ed. Charotar Pub. House, Anand,2004.
Rangwala, S.C. Building Construction: Materials and types of Construction, 3rd ed. John Wiley and Sons, Inc., New York, 1963.
S.C.Rangwala – Engineering materials – Charotar Publishing, Anand.
Sushil Kumar. T.B. of Building Construction, 19th ed. Standard Pub, Delhi, 2003.
Use of Bamboo and a Reed in Construction – UNO Publications
W.B. Mackay – Building construction Vol 1,2 and 3 – Longmans, UK 1981.

ARCH 204 ARCHITECTURAL DRAWING – II

COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION									TOTAL MARKS	EXAM DURATION (HRS)
									THEORY						STUDIO				
				L	T	S	CREDIT	TOTAL CLASS HRS	MST 1 10%	MST 2 10%	A. MST 10%	SS 50% OR 30%	ESUE 40%	TOTAL	IA 10% OR 60%	EV 10% OR 40%	TOTAL		
ARCH 204	SK	STUDIO	ARCHITECTURAL DRAWING - II			3	3	2							60	40	100	100	

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COURSE OVERVIEW:

The course is intended to develop the techniques of architectural drawing pertaining simple and complex solid geometrical forms of Building geometry Sciography and Documentation. Perspective Drawing, Representation skills, geometrical drawing of special curves.

Graphics

Views isometric, axonometric, Perspective & sciography exercises (may be done on sketch Landscape outdoor sketching, Anatomy

Objectives of the Course:

To impart the skills of three-dimensional visualization and presentation.

EXPECTED SKILLS / KNOWLEDGE TRANSFERRED: Students should acquire knowledge of the various drawings which effectively communicate their ideas as designers

Freehand, scale drawing, conventional architectural representations in drawings and graphics.

Students will get a sense of visualization and will strengthen it by means of technical representation of Form & Space

The student will learn the design expression of Basic & Complex forms

COURSE CONTENTS:

- Development of Surfaces:
- Interpenetration of solids
- Sociography
- 1 point, 2 point & 3 point perspective view drawings, using various methods
- Geometrical Drawing Of Special Curves:

GUIDELINES

One Major And Monitor Problem is 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 :

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

Alan Jefferis, David A. Madsen, David P. Madsen. Architectural Drafting & design.Delmar Cengage Learning
Albert O'Halse Architectural Rendering. The Techniques of Contemporary Presentation. By Pub. McGraw Hill Book Company. New York.
Atkin, William W, Corbelletti, Raniero and Firore, R. Vincent. Pencil Techniques in Modern Design, 4th Ed. Reinhold Pub. Corporation, New York, 1962.
Bhatt, N.D. and Panchal V.M. Engineering Drawing: Plane and Solid Geometry, 42nd ed. Charotar Pub., Anand, 2000.
Billings, Lance Bowen. Perspective-Space and design.
Burden, Ernest. Architectural Delineation: A photographic approach to presentation, 2nd Ed. McGraw-Hill, Inc., New York, 1982.
Censil Jensen. Engineering Drawing & Design.McGraw-Hill
Ching, Francis D. K. Architectural Graphics. New York: Van Nostrand Reinhold, 1975. Print.
Ching, Francis D. K., and Cassandra Adams. Building Construction Illustrated. New York: Wiley,2001. Print.
Ching, Francis D. K., and James Eckler. Introduction to Architecture. Print.
Ching, Francis D. K., and Steven P. Juroszek. Design Drawing. New York: Van Nostrand Reinhold,1998. Print.
Ching, Francis D. K., Architecture: Form, Space, and Order. Hoboken, N.J: John Wiley & Sons, 2007.Print.
Ching, Francis D. K., Barry Onouye, and Douglas Zuberbuhler. Building Structures Illustrated. Hoboken, NJ: John Wiley & Sons, 2009. Print.
Claude Batley -Design Development of Indian Architecture
Conli, Claudius. Drawings by Architects.
Dana J. Hepler, Paul Ross Wallach, Donald Hepler. Drafting & Design Architecture &Construction.Delmar Cengage Learning
David E. Carter, The Big Book of Design, David E. Carter Books Joyce Rutter Kaye, Design Basics, Rockport.
Dhanajay jolhey. Engineering Drawing.Tata Mcgraw Hill
Douglas Cooper. Drawing and Perceiving.WILEY
Drawing and Painting Architecture by Rayeuans Pub. Van Nostrand Reinhold Company, New York
Ellen Lopton and Jennefer Cole Phillips, Graphic Design The New Basics, Princeton Architectural Press

Eric brought. Islamic Geometric Design.Thames & Hudson
Ernest Burden -Architectural Delineation
Francis D.K.Ching &Steven P Juroszek, Design drawing, John Wiley & Sons, USA, 1998
Francis DK Ching, Design drawing, John Wiley & Sons, USA, 1998.
George Barnett Johnston. Drafting Culture. The MIT Press
Gill, P.S. T.B. of Geometrical Drawing, 3rd Ed. Dewan Sushil Kumar Kataria, Ludhiana, 1986
Graphics Book, Rotovision
Helmut Pottmann. Architectural geometry.Bentley Institute Press
Henry Wilson. Pattern and ornament in the arts of India.Thames & Hudson
Hilary French. Key Urban Housing of the Twentieth Century: Plans, Sections, and Elevations.W.W.Norton
Hogarth, Paul. Drawing Architecture.
I.H. Morris, Geometrical Drawing for Art Students, Orient Longman Chennai.
Lorraine Farrelly. Representational Techniques.Fairchild Books AVA
M.G. Shah & K.M. Kale, Perspective Principles of Asia publication Mumbai.
Manosi Lahiri. Mapping India.Niyogi Books
ND Bhatt. Engineering Drawing.Charotar Publishing House
Nichols, T.B. and Keep, Norman. The geometry of Construction, 3rd ed. Cleaver – Hume Press Ltd., London, 1959.
Owen Jones. The grammar of ornament.B. Quaritch
Pierre von Meiss. Elements of Architecture: From Form to Place.Routledge
Pranchlay, H. Perspective
Richard Rush.The Building Systems Integration Handbook.Architectural Press
Richard Weston. Key Buildings of the 20th Century: Plans, Sections and Elevations.W. W. Norton & Company
Robert W. Gil. Rendering with pen and ink. Thames & Hudson
Shah, M.G., Kale, C.M. and Patki, S.Y. Building Drawing: with an integrated approach to the built environment, 7th Ed. Tata McGraw Hill Pub., Delhi, 2000.
Shankar Mulik, Perspective & Sciography, Allied Publishers
Thomas Obermeyer. Architectural Drafting Residencial & Commercial.Glencoe/McGraw-Hill
Thoms, E. French. Graphic Science and Design, New York: Mc Graw Hill.

ARCH 205: HISTORY OF ARCHITECTURE - II

COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION									TOTAL MARKS	EXAM DURATION (HRS)
									THEORY						STUDIO				
				L	T	S	CREDIT	TOTAL CLASS HRS	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 205	AR	THEORY	HISTORY OF ARCHITECTURE II	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

OBJECTIVES OF THE COURSE:

To expose the students to a wide spectrum of architectural styles ranging from pre-historic to modern times.

To explain the students the evolution of architecture in relation to time with special emphasis on social, religious and environmental factors and to make the students understand the developments in the construction technology in different periods.

EXPECTED SKILLS / KNOWLEDGE TRANSFERRED:

1) Acquire knowledge to identify the common characteristics among the monuments of a particular style.

2) Acquire graphic skills to present a building, analyze its elements and explain the composition.

3) Acquire knowledge of good practices of architecture in the past.

FOCUS: Early Civilization of World

• Students will understand & become aware of the culture in small-scale communities of early agro-urban civilizations

• Students will understand Architecture as a direct response to contextual factors

• Students will understand space and form: evolution of architectural order

INSTRUCTIONAL OBJECTIVES

The course creates awareness about the various architectural movements that influenced the building traditions of the three European nations. Development of the ability to sketch Plans, sections, elevations and architectural details is also intended.

COURSE OVERVIEW:

History of Architecture to be studied as the development of building forms in response to social, religious, aesthetic and environmental factors. The study should focus on the three-dimensional forms, plan forms, façade organization, a structural solution, construction methods and ornamentation. The study should focus on the general trends and not on specific e.g. of buildings.

COURSE CONTENTS:

Detailed study & analysis of architectural design fundamentals through significant e.g. in the light of the following for the periods mentioned in the modules – Genesis of seed ideas & concepts; Timeline; Socio-political background, key people involved; Climatic & geographic influence; General settlement pattern; Cities & its civic places; Construction technology & material; Design principles; Typology; Evolution; Spatial organization; Form & Detailing. The e.g. to represent the following historical styles are suggestive & students are encouraged to explore additional e.g. for a comprehensive understanding of the respective styles.

- Some nomadic and tribal communities in India – settlement, dwelling, and community space – a reflection of social, economic and contextual factors.
- A comparative community in Africa/Polynesia/ America.
- Indus Valley culture – City building, large-scale organizations, urban form, dwelling, social institutions
- Comparison to early urban cultures of Egypt, Mesopotamia, China, Central America
- Cities and early religious architecture in India. Rock-cut architecture and early temple forms
- A comparison to the urbanism and architecture of Greece & Rome
- Architectural configurations and elements as a response to contextual factors: land, topography, climate; materials and techniques; social organization.
- Spatial organization and form as an expression of social and political order: Scale,

geometry, form as architectural tools and disciplines.

- Architectural form as an expression of the cosmology and philosophy of a culture; geometry, proportion, orientation, hierarchy and precision as the 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

REFERENCE BOOKS:

Bindoo. D.D, History of Architecture, Milind P Lakshana, Hyderabad – 2006. Wittkaner R Architectural Principles in the Age of Humanism, Chichester: Academy Editions 1998

Copplistone, Trewin and Others. World Architecture: An Illustrated History, 11th Ed. Hamlyn, London, 1979.

Fletcher, Sir Banister. A History of Architecture, 19th Ed. CBS Pub., Delhi, 1992.

G.K.Hiraskar, Great Ages of World Architecture, Dhanpat Rai & Sons, Delhi.

Pier Liugi Nervi, General Editor - History of World Architecture - Series, Harry N.Abrams, Inc. The pub, New York, 1972.
Pub., New York, 1981.

S.Lloyd and H.W.Muller, History of World Architecture Series, Faber and Faber Ltd., London, 1986

Schulz, Christian Norberg. Meaning in Western Architecture, 2nd Ed. Rizzoli Intl.

Spiro Kostof - History of Architecture - Setting and Rituals, Oxford University Press, London, 1985

Yarwood, Doreen. A Chronology of Western Architecture. B.T. Batsford Ltd., London, 1987.

ARCH 206: ENVIRONMENTAL DESIGN

COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION									TOTAL MARKS	EXAM DURATION (HRS)
									THEORY						STUDIO				
				L	T	S	CREDIT	TOTAL CLASS HRS	MST 1 10%	MST 2 10%	A. MST 10%	SS 50% OR 30%	ESUE 40%	TOTAL	IA 10% OR 60%	EV 10% OR 40%	TOTAL		
ARCH 206	AR	THEORY	ENVIRONMENTAL DESIGN	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:

Provides knowledge of natural systems and technology to support environmentally sensitive design; highlights significance of maintaining balance and sustainability of various components of the environment.

OBJECTIVES OF THE COURSE:

Understanding the impact of man's activities on the environment & knowledge about the methods to ameliorate the negative impacts. To sensitize the students towards a sustainable environment.

CONCEPTS

Natural Environment, Ecology and ecosystems, Biodiversity and co-existence of Built & Natural Environments

EXPECTED SKILLS / KNOWLEDGE TRANSFERRED:

understanding architecture in relation to the natural and built environment.

COURSE CONTENTS:

- Introduction to Environment & Built Environment
- Built Environment: Urbanization; Resources; Climate change; urban sprawl, urban congestion; Pollutions; Carbon footprint; Basics of Sustainable Development.
- Passive & Active Environmental Design: Case studies in the Indian context - spatial design, openings, courtyards, balconies, building materials & construction techniques; Introduction to Mud & Bamboo architecture, Organic architecture, Earth sheltered buildings. Introduction to Active Environmental Design - for water resources; solid waste management, energy efficiency; Managing construction waste
- Disaster Management: Relief & Rehabilitation ,Management of relief supplies; Relocation & reconstruction, repair & retrofitting of buildings & infrastructure; Role of Architect; Architectural Design Considerations.
- **Case Studies for Eco-Friendly Design:** Case studies of various contemporary designs done with principles of sustainability; Philosophies & works of eco-sensitive architects like - Nari Gandhi, Hassan Fathy, Geoffrey Bawa, Peter Busby, Norman Foster, Eric Corey Freed, R. Buckminster Fuller, Thom Mayne, William McDonough, Glenn Murcutt, Renzo Piano, Frank Lloyd Wright, Ken Yeang and others.

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 with reference to the context. The continuous evaluation shall be made of students work based on various models, assignments and sketching

RECOMMENDED BOOKS:

Albert J. Rutledge – Anatomy of a park – Mc Graw Hill Book Co., - USA 1971

De, Environment Chemistry

Harvey M. Rubenstein – A guide to Site and Environmental planning, 3rd vol. – John Wiley & Sons – New York, 1987
John Ormsbee Simond Earthscape - A Manual of Environmental Planning and Design, Van Nostrand Reinhold Company 1978
Richard P. Dober – Environmental Design – VNR company - New York, 1969
Sharma and Kaur, Environmental Pollution
Each ARCHucha, A Text Book of Environmental Studies for Undergraduate Courses, University Grants Commission.

ARCH 207: THEORY OF STRUCTURES – I

COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION									TOTAL MARKS	EXAM DURATION (HRS)
									THEORY						STUDIO				
				L	T	S	CREDIT	TOTAL CLASS HRS	MST 1 10%	MST 2 10%	A. MST 10%	SS 50% OR 30%	ESUE 40%	TOTAL	IA 10% OR 60%	EV 10% OR 40%	TOTAL		
ARCH 207	TE	THEORY	THEORY OF STRUCTURES I	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

OBJECTIVES OF THE COURSE:

•To enable students to understand the concepts of structures in architecture, use of different structural materials used for various buildings

EXPECTED SKILLS / KNOWLEDGE TRANSFERRED:

By the end of the course, the students shall be confident about the structural action of the various elements. Further, he will have sufficient knowledge about the various long span structures.

- Students will get the conceptual understanding of structural behaviour to learn basic structural systems.
- The student will understand the technical vocabulary related to structure.

COURSE OVERVIEW:

To inculcate in the student an awareness of basic structural principles used in various building systems

- Students will understand the structural behaviour of materials, basic structural systems
- Students will understand load mechanism of structural systems
- Basic principles of mechanics and behaviour of elements of structures.

COURSE CONTENTS:

Introduction: Structural Concepts: Force, equilibrium of forces; a system of forces, resultant, equilibrant Parallelogram law, LOADS OF STRUCTURE: STRUCTURAL MATERIALS

- Different methods of categorization of structural system
- Mechanical properties of structural material
- Structural systems based on the mechanism of transfer of load
  - Analysis of trusses, Problem Of Span, Stress, Strain
  - Tension And Compression Members
  - Concepts of various structural systems – Cables – Trusses – Arches – Cable Roofs – Space Frames – Flat Slabs.
  - Types of Beams, Cantilever: Types of loads
  - Curved Structures And Long Span Buildings

Theory of Vaults and Domes – Construction of Masonry Vaults and Domes – Concepts of Reinforced Concrete Shells, Domes and Vaults – Folded Plate Roofs – tensile structures.

- Definition of the centroid, a line of symmetry , centroid for some standard shapes, calculation of centroid for shapes like L, T,C, I Sections etc., a moment of inertia, Derivation of M.I formula for Rectangle, Circle, Triangle, calculation of M.I for L, T,C, I Sections etc.,
- Types of joints, lap joint & butt joint, failure of riveted joints, the strength of the joint, efficiency of joint, Unwins formula, chain riveting & Diamond Riveting

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:

This course is to be taught as an introduction with special reference to the structure in nature viz. Trees, Human body and other examples in which unusual rock formations are created by the forces of nature like wind and water.

- The teaching in this subject must bring out:

- The predominant pictorial nature of the Architects language, The physical-mechanical essence of the subject matter.
- The orientation of all Architectural efforts and its relation to form and space.

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.

More emphasis while teaching shall be laid on' learning by doing' by students involving the making of 3-D models (to give the student different spatial experience and make them understand the basics/principles involved).

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ARCH 208: WORKSHOP II

COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION									TOTAL MARKS	EXAM DURATION (HRS)
									THEORY						STUDIO				
				L	T	S	CREDIT	TOTAL CLASS HRS	MST 1 10%	MST 2 10%	A. MST 10%	SS 50% OR 30%	ESUE 40%	TOTAL	IA 10% OR 60%	EV 10% OR 40%	TOTAL		
ARCH 208	SK	STUDIO	WORKSHOP II			2	2	4							60	40	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

OBJECTIVES OF THE COURSE:

To introduce various fabrication skills and techniques necessary to produce scale- models, encourage the preparation of models as an essential phase in design development and evaluation.

Developing overall skills in understanding various tools, processes and material.

EXPECTED SKILLS / KNOWLEDGE TRANSFERRED:

Knowledge of software and other materials and their properties; craft skills; visualization skills;

FOCUS: Manual Skills

- Explore different materials for 3-dimensional representation
- Softwares to represent the design idea
- Students will learn the skill of rendering using different mediums

COURSE OVERVIEW:

The course provides the foundation and capability to represent the concepts three-dimensionally.

Sketching Techniques

COURSE CONTENTS:

Sketching

- Architectural Renderings (Plan, Section, Elevation, Views)
- Building Expressions, Simplifications, Analytical Diagrams

Model Making

- Model Making II (Wood & Other materials)

Basic Use of Computers

- Editing & Composition Softwares (Photoshop, Illustrator, Etc.)
- Infographics

Photography

- inbuilt models, using lighting and natural background.

SESSIONAL WORK: ASSIGNMENTS.

All the above modules will be evaluated in the form of verbal or written presentation of artwork, drawing work, model making, photography, etc. At least three major assignments involving the individual students to fabricate

Scale model of a piece of furniture, Presentation of models, mock-up of an Everyday Object

Three-dimensional Forms etc.

Documentation of the important phases of fabrication is must which shall become the basis for internal evaluation.

GUIDELINES

Continuous Evaluation shall be made of students work based on various models, sketches assignments and market surveys.

One Major And rest minor tasks 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 :

Evaluation is to be done through viva voice. Portfolios, after the university exam, shall be retained at the Institute level for the viva - voice

REFERENCE BOOKS:

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2. Ching, Francis D. K. Architectural Graphics. New York: Van Nostrand Reinhold, 1975. Print.
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8. Eric brought.Islamic Geometric Design.Thames & Hudson
Meenakshi Jain, Kulbhushan Jain, Meghal Arya.The architecture of a royal Camp.AADI Centre
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11. Kireet Patel, Reena Shah, Reena Agarwal.Arayish.SID Research Cell, School of Interior Design, CEPT University
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14. Aditi Ranjan, M. P. Ranjan.Handmade in India.Council of Handicraft Development Corporations
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Tim Mc Creight & Nicole Bsullak Color on Metal
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Deepak John Mathew., Principles of design through photography. Wisdom Tree Publishers
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Catherine Norman, Ryland Peters & Small, Paper Scissor Glue
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Snyder, C. James and Catanese, J. Anthony. Introduction to Architecture.
Tapert, Annette. Swid Powell: Objects by Architects. Rizzoli, New York, 1990.
Donna Kato & Natson Guptill, The art of Polymer Clay
Eugene Felder & Emmett Elvin, The complete book of drawing techniques, by
Thyagarajan. Basic practical photography
Wilson William Atkin. Architectural Presentation Techniques. Van Nostrand Reinhold

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ARCH 219: ELECTIVE - II

COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION									TOTAL MARKS	EXAM DURATION (HRS)
									THEORY						STUDIO				
				L	T	S	CREDIT	TOTAL CLASS HRS	MST 1 10%	MST 2 10%	A. MST 10%	SS 50% OR 30%	ESUE 40%	TOTAL	IA 10% OR 60%	EV 10% OR 40%	TOTAL		
ARCH 219	SU	STUDIO	ELECTIVE- II (POOL I)			1	1	2							50		50	50	

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 creative electives provide an opportunity to express talents which are different from architecture but related to imagination, visualization & creation. They offer a unique experience of ingenuity & creativity. The essence of the creative domain can be achieved by exploring different technology, techniques, processes, concepts, compositions. The outcome will be through portfolio & presentations.

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 I even semester pool

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 :

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

ARCH 210: STUDY TOUR I

COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION									TOTAL MARKS	EXAM DURATION (HRS)
									THEORY						STUDIO				
				L	T	S	CREDIT	TOTAL CLASS HRS	MST 1 10%	MST 2 10%	A. MST 10%	SS 50% OR 30%	ESUE 40%	TOTAL	IA 10% OR 60%	EV 10% OR 40%	TOTAL		
ARCH 210	SU	PROJECT	STUDY TOUR I				1								100		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:

Students will develop the skills & understanding of measure drawing.

OBJECTIVES OF THE COURSE:

To analyze various art forms, and understand the techniques involved in creative thinking.

EXPECTED SKILLS / KNOWLEDGE TRANSFERRED:

different skills for creative thinking, understanding various art forms, appreciate art and architecture. a paper presentation and a summer case study

• Students will get the understanding of "synthesis of learning from various courses" by observing; registering & mapping of actually built buildings.

• Programme outcome will be extremely valuable in creating a knowledge base on architecture field not only in India but of nearby countries as well.

• Production of Accurate and precise drawings of many a monument, institution, settlement in India, which become a basis for future research.

Provides knowledge on the traditional art form, innovations in and influences on architecture and thinking process in design;

COURSE CONTENTS:

The STUDY TOUR (SBP) at the Institute of Architecture is a unique contribution to Architectural education. Initially called measure drawings, it is intended to take the students out into the field to get the first-hand experience of traditionally built environments. This subject recognizes the value of the traditional architecture as well as the importance of field experiences and travel in the learning of architecture. The students are encouraged to learn about not only the architectural form also related components of architectural relevance.

• Student and faculty members stay at the selected Village for 8 to 15 days.

• Students will get comprehensive awareness of that village.

• Students will measure the built environment in terms of a cluster of houses, individual house, and building elements of that house.

• Students will also document the social, cultural, environmental aspects of that village.

• Students came back to the institute and make the final Drawings and report within remaining days.

GUIDELINES

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

NOTE: 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

Evaluation: Stages: Proposal and on final submission of the paper /DOCUMENTATION of places visited Students contribute to the topic/area is of critical importance.

- detailed out as per academic calendar
- a paper presentation on any subject of interest in the core or elective subjects.
- The Student needs to identify an area for research and in consultation with a guide to make a proposal first. On approval, this is to be developed through the summer and culminate as a research paper. Requirements (from students): Proposal, reviews, final presentation and paper.
- a summer case study where the student has to select a built building by one of the architects and have a live document the building and analyze the building and a word of the concept according to the architect.

Chairperson
Board of Studies
Shri Vaishnav Vidyapeeth Vishwavidyalaya
Indore

Deputy Registrar
Shri Vaishnav Vidyapeeth Vishwavidyalaya
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