



ARCH 201: ARCHITECTURAL DESIGN – I

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME						EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)	
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO						
										2 TERMS MST 20%	SS 20% OR 30%	ESUE 40%OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL				
STUDIO											INT	EX			INT	EX				
ARCH 201	PC	AR	STUDIO	ARCHITECTURAL DESIGN-I			9	9	9							225	225	450	450	

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

Syllabus: 15 weeks (9 hours/week) Total Teaching hours: 135 Hrs.

1ST YEAR / II Semester

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COURSE OBJECTIVES:

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

COURSE OUTCOME

At the end of the course, students will be able to: At the end of the course, students will be able to –

- Demonstrate basic design to architectural design and design field in general, • Illustrate complex observations, design and expressional skills
- Make use of advanced representation and analytical skills
- Build an idea and design expression, • Select using basic architectural design concepts, tools and methods.
- Interpret spatial organisation, structure, hierarchy and scale using architectural elements.
- Create design for a particular programme and context.

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 the basic design.

FOCUS: Design Language

- Students will get an understanding of how Space becomes Place
- Students will understand Elements of placemaking such as moods, culture, traditions & aspirations.
- Students will achieve the capacity of analyzing space quality.
- Select using basic architectural design concepts, tools, and methods.
- Interpret spatial organisation, structure, hierarchy, and scale using architectural elements.
- Create design for a particular program and context

COURSE OVERVIEW:

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

COURSE CONTENTS:

SR. NO.	SYLLABUS: TOPIC	SUB TOPIC
	DESIGN	

TEACHING  
HOURS:

Looking at the immediate built environment and understanding its fundamental components and their

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impact on the surroundings. Exercises relating personal experiences to behavioral needs and translating them into documented information that can be used as a basis for the 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.

1	Introductory exercises based on 'Learning by doing'	<ul style="list-style-type: none"> <li>• Understanding Natural and man-made place</li> <li>• Human activity and behaviour in Space</li> <li>• Exploration of spatial qualities like spatial enclosure, depth, volume, view, orientation, etc and tectonic characteristics like form, surfaces, material, shape, texture, etc</li> </ul>	35hrs
2	Introduction to the studio-based iterative design process	<ul style="list-style-type: none"> <li>• Nature of concepts, ideas, and design principles</li> <li>• To develop a design project with a specific site and program of residential or institutional nature.</li> <li>• Introduction to requirements of the project like built-up area, utility, activity pattern, open space, etc.</li> <li>• Introduction to site parameters like landscape, ground morphology, site climate, orientation, etc.</li> <li>• Integrate learning from programmatic and site</li> </ul>	35hrs

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3	Design Resolution with Synthesis of design parameters.	35hrs	analysis
			<ul style="list-style-type: none"> <li>Introduction to processes of conceptualization, ideation, diagramming, etc.</li> <li>Engage in space-making exercises/activities using architectural elements. Explore the relationship of part to the whole and whole to the part.</li> <li>Explore the relationship between space, order, tectonics, site, use, and concept to create a meaningful experience of Architectural space.</li> <li>Undertake appropriate exercises/activities to visualize and represent design learning.</li> <li>Develop an understanding of the hierarchy of spaces, nature of architectural spaces and quality of spatial enclosures, etc.</li> <li>Achieve synthesis of design criteria and parameters like spatial quality, form, function, response to the site, etc.</li> <li>Develop architectural language using architectural elements</li> </ul>
4	Representation and communication of design	30hrs	<ul style="list-style-type: none"> <li>Use of appropriate graphic and technical representational skills to communicate architectural design comprehensively</li> </ul>

**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 the Institute Notice Board fifteen days in advance Of the commencement of the classes

At least ONE major exercise 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 the end exam which is a viva-voce, the students have to present the entire semester work for assessment.

#### SUGGESTED READINGS:

- Adrover, E. R. (2015). Deployable structures. London: Laurence King Publishing.
- Agkathidis, A. (2012). Modular structures in design and architecture. Amsterdam: BISPublishers
- Agkathidis, A. (2016). Generative Design: Form-finding techniques in architecture. London: Laurence King Publishing
- Agkathidis, A. (2017). Biomorphic structures. London: Laurence King.
- Allen, Edward. How Buildings Work: The Natural Order of Architecture. New York: Oxford UP, 1980.

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Arnheim, R. (2015). Visual thinking. Berkeley: University of California Press.

Brownell, B. E. (2017). Transmaterial Next: A catalogue of materials that will redefine our future. New York: Princeton Architectural Press.

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

Ching, F. D. K., & Eckler, J. F. (2013). Introduction to architecture. Hoboken: Wiley.

Ching, Francis D. K. Architecture–form, Space, & Order. Hoboken, NJ: John Wiley & Sons, 2007.

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.

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. .

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.;

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.

Johnson, Paul-Alan. The Theory of Architecture: Concepts, Themes & Practices. New York: Van Nostrand Reinhold, 1994. .;

Jones, W. (2011). Architects' sketchbooks. London: Thames & Hudson. ;

Jormakka, K., Schürer, O., & Kuhlmann, D. (2014). Design methods. Basel: Birkhäuser. ;

Karssen, A., & Otte, B. (2014). Model making: Conceive, create and convince. Amsterdam: Frame Publishers. ;

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.;

Mitchell, William R. Summerour: Architecture of Permanence, Scale, and Proportion. Atlanta, GA: Summerour & Associates, Architects, 2006.;

Neufert, E., Neufert, P., & Kister, J. (2012). Neufert. Oxford: Wiley-Blackwell. ;

Pallasmaa, Juhani. The Thinking Hand: Existential and Embodied Wisdom in Architecture. Chichester, U.K.: Wiley, 2010. ;

Pandya, Y., & Vastu-Shilpa Foundation for Studies and Research in Environmental Design. (2003). Elements of space making. Ahmedabad: Vastu-Shilpa Foundation for Studies and Research in Environmental Design. ;

Pause, M., & Clark, R. H. (2013). Precedents in architecture: Analytic diagrams, formative ideas, and partis. Hoboken, N.J.: Wiley. ;

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. ;

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. ; Routledge Taylor & Francis Group.;

Sam F Miller, Design process– Van Nostrand Reinhold;

Shah, S. Charanjit. Architects Hand Book Ready Reckoner. Glogotia 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. ;

Tait, J. (2018). The architecture concept book. London: Thames & Hudson. ;

Tilley, A. R., & Henry Dreyfuss Associates. (2002). The measure of man and woman: Human factors in design. New York: Wiley. ;

Unwin, S. (2010). Twenty buildings every architect should understand. London: Routledge;

Wittkower, Rudolf. Architectural Principles in the Age of Humanism. New York: W.W. Norton, 1971. ;

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.

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ARCH 203: BUILDING MATERIAL & CONSTRUCTION – II

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ARCH 203	BS & AE	TE	THEORY CUM STUDIO	BUILDING MATERIALS & CONSTRUCTION – II	2		2	4	4	40	40	80	160	20	20	40	200	3

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Syllabus: 15 weeks (4 hours/week) Total Teaching hours: 60 Hrs.

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Syllabus: 15 weeks (4 hours/week) Total Teaching hours: 60 Hrs.

### COURSE OBJECTIVES:

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

### COURSE OUTCOME

At the end of the course, students will be able to –

- Demonstrate an understanding of basic principles for planning, design, and construction of a loadbearing system of construction.
- Explain the construction of building elements based on material behaviour and its relation to other elements.
- Explain basic principles of building sub-structure.

### EXPECTED SKILLS / KNOWLEDGE TRANSFERRED:

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

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

- Students will understand the building elements, their 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:

SR. NO.	SYLLABUS: TOPIC	SUB TOPIC	TEACHING HOURS:
1	Load bearing construction system	<ul style="list-style-type: none"> <li>• Type of Foundation (Shallow, deep, special-type, etc.)</li> <li>• Carpentry and joinery:</li> <li>• Types of the opening in masonry wall (Door, Window, Arch, lintel, etc.)</li> <li>• Understanding of frame structure concerning the specific material – wood and concrete</li> <li>• Various floor and floor systems, partition walls</li> <li>• Various Roof and roof systems, roof coverings</li> <li>• Doors, windows, and openings</li> </ul>	12 hrs.
		Understanding building elements (From foundations to parapets) using simple manufactured materials and simple constructional systems. • Understanding elements of the load-bearing system like foundations, walls,	

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- |   |                                   |  |         |
|---|-----------------------------------|--|---------|
| 2 | Foundations:<br>Shallow and Deep  | <p>openings, lintels, columns, piers, etc., and their role in a load-bearing system.</p> <p>Understand basic principles of foundation design:</p> <ul style="list-style-type: none"> <li>Definitions, general requirements, safe bearing capacity of different types of soils, material and foundation type, etc.</li> <li>Shallow foundation: Strip, Isolated, combined, and raft foundations and their construction techniques.</li> <li>Introduction to Deep foundation: Grillage foundations, Piles foundations, Caisson foundations, etc.</li> </ul>  | 16 hrs. |
| 3 | Building Materials and properties | <p>Understanding of behaviour of elements in a construction system, about the material properties:</p> <ul style="list-style-type: none"> <li>Lime: Sources of lime, classification and manufacturing process of lime, properties, and use, tests on lime, etc.</li> <li>Cement: Composition of ordinary cement, a function of cement ingredients, properties of cement – soundness, setting time, strength, etc. Grade of cement and different types of cement used in construction. The manufacturing process of ordinary cement in the dry and wet method, packing and storage of cement, use of cement.</li> <li>Mortar: Sand, sources of sand and its classification, tests on the sand, classification of mortar – lime mortar, mud mortar, surkhi mortar, cement mortar, preparation of mortar and its properties, use and selection of mortar for different construction work, etc.</li> <li>Timber: Varieties of timber, defects in timber, decay of timber, qualities of timber, seasoning, storage and preservation, properties, and uses.</li> </ul> | 32 hrs. |
| 4 | Carpentry Joinery Details         | <p>The behaviour of wood, woodworking, and tools.</p> <ul style="list-style-type: none"> <li>Types and application of timber joinery</li> <li>Appropriate joinery for different loading conditions</li> </ul>  |         |

NOTE:

- The classwork and home assignments should include appropriate site visits by the students.
- The student will maintain field observations/record books.
- At least two exercises are to be done in the construction yard.
- Each Unit should include a market survey and construction site to visit compulsorily with studio working on sheets minimum of 12 to 15 Nos A-1 Sheets
- Emphasis should be laid on making students understand complete construction details of single-story structures.

SUGGESTED READINGS:

A. Agarwal –Mud: The potentials of earth-based material for third world housing – IIED, London 1981.  
 Agrawal, B. K. Introduction to Engineering Materials. New Delhi: Tata McGraw Hill Education Ltd., 2013  
 Barry, R. Construction of Buildings Vol - 1: Foundations and Oversite Concrete, Walls, Floors, Roofs. New Delhi: Affiliated East-West Press Pvt. Ltd., 1999

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Barry, R. Construction of Buildings Vol - 4: Multi-Storey Buildings, Foundation and Substructures, Structural Steel Frames, External Walls and Cladding of Framed Buildings. New Delhi: Affiliated East-West Press Pvt. Ltd., 1999

Barry, R. The Construction of Buildings Vol. 2, 5th Ed. East-West Press. New Delhi, 1999.

Beylerian, George M. Material Connexion: The Global Resource of New And Innovative Materials For Architects, Artists And Designers. UK: Thames & Hudson Ltd, 2005

Bhavikatti, S. S. Building Construction. Noida: Vikas Publishing House Pvt. Ltd., 2013

Bhavikatti, S. S. Materials of Construction Vol - 2. New Delhi: I. K. International Publishing House Pvt. Ltd., 2014

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Ching, Francis D. K. Building Construction Illustrated. Delhi: Wiley India (P) Ltd., 2012

Ching, Francis D. K. Building Structures Illustrated. New York: John Wiley & Sons, Inc., 2014

Ching, Francis D. K. Visual Dictionary of Architecture. Delhi: Wiley India (P) Ltd., 2012

Chowdary, K.P. Engineering Materials are used in India, 7th Ed. Oxford and IBH Pub. Ltd., New Delhi, 1990.

Chudley, R. Building Construction Handbook. Oxford: Butterworth-Heinemann Ltd., 2010

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Hailey and Hancock, D.W. Brick Work and Associated Studies Vol. 2. MacMillan, London, 1979.

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Punmia, B. C. Building Construction. New Delhi: Laxmi Publications Pvt. Ltd., 2008

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R.Chudley, Construction Technology.

Rangwala, S. C. Building Construction. Anand: Charotar Publishing House, 2014

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Salgado, Rodrigo. Engineering of Foundation. New Delhi: Tata McGraw Hill Education Ltd., 2011

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Schodek, Daniel L. Structures. New Delhi: PHI Learning Private Limited, 2014

Shah, M. G.; Padki, S. Y.; Kale, C. M. Building Construction Vol - 4: Metric. New Delhi: Tata McGraw Hill Education Ltd., 2015

Singh, Gurcharan. Building Construction and Materials. Delhi: Standard Book House, 2012

Soni, Saurabh Kumar. Building Materials and Construction. New Delhi: S. K. Kataria & Sons, 2013

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ARCH 204 ARCHITECTURAL GRAPHICS & DRAWING – II

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO				
										2 TERM MST 20%	SS 20% OR 30%	ESUE 40%OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL		
STUDIO										INT	EX		INT	EX				INT
ARCH 204	PC	SK	STUDIO	ARCHITECTURAL GRAPHICS & DRAWING - II			3	3	3					75	75	150	150	

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; RVV - INTERMEDIATE REVIEW

Syllabus: 15 weeks (3 hours/week) Total Teaching hours: 45 Hrs.

ARCH 204 ARCHITECTURAL GRAPHICS & DRAWING – II

Syllabus: 15 weeks (3 hours/week) Total Teaching hours: 45 Hrs.

COURSE OBJECTIVE:

At the end of the course, students will be able to –

- Learn various techniques to represent an idea 3-dimensionally making use of the concept of sciography and perspective.
- Maximize the skills of visualization and learn to utilize them to represent basic form and space.

COURSE OUTCOME

At the end of the course, students will be able to –

- Learn various techniques to represent an idea 3-dimensionally making use of the concept of sciography and perspective.
- Maximize the skills of visualization and learn to utilize them to represent basic form and space.

**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 employing technical representation of Form & Space

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

COURSE OVERVIEW:

The course is intended to develop the techniques of architectural drawing about simple and complex solid geometrical forms of Building geometry Sociography 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 To impart the skills of three-dimensional visualization and presentation

COURSE CONTENTS:

SR. NO. SYLLABUS: TOPIC SUBTOPIC

TEACHING HOURS:

- |   |            |  |         |
|---|------------|--|---------|
| 1 | Sciography | <ul style="list-style-type: none"> <li>• Development of Surfaces:</li> <li>• Interpenetration of solids</li> <li>• Sociography</li> <li>• 1 point, 2 point &amp; 3-point perspective view drawings, using various methods</li> <li>• Geometrical Drawing of Special Curves:</li> <li>• On Flat Surfaces (horizontal, vertical and inclined surfaces)</li> <li>• On Curved Surfaces</li> <li>• Sciography of Architectural Elements (Walls, Steps, Roof,</li> </ul> | 17 hrs. |
|---|------------|--|---------|

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ARCH 204 ARCHITECTURAL GRAPHICS & DRAWING – II

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME						EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO					
										2 TERM MST 20%	SS 20% OR 30%	ESUE 40%OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL			
STUDIO						INT	EX			INT	EX					INT			
ARCH 204	PC	SK	STUDIO	ARCHITECTURAL GRAPHICS & DRAWING - II			3	3	3					75	75	150	150		

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

Syllabus: 15 weeks (3 hours/week) Total Teaching hours: 45 Hrs.  
etc..)

- |   |                                    |   |         |
|---|------------------------------------|---|---------|
| 2 | Perspective                        | <ul style="list-style-type: none"> <li>Perspective drawing as a representation tool</li> <li>Different Types of Perspective Drawings and its applications</li> <li>One Point Perspective</li> <li>Two Point Perspective</li> <li>Perspective Views of forms and Spaces</li> </ul> | 18 hrs. |
| 3 | Allied Techniques<br>(Part 2 of 2) | <ul style="list-style-type: none"> <li>Visualization Software (Sketch-UP, Rhino, or equivalents)</li> <li>Model Making</li> <li>Various freehand sketching exercises to strengthen visualization and representation.</li> </ul>   | 10 hrs. |

#### GUIDELINES

Assignments /Tasks are to be set from the entire syllabus; The topic of the project is to be displayed on Institute Notice Board fifteen days - a week time in advance OF commencement of the classes

#### NOTE:

This is a studio subject and students should be made to prepare drawings as studio exercises along with the theoretical inputs. The studio work should be around 12 to 15 A1 sheets for appropriate 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

#### SUGGESTED READINGS:

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 Fiore, 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.  
 Ching, Francis D. K., and Cassandra Adams. Building Construction Illustrated. New York: Wiley, 2001.  
 Ching, Francis D. K., and James Eckler. Introduction to Architecture.  
 Ching, Francis D. K., and Steven P. Juroszek. Design Drawing. New York: Van Nostrand Reinhold, 1998.  
 Ching, Francis D. K., Architecture: Form, Space, and Order. Hoboken, N.J: John Wiley & Sons, 2007.  
 Ching, Francis D. K., Barry Onouye, and Douglas Zuberbuhler. Building Structures Illustrated. Hoboken, NJ: John Wiley & Sons, 2009.  
 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 Rayeuan 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  
 George Barnett Johnston. Drafting Culture. The MIT Press

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ARCH 204 ARCHITECTURAL GRAPHICS & DRAWING – II

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)	
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO					
										2 TERM MST 20%	SS 20% OR 30%	ESUE 40%OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL			
STUDIO										INT	EX		INT	EX					INT
ARCH 204	PC	SK	STUDIO	ARCHITECTURAL GRAPHICS & DRAWING - II			3	3	3					75	75	150	150		

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; RVVW - INTERMEDIATE REVIEW

Syllabus: 15 weeks (3 hours/week) Total Teaching hours: 45 Hrs.

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 Residential & Commercial. Glencoe/McGraw-Hill  
 Thoms, E. French. Graphic Science and Design, New York: Mc Graw Hill.

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ARCH 205: HISTORY OF ARCHITECTURE & CULTURE – II

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME						EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION ( HRS)		
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO							
										2 TERM MST 20%	SS 20% OR 30%	ESUE 40%OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL					
THEORY											INT	EX			INT						
ARCH 205	PC	AR	THEORY	HISTORY OF ARCHITECTURE & CULTURE - II	2			2	2	20	30	50	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

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hrs.

ARCH 205: HISTORY OF ARCHITECTURE & CULTURE – II

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hrs.

COURSE OBJECTIVE:

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

To explain to the students the evolution of architecture about 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.

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 OUTCOME:

At the end of the course, students will be able to –

- Illustrate the geography of building materials/resources/ construction
- Examine the creation of different cultures and the impact of other factors on their architecture
- Discuss methods for understanding sociological background – Degree of the dominance of religious/political/economical class
- Acquire knowledge to identify the
- Illustrate the geography of building materials / resources/ construction
- Examine the creation of different cultures and the impact of other factors on their architecture
- Discuss methods for understanding sociological background – Degree of dominance of religious / political / economical class

EXPECTED SKILLS / KNOWLEDGE TRANSFERRED:

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

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.

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ARCH 205: HISTORY OF ARCHITECTURE & CULTURE – II

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION SCHEME								TOTAL MARKS	EXAM DURATION (HRS)
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO					
										2 TERM MST 20%	SS 20% OR 30%	ESUE 40%OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL			
THEORY										INT	EX		INT	EX					
ARCH 205	PC	AR	THEORY	HISTORY OF ARCHITECTURE & CULTURE - II	2			2	2	20	30	50	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; RVV - INTERMEDIATE REVIEW

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hrs.

SR. NO. SYLLABUS: TOPIC SUBTOPIC

TEACHING HOURS:

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 – are 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 is an expression of the cosmology and philosophy of culture; geometry,

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ARCH 205: HISTORY OF ARCHITECTURE & CULTURE – II

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO				
										2 TERM AST 20%	SS 20% OR 30%	ESUE 40% OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL		
THEORY										INT	EX		INT	EX				INT
ARCH 205	PC	AR	THEORY	HISTORY OF ARCHITECTURE & CULTURE - II	2			2	2	20	30	50	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

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hrs.

1	Prehistoric architecture																	
2	Early civilizations (Mesopotamian, Egyptian, Indus, Chinese, Minoan, Mycenaean, Pre-Columbian Americans, etc.)																	
3	Greek architecture																	
4	Roman Architecture																	

#### NOTE

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

#### SUGGESTED READINGS:

**Bindoo, D.D.**, History of Architecture, Milind P Lakshana, Hyderabad – 2006.  
**Wittkaner R** Architectural Principles in the Age of Humanism, Chichester: Academy Editions 1998  
**Copplstone, 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 Luigi 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.  
**Fletcher, Banister.** Sir Banister Fletcher's A History of Architecture. London: Butterworths, 1987.  
**Kostof, Spiro.** A History of Architecture: Settings and Rituals. New York: Oxford UP, 1985.  
**Brown, Percy.** Indian Architecture. Bombay: Taraporevala's Treasure House of.  
**Tadgell, Christopher.** A History of Architecture. London: Ellipsis, 2000.  
**Tadgell, Christopher.** The History of Architecture in India: From the Dawn of Civilization to the End of the Raj.  
**Ching, Francis D. K., Mark Jarzombek, and Vikramaditya Prakash.,** A Global History of Architecture. Hoboken, NJ: J. Wiley & Sons, 2007.  
**Havell, Ernest Binfield.,** Encyclopedia of Architecture in the Indian Subcontinent. New Delhi: Aryan International, 2004.  
**Albanese, Marilia.,** Architecture in India. New Delhi: Om Book Service, 2000.  
**Grover, Satish.,** The Architecture of India: Islamic (727-1707 A.D.). New Delhi: Vikas Pub. House, 1981.

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ARCH 205: HISTORY OF ARCHITECTURE & CULTURE – II

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME				TOTAL CLASS HRS	EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)
					L	T	S	CREDIT		THEORY				STUDIO				
										2 TERM MST 20%	SS 20% OR 30%	ESUE 40%OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL		
THEORY									INT	EX		INT	EX					INT
ARCH 205	PC	AR	THEORY	HISTORY OF ARCHITECTURE & CULTURE - II	2			2	2	20	30	50	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

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hrs.

- Kramrisch, Stella, and Raymond Burnier., The Hindu Temple. Delhi: Motilal Banarsidass, 1976. .
- Volwahren, Andreas., Living Architecture: Indian. New York: Grosset & Dunlap, 1969.
- Sandström, Gösta E., Man, the Builder. New York: McGraw-Hill, 1970.
- Maisels, Charles Keith: The Emergence of civilization, 1990
- History of World Architecture. London: Faber, 1979.
- Lloyd, Seton, and Hans Wolfgang Müller., Ancient Architecture: History of World Architecture. Milan: Elect architecture, 2004.
- Norberg-Schulz, Christian, and Pier Luigi Nervi. History of World Architecture. New York: Abrams, 1971.
- Bagenal, Philip. The Illustrated Atlas of the World's Great Buildings: A History of World Architecture. S.1. Leisure, 1980.
- Fazio, Michael W., Marian Moffett, Lawrence Wodehouse, and Marian Moffett. A World History of Architecture. Boston: McGraw-Hill, 2008.
- Michell, George, and Philip Davies. The Penguin Guide to the Monuments of India. London, England: Viking, 1989.
- Cotterell, Arthur (ed.); The Penguin encyclopedia of ancient civilizations, 1980

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ARCH 206: ENVIRONMENTAL SCIENCE FOR ARCHITECTURE

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME						EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)	
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO						
										2 TERM MST 20%	SS 20% OR 30%	ESUE 40% OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL				
THEORY											INT	EX		INT	EX					
ARCH 206	BS & AE	TE	THEORY	ENVIRONMENTAL SCIENCE FOR ARCHITECTURE	2			2	2	20	30	50	100				100	3		

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

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hrs.

ARCH 206: ENVIRONMENTAL SCIENCE FOR ARCHITECTURE

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hrs.

COURSE OBJECTIVE:

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.

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

COURSE OUTCOME:

At the end of the course, students will be able to -

- Illustrate the importance of the component of Environment and the ecosystem.
- Summarizes the importance of Energy resources:
- Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, its uses,
- impact and mitigation to be Understood.
- Classify the Biogeographical zones of India; Biodiversity patterns and global biodiversity hot spots and conservation of biodiversity.
- Relate environmental pollution and mitigation policies through Environmental laws.
- Analyze various human impact on environment and simple ecosystems 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.

EXPECTED SKILLS / KNOWLEDGE TRANSFERRED:

understanding architecture about the natural and built environment.

COURSE OVERVIEW:

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

COURSE CONTENTS:

SR. NO.	SYLLABUS: TOPIC	SUB TOPIC	TEACHING HOURS:
1		<ul style="list-style-type: none"> <li>• Introduction to Environment &amp; Built Environment</li> <li>• Built Environment: Urbanization; Resources; Climate change; urban sprawl, urban congestion; Pollutions; Carbon foot; Basics of Sustainable Development.</li> </ul>	5Hrs
2		<ul style="list-style-type: none"> <li>• Natural systems; Complex relationships between the built and natural environments;</li> </ul>	8Hrs

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ARCH 206: ENVIRONMENTAL SCIENCE FOR ARCHITECTURE

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)		
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO						
										2 TERM ASST 20%	SS 20% OR 30%	ISUE 40% OR 50%	TOTAL	IA 10% OR 50%	EV 10% OR 50%	TOTAL				
THEORY										INT	EX			INT	EX					INT
ARCH 206	BS & AE	TE	THEORY	ENVIRONMENTAL SCIENCE FOR ARCHITECTURE	2			2	2	20	30	50	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

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hrs.

3																		
4																		
5																		

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

SUGGESTED READINGS:

- 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 Earths cape - 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
- Eachucha, A Text Book of Environmental Studies for Undergraduate Courses, University Grants Commission.

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ARCH 207: THEORY OF STRUCTURES – II

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO				
										2 TERMS MST 20%	SS 20% OR 30%	ESUE 40%OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL		
THEORY									INT	EX		INT	EX					
ARCH 207	BS & AE	TE	THEORY	THEORY OF STRUCTURE - II	2			2	2	20	30	50	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

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hrs.

## ARCH 207: THEORY OF STRUCTURES – II

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hrs.

### COURSE OBJECTIVE:

To provide knowledge of different forces, force systems, Beams types sectional Properties behaviour of different members due to applied forces.

### COURSE OUTCOME:

At the end of the course, students will be able to –

- Explain the structural behavior of materials.
- Built about basic structural systems
- Make use of load mechanism in structural systems

Basic principles of mechanics and behaviour of elements of structures.

### EXPECTED SKILLS / KNOWLEDGE TRANSFERRED:

At the end of the course, students will be able to –

- Explain the structural behavior of materials.
- Built about basic structural systems
- Make use of load mechanism in structural systems

Basic principles of mechanics and behaviour of elements of structures.

- The student will develop conceptual understanding by using the abstract method of analysis of structures.
- The student will develop an understanding of the basic requirement of stability, the strength of the material
- The student will learn the behaviour of basic structural elements and their importance in the Structural System.

### COURSE OVERVIEW:

- Gives an in-depth understanding of the concepts associated with different Elements of Structures.
- Structural systems- ways to create inner space; Understanding loads of various types understanding the forces and Moments –
- Definition, cause, effect, units Types of forces, Conditions of equilibrium Beam reactions

### COURSE CONTENTS:

SR. NO. SYLLABUS: TOPIC SUB TOPIC

TEACHING HOURS:

#### STRUCTURAL CONCEPTS IN ARCHITECTURE

Theory of simple bending Introduction, pure bending & ordinary bending, Assumption's derivation of flexure formula section modulus Numerical on flexure equation.

- Centre of gravity, determining the centroid of simple figures. Moment of inertia, its application to sections subjected to bending, determining M.I. of simple and compound sections, Welded joints: Introduction, Advantages and disadvantages of welded joints, types,

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ARCH 207: THEORY OF STRUCTURES – II

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO				
										2 TERMS MST 20%	SS 20% OR 30%	ESUE 40%OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL		
THEORY									INT	EX		INT	EX				INT	
ARCH 207	BS & AE	TE	THEORY	THEORY OF STRUCTURE - II	2			2	2	20	30	50	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; RVVW - INTERMEDIATE REVIEW

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hrs.

the strength of fillet weld, the design of welded joint for plates and unsymmetrical sections for axial loading

- Resolution of forces
- The concept of triangulation and its application in pin jointed trusses
- The assumption about the strength of materials, basic terminology, a brief history of strength of materials.
- Concept & importance of the shear force and the bending moment.
- Pure Bending stress & combined direct and bending stresses.
- Stability, buckling of columns, short and long columns.
- Deflection and its importance, code provisions, the study of the deflected shape of simple structures. Solutions to problems.

Propped Cantilevers Introduction, Reaction of a prop, Cantilevers with Udl's, point loads, prop at the end & intermediate positions, slope & deflection

- The concept of shear stress, average and maximum shears stress. Horizontal shear stress and its variation across the cross-section of the beam.
- Shear stresses in beams Introduction, stress distribution for standard shapes like rectangle circle triangle I, T, L, C Section, Direct & bending Stresses Introduction,

- 1 Methods of categorization of structural system  
Structure types  
• Solid - wall, arch, vault etc.  
• Surface - Grid, plates, shells, stressed skin  
• Skeleton - truss and frameworks  
• Membrane - Cable/membrane tents, cable nets, pneumatics  
• Hybrids - Tension-assisted structures

10 hrs.

- 2 Mechanical properties of structural material  
• strength, stiffness, shape  
• Tensile, compressive, shear, torsion, bending  
• the dead load imposed load, thermal load, Dynamic load

10 hrs.

COURSE	3	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	L	T	S	CREDIT	TOTAL CLASS HRS	EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)	
											THEORY				STUDIO					10 hrs TOTAL
											2 TERM 20%	SS 20%	ISSUE 40% OR 50%	TOTAL	IA 10% OR 50%	EV 10% OR 50%				
THEORY										INT	EX		INT	EX				INT		
ARCH 207		BS & AE	TE	THEORY	THEORY OF STRUCTURE - II	2			2	20	30	50	100				100	3		

**SUGGESTED READINGS:**

Ambrase, James E. Building Structures. New York: Wiley, 1988.

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- Ambrase, James E. Building Structures. New York: Wiley, 1988.
- Bar, N. P. Textbook of Engineering Mathematics. New Delhi: Laxmi Publications Pvt. Ltd., 2011.
- Barry, R. Construction of Buildings Vol. I Foundations and Overlays. Concrete, Walls, Floors, Roofs, New Delhi, Affiliated East-West Press Pvt. Ltd., 1999
- Biggs, John M., Introduction to Structural Dynamics. New Delhi, McGraw-Hill Education India Pvt Ltd, 2014
- Burns, John A. Recording Historic Structures. Washington, D.C.: American Institute of Architects, 1989.

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Charleson, Andrew., Structure as architecture: Sourcebook for architects and structural engineers, London, Taylor & Francis, 2015;

Ching, Francis D. K., Building Structures Illustrated, New York, John Wiley & Sons, Inc., 2014

Corkill, P. A., H. L. Puderbaugh, and H. K. Sawyers. Structure and Architectural Design. Iowa City: Sernoll, 1974.

Cowan, Henry J. Architectural Structures: An Introduction to Structural Mechanics. New York: Elsevier, 1976.

Deplazes, Andrea, Constructing Architecture Materials Processes Structures: A Handbook, Switzerland, Birkhauser- Publisher of Architecture, 2013

Forsyth, Michael. Structures & Construction in Historic Building Conservation. Oxford, UK: Blackwell, 2007.

Gordon, J. E. The New Science of Strong Materials, Or, Why You Don't Fall through the Floor. Princeton, NJ: Princeton UP, 1984.

Hibbeler, Russell C., Structural Analysis, India, Pearson Education Asia Pte. Ltd., 2013

IS 883 – Code of Practice for Design of Structural Timber in Buildings IS 800 – Code of Practice for Use of Structural Steel in General Building Construction

James Ambrose, Building Structure, Canada Wiley, 2012

Junarkar S. B., Mechanics of Structures Vol 1, Charotar Publishing House, India, 1995

Junnarkar, S. B., Mechanics of Structures Vol – 1, Anand, Charotar Publishing House, 2012

Khurmi, R. S., Strength of Materials: Mechanics of Solids, New Delhi, S. Chand & Company Ltd., 2013

Khurmi, R.S. Engineering Mechanics, S. Chand and Co.Ltd., New Delhi, 1999.

Kumar, Ashok, Theory of Structures, New Delhi, Laxmi Publications Pvt. Ltd., 2004

Laudner T.J. and Archer R.R., Mechanics of Solids in Introduction, McGraw - Hill International Editions, 1994

Laursen, Harold I., Structural Analysis, New Delhi, McGraw Hill Education India Pvt Ltd, 2014

Levy, Matthys, Why Buildings Fall: How Structures Fail, New York, W. W. Norton and Co., 2002

Mainstone, R. J. Structure in Architecture: History, Design, and Innovation. Aldershot, Hampshire: Ashgate, 1999.

Millais, Malcolm. Building Structures: From Concepts to Design. London: Spon, 2005.

Miret, Eduardo Torroja, J. J. Polivka, and Milos Polivka. Philosophy of Structures: English Version by J.J. Polivka and Milos Polivka. Berkeley, CA: U of California, 1962.

Morgan, William, Daniel Williams, and Frank Durka. Structural Mechanics: A Revision of Structural Mechanics. Harlow: Longman, 1996.

Muttoni, A. The Art of Structures: Introduction to the Functioning of Structures in Architecture. Abingdon, Oxford, UK: EPFL/Routledge, 2011.

National Building Code of India, 1983, Part VI, Structural Design.

Onouye, Barry S., Statics and Strength of Materials for Architecture and Building Construction, Chennai, Pearson India Education Services Pvt Ltd., 2015

Pandit, G. S., Structural Analysis: A Matrix Approach, New Delhi, Tata McGraw-Hill Publishing Company Ltd., 2008

Parikh, Janak, Understanding Concept of Structural Analysis and Design, Anand, Charotar Publishing House, 2000

POPOV, E.P., Mechanics of Solids, Prentice - Hall Inc, Englewood Cliffs, New Jersey - 1976

Ramamrutham, S., Theory of Structures, Delhi, Dhanpat Rai & Sons, 2013

Ramamrutham, S. Engineering Mechanics, 7th Ed. Dhanpat Rai Pub. Co. Ltd., Delhi, 2004.

Rosenthal, Hans Werner., and Hans Werner. Structural Decisions: The Basic Principles of Structural Theory, Their Application to the Design of Buildings and Their Influence on Structural Form. London: Chapman & Hall, 1962.

S. Ramamrutham and Narayanan R., Strength of Materials, Dhanpat Rai Publications, New Delhi, 2002

Salvadori, Mario, and Robert A. Heller. Structure in Architecture: The Building of Buildings. Englewood Cliffs, NJ: Prentice-Hall, 1975.

Salvadori, Mario, Saralinda Hooker, and Christopher Ragus. Why Buildings Stand Up: The Strength of Architecture. New York: Norton, 1980.

Salvadori, Mario, Why Buildings Stand Up: The Strength of Architecture, New York, W. W. Norton and Co., 1980

Sandaker, Bjørn Normann, and Arne Petter. Eggen. The Structural Basis of Architecture. New York: Whitney Library of Design, 1992.

Schodek, Daniel L. Structures. Englewood Cliffs, NJ: Prentice-Hall, 1980.

Seward, Derek. Understanding Structures: Analysis, Materials, Design. Basingstoke: Palgrave Macmillan, 2003.

Timoshenko, C.P., and Gere., Mechanics of Materials, McGraw - Hill Book Company, New York, 1984

Timoshenko, S. and Young, D.H. Engineering Mechanics, McGraw-Hill International Editions

Watson, Donald, Time saver Standards for Building Materials and Systems: Design Criteria and Selection Data, New Delhi, Tata McGraw Hill Education Private Limited, 2009

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ARCH 208: WORKSHOP -II

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)	
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO					
										2 TERM MST 20%	SS 20% OR 30%	ESUE 40%OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL			
SEMINAR /LAB										INT	EX		INT	EX					
ARCH 208	PC	SK	STUDIO	WORKSHOP II			2	2	2					50	50	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

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hr.

## ARCH 208: WORKSHOP -II

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hr.

### COURSE OBJECTIVE:

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.

### COURSE OUTCOME:

At the end of the course, students will be able to

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

### EXPECTED SKILLS / KNOWLEDGE TRANSFERRED:

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

FOCUS: Manual Skills

### COURSE OVERVIEW:

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

Sketching Techniques

### COURSE CONTENTS:

SR. NO.	SYLLABUS: TOPIC	SUB TOPIC	TEACHING HOURS:
1	Sketching	<ul style="list-style-type: none"> <li>Architectural Renderings (Plan, Section, Elevation, Views)</li> <li>Building Expressions, Simplifications, Analytical Diagrams</li> </ul>	8Hrs
2	Model Making	<ul style="list-style-type: none"> <li>Model Making II (Wood &amp; Other materials)</li> </ul>	8Hrs
3	Basic Use of Computers	<ul style="list-style-type: none"> <li>Editing &amp; Composition Software's (Photoshop, Illustrator, Etc.)</li> <li>Infographics</li> </ul>	8Hrs
4	Photography	<ul style="list-style-type: none"> <li>inbuilt models, using lighting and natural background.</li> </ul>	6Hrs

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ARCH 208: WORKSHOP -II

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME						EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO					
										2 TERM MST 20%	SS 20% OR 30%	ESUE 40%OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL			
SEMINAR /LAB										INT	EX		INT	EX					
ARCH 208	PC	SK	STUDIO	WORKSHOP II			2	2	2					50	50	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

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hr.

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 a 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 the Institute Notice Board fifteen days in advance Of the 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

SUGGESTED READINGS:

Aditi Ranjan, M. P. Ranjan. Handmade in India. Council of Handicraft Development Corporations  
 Alan Jefferis, David A. Madsen, David P. Madsen. Architectural Drafting & design. Delmar Cengage Learning  
 Albert O. Halse. Architectural Rendering: The Techniques of Contemporary Presentations. McGraw-Hill  
 Arthur L. Guptill, Susan E. Meyer. Rendering in Pen and Ink. Watson-Guption; 60 Anv edition  
 Barbara glasner, Petra Schmidt. CROMA designs architecture and art in colour. Birkhäuser Architecture  
 Bernald, S and Copplene, Myers. History of Art.  
 Catherine Norman, Ryland Peters & Small, Paper Scissor Glue  
 Ching, Francis D. K. Architectural Graphics. New York: Van Nostrand Reinhold, 1975. .  
 Ching, Francis D. K., and James Eckler. Introduction to Architecture.  
 Ching, Francis D. K., and James Eckler. Introduction to Architecture.  
 Ching, Francis D. K., and Steven P. Juroszek. Design Drawing. New York: Van Nostrand Reinhold, 1998. .  
 Ching, Francis D. K., and Steven P. Juroszek. Design Drawing. New York: Van Nostrand Reinhold, 1998. .  
 Ching, Francis D. K., Architecture: Form, Space, and Order. Hoboken, N.J: John Wiley & Sons, 2007.  
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 Craven, C. Roy. Indian Art a Concise History.  
 Deepak John Mathew. Principles of design through photography. Wisdom Tree Publishers  
 Donna Kato & Natson Guptill, The art of Polymer Clay  
 Douglas Cooper., Drawing and Perceiving. John Wiley & Sons.  
 Douglas Cooper. Drawing and Perceiving. WILEY  
 Edward D. Levinson., Architectural Rendering Fundamentals. McGraw-Hill  
 Edward D. Levinson. Architectural Rendering Fundamentals. McGraw-Hill  
 Eric brought. Islamic Geometric Design. Thames & Hudson  
 Eugene Felder & Emmett Elvin, The complete book of drawing techniques, by  
 George Michell, Snehal Shah. Ahmadabad. Marg Publications, 1988  
 Helmut Pottmann., Architectural geometry. Bentley Institute Press Illustrated story of art. DK Publications.  
 Helmut Pottmann. Architectural geometry. Bentley Institute Press  
 Henry Wilson. Pattern and ornament in the arts of India. Thames & Hudson

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ARCH 208: WORKSHOP -II

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)	
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO					
										2 TERM MST 20%	SS 20% OR 30%	ESUE 40%OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL			
SEMINAR /LAB										INT	EX		INT	EX					INT
ARCH 208	PC	SK	STUDIO	WORKSHOP II			2	2	2					50	50	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; RVWV - INTERMEDIATE REVIEW

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hr.

Hilary French. Key Urban Housing of the Twentieth Century: Plans, Sections, and Elevations. W.W. Norton  
 Jaya Jaitly. Craft atlas of India. Niyogi Books  
 K. Mankodi. The queen's stepwell at Patan. Project for Indian Cultural Studies  
 Krier, Rob. The element of Architecture. Academy Editions, London, 1992.  
 Lorraine Farrelly. Representational Techniques. Fairchild Books AVA  
 Lorraine Farrelly. Representational Techniques. Fairchild Books AVA  
 Magnet, Jacque. The Aesthetic Experiences: An anthropologist looks at Visual Art.  
 Manosi Lahiri. Mapping India. Niyogi Books  
 Martin Dawber. Contemporary Illustration. Batsford, 2009  
 Martin Dawber. Contemporary Illustration. Batsford, 2009  
 Meenakshi Jain, Kulbhushan Jain, Meghal Arya. The architecture of a royal Camp. AADI Centre  
 Michael E. Doyle. Colour Drawing. Wiley  
 Michael E. Doyle. Colour Drawing. Wiley  
 Michell George, Snehal Shah. Ahmadabad. Marg Publications  
 Owen Jones. The grammar of ornament. B. Quaritch  
 Phil Metzger. The Art of Perspective: The Ultimate Guide for Artists in Every Medium. North Light Books, 2007  
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 Pierre von Meiss. Elements of Architecture: From Form to Place. Routledge  
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 Thyagarajan. Basic practical photography  
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 Wilson William Atkin. Architectural Presentation Techniques. Van Nostrand Reinhold

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ARCH 209: BUILDING SYSTEMS AND SERVICES -II WATER SUPPLY & SANITATION

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME						EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO					
										2 TERM MST 20%	SS 20% OR 30%	ESUE 40%OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL			
THEORY											INT	EX		INT	EX				
ARCH 209	BS & AE	TE	THEORY	BUILDING SYSTEMS AND SERVICES- II (WATER SUPPLY & SANITATION)	2			2	2	20	30	50	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; RVV - INTERMEDIATE REVIEW

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hrs.

ARCH 209: BUILDING SYSTEMS AND SERVICES -II WATER SUPPLY & SANITATION

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hrs.

COURSE OBJECTIVE:

To introduce and expose the students to various ways to provide information on the principles and appurtenance of water supply and sanitation systems.

COURSE OUTCOME:

At the end of the course, students will be able to -

1. Relate different source of fresh water, its collection and different treatment methods; also the standards available for maintaining potable water.
2. Estimate water demand towards facilitating water supply system design and management.
3. Plan various distribution systems in water supply, their components and installment techniques in a typical water supply system.
4. Plan plumbing layout representation for a given design.
5. Explain different Storm water drainage techniques, solid waste management systems, rain water harvesting methods, recycling and conservancy methods.

EXPECTED SKILLS / KNOWLEDGE TRANSFERRED:

To enable students to design sanitary and water supply systems for buildings, and prepare water supply and drainage plans for building sites.

COURSE OVERVIEW:

Understanding the significance, design, and functioning of water and sewerage systems as essential components in building design and site planning.

COURSE CONTENTS:

SR. NO. SYLLABUS: TOPIC SUB TOPIC

TEACHING HOURS:

- Water supply, Sanitation & Drainage System: Principles & Design
- Water Supply.
- Piping systems - in low, medium, high-rise buildings & residential layouts;
- Case studies & design problems; Codes & standards; Symbols for representation.
- Sanitation: Plumbing drawing.
- Drainage:
- Rainwater's harvesting & Clearance system.
- Solid Waste Management:
- Roads and Pavements
- Plumbing And Fire Fighting Layout Of Simple

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ARCH 209: BUILDING SYSTEMS AND SERVICES -II WATER SUPPLY & SANITATION

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO				
										2 TERMS MST 20%	SS 20% OR 30%	ISUE 40%OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL		
SEMINAR /LAB										INT	EX		INT	EX				
ARCH 210	SEC	SU	PROJECT	STUDY TOUR I / FIELD STUDIO														

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

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hr.

				Buildings:	
1	Water supply, Plumbing & Drainage	Water supply, Potable & Usable water's supply-storage and sewage, Rainwater's harvesting & Clearance system. Water consumption for various activities & designing the plumbing system.	10 hrs.		
2		<ul style="list-style-type: none"><li>Drainage General principles of drainage, manholes, grease chambers Principles of design of drainage lines, drainage layouts Refuse, different forms of refuse garbage, sullage, toilet waste, and stormwater collection and disposal systems. Drainage in non-municipal areas – soak wells, septic tanks.</li></ul>	10 hrs.		
3		<ul style="list-style-type: none"><li>Solid Waste Management:</li><li>Roads and Pavements</li></ul>	10 hrs.		
				Plumbing And Fire Fighting Layout of Simple Buildings:	

SUGGESTED READINGS:

A. Kamala & DL Kanth Rao, Environmental Engineering, Tata McGraw – Hill publishing company Limited.  
 Charanjit Shah, Water supply and sanitary engineering, Galgotia publishers.  
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 M.David Egan, Concepts in Building Fire Safety.  
 National Building Code 2005.  
 S.C.Rangwala, Water supply, and sanitary engineering, Charotar publishing house.  
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 V.K.Jain, Fire Safety in Building: Olgay, Victor. Design With Climate – Bio-Climatic Approach to Architectural Regionalism. New Jersey: Princeton University Press, 1963  
 Laureano. Water conservation techniques in traditional human settlements. Ghaziabad: Copal, 2013  
 Water. London: Dorling Kindersley, 2006  
 Construction Technology Volume -1 & 2 - BY R. Chudly : Construction Technology Volume -1 & 2 BY R. Barry 18. Construction Technology - BY B.C. Punamiya; Building Construction Illustrated - Franis D.K. Ching

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ARCH 210: STUDY TOUR – I

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME						EVALUATION SCHEME						TOTAL MARKS	EXAM DURATION (HRS)		
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO						
										2 TERM TEST 20%	SS 20% OR 30%	ESUE 40%OR 50%	TOTAL	IA 10% OR 50%	EV 10% OR 50%	TOTAL				
SEMINAR /LAB											INT	EX		INT	EX					INT
ARCH 210	SEC	SU	PROJECT	STUDY TOUR I / FIELD STUDIO																

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; RVV - INTERMEDIATE REVIEW

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hr.

## ARCH 210: STUDY TOUR – I

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hr.

### COURSE OBJECTIVE:

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

### COURSE OUTCOME :

At the end of the course, students will be able to

- Students will get the understanding of “synthesis of learning from various courses” by observing; registering & mapping built buildings.
- Programme outcome will be extremely valuable in creating a knowledge base on the architecture field not only in India but in 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;

### EXPECTED SKILLS / KNOWLEDGE TRANSFERRED:

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

### COURSE OVERVIEW:

Students will develop the skills & understanding of measure drawing.

### COURSE CONTENTS:

SR. NO. SYLLABUS: TOPIC SUBTOPIC

TEACHING HOURS:

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

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ARCH 210: STUDY TOUR – I

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME						EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO					
										2 TERMS MST 20%	SS 20% OR 30%	ISUE 40%OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL			
SEMINAR /LAB										INT	EX		INT	EX				INT	
ARCH 210	SEC	SU	PROJECT	STUDY TOUR I / FIELD STUDIO															

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

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hr.

- 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 the remaining days.

### GUIDELINES

The topic of the project is to be displayed on the Institute Notice Board fifteen days in advance OF the 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 propose 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 analyse the building and a word of the concept according to the architect.

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ARCH 219: ELECTIVE – II

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME				TOTAL CLASS HRS	EVALUATION SCHEME						TOTAL MARKS	EXAM DURATION (HRS)
					L	T	S	CREDIT		THEORY			STUDIO				
										2 TERM MST 20%	SS 20% OR 30%	ESUE 40% OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%		
SEMINAR /LAB									INT	EX		INT	EX				INT
ARCH 219	SEC	SU	STUDIO	ELECTIVE- II (POOL I)			2	2	2				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

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hr.

ARCH 219: ELECTIVE – II

ARCH 219	ELECTIVE- II ( POOL I)	ELECTIVE- II ( POOL I)
ARCH 219(1)		TRADITIONAL ARTS & CRAFTS
ARCH 219(2)		MS OFFICE /PREZI/PPT /PHOTOSHOP
ARCH 219(3)		FILM APPRECIATION
ARCH 219(4)		BUILDING & VILLAGE DOCUMENTATION

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hr.

COURSE OBJECTIVES:

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

COURSE OUTCOME

At the end of the course, students will be able to -overall nurturing of the student with issues in practice and field outside

better grooming than just books and theories.:

EXPECTED SKILLS / KNOWLEDGE TRANSFERRED:

better grooming than just books and theories.

COURSE OVERVIEW:

The following is a representative list of Institute projects: Seminars, Tutorials/ additional classes for any course, Guest Lectures, Workshops, Provides knowledge to support student being sensitive design;

COURSE CONTENTS:

SR. NO.	SYLLABUS: TOPIC	SUB TOPIC	TEACHING HOURS:
1	The creative electives provide an opportunity to express talents that are different from architecture but related to imagination, visualization & creation. They offer hands-on experience of unique ingenuity & workmanship. The essence of a 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.		
	<ul style="list-style-type: none"> <li>As Per Pool Electives Choices Stage I odd semester pool</li> </ul>		

GUIDELINES

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

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

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COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO				
										2 TERMS MST 20%	SS 20% OR 30%	ESUE 40%OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL		
SEMINAR /LAB										INT	EX		INT	EX				
ARCH 219	SEC	SU	STUDIO	ELECTIVE- II (POOL II)			2	2	2					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

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hr.

<p><b>Methods of Architectural documentation/ Building and village documentation</b></p>	<p>The student will be able to create a measure drawing set of a building at the end of the course. The student will be able to measure a building. The student will be able to use different ways like sketching, photography, etc. to document a building</p> <p>Different modes of Documentations: Measured Drawings, Sketches &amp; Diagrams, Photographic Documentation, Texts - Audios, Video – Documentary</p>
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#### COURSE OUTCOMES:

At the end of the course, students will be able to -

- Illustrate the use of various techniques of architectural documentation
- Demonstrate the skills and prepare the framework of an architectural documentation
- Create an architectural work portfolio

Syllabus: 15 weeks (3 hours/week)

Total Teaching hours: 45 Hrs

Sr.No.	Syllabus:Topic	Sub Topic	Teaching hours:
1	Introduction to techniques of documentation	<ul style="list-style-type: none"> <li>Written and visual documentation</li> <li>Photographic documentation</li> <li>Video documentation</li> </ul>	12 hours
2	Content writing and framework of a portfolio	<p>How to create a content for making an effective portfolio?</p> <p>Graphics and framework of a portfolio</p> <p>Learn the skills required for making a portfolio</p>	15 hours
3	Portfolio	<ul style="list-style-type: none"> <li>Compositions and layouts</li> </ul> <p>Create a portfolio</p>	18 hours

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ARCH 219: ELECTIVE – II

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO				
										2 TERMS MST 20%	SS 20% OR 30%	ESUE 40%OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL		
SEMINAR /LAB										INT	EX		INT	EX				
ARCH 219	SEC	SU	STUDIO	ELECTIVE- II (POOL II)			2	2	2					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

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hr.

ART AND ARCHITECTURAL APPRECIATION/ Film Appreciation	<p>to understand and appreciate art in terms of its form, content and context through the study of works of art over history to develop a sensitivity towards aesthetics which is a necessary component of architecture. Introduction to art: fundamentals of art: principles: content: nature/issues of art: central problems of design theory, form and formalism elements:</p> <p>Introduction to the field of cinema. The student will be able to develop a sensitivity towards cinema as a medium, the student will learn about the key moments in the history of cinema. The students will understand the process of filmmaking.</p> <p>An overview of the history of cinema, Understanding and analysis of critically important films</p>
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ARCH 219: ELECTIVE – II

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME						EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO					
										2 TERM MST 20%	SS 20% OR 30%	ESUE 40% OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL			
SEMINAR /LAB										INT	EX		INT	EX					
ARCH 219	SEC	SU	STUDIO	ELECTIVE- II (POOL II)			2	2	2					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

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hr.

Course Outcomes: At the end of the course, students will be able to -

- Take part in active viewing of cinema and develop one's own informed perspective through personal engagement with films using analytical tools and techniques
- Analyse that content, form, and contexts work together to create meaning in the film Adapt to using the key concepts, models and tools used in film criticism

Syllabus: 15 weeks (3 hours/week)

Total Teaching hours: 45 Hrs.

Sr.No	Syllabus: Topic	Sub Topic	Teaching hours:
1	Film vs. Theatre	Differences and similarities between film and theatre • Stage vs. screen	6 hours
2	Films	• Types of films Timeline of film making – black and white to 3D experience	9 hours
3	Movies for Fun & Profit, Art & Communication	• Movies and their roles in our lives • Film: looking for meaning From theaters to Netflix to iPhones • The current film landscape	9 hours
4	Film and Its Impact on Society	• Films beyond just entertainment • Pushing the envelope: Case studies	12 hours
5	Criticism and Analysis	• What is a critic? • Approaches to analysis and interpretation	9 hours

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COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME					TOTAL CLASS HRS	EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)
					L	T	S	CREDIT	THEORY				STUDIO						
									2 TERMS MST 20%		SS 20% OR 30%	ESUE 40%OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL			
SEMINAR / LAB										INT	EX		INT	EX					INT
ARCH 219	SEC	SU	STUDIO	ELECTIVE- II (POOL II)			2	2	2					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

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hr.

Course Outcomes:

At the end of the course, students will be able to –

- Relate to different works of art
- Demonstrate the processes involved in artistic production
- Analyse and interpret the role and effect of arts in society, history and world culture

Unit No.	Syllabus: Topic	Sub Topic	Teaching hours:
1	Introduction to Art Appreciation	Explore the concept of art Theories of art aesthetics and how to apply the to an artwork Formal art criticism and will apply these steps to various artworks	3 hours
2	Elements of Art	Elements of Art including: line, shape, form, value, color, space, and texture Elements in a variety of artworks to increase fluency in artistic perception Basic representations of the elements to develop confidence in creative expression	3 hours
3	Principles of Design	Principles of Design including: balance, rhythm, movement, contrast, emphasis, and unity Principles in a variety of artworks to increase their fluency in Artistic Perception Basic representations of the elements to develop confidence in creative expression	6 hours
4	Art Making	Art making techniques of drawing, painting, sculpture, printmaking, and photography Materials used and the techniques artists most often utilize in their artmaking Understanding of the materials and methods of creative expression	6 hours
5	Art History Early Civilizations	Art from the earliest known civilizations including rock/wall art, sculpture, and architecture Artworks and architecture from Ancient Egypt, Ancient Greece, and Rome Cultural background and context for a holistic understanding of the historical and cultural	3 hours

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ARCH 219: ELECTIVE – II

COURSE	COURSE	COURSE AREA	COURSE TYPOLOGY	NAME OF THE COURSE	TEACHING SCHEME						EVALUATION SCHEME							TOTAL MARKS	EXAM DURATION (HRS)
					L	T	S	CREDIT	TOTAL CLASS HRS	THEORY				STUDIO					
										2 TERMS MST 20%	SS 20% OR 30%	ESUE 40%OR 50%	TOT AL	IA 10% OR 50%	EV 10% OR 50%	TOTAL			
SEMINAR /LAB										INT	EX		INT	EX					INT
ARCH 219	SEC	SU	STUDIO	ELECTIVE- II (POOL II)			2	2	2					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

Syllabus: 15 weeks (2 hours/week) Total Teaching hours: 30 Hr.

6	Early Christian to Gothic	Artworks and architecture from the Early Christian Era, Byzantine Era, and from Islamic cultures	3 hours
7	Renaissance to Rococo	Art of the Proto-Renaissance, Renaissance, Mannerism, Baroque, and Rococo eras, including major socio-political changes, artmaking differences, stylistic differences, and accompanying works Shifts in medium (introduction of oil paints) and techniques (chiaroscuro and tenebrism) as part of	6 hours

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8	Early Modernism	Trace the changes in art through the following eras: Enlightenment, Neoclassical, Romanticism, Realism, Impressionism, Post-Impressionism, Symbolism, Expressionism, Cubism Style of each era, the links to socio-political changes that influenced the era, and to describe	6 hours
9	Modernism	Work of Modernists, Dadaists, Abstract artists, Pop Art, Super-realists, and Contemporary Art Develop art vocabulary to include terms such as chromatic abstraction, installation art, conceptual	6 hours
10	Exploring World Art	Artworks from Africa and Asia, including wall paintings, power figures, relic guards, and masks Asian artworks, including Buddhist and Hindu art such as architecture, sculpture, landscapes, ink paintings,	3 hours

L= Lecture, W= Workshop, S= Studio, C= Credit

Suggested Readings:

1. Carlson, Allen. Aesthetics and the environment : the appreciation of nature, art and architecture. Pt.1 : the appreciation of nature. Pt.2 : landscapes, art and architecture.. Routledge (London & New York). 2002.
2. Barlingay, S. S.. Modern introduction to Indian aesthetic theory. D.K. Printworld (P) Ltd (New Delhi), 2007.
3. Gauldie, Sinclair. Architecture : the appreciation of the arts. Oxford Uni. Press (Madras,Singapore etc). 1969.
4. Knobler, Nathan. Visual dialogue : an introduction to the appreciation of art. Holt, Rinehart & Winston (Toronto,New York etc). 1971.
5. Carroll, Noel; Paul K. Moser. Philosophy of art : a contemporary introduction. Routledge (London). 1999.

MS Office/PREZI/PPT/PHOTOSHOP	The student will learn about the word, PowerPoint, excel and other related software Student will learn various aspects, use of software in a professional manner Getting started - The Word/PowerPoint/Excel window, New documents. Document navigation Editing text, Working with text, The Undo and Redo commands, Cut,
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	copy, and paste, Find and replace Text formatting, Character formatting, Tab settings, Paragraph formatting, Paragraph spacing and indents Tables, Creating tables, Working with table content, Changing the table structure Page layout, Headers and footers, Page setup Graphics, Adding graphics and clip art, Working with graphics Proofing, ing, and exporting, Spelling and grammar, AutoCorrect , ing and exporting documents
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Course Outcomes:

At the end of the course, students will be able to –

- Find out about using word, power point, excel and other related software
- Find out about various aspects, use of software in professional manner
- Demonstrate the use MS Office as a holistic software.

Syllabus: 15 weeks (3 hours/week)

Total Teaching hours: 45Hr

Unit No.	Syllabus: Topic	Sub Topic	Teaching hours:
1	Getting started	The Word/power point/Excel window New documents Document navigation	3 hours
2	Editing	Working with text The Undo and Redo commands Cut, copy, and paste Find and replace	6 hours
3	Text formatting	Character formatting Tab settings Paragraph formatting Paragraph spacing and indents	9 hours
4	Tables	Creating tables Working with table content Changing the table structure	6 hours
5	Page layout	Headers and footers Page setup	9 hours
6	Graphics	Adding graphics and clip art Working with graphics	5 hours

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7	Proofing, printing, and exporting	Spelling and grammar AutoCorrect Printing and exporting documents	5 hours
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Traditional arts and crafts	<p>Students will be learning about the field of Art and Craft from a traditional point of view, Students will learn the culture and heritage of vernacular arts and craft</p> <p>The student will be able to interpret a work of art and craft</p> <p>Overview of the theories prevalent in Traditional Arts and Craft, To Identify, map, document and analyze Traditional &amp; Vernacular Building (TVB) and Space Making Crafts (SMCs) &amp; Space Surface Crafts (SSCs). And to conduct research and analysis of craftspeople, craft communities and clusters related to the building sector. The chronological history of Traditional Art and Craft (India and Abroad). Application of selected Arts and crafts in a different industry. Develop an understanding of the field through hands-on workshops. Exposure to other cultures have greatly influenced the traditions and culture of the different region</p>
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