

Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 by COA

B. ARCH (2021-26)

ARCH 101: Basic Design & Visual Arts

						EXAM	IINATION	SCHEME				TEACHIN HEME/W		
						THEORY		STU	DIO	SSS	L	T	s	
Course Core	Course Area	Course Typology	Course Code	Course Name	End Sem Univer sity Exam (50% OR 40%)	Two Term Exam (20%)	Teache rs Assess ment* (30% OR 20%)	End Sem Universit y Exam (50%OR 10%)	Teachers Assessm ent* (50%OR 10%)	TOTAL MARKS				CREDITS
PC	AR	STUDIO	ARCH 101	BASIC DESIGN AND VISUAL ARTS				200	200	400			8	8

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit;

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1ST YEAR / I Semester

ARCH 101: Basic Design & Visual Arts

Course Educational Objectives (CEOs):

- To introduce the students to the fundamentals and principles of basic design to enable them, to comprehend Design as a creative process of choice-making and statement of intent. to undertake design by application of basic design principles.
- Understanding the human body in space Activities and their relationship with spaces Scales and proportions
- To impart a good foundation in design through hands-on experience in designing simple two-dimensional and three-dimensional compositions.

Course outcomes (COs):

- Students will develop their basic skills & abilities of design expression.,
- Students will learn visual literacy and visual expression, elements and the principle of design, and the skill of rendering using a different medium. acquire the various skills to work with various material
- Freehand: Memory left-brain creativity, Objects taking things apart/reassembly

Interpret visual literacy and visual expression; elements and principles of At the end of the course, students will be able to:

Develop the basic skills & abilities to design

Interpret basic vocabulary of design and architecture; Identify and map

human activity in space

Infer, represent and communicate design; Construct representation and cognitive skills

Expected skills/knowledge transferred:

To impart an understanding of principles of composition, and appreciate design and elements. Exercises complement the lectures and ensure that the

students learn to develop

The Course prepares the ground for the students to gain an understanding of

the fundamental issues in the design

Students will learn to explore human behaviour & activity through Space, Focus: design language

The student will achieve the capacity to experience space in Time and motion.

The student will learn the basic vocabulary of design

Students will learn the creation &organization of formal elements in works

of art

Course overview

The design provides the framework for understanding design as a new language by sensitizing students to the conceptual, visual, and perceptual issues involved in the design process.

The design provides the framework for understanding design as a new language by sensitizing students to the conceptual, visual, and perceptual issues involved in the design process. and ways of representing it

Course contents:

Unit Syllabus: topic **Subtopic Teaching** hours: Visual arts 40hrs.

Understanding the design field through various exercises

Relationship of basic design to architectural design and design field in general

Analytic reasoning and criteria for judgment of design and developing a vocabulary of the design subject;

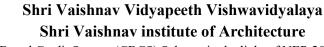
> Representation skill Elements and principles of design: shapes and patterns:

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Chairperson Faculty of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore

Controller of Examination Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore

Joint Registrar Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore



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I	development		Transformations in two dimensions: Concepts of geometry & Color	10 hrs.
			Sketching, 2D & 3D drawings, painting, graphic Model-making skills	
	Cognitive development	skill	Exploration of various materials for drawing and models Developing cognitive skills: observation, perception, registration, expression, and critical thinking Design field application	
			Improving basic design for architectural design and the design field in general Complex observations, design, and expressive ability.	
			The abstract composition serves as the foundation for the development of ideas. Perception, observation, registration, and expression Critical thinking and cognitive skill application in design	
	Lateral Thinking		Brainstorming Mental Associations - Role of experience and memory in design Matric of ideas	
	Representation communication design.	and of	Use of graphic language and representational techniques for communication of design	
П	Elements of design	1	The visual components of colour, form, line, shape, space, texture, and value Compositions using elements of design	20hrs.
	Principles of design	n	The design principles - Balance, emphasis, movement, proportion, rhythm, unity, and variety Compositions using principles of design	
	Abstraction Simplification	and	Complex observations, perception, design, and expression Progressive evolution; Simplification/abstraction of an object using basic principles and elements of design; Use of foreground-background / contrast/colour; Design attributes	
III	Design vocabulary		Analytical reasoning and design decisions Criteria for judgment of design and developing a vocabulary of	10hrs
	Skill development		design subject 3D Exploration ;Complex geometrical form ;Expression of Graphics, geometry, solids, assembly & intersections ;Exploration of material and advanced presentation techniques ;Descriptive and analytical skills	
	Volumetric & Spexploration	patial	Understanding of scale and proportion Spatial perception; Volumetric exploration; Ordering principles Spatial vocabulary; Relation of basic design to architectural design	
Design				80hrs
dimensions	Concepts of geor	netry:	re: Elements of Composition. (2D, 3D, 4D) Transformations in Form and Space: Mapping of Space(s). (Ideograms)	
-	_		gonomics; Exploration of design principles through case studies	
IV	Introductory exer based on 'Learnin		To develop representation and communication skills through exercises involving drawing, sketching, graphic language,	40hrs

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doing'

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model-making, collage, etc.

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Undertake exercises to enhance creative thinking

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studio-based iterative design process

To develop a small-scale design project for comprehension of 40hrs design criteria involving the following:

Understanding human activity and behaviour in space by activity mapping, anthropometric studies, etc.

To make, explore, feel and mould space based on design ideas/principles Undertake hands-on work and creative thinking. Explore 'making' through various mediums and techniques of representation.

Introduction to visualization and representation of an architectural environment's spatial qualities like spatial enclosure, depth, height, view, orientation, etc. and tectonic characteristics like surfaces, material, shape, texture, etc.

Sessional work:

Minimum 6 tasks based on elements and principles of composition on sheets and/or models. Design

Minimum one simple spatial design exercise such as a seating area in a public space, bus shelter, kiosks, play area, entrance gate, etc. Demonstrating the application of the design principles and communicating effectively through two and three-dimensional hand-done drawings, sketches,

and models.

Visual arts Minimum 6 tasks based on the composition of sheets and/or models. Minimum one simple

> spatial design exercise demonstrating the application of the design principles and communicated effectively through two and three-dimensional hand-done drawings, sketches,

and models.

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 supplemented with appropriate site

Sketching techniques: sketching as a tool to develop ideas, sketching as a tool to communicate

ideas, collages & montages, model making (paper, thermocol, cardboard, clay, wood, etc.)

The tasks or assignments /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

Evaluation is to be done through viva voice by an external examiner appointed by the university Note:

at the institute. Portfolios, after the university exam, shall be retained at the institute level for

the viva--voice.

Suggested readings:

Guidelines

Aldo Tanchis and Huw Evans. Bruno Munari, Design as Art. Cambridge: MIT Press, 1987

Anja Hartmann; Unusual Architectural Presentation Drawings; Page One Publishers, 2007.

Arthur L Guptill, Drawing and Sketching in Pencil; Courier Corporation 2012.

Arthur L Guptill, Drawing with Pen and Ink: And a word about the brush; Literary Licensing, LLLC, 2013.

Berger, John. Ways of Seeing. New York, Viking Press, 1972

Bovill, Carl. Fractal Geometry in Architecture and Design. Boston: Birkhäuser, 1996.

Charles Wallschlacgerm & Cynthia Busic-Snyder, Basic Visual Concepts, and Principles for Artists, Architects, and Designers, Mc Graw Hill, New York 1992.

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 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 Inouye, and Douglas Zuberbuhler. Building Structures Illustrated.

Colquhoun, Alan. Essays in Architectural Criticism: Modern Architecture and Historical Change. Cambridge, MA: MIT, 1981.

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,

Curtis, Nathaniel Cortlandt. Architectural Composition. Cleveland, O.: J.H. Jansen, 1923.

Dodds, George, Robert Tavernor, and Joseph Rykwert. Body and Building: Essays on the Changing Relation of Body and Architecture. Cambridge, MA: MIT. 2002.

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Field, M. City Architecture; Designs for Dwelling Houses, Stores, Hotels, Etc. In 20 Plates. Descriptions and an Essay on the Principles of Design. New York: D. Appleton, 1854.

Frampton, Kenneth, Arthur Spector, and Lynne Reed. Rosman. Technology, Place & Architecture: The Jerusalem Seminar in Architecture: 1996, 1994, Architecture, History &

Frank Lohan; Pen and Ink Techniques; Contemporary books, 1978.

Gombrich, E H. The Story of Art. New York: Phaidon Publishers; distributed by Oxford University Press, 1966

H. Gardner, Art through ages.

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.

International Library of Technology; Elements of Pen and Ink Rendering, Rendering with Pen and Brush, BiblioBazaar, 2010.

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.

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

Lidwell, William; Kritina Holden; Jill Butler (2010). Universal Principles of Design (2nd ed.) Beverly, Massachusetts: Rockport Publishers.

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

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

Mike W Lin, Architectural Rendering Techniques: A Color Reference; John Wiley and Sons, 1985.

Owen Cappleman & Michael Jack Jordon, Foundations in Architecture: An Annotated Anthology of Beginning Design Project, Van Nostrand Reinhold New York, 1993.

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

Park, Steven, and Le Corbusier. Le Corbusier Redrawn: The Houses

Paul Laseau, Graphic Thinking for Architects and Designers, John Wiley & Sons, New York, 2001.

Paul Zelanski & Mary Pat Fisher, Design Principles & Problems, 2nd Ed, Thomson & Wadsworth, USA,1996

Pipes, Alan. Drawing on 3-Dimensional Design. Thames and Hudson Ltd., London 1990.

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.

Robert W. Gill, Rendering with Pen and Ink

Shibikawa, Ikuyoshi and Takahashi, Yumi. Designers Guide to Colour.

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

Sullivan, Louis H., and Maurice English. The Testament of Stone; Themes of Idealism and Indignation from the Writings of Louis Sullivan. Evanston, IL: Northwestern UP, 1963.

Tibor K Karsai, The Airbrush in Architectural Illustration; Van Nostrand Reinhold, 1989.

Trewin Copplestone, Arts in Society, Prentice Hall Inc, Englewood Cliffs, N. J. 1983.

White, Alex (2011). The Elements of Graphic Design. New York, NY: Allworth Press.

Whyte, William Hollingsworth. The Social Life of Small Urban Spaces. Washington, D.C.: Conservation Foundation, 1980.

William Wilson Atkin; Architectural Presentation Techniques; Van Nostrand Reinhold Co., 1976. ISBN 0442203616, 9780442203610 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.

Yee, Rendow. Architectural Drawing: A Visual Compendium of Types and Methods. Hoboken, NJ: J. Wiley, 2003



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ARCH 103: Building Material & Construction - I

						EXAM	IINATION S	СНЕМЕ				ACHI EME/V		
						THEORY		STU	DIO	MARKS	L	T	s	
Cou rse Core	Course Area	Course Typology	Course Code	Course Name	End Sem Universit y Exam (50%OR 40%)	Two Term Exam (20%)	Teachers Assessm ent* (30%OR 20%)	End Sem Universit y Exam (50%OR 10%)	Teachers Assessm ent* (50%OR 10%)	TOTAL MA				CREDITS
BS& AE	TE	THEORY CUM STUDIO	ARCH 103	BUILDING MATERIAL & CONSTRUCTION - I	60	30	30	15	15	150	1		2	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit;

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ARCH 103: Building Material & Construction – I

Course Educational Objectives (CEOs):

To understand the elementary construction methods, explain basic principles and considerations in the construction of buildings

Course outcomes (COs):

- Basic materials of construction: natural and man-made
- Basic building elements and systems of building through case studies.
- Understanding of constructional behaviour of different elements of a construction system, about the properties of materials.
- Keywords, Terms & definitions.
 - The concern with the appropriateness of materials to the context
 - Load-bearingng system

At the end of the course, students will be

able to

Explain the properties of building construction materials and their use in

building construction.

Give an outline of building construction systems and the use of related

building elements therein.

Name building elements and basic building construction processes.

Expected skills/knowledge transferred:

To understand the techniques of construction of a simple load-bearing structure with simple materials like brick, stone, etc. Knowledge required for specifying appropriate materials for various spaces in buildings

FOCUS: Building Materials and Load

Bearing Const. Systems

Students will get an understanding of the materials of construction, basic principles of construction, and elements of buildings through theory,

relevant drawing & experience.

Students will get an understanding of materials and building systems in a

broad overview.

Students will learn vocabulary related to building elements and

construction.

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Course Overview:

This course is a combination of lecture & studio classes aimed at developing the student's understanding of material properties and construction techniques with hands-on construction yard assignments to introduce the methods and techniques of construction of basic elements of a simple building and provide information on the properties, use, installation and costs of basic building materials.

Course contents:

Unit	Syllabus: topic	Subtopic	Teaching hours:
		ildings and their importance: Structural concepts. Load bearing	
	•	ion details; Earthquake resistance; Types - walls, piers, footings,	
retaining s	tructures;		
I	Introduction to	Introduction to building construction materials and their	12 hrs.
	Building Construction	classification based on their properties: ceramic, metals,	
	Materials	composites, polymers, and organic materials.	
		Relationship of material properties to techniques and processes	
		of working with materials.	
II	Introduction to	Introduction to basic building elements and their role in a	12 hrs.
	elements of Super	building: foundation, plinth, walls, opening, roof, floor, etc.	



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Structure and Sub-Structure

Introduction to building construction system and its elements e.g.: - Load Bearing, Framed and Composite structures. Explanation through case studies, measure drawing, etc.

Introduction Ш to masonry structures

Introduction to different types of Masonry Understanding principles of Brick and Stone Masonry:

Composition of brick earth and their properties, the manufacturing process of bricks, classification of bricks, test for bricks, a special type of bricks, substitutes for bricks, etc.

Bonds, principles, and applications in buildings.

Brick walls IV

Brick Masonry: Brick: Brick bonds: walls, Garden wall bonding:

Brick walls in the different bond ends, corners and junctions. Types of Masonry walls: load-bearing, partition, cavity, jali,

Composite masonry, etc.

Mud and Stone construction

Stonemasonry: Stone: Rubble work

Introduction to Mud and Stone construction and techniques of

building with mud and stone.

Demonstration of understanding by making models, drawings, hands-on work, etc.

Composite masonry: Cladding:

Openings: Lintels: Arches:

Ground and upper floors: Flooring Finishes: Flat roofs

Sessional work:

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

the studio working on sheets a minimum of 12 to 15 Nos A-1 Sheets

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

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

Biggs, John M. Introduction to Structural Dynamics. New Delhi: McGraw Hill Education India Pvt Ltd, 2014

Bindra, S.P., And Arora, S.P. Building Construction: Planning Techniques and Methods of Construction, 19th ed. Dhanpat Rai Pub. New Delhi, 2000.

Charleson, Andrew. The structure of 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

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

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

Chudley, R. Construction Technology.

Cohen, Jean-Louis. Liquid Stone: New Architecture in Concrete. Boston: Birkhauser, 2006

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

Dr B.C. Punmia – Building Construction

Francis D.K. Ching - Building Construction Illustrated. VNR, 1975.

Gambhir, M. L. Building Materials: Products, Properties, and Systems. New Delhi: Tata McGraw Hill Education Private Limited,

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

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

HUDCO - All you wanted to know about soil stabilized mud blocks, New Delhi, 1989.

Inouye, Barry S. Statics and Strength of Materials For Architecture And Building Construction. Chennai: Pearson India Education Services Pvt Ltd., 2015;

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

Kotadiya A. S. Building Construction.: Mahajan Publishing, 2014

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7 hrs.

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Kula, Daniel. Materiology: The Creative's Guide to Materials and Technologies. USA: Frame Publishers; 2009

Kumar, Sushil. Building Construction. New Delhi: Standard Publishers Distributors, 2012;

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

Lyons. Materials for Architects & builders. New York: Taylor & Francis, 2014

McKay, J. K. Building Construction Vol - 2-4: Metric. Delhi: Pearson Education Pte. Ltd., 2013

Mckay, W. B. Building Construction Vol - 1: Metric. New Delhi: Pearson Education Asia Pvt. Ltd.; India, 2013

Millias, Malcolm. Building structures from concept to design. London: Spon Press, 2005

Moxley, R. Mitchell's Elementary Building Construction, Technical Press Ltd.

Muttoni, Aurelio. Art of Structures: Introduction to the Functioning of Structures in Architecture. UK: Taylor & Francis, 2011

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

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

Patel, Nimish. Stone Buildings of Gujarat. Ahmedabad: CEPT University, 2010

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

Rangwala, S. C. Engineering Materials: Material Science. Anand: Charotar Publishing House, 2014

Rangwala, S.C. Building Construction, 22nd ed. Charotar Pub. House, Anand, 2004.

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

Sandaker, Bjorn N. Structural Basis of Architecture. UK: Taylor & Francis, 2011;

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

Shah, M. G. Building Drawing: With an Integrated Approach to Built Environment. New Delhi: McGraw-Hill Publishing Company Ltd., 2013

Sherratt, Fred. Materials science in construction: an introduction. London: Taylor & Francis, 2015;

Singh, Gurcharan. Building Material and Constructions. Delhi: Standard Book House, 2012; use of Bamboo and a Reed in Construction – UNO Publications;

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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B. ARCH (2021-26)

ARCH 104: Architectural Graphics & Drawing - I

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PC	sĸ	STUDIO	ARCH 104	ARCHITECTURAL GRAPHICS & DRAWING -I				75	75	150			3	3

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ARCH 104: Architectural Graphics & Drawing – I

Course Educational Objectives (CEOs):

To introduce architectural drawing techniques and facilitate effective visual communication. The students will develop knowledge of orthographic projections, measured drawing, and skills in FreeHand sketching

Course outcomes (COs):

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

Make use of Orthographic Projection Drawing as a representation

tool & medium of effective visual communication.

Appraise skills in visualization

Maximize the potential of two-dimensional drawing as a tool for

design development and representation.

Expected Skills Knowledge Transferred:

Make use of Architectural Drawing as a representation tool & medium of effective visual communication.

Focus: Students will learn the basic

Students will learn to Scale drawings and conventional

drafting and visualization skills (manual)

architectural representations in drawings and graphics.

Students will develop the understanding & skills of technical

drawing as a tool for visual communication. Students will learn basic drafting and visualization skills

Course Overview:

The course introduces the fundamental techniques of architectural drawing and develops the appropriate skills for visualization and representation.

Course Contents:

Unit.	Syllabus: Topic	Subtopic	Teaching Hours:
Introduction; Dr	awing:		
I	Geometrical Construction	Basic and analytical geometry – Geometric Constructions Geometrical Drawing: Architectural Symbols: Measuring and Drawing to Scale: Constructing and dividing lines and angles; Constructing and dividing circles and arcs; Constructing Regular Polygons; Description of Plane Curves; Architectural Symbols:	8 hrs.
П	Orthographic Projection, Auxiliary Projection, and Isometric views	Orthographic projection and auxiliary projection; Axonometric views, isometric views, and other views.; Projections of Points, Lines, and Planes; Projections of solids (Prisms & Pyramids); Tilted Objects; Sections of Solids; Interpenetrations of Solids (Basic).; Description of Plane Curves; Solid Geometry: Sections of solid	18 hrs.
III	Development of Surfaces	Introduction of D.O.S; Regular Polygons and Platonic Solids; D.O.S of hip roof & Gable roofs; D.O.S of sectioned objects;	8 hrs.
IV	Allied Techniques (Part 1 of 2)	Visualization Software (Sketch-UP, Rhino, or equivalents); Model Making; Various freehand sketching exercises to strengthen visualization and	8 hrs.



Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 by COA

B. ARCH (2021-26)

ARCH 104: Architectural Graphics & Drawing - I

						EXAN	IINATION S	снеме				ACHI EME/W		
						THEORY		STU	DIO	MARKS	L	T	s	
Cou rse Core	Course Area	Course Typology	Course Code	Course Name	End Sem Universit y Exam (50%OR 40%)	Two Term Exam (20%)	Teachers Assessm ent* (30%OR 20%)	End Sem Universit y Exam (50%OR 10%)	Teachers Assessm ent* (50%OR 10%)	TOTAL MA				CREDITS
PC	sĸ	STUDIO	ARCH 104	ARCHITECTURAL GRAPHICS & DRAWING -I				75	75	150			3	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit;

Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

representation.;.

FreeHand Drawings FreeHand Drawings: line strokes, light and shade techniques of simple, natural, and 3D geometric forms. Study of proportions and scale; structure and axes of objects; Outdoor sketching of simple building

Sessional work:

V

Guidelines Assignments / 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 - a week time in advance OF

the 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 the 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 approaches the built environment, 7th Ed. Tata McGraw Hill Pub., Delhi, 2000.

Bhatt, N.D. and Panchal V.M. Engineering Drawing: Plane and Solid Geometry, 42nd ed. Charotar Pub., Anand, 2000.

Bies, D. John. Architectural Drafting: Structure and Environment. Bobbs – Merrill Educational Pub., Indianapolis.

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 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.

Council Jensen. Engineering Drawing & Design. McGraw-Hill

Dana J. Hepler, Paul Ross Wallach, Donald Hepler., Drafting & Design Architecture & Construction. Delmar Cengage Learning

Dhananjay jolhey. Engineering Drawing. Tata Mcgraw Hill

Douglas Cooper., Drawing and Perceiving. WILEY

George Barnett Johnston., Drafting Culture. The MIT Press

Gill, P.S. T.B. of Geometrical Drawing, 3rd Ed. Dewan Sushil Kumar Kataria, Ludhiana, 1986.

Helmut Pottmann. Architectural geometry. Bentley Institute Press

I.H. Morris, Geometrical Drawing for Art Students, Orient Longman Chennai.

M.S.Kumar, Engineering Drawing, DD publications, Chennai 600 048

Morris, I.H. Geometrical Drawing for Art Students.

ND Bhatt. Engineering Drawing. Charotar Publishing House

Nelson, A. John. H.B. of Architectural and Civil Drafting, Van Nostrand Reinhold, New York, 1983.

Nichols, T.B. and Keep, Norman. The geometry of Construction, 3rd ed. Cleaver – Hume Press Ltd., London, 1959.

Rayeuans, Drawing, and Painting Architecture Pub. Van Nostrand Reinhold Company, New York

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.

Thomas Obermeyer., Architectural Drafting Residencial & Commercial. Glencoe/McGraw-Hill

Thoms, E. French. Graphic Science and Design, New York: McGraw Hill.

Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 by COA

B. ARCH (2021-26)

ARCH 105: History of Architecture & Culture- I

						EXAN	IINATION S	СНЕМЕ				ACHI ME/V		
						THEORY		STU	DIO	MARKS	L	т	s	
Cou rse Core	Course Area	Course Typology	Course Code	Course Name	End Sem Universit y Exam (50%OR 40%)	Two Term Exam (20%)	Teachers Assessm ent* (30%OR 20%)	End Sem Universit y Exam (50%OR 10%)	Teachers Assessm ent* (50%OR 10%)	TOTAL MA				CREDITS
PC	AR	THEORY	ARCH 105	HISTORY OF ARCHITECTURE & CULTURE- I	50	20	30			100	2			2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit;

Teacher Assessment shall be based following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.

ARCH 105: History of Architecture & Culture- I

Course Educational Objectives (CEOs):

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

Course outcomes (COs):

At the end of the course, students

Expected Skills / Knowledge

will be able to

Outline the prehistory and timeline of human evolution

Discover various cultural expressions

Compare Indian history and its cultural values

Develop an understanding of the relationship between people and place Acquire knowledge to identify the common characteristics among the monuments of a particular style and good practices of architecture in the

Acquire graphic skills to present a building, analyze its elements and

explain the composition.

The student will learn an appreciation of various cultural expressions Focus: Humanities

through instruction and experience

The students will develop an appreciation of the rigorous thought

processes in the field of science

Course Overview:

Transferred:

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

Course	Contents:
∐nit	Syllabus:

Unit	Syllabus:	Subtopic	Teaching Hours:
Detailed	Topic study & analysis o	of architectural design fundamentals through significant e.g., in the light	nours:
	•	riods mentioned in the modules. Teaching & learning through reading,	
	ns, debate & critic		
I	Historical	• The history of the earth	6 hrs.
	timeline of	• Human evolution – stages and timeline	
	human	Paleolithic and Neolithic society	
	evolution	 Journey towards modern man and civility 	
		Philosophical explorations into man's place in the world, ethics,	
		aesthetics, and epistemology as systems of the relationship between	
		man, society, artefacts, and thought. The discipline of history and the	
		continuous observation and criticism of society	
TT	C 1, 1	Critical thinking – its basis and intent	
II	Culture and	,	8 hrs.
	society	Elements of culture	
		Symbols and culture	
		Understanding art as an expression of culture. Exposition of aspects	
		of literature, performing arts - theatre, dance, music and plastic arts;	
		painting, sculpture, film, in terms of basic characteristics and	
		development of each field and first-hand experience of some work.	
III	Indian culture	History of India	6 hrs.
		Unity and diversity	

Chairperson Board of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya,Indore

Chairperson Faculty of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore

Cultural values and identity

Controller of Examination Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore

Joint Registrar Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore



Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 by COA

B. ARCH (2021-26)

ARCH 105: History of Architecture & Culture-I

						EXAM	IINATION S	СНЕМЕ				ACHE ME/V		
						THEORY		STU	DIO	MARKS	L	T	s	
Cou rse Core	Course Area	Course Typology	Course Code	Course Name	End Sem Universit y Exam (50%OR 40%)	Two Term Exam (20%)	Teachers Assessm ent* (30%OR 20%)	End Sem Universit y Exam (50%OR 10%)	Teachers Assessm ent* (50%OR 10%)	TOTAL MA				CREDITS
PC	AR	THEORY	ARCH 105	HISTORY OF ARCHITECTURE & CULTURE- I	50	20	30			100	2			2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit;

Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

The genesis of seed ideas & concepts; Timeline; Socio-political background, key people involved; Climatic & geographic influence;

General settlement pattern; Cities & its civic places;

IV People and Culture and shelter (Indian context) places Culture, people and place – the role

10 hrs.

Culture, people and place – the role of culture in place-making Construction technology & material; Design principles; Typology; Evolution; Spatial organization; Form & Detailing. The examples, to represent the following historical styles are suggestive & students are encouraged to explore additional e.g., for a comprehensive

understanding of the respective styles

Sessional work:

Note:

Guidelines Assignments / 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 - a week time in advance OF

the commencement of the classes

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

assignments, and sketches.

Suggested Readings:

Arnold, Dana. Art History: A Very Short Introduction. New York: Oxford UP, 2004.;

Bronowski, Jacob. The Ascent of Man. Boston: Little, Brown, 1974.;

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

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

Giddens, Anthony., Introduction to Sociology. New York: W.W. Norton, 1996.

Heidegger, Martin, and Ralph Manheim. An Introduction to Metaphysics. New Haven: Yale UP, 1959.

Johnson, Harry Morton. Sociology: A Systematic Introduction. New York: Harcourt, Brace, 1960.

Lannoy, Richard. The Speaking Tree: A Study of Indian Culture and Society. London: Oxford UP, 1971.;

Majumdar, Ramesh Chandra. The History and Culture of the Indian People. Mumbai: Bharatiya Vidya Bhavan, 1996.

Oliver, Paul. Encyclopedia of Vernacular Architecture of the World. Cambridge: Cambridge UP, 1997.

Patrick Nuttgens, The Story Of Architecture;

Pearce, F. G. An Outline History of Civilization. Bombay: Oxford U.P., 1965.;

Rudofsky, Bernard. Architecture without Architects, an Introduction to nonpedigreed Architecture. New York: Museum of Modern Art; Distributed by Doubleday, Garden City, N.Y., 1964.;

Schulz, Christian Norberg. Meaning in Western Architecture, 2nd Ed. Rizzoli Intl. Pub., New York, 1981.;

Siegfried Gideon, Space, Time And Architecture;

Soergel, Philip M. Arts & Humanities Through the Eras. Detroit: Thomson Gale, 2005.;

Stallabrass, Julian, and Julian Stallabrass. Contemporary Art: A Very Short Introduction. Oxford: Oxford UP, 2006.;

Toynbee, Arnold. Mankind and Mother Earth: A Narrative History of the World. New York: Oxford UP, 1976.;

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



Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 by COA

B. ARCH (2021-26)

ARCH 107: Theory of Structures -I

						EXAM	IINATION S	СНЕМЕ				ACHI EME/V		
					Y	THEORY	r 1	STU	DIO	RKS	L	T	s	
Cou rse Core	Course Area	Course Typology	Course Code	Course Name	End Sem Universit y Exam (50%OR 40%)	Two Term Exam (20%)	Teachers Assessm ent* (30%OR 20%)	End Sem Universit y Exam (50%OR 10%)	Teachers Assessm ent* (50%OR 10%)	TOTAL MA				CREDITS
BS &A E	TE	THEORY	ARCH 107	THEORY OF STRUCTURES -I	50	20	30			100	2			2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit;

Teacher Assessment shall be based following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.

ARCH 107: Theory of Structures -I

Course Educational Objectives (CEOs):

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

Course outcomes (COs):

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

Explain conceptual understanding of structural behaviour

Relate basic structural systems.

Apply technical vocabulary related to structural design

Expected Skills Knowledge Transferred: The students shall be confident about the structural action of the various

elements.

Further, he will have sufficient knowledge about the various long-span

structures.

Students will get a conceptual understanding of structural behaviour to

learn basic structural systems.

Focus: Civil The student will understand the technical vocabulary related to structure.

Course Overview:

To inculcate in the student an awareness of basic structural principles used in various building systems Students will understand the structural behaviour of materials, basic structural systems Students will understand the loading mechanism of structural systems Basic principles of mechanics and behaviour of elements of structures.

Course Contents:

Unit	Syllabus:	Subtopic	Teaching
	Topic	•	Hours:
I	Process of the	Structure and Structural form	6hrs
	building	Structure and its importance in Architecture	
	structure	Introduction: Structural Concepts: Force, the equilibrium of forces; a	
		system of forces, resultant, equilibrant Parallelogram law, LOADS OF	
		STRUCTURE: STRUCTURAL MATERIALS	
II	The broad	Structural form - solid, Surface, skeleton, Membrane, hybrid	6hrs
	categorization	Structural form - in Nature	
		Structural form - man-made	
	system	Different methods of categorization of the structural system	
		Mechanical properties of structural material	
		Structural systems based on the mechanism of transfer of load	
		Analysis of trusses, Problem of Span, Stress, Strain	
		Tension And Compression Members	
		Concepts of various structural systems – Cables – Trusses – Arches –	
		Cable Roofs – Space Frames – Flat Slabs.	
		Types of Beams, Cantilever: Types of loads	
		Curved Structures and Long-Span Buildings	
		Theory of Vaults and Domes - Construction of Masonry Vaults and	
		Domes – Concepts of Reinforced Concrete Shells, Domes and Vaults –	
		Folded Plate Roofs – tensile structures.	
Ш	States of	Tensile, compressive, shear, torsion, bending	6hrs
	stresses		



Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 by COA

B. ARCH (2021-26)

ARCH 107: Theory of Structures -I

						EXAN	IINATION S	СНЕМЕ			TE SCHI	ACHI ME/W		
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Cou rse Core	Course Area	Course Typology	Course Code	Course Name	End Sem Universit y Exam (50%OR 40%)	Two Term Exam (20%)	Teachers Assessm ent* (30%OR 20%)	End Sem Universit y Exam (50%OR 10%)	Teachers Assessm ent* (50%OR 10%)	TOTAL MA				CREDITS
BS &A E	TE	THEORY	ARCH 107	THEORY OF STRUCTURES -I	50	20	30			100	2			2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit;

Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

IV Basic Structural material: strength, stiffness, shape requirements of a structure settlement and earthquake behaviour

V Types of Structural Elements: Strut, tie, beam, slab/plate, panel fohrs loads & Structural Element behaviour: Tensile, compressive, shear, torsion, supports bending

Definition of the centroid, a line of symmetry, the centroid for some standard shapes, calculation of centroid for shapes like L, T, C, I Sections, etc., a moment of inertia, Derivation of M.I formula for Rectangle, Circle, Triangle, calculation of M.I for L, T, C, I Sections,

Types of joints, lap joint & butt joint, failure of riveted joints, the strength of the joint, efficiency of the joint, Unwin's formula, chain riveting & Diamond Riveting

Sessional work:

Note:

Guidelines Assignments /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 - a week time

in advance OF the commencement of the classes

Assignments

Site Studies and Visual aspects. Numerical and understanding of structural

concepts

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

The teaching in this subject must bring out:

The predominant pictorial nature of the Architect's language is the physical-

mechanical essence of the subject matter.

The orientation of all Architectural efforts and their relation to form and space.

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 sketches.

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

Suggested Readings::

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

Anderson, Stanford, and Eladio Dieste. Eladio Dieste: Innovation in Structural Art. New York: Princeton Architectural, 2004. James Ambrose, Building Structure, Canada Wiley, 2012

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.

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, and Söffker. Constructing Architecture: Materials, Processes, Structures. Basel: Birkhäuser Verlag, 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.

Hunt, Tony. Tony Hunt's Structures Notebook. Oxford: Architectural, 2003.

James Ambrose, Building Structure, Canada Wiley, 2012

Kara, Hanif. Design Engineering: AKT Adams Kara Taylor. Barcelona: Actar, 2008.

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



Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 by COA $\,$

B. ARCH (2021-26)

ARCH 107: Theory of Structures -I

						EXAN	MINATION S	снеме				ACHI ME/W		
						THEORY		STU	DIO	RKS	L	T	s	
Cou rse Core	Course Area	Course Typology	Course Code	Course Name	End Sem Universit y Exam (50%OR 40%)	Two Term Exam (20%)	Teachers Assessm ent* (30%OR 20%)	End Sem Universit y Exam (50%OR 10%)	Teachers Assessm ent* (50%OR 10%)	TOTAL MA				CREDITS
BS &A E	TE	THEORY	ARCH 107	THEORY OF STRUCTURES -I	50	20	30			100	2			2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit;

Teacher Assessment shall be based following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.

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.

Millias, Malcolm, Building structures from concept to design, London, Spon Press, 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.

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

Onouye, Barry S., Statics And Strength Of Materials For Architecture And Building Construction, Chennai, Pearson India Education Services Pvt Ltd., 2015

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

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

Rosenthal, Hans Werner., and Hans Werner. Rosenthal. 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.

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. Structure in Architecture. Englewood Cliffs, NJ: Prentice-Hall, 1963.

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, London, Palgrave, 2014



Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 by COA

B. ARCH (2021-26)

ARCH 108: Workshop -I

						EXAN	IINATION S	снеме				ACHI ME/V		
						THEORY	50	STU	DIO	MARKS	- L	T	s	
Cou rse Core	Course Area	Course Typology	Course Code	Course Name	End Sem Universit y Exam (50%OR 40%)	Two Term Exam (20%)	Teachers Assessm ent* (30%OR 20%)	End Sem Universit y Exam (50%OR 10%)	Teachers Assessm ent* (50%OR 10%)	TOTAL MA				CREDITS
PC	sĸ	STUDIO	ARCH 108	WORKSHOP- I				50	50	100			2	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit;

Teacher Assessment shall be based following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.

ARCH 108: Workshop -I

Course Educational Objectives (CEOs):

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

Course outcomes (COs):

At the end of the course, students

The student will learn different methods and techniques to represent

will be able to

an idea & thoughts The student will have various representation techniques at her

The student will be able to represent a design idea 3 dimensionally

Use of presentation software

Expected Skills Knowledge

Transferred:

Dexterity; Knowledge of materials and their properties; craft skills;

visualization skills;

Focus: Manual Skills

The student will learn different methods and techniques to represent an idea & thoughts

The student will have various representation techniques at her

disposal

The student will be able to represent a design idea 3 dimensionally

Use of presentation software

Course Overview:

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

Course Contents:

Unit	Syllabus: Topic	Subtopic	Teaching Hours:
I	Sketching:	Sketching is a tool for developing ideas, communicating ideas	4hrs
II	Craft:	Collages & Montages, Form Work	4 hrs.
III	Model Making	Model Making (Paper, Pharmacol, Cardboard, Clay, Wood, Etc.) Understanding various basic tools used for carpentry joinery and fabrication. Understanding various building materials and their tools used for cutting, joining and extension. Handling materials like wood, marble, steel, MS, plywood, POP, Aluminum, etc. Understanding nailing, screwing, riveting and their various conditions and types of applications.	10 hrs.
IV		Expression of forms- By handling various materials. of Presentation Software (MS Office, Prezi & Others)	4 hrs.
	Computers:		
\mathbf{V}	Photography:	inbuilt models, using lighting and natural background	4 hrs.
	Vocabulary development /reinforcement	 Introduction to Architectural Keywords Meanings to Architectural Keywords Making Sense of Architectural Keywords through the Masters' Works 	4 hrs.



Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 by COA

B. ARCH (2021-26)

ARCH 108: Workshop -I

						EXAM	IINATION S	СНЕМЕ				ACHI EME/W		
						THEORY	e .	STU	DIO	RKS	L	T	s	
Cou rse Core	Course Area	Course Typology	Course Code	Course Name	End Sem Universit y Exam (50%OR 40%)	Two Term Exam (20%)	Teachers Assessm ent* (30%OR 20%)	End Sem Universit y Exam (50%OR 10%)	Teachers Assessm ent* (50%OR 10%)	TOTAL MA				CREDITS
PC	sĸ	STUDIO	ARCH 108	WORKSHOP- I				50	50	100			2	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit;

Teacher Assessment shall be based following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.

Sessional work:

Guidelines Assignments / 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 - a week time in advance OF

the commencement of the classes

Continuous Evaluation shall be made of students' work based on various

models, sketch assignments, and market surveys.

One Major And the rest minor tasks are to be set from the entire syllabus

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.

Evaluation is to be done through viva voce by an external examiner appointed by

the university at the Institute. Portfolios, after the university exam, shall be retained

at the Institute level for the viva-voice

Suggested Readings::

Note:

Bernald, S and Copplene, Myers. History of Art.

Catherine Norman, Ryland Peters & Small, Paper Scissor Glue

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.

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.

Edward D. Levinson., Architectural Rendering Fundamentals. McGraw-Hill

Eugene Felder & Emmett Elvin, The complete book of drawing techniques, by

Helmut Pottmann., Architectural geometry. Bentley Institute Press Illustrated story of art. DK Publications.

Krier, Rob. The element of Architecture. Academy Editions, London, 1992.

Lorraine Farrelly. Representational Techniques. Fairchild Books AVA

Magnet, Jacque. The Aesthetic Experiences: An anthropologist looks at Visual Art.

Martin Dawber. Contemporary Illustration. Batsford, 2009

Michael E. Doyle. Colour Drawing. Wiley

Phil Metzger. The Art of Perspective: The Ultimate Guide for Artists in Every Medium. North Light Books, 2007

Preble, Duame. Art Forms.

Ray Smith. Artists Handbook. DK Publications.

Richard Poulin., Graphic design +architecture. Rockport Publishers

 $\textbf{Robert W. Gil.,} \ \text{Rendering with pen and ink.,} \ \text{Thames \& Hudson}$

Snyder, C. James, and Catanese, J. Anthony. Introduction to Architecture.

apert, Annette. Swid Powell: Objects by Architects. Rizzoli, New York, 1990.

Thyagarajan. Basic practical photography

Tim Mc Creight & Nicole Bsullak Color on Metal

Wilson William Atkin. Architectural Presentation Techniques. Van Nostrand Reinhold

Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 by COA

B. ARCH (2021-26)

ARCH 109: Building Systems and Services -I Surveying & Levelling

						EXAN	IINATION S	СНЕМЕ			TE SCHE	ACHI ME/V		
						THEORY		STU	DIO	MARKS	L	T	s	
Cou rse Core	Course Area	Course Typology	Course Code	Course Name	End Sem Universit y Exam (50%OR 40%)	Two Term Exam (20%)	Teachers Assessm ent* (30%OR 20%)	End Sem Universit y Exam (50%OR 10%)	Teachers Assessm ent* (50%OR 10%)	TOTAL MA				CREDITS
BS& AE	TE	THEORY	ARCH 109	BUILDING SYSTEMS AND SERVICES-I (SURVEY & LEVELLING)	50	20	30			100	2			2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit;

Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Alen 107. Dunung systems and services -1 surveying & Levening

Course Educational Objectives (CEOs):

To explain the techniques and instruments used in a survey of land tracts

Course outcomes (COs):

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

Interpret the concept, instruments, and methods of surveying and levelling. Make use of concepts and methods of surveying and levelling. Appraise the relevance of surveying and levelling in the

Architectural field

Expected Knowledge

Transferred:

Dexterity; Knowledge of materials and their properties; skills;

visualization skills;

Focus: Manual Skills

The student will learn different methods and techniques to represent an idea & thoughts. The student will have various representation techniques at her disposal. The student will be able to represent a

design idea 3 dimensionally, Use of presentation software

Course Overview:

To explain the different techniques and instruments used in a survey of land tracts

Course Contents:

Unit	Syllabus: Topic	Subtopic	Teaching G Hours:
I	Introduction of surveying	Surveying and Architecture Introduction to surveying: Definition, object, uses, classification of the survey, Formulae are used in the measurement of land with geometrical and abstract configurations to work out Areas, volumes, and other quantities. Principles of surveying, scales, and types of scale, Accuracy & Errors	2 hrs.
II	Linear Measurements	Measurement of distance with chain, tape, EDM, GPS, etc., measurement on sloping ground, obstacles, Errors in measurements; Selection of survey station. Chain line, Offset, oblique offset, tie line, check lines, ranging.: Chain Surveying: errors and corrections, the composition of Areas.; Compass Surveying Field book plotting.	4 hrs.
	Measurements of Angles	Various parts of Compass, Types, ;Errors affecting angular measurements ;Types of the traverse, Orientation of traverse surveys ;Theodolite, Theodolite Traversing: Types of Theodolites, Definitions, temporary adjustment of theodolite, Plane Table Survey:	4 hrs.
III	Levelling Plane table surveying	Definitions, Types of levels, methods of levelling Various parts of a dumpy level. Levelling Levelling staff, technical terms used in levelling. Contouring: Definition, Characteristics of contour, plotting using radial line & square grids Introduction.; Equipment required.; Working with a plain	6hrs 4hrs
		table.; Errors in the plane table.	



Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 by COA

B. ARCH (2021-26)

ARCH 109: Building Systems and Services -I Surveying & Levelling

					EXAMINATION SCHEME						TEACHING SCHEME/WEEK			
						THEORY		STU	рю	MARKS	L	T	s	
Cou rse Core	Course Area	Course Typology	Course Code	Course Name	End Sem Universit y Exam (50%OR 40%)	Two Term Exam (20%)	Teachers Assessm ent* (30%OR 20%)	End Sem Universit y Exam (50%OR 10%)	Teachers Assessm ent* (50%OR 10%)	TOTAL MA				CREDITS
BS& AE	TE	THEORY	ARCH 109	BUILDING SYSTEMS AND SERVICES-I (SURVEY & LEVELLING)	50	20	30			100	2			2

Legends: L - Lecture: T - Tutorial/Teacher Guided Student Activity: S - Studio: C - Credit:

Teacher Assessment shall be based following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks

Advantages and disadvantages.

Curve Setting Introduction.; Types of Curves ,; Elements of Curves IV 4hrs

Methods of Curve Setting;

Construction Introduction. ;Equipment for setting out. 2hrs

Surveying Horizontal and vertical control.

Setting out a building and structure (complete layout).

Advanced Surveying EDM; Total Station, GPS, Other Advanced Methods 4hrs

Sessional work:

Guidelines Assignments /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 - a week time in advance OF

the commencement of the classes

Continuous Evaluation shall be made of students' work based on various models,

sketch assignments, and market surveys.

One Major And the rest minor tasks are to be set from the entire syllabus

Assignments: Site Studies - Plot, site, land and regions, size and shape of the site, Analysis of

accessibility, Topography, Climate, landforms, Surface Drainage, Soil, Water,

Vegetation, Ecology, and Visual aspects.

Evaluation is to be done through viva voce by an external examiner appointed by Note:

the university at the Institute. Portfolios, after the university exam, shall be retained

at the Institute level for the viva-voice

Suggested Readings::

Arora, K.R. Surveying Vol. I, 6th Ed. Standard Book House, Delhi, 2000.

Chandra A.M.(2006). Plane Surveying (2nd ed.). New Delhi, India: New Age International Publishers

Ghosh J.K.. (2010). Elementary Engineering Surveying. New Delhi, India: Stadium Press (India) Pvt. Ltd.

Gopi Satheesh., Sathi Kumar R., Madhu, N. (2018). Advanced Surveying (2nd ed.). Noida, India. Pearson

Lynch, Kevin. Site Planning. MIT Press, Massachusetts, 1962.

Punamia B.C. (2016). Surveying Volume 1 (17th ed.). Bengaluru, India: Laxmi Publications(P) Ltd.;

Punmia, B.C. Surveying Vol. 1, 13th Ed. Laxmi Publications Pvt. Ltd., New Delhi, 1996.

Rangwala (2018). Surveying and levelling. Anand, India: Charotar



Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 by COA

B. ARCH (2021-26)

HUCS 101: Communication Skills

				Course Name	EXAMINATION SCHEME						TEACHING SCHEME/WEEK			
						THEORY	1	STU	DIO	MARKS	L	т	T S	
Cou rse Core	Course Area	Course Typology	Course Code		End Sem Universit y Exam (50%OR 40%)	Two Term Exam (20%)	Teachers Assessm ent* (30%OR 20%)	End Sem Universit y Exam (50%OR 10%)	Teachers Assessm ent* (50%OR 10%)	TOTAL MA				CREDITS
SEC	sĸ	THEORY	HUCS1 01	COMMUNICATION SKILLS	60	24	36	20		120	1		1	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit;

Teacher Assessment shall be based following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.

HUCS 101: Communication Skills

Course Educational Objectives (CEOs):

Develop the second language learners' ability to enhance and demonstrate skills Acquire English language skills to further their studies at advanced levels Become more confident and active participants in all aspects of their undergraduate programs

Course outcomes (COs):

Course outcomes (COs):	
At the end of the course, students	Demonstrate understanding of the English Language
will be able to	Interpret the basic structure, grammar, vocabulary, and speech
	construction
	Develop an Understanding of Keywords in Architecture
	Build art of presentation in basic writing and public speaking with a
	focus on meaning,
	interpretation, accent, rhythm, etc. of the keywords in the Architecture
Expected Skills / Knowledge	The students should be able to: Have confidence in their ability to read,
Transferred:	comprehend, organise and retain written information; Write
	grammatically correct sentences for various forms of written
	communication to express themselves
Focus: Manual Skills	Adapt skills of listening, reading, understanding, speaking, writing &
	translation in English students should be able to: Have confidence in
	their ability to read, comprehend, organise and retain written
	information; Write grammatically correct sentences for various forms
	of written communication to express themselves

Course Overview:

To provide an adequate mastery of technical and communicative English Language training primarily, reading and writing skills, secondarily listening and speaking skills.

Course Contents:

Sr. No.	Syllabus: Topic	Subtopic	Teaching Hours:
1	Unit I	"Communication: Nature, Meaning, Definition, Verbal And Non-Verbal Communication, Barriers To Communication	6 Hrs.
2	Unit II	Basic Language Skills: Grammar And Usage, Parts Of Speech, Tenses, Subject, And Verb Agreement, Prepositions, Articles	6 Hrs.
3	Unit III	Basic Language Skills: Types Of Sentences, Direct - Indirect, Active And Passive Voice, Phrases And Clauses	6 Hrs.
4	Unit IV	Business Correspondence: Business Letter, Parts And Layouts Of Business Resume And Job Application, Email Writing, E-Mail Etiquette.	6 Hrs.
5	Unit V	Report Writing: The Importance Of The Report, Types Of Report, The Structure Of A Report	6 Hrs.
	Practical:	Self-Introduction, Reading Skills, Listening Skills, Oral Presentation, Linguistics And Phonetics, Jam (Just A Minute), Group Discussion, Role Plays	

Sessional work:



Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 by COA

B. ARCH (2021-26)

HUCS 101: Communication Skills

Cou rse Core				Course Name	EXAMINATION SCHEME						TEACHING SCHEME/WEEK			
						THEORY		STU	DIO	MARKS	L	T	s	
	Course Area	Course Typology	Course Code		End Sem Universit y Exam (50%OR 40%)	Two Term Exam (20%)	Teachers Assessm ent* (30%OR 20%)	End Sem Universit y Exam (50%OR 10%)	Teachers Assessm ent* (50%OR 10%)	TOTAL MA				CREDITS
SEC	sĸ	THEORY	HUCS1 01	COMMUNICATION SKILLS	60	24	36	20		120	1		1	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit;

Teacher Assessment shall be based following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.

Assignments /Tasks are to be set from the entire syllabus; The topic of the project is to Guidelines

be displayed on the Institute Notice Board fifteen days - a week time in advance OF

the commencement of the classes

One Major And the rest minor tasks are to be set from the entire syllabus

A Student Has to Produce a Presentation by The End of The Term and proper presentations **Assignments:**

as it is part of the architecture for juries and presentation

Evaluation is to be done through viva voce by an external examiner appointed by Note:

the university at the Institute. Portfolios, after the university exam, shall be retained

at the Institute level for the viva-voice

Suggested Readings::

A.J.Thomson and A.V.Martinet (1991) A Practical English Grammar (4th ed) New York: Oxford IBH Pub

Adair John (2003) Effective communication. London: pan Macmillan Ltd

Ashraf Rizvi(2005) Effective Technical Communication, New Delhi: Tata Mc Graw Hill

Kratz, Abby Robinson (1995) Effective Listening skills, Toronto on Irwin Professional Publishing

Pease Allan (1998) Body language, Delhi: Sudha Publications

Prasad, H.M(2001) How to prepare for group discussion and Interview. New Delhi Tata Mc Graw Hil



Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 by COA

B. ARCH (2021-26)

ARCH 110: Study Tour I

		, , , , , , , , , , , , , , , , , , ,			EXAMINATION SCHEME							ACHI ME/V		
						THEORY		STUDIO		MARKS	L	T	s	
Cou rse Core	Course Area	Course Typology	Course Code	Course Name	End Sem Universit y Exam (50%OR 40%)	Two Term Exam (20%)	Teachers Assessm ent* (30%OR 20%)	End Sem Universit y Exam (50%OR 10%)	Teachers Assessm ent* (50%OR 10%)	TOTAL MA				CREDITS
SEC	su	PROJECT	ARCH 110	STUDY TOUR 1: BUILDING DOCUMENTATION				50	50	100				2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit;

Teacher Assessment shall be based following components: Ouiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

ARCH 110: Study Tour I

Study Tour /Field Studio: Syllabus: 1 week (6 hours/week) Total Teaching hours: 30 Hr. **Course Educational Objectives (CEOs):**

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

Course outcomes (COs):

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

Students will get an understanding of the "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, institutions, and settlements in India, which become a basis for future

Expected Skills Knowledge Transferred: Different skills for creative thinking, understanding various art forms and appreciating art and architecture. a paper presentation and a summer case

study

Focus: Manual Skills

Provides knowledge on the traditional art form, innovations in and influences

on architecture and thinking process in design;

Course Overview:

Students will develop the skills & understanding of measure drawing.

Course Contents:

Unit **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 a first-hand experience of traditionally built environments. This subject recognizes the value of traditional architecture as well as the importance of field experiences and travels in the learning of architecture. The students are encouraged to learn about not only the architectural form but 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.
- Students will also document the social, cultural, and environmental aspects of that village.
- Students came back to the institute and made the final Drawings and reports within the remaining days.

Sessional work:

Assignments /Tasks are to be set from the entire syllabus; The topic of the project is to be **Guidelines**

displayed on the Institute Notice Board fifteen days - a week time in advance OF the

commencement of the classes

One Major And the rest minor tasks are to be set from the entire syllabus **Assignments:**

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

Note: of places visited Students contribute to the topic/area is of critical importance.



Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 by COA

B. ARCH (2021-26)

ARCH 119: Elective -I

				Course Name	EXAMINATION SCHEME						TEACHING SCHEME/WEEK			
						THEORY		STU	DIO	MARKS	L	т	s	
Cou rse Core	Course Area	Course Typology			End Sem Universit y Exam (50%OR 40%)	Two Term Exam (20%)	Teachers Assessm ent* (30%OR 20%)	End Sem Universit y Exam (50%OR 10%)	Teachers Assessm ent* (50%OR 10%)	TOTAL MA				CREDITS
SEC	su	THEORY /STUDIO	ARCH 119	ELECTIVE- I (POOL I)				50	50	100			2	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit;

Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

ARCH 119: Elective -I

1Sem		Elective- I (Pool I)
	119.1	Pottery
	119.2	Collages And Montages
	119.3	Caricature, Sketching & Rendering
	119.4	MOOC: Innovation By Design (Course Era)/In Design Acedge

Course Educational Objectives (CEOs):

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

Course outcomes (COs):

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

be able to

Expected Skills / better grooming than just books and theories.

Knowledge Transferred:

Focus: Manual Skills

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, and processes; developing creative products; and finishing & presenting the product for the concepts that evolved. The outcome will be through portfolio & presentations. As Per Pool Electives Choices Stage I odd semester pool

Course Overview:

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

Sessional work:

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

Assignments /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 - a week time in advance OF

the commencement of the classes

Assignments: One Major And the rest minor tasks are to be set from the entire syllabus

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

at the Institute level for the viva-voice

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

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

ARCH 119.1 Pottery

Pottery Students will understand different types and forms of pots; Also the sense

Chairperson Board of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya,Indore Chairperson Faculty of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore **Controller of Examination** Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore Joint Registrar Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore



Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 by COA

B. ARCH (2021-26)

ARCH 119: Elective -I

					EXAMINATION SCHEME							ACHI EME/V		
					THEORY		STUDIO		MARKS	L	T	s		
Cou rse Core	Course Area	Course Typology	Course Code	Course Name	End Sem Universit y Exam (50%OR 40%)	Two Term Exam (20%)	Teachers Assessm ent* (30%OR 20%)	End Sem Universit y Exam (50%OR 10%)	Teachers Assessm ent* (50%OR 10%)	TOTAL MA				CREDITS
SEC	su	THEORY /STUDIO	ARCH 119	ELECTIVE- I (POOL		3		50	50	100			2	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit;

Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

of the different scales of pots will be developed.

Understand the discipline of the workspace and its instruments; Different materials of pot making will be explored; the Different technology of the pottery will be explored; Understand firing in the kiln for baking the pots

Course outcomes (COs):

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

Relate to different types and forms of clay, clay work, and pots.

Illustrate the use of a potter's wheel.

Apply the basic knowledge of working with clay and tools in designing a product.

Create a product with finishing with hands-on work on the potter's wheel. better grooming than just books and theories.

Expected Skills
Knowledge Transferred:
Focus: Manual Skills

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, and processes; developing creative products; and finishing & presenting the product for the concepts that evolved. The outcome will be through portfolio & presentations.

As Per Pool Electives Choices Stage I odd semester pool

Course	Contents:		
Unit	Syllabus: Topic	Sub Topic	Teaching hours
I	Introduction to mud and mirror work	 Basic rules& principles Mud and Mirror Work (also known as Lippan Kaam) is a traditional mural craft of Kutch. Clay and dried donkey dung powder are mixed in almost equal proportions to make a thin slurry. This slurry is applied as the base of the artwork. 	9 hours
II	Making Geometrical Design , and Tracing on MDR Making Dough.	 Mike en Place or "everything in its place" Mixing Bulk (Primary) Fermentation Punching Down Benching Shaping and Panning the Loaves Proofing the Loaf (Secondary Fermentation) 	6 Hours
III	Tools and Raw Materials	 Step 10: Stage 10: Baking. The tools and raw materials used Wooden board/ Hardboard Clay, Glue, Chalk Powder, Sawdust, Scale, Pencil, Frame, Color, Mirror, Waste Cloth 	6 hours



Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 by COA

B. ARCH (2021-26)

ARCH 119: Elective -I

					EXAMINATION SCHEME						TEACHING SCHEME/WEEK			
					THEORY		STUDIO		MARKS	L	T	s		
Cou rse Core	Course Area	Course Typology	Course Code	Course Name	End Sem Universit y Exam (50%OR 40%)	Two Term Exam (20%)	Teachers Assessm ent* (30%OR 20%)	End Sem Universit y Exam (50%OR 10%)	Teachers Assessm ent* (50%OR 10%)	TOTAL MA				CREDITS
SEC	su	THEORY /STUDIO	ARCH 119	ELECTIVE- I (POOL				50	50	100			2	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit;

Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

IV Learning Different

Architectural patterns in mud-work

- Design pattern Architectural Patterns
- 9 hours

9 hours

6 hours

Design framework,Design Plywood /hardboard

• Design is drawn on the wooden piece using a pencil

V Kneading clay and making dough and pinching exercise

- Squeezing and kneading
- Poking and pinching
- Rolling, Pressing, Cutting
- Stamping, Constructing
- Imagining
- Plasticine or modelling clay

Hands-on potter the wheel-making posts/vases. • Lubrication Is Vital while Throwing

The Proper Method for Centering Clay on the Potter's Wheel.

- Speed and Movement While Throwing.
- Compress the Pot's Rim after Every Throw
- The Mechanics of Throwing a Pot's Walls
- Sponge Up Excess Liquid after Each

Throw

• Third Throw of the Pot's Walls

ARCH 119.2 Collages and Montages

Collages and Montages

Students will learn a brief history of collages and montages; Students will learn to explore using techniques of collages and montages.

types of montages; Collages and Montages as a tool to represent ideas

Brief History of collages & montages; Different types of collages; Different

Course outcomes (COs):

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

Tell different types and techniques of collages and/or manages Illustrate the importance of collages and/or montages as a tool to represent and communicate ideas

mpose a collage/montage

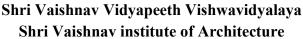
Expected Skills Knowledge Transferred: Focus: Manual Skills better grooming than just books and theories.

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, and processes; developing creative products; and finishing & presenting the product for the concepts that evolved. The outcome will be through portfolio & presentations.

As Per Pool Electives Choices Stage I odd semester pool

Course Contents:

Chairperson Board of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya,Indore Chairperson Faculty of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore **Controller of Examination** Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore Joint Registrar Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore





Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 by COA

B. ARCH (2021-26)

ARCH 119: Elective -I

Cou rse Core	Course Area	Course Typology	Course Code	Course Name	EXAMINATION SCHEME						TEACHING SCHEME/WEEK			
					THEORY			STUDIO		MARKS	L	T	s	
					End Sem Universit y Exam (50%OR 40%)	Two Term Exam (20%)	Teachers Assessm ent* (30%OR 20%)	End Sem Universit y Exam (50%OR 10%)	Teachers Assessm ent* (50%OR 10%)	TOTAL MA				CREDITS
SEC	su	THEORY /STUDIO	ARCH 119	ELECTIVE- I (POOL				50	50	100			2	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit;

Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Unit	Syllabus: Topic	Sub Topic	Teaching hours:		
I	Brief History of collages & montages	Brief Timeline, manual & digital ways, modern approaches etc	3 hours		
II	Different types of collages	2D Collages ;3D Collages	21 hours		
3	Different types of Montages		21 hours		

Suggested Readings:

- 1. Simpson, L., & Alexander, E. (2018). Lorna Simpson collages. San Francisco: Chronicle Books.
- 2. Moore, A. (2018). Collage Ideas Book. Octopus Publishing Group.
- 3. Taylor, T., & Plowman, R. (2010). Masters: Collage: Major works by leading artists. New York: Lark Books.

ARCH 119.3 Sketching, rendering and Caricature

Freehand line sketching and drawing of natural and manmade. Study of shades and shadows,

Sketching of Historic or newly built-up structures of Architectural importance using different mediums.

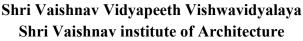
Understanding of human proportion about compositions; freehand sketching of volumes, spaces & human figures. Indoor objects - still Life – Furniture, Equipment - Understanding Depth, light, Shade, Shadow Etc., Outdoor sketching: Natural Forms/ Built Forms, Understanding variety in Forms. Sketching Human Form: Anatomy and Expressions - Graphical Representations. Colour: Freehand rendering of Landscapes & builtscapes including human figures; Exercises; Application of Color in Architectural rendering; Relation between colour & texture.

Sketching and rendering

Rendering techniques:

Introduction to surfaces and media, observation, recording and basic representation techniques in different media through drawing pencil, pen, brush, charcoal, crayons etc. general approach to rendering, Entourage, Treatment of the sky, clouds, landscape elements, human figures, foreground and surroundings, shadow projections in renderings.

Graphic skills and Presentation Techniques: Page layout and Composition grids; Illustration techniques; Portfolio design and formats; Digital techniques in graphics





Choice Based Credit System (CBCS) Scheme in the light of NEP-2020 by COA

B. ARCH (2021-26)

ARCH 119: Elective -I

Cou rse Core	Course Area	Course Typology	Course Code	Course Name	EXAMINATION SCHEME						TEACHING SCHEME/WEEK			
					THEORY			STUDIO		MARKS	L	T	s	
					End Sem Universit y Exam (50%OR 40%)	Two Term Exam (20%)	Teachers Assessm ent* (30%OR 20%)	End Sem Universit y Exam (50%OR 10%)	Teachers Assessm ent* (50%OR 10%)	TOTAL MAI				CREDITS
SEC	su	THEORY /STUDIO	ARCH 119	ELECTIVE- I (POOL				50	50	100			2	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; S - Studio; C - Credit;

Teacher Assessment shall be based following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.

Caricature

Students will learn about the history of caricatures. Students will understand the techniques of making caricatures. Students will develop analytical skills and different techniques.

Brief History of caricatures, Uses and applications of caricatures in the design field, Caricatures of objects, animals, Caricature of person

ARCH 119.4. MOOC

Course Educational Objectives (CEOs):

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

Course outcomes (COs):

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

Tell different types and techniques of collages and/or manages

Illustrate the importance of collages and/or montages as a tool to represent

and communicate ideas mpose a collage/montage

Expected Skills
Knowledge Transferred:
Focus: Manual Skills

better grooming than just books and theories.

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, and processes; developing creative products; and finishing & presenting the product for the concepts that evolved. The outcome will be through portfolio & presentations.

As Per Pool Electives Choices Stage I odd semester pool

Course Overview:

The following is a representative list of what may:

Tutorials/ additional classes for any course on online mode of platforms, Provides knowledge to support student being sensitive to design;

a paper presentation