

SSSMs COLLEGE OF ARCHITECTURE, SOLAPUR

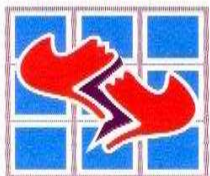
NAAC

CRITERION-2 TEACHING LEARNING AND EVALUATION

INDEX

2.6.2 COURSE OBJECTIVES AND PO MAPPING

Sr. No	PARTICULARS	PAGE NO
1	CO-PO MAPPING OF FIRST YEAR SEM-I, SEM-II	
2	CO-PO MAPPING OF SECOND YEAR SEM-III SEM-IV	
3	CO-PO MAPPING OF THIRD YEAR SEM-V, SEM-VI	
4	CO-PO MAPPING OF FOURTH YEAR SEM-VII, SEM-VIII	
5	CO-PO MAPPING OF FIFTH YEAR SEM-IX, SEM-X	
6	ATTAINMENT OF POS AND COS	


 SSSMs COLLEGE OF ARCHITECTURE, SOLAPUR
BACHELOR OF ARCHITECTURE

Syllabus pattern -CBCS (2019 PATTERN)

 YEAR & SEM- **B. ARCH 1ST YEAR SEM -I**
Course Code & Course - 21 AR1 – 01 ARCHITECTURAL DESIGN- I

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	07	07	ISE	ESE	ICA	ESE	
To	08	08	--	--	100	150	250

Course Outcome-

By the end of the course, students should be able to:

CO1 Exhibit understanding of knowledge of create concept through story lines, enactment of acts, sketches and models.

CO2.Exhibit understanding of knowledge enough to read design and create and design using elements and principles of design.

CO3.Apply the concept of scale, proportion, and application of principles of design and composition.

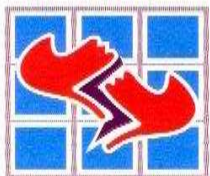
CO4.Assemble simple spatial elements in articulated concepts and visually represent them through hand-made 2D drawings and models.

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	2	3	1	1	3	2	0	1	2	2.5	3	2
CO2	2	2	2	2	2	3	3	3	1	3	2	2.5	2.75
CO3	3	2	3	3	3	3	3	3	3	3	2.5	3	2.75
CO4	3	3	3	2	3	2	2	3	3	3	2.5	2.75	3
AVG PO ATTAINMENT	2.75	2.25	2.75	2.00	2.25	2.75	2.50	2.25	2.00	2.75	2.38	2.81	2.63

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course - 21 AR1-02 BUILDING CONSTRUCTION AND MATERIAL- I

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	05	05	ISE	ESE	ICA	ESE	
Total	06	06	---	100	50	100	250

Course Outcome:

At the end of the course students should be able to:

CO1.Exhibit understanding of basic building elements, their function and behaviour under various conditions with specific reference to load bearing construction.

CO2.Apply principles of load bearing structures with respect to foundation, plinth, and wall using different materials suitable for load bearing construction.

CO3.Use various components of simple load bearing structure.

CO4.Apply the acquainted knowledge to use various types of brick wall and bounds.

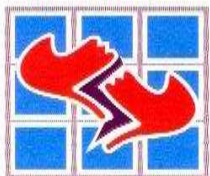
CO5.Apply and exhibit understanding of various properties and uses of basic building materials.

Course Outcomes (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	2	2	3	3	1	0	3	0	2	3	1
CO2	3	2	1	3	2	1	2	1	2	3	3	3	2
CO3	3	2	3	3	2	2	2	1	3	1	3	3	2
CO4	3	3	1	2	2	1	3	3	3	2	3	3	2
CO5	3	2	2	2	2	2	2	3	3	1	2	3	3
AVG PO ATTAINMENT	2.80	2.40	1.80	2.40	2.20	1.80	2.00	1.60	2.80	1.40	2.60	3.00	2.00

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course -21AR1 – 03 THEORY OF STRUCTURE – I

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	02	02	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	--	--	ISE	ESE	ICA	ESE	
Total	02	02	30	70	--	--	100

Course Outcome:

By the end of term, the student should be able to

CO1.Exhibit understanding about loads and load transfer on various structural components,

CO2.Force and its properties,

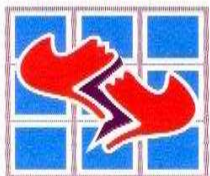
CO3.Beams and determination of reaction of beams from given support and loading conditions, Centroid and center of gravity of compound sections

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	2	1	2	3	0	1	3	3	3	3	2	2
CO2	3	2	2	1	3	0	1	3	3	3	2	3	2
CO3	3	2	2	1	3	1	1	3	3	3	2	3	2
AVG PO ATTINM	3.00	2.00	1.66	1.33	3.00	0.33	1.00	3.00	3.00	3.00	2.33	2.67	2.00

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course -21 AR 1 – 04 HUMAN SETTLEMENT PLANNING

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	02	02	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	--	--	ISE	ESE	ICA	ESE	
Total	02	02	30	70	--	--	100

Course Outcome:

By the end of the course the students should be able to:

CO1.Develop understanding and get familiar to geographical, geological, climate, social, religious & cultural factors that influence the early society.

CO2.Develop understanding about human needs and co-habitation through the history of human settlement during ancient, medieval and modern period and understand relationship between man and environment.

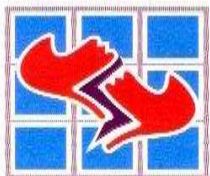
CO3.Study different civilisation through literature study, videos, models, and documentation work

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	2	2	2	3	3	0	3	3	3	2	1
CO2	3	2	3	3	2	2	3	0	2	3	3	3	2
CO3	2	1	1	3	2	2	3	0	3	3	2	2	3
AVG PO ATTAIN	2.33	2.00	2.00	2.67	2.00	2.33	3.00	0.00	2.67	3.00	2.67	2.33	2.00

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course - 21 AR 1 – 05 ARCHITECTURAL GRAPHICS AND DRAWING – I

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	03	03	ISE	ESE	ICA	ESE	
Total	04	04	--	--	100	--	100

Course Outcome:

By the end of the course students should be able to:

CO1.To apply fundamentals of graphical language as tool for drawing as communication in Architecture

CO2.To use relevant application of method of dimensioning of geometrical diagrams of the basic geometrical shapes

CO3.To use relevant application of Lettering of various heights, Architectural lettering, using the right sizes for titles, nameplate, written matters

CO4.To use relevant application of different media, colour pencils etc.

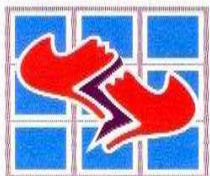
CO5.Student will be well equipped with knowledge of drafting and drawings with the help pencil and different media

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	2	2	1	0	0	0	3	1	3	2	1
CO2	3	2	1	0	3	0	3	0	2	2	2	3	1
CO3	3	1	3	1	3	0	3	0	3	3	2	3	1
CO4	3	3	0	0	3	1	2	0	3	1	3	2	1
CO5	3	3	2	0	3	1	1	0	3	1	3	3	2
AVG PO ATTINM	2.80	2.40	1.60	0.66	2.60	0.40	1.80	0.00	2.80	1.60	2.60	2.60	1.20

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course - 21 AR 1 – 06 BASIC DESIGN AND VISUAL ARTS-I

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	--	--	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	03	03	ISE	ESE	ICA	ESE	
Total	03	03	--	--	100	--	100

Course Outcome:

By the end of the course student should be able;

CO1.To apply acquainted knowledge and understanding of the basic elements and principles of basic design.

CO2.To use relevant application of various methods of designing and expression through various materials of 2D and 3D forms

CO3.To exhibit understanding of multi- sensory aspects of space

CO4.To exhibit understanding of the concept of Positive and negative spaces and Spatial relationships.

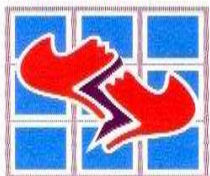
CO5.To exhibit understanding of various texture through different material, colour, and material collection

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	2	2	3	0	1	0	1	3	3	3	2
CO2	3	2	3	3	3	0	2	0	2	3	2.5	2.5	3
CO3	3	3	3	3	3	0	1	0	1	3	2.5	3	3
CO4	3	3	2	3	3	0	2	0	2	2	2.75	2.75	3
CO5	3	3	2	3	1	1	1	0	2	3	3	2.5	2.5
AVG PO ATTINM	2.80	2.80	2.40	2.80	2.60	0.20	1.40	0.00	1.60	2.80	2.75	2.75	2.70

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course -21 AR 1 – 07 WORKSHOP – I

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	--	--	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	03	03	ISE	ESE	ICA	ESE	
Total	03	03	--	--	50	--	50

Course Outcome:

By the end of the semester, students should be able to:

CO1.To exhibit understanding and explore various materials and model making technique

CO2.To use relevant methods to prepare various model making techniques using basic material expressing their design concepts and perception

CO3.To use various methods to prepare models of basic design and abstraction of perceived images. prepare conceptual and final models for the design and technology process

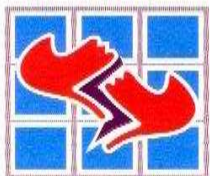
CO4.To apply and use knowledge enough to select, handle and use different materials in model making.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	1	3	0	2	2	0	0	1	0	3	3	2
CO2	2	2	2	0	2	0	2	0	2	0	3	3	1
CO3	2	3	2	0	2	0	2	0	2	2	3	3	2
CO4	3	3	2	0	2	0	1	0	2	2	2	3	1
AVG PO ATTAIN	2.25	2.25	2.25	0.00	2.00	0.50	1.25	0.00	1.75	1.00	2.75	3	1.5

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course - 21 AR 1 – 08 ELECTIVE -I

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	--	--	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	02	02	ISE	ESE	ICA	ESE	
Total	02	02	--	--	50	--	50

The student will opt for any one of the following courses

A. Architectural Vocabulary B. Communication Skills C. Art and Art Forms

The detail syllabus for the above subjects is given hereby

A. ARCHITECTURAL VOCABULARY
Course Outcome:

After successful completion of this course, student should be able to:

CO1.Gain clarity of various terms used in Architectural Education and in practice

CO2.Adopt architectural language, principles, styles and can communicate their design in written format and thereby improving the vocabulary skill required for juries, seminar etc.

CO3.Prepare report, articles, essays, documentation required in Architectural Education and Profession.

B. COMMUNICATION SKILLS
Course Outcome:

After successful completion of this course, student should be able to

CO1.Master both written and spoken exercises as per the course out line which leads to effective communication both written and verbal

CO2.Facilitate the flow of information and proprietary knowledge between clients and architects to either bridge or exploit the gap between these two cultures.

C.ARTS AND ART FORMS
Course Outcome:

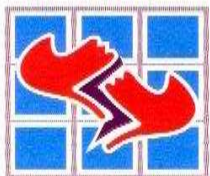
After successful completion of this course, student should be able to:

CO1.Explore different art forms in the form of presentations, acts, art works.

CO2.Relate art with Architecture.

CO3.Develop the technical skills and the ability to organize the visual elements necessary to communicate concepts and experiences.

CO4.Develop Visual Literacy.

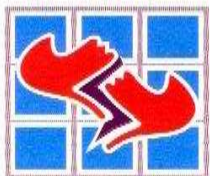


Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	2	2	3	3	3	3	3	3	1	2	3
CO2	3	2	3	3	3	2	3	3	2	3	1	2	3
CO3	3	3	3	3	3	3	3	3	3	3	1	2	3
AVG PO ATTINM	2.75	2.75	2.50	2.75	3.00	2.25	2.75	3.00	2.75	2.75	1.00	2.00	3.00

3= High Correlation

2-Medium Correlation

1-Low Correlation


YEAR & SEM- B. ARCH 1ST YEAR SEM -II
Course Code & Course -21 AR2 – 01 ARCHITECTURAL DESIGN- II

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	07	07	ISE	ESE	ICA	ESE	
Total	08	08	--	---	100	150	250

Course Outcome:

At the end of the semester students should be able to:

CO1.Apply the concepts of bubble diagram, zoning, circulation and user analysis in design development process

CO2.Finalize alternatives options for space planning and user comfort with help of various block models

CO3.Exhibit understanding and importance of space planning considering different variable like movement, circulation, scale, volume, proportions and structure and its impact on built

CO4.Design space planning for multifunctional activity for entire residential building

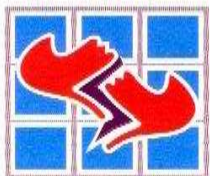
CO5.Assemble simple spatial elements in articulated concepts and visually represent them through hand-made drawings and models. to generate solution and represent it graphically.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	2	3	2	1	0	3	0	2	0	2.5	3	2.5
CO2	3	2	3	1	2	0	2	1	1	0	2.75	2.5	3
CO3	3	3	3	2	2	3	3	1	2	1	3	3	2.75
CO4	3	3	3	3	2	2	2	2	2	1	3	2.75	3
CO5	2	2	3	1	2	2	2	1	0	0	3	2.5	2.75
AVG PO ATTINM	2.60	2.40	3.00	1.80	1.80	1.40	2.40	1.00	1.40	0.40	2.85	2.75	2.80

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course -21 AR 2- 02 BUILDING CONSTRUCTION AND MATERIAL- II

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	05	05	ISE	ESE	ICA	ESE	
Total	06	06	---	100	50	100	250

Course Outcome:

At the end of course students shall be able

CO1-To exhibit understanding of basic building elements, concept of openings in both trabeated and arcuate construction methodologies.

CO2-To apply acquainted of the principles of design of doors and windows.

CO3-To apply the acquainted knowledge of design of staircase.

CO4-To apply concept of types of various types of roofs and use it in design

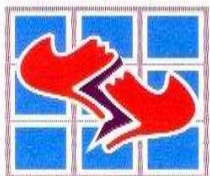
CO5-To apply and exhibit understanding of various properties and uses of basic building materials.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	2	0	2	3	2	1	0	0	0	3	3	2
CO2	3	3	2	3	2	2	2	1	2	2	3	3	2
CO3	3	2	3	2	2	1	2	1	3	2	3	3	2
CO4	3	1	1	2	2	1	0	1	3	2	3	3	2
CO5	3	0	0	2	2	1	2	0	3	2	3	3	2
AVG PO ATTAINMEN	3.00	1.60	1.20	2.20	2.20	1.40	1.40	0.60	2.20	1.60	3.00	3.00	2.00

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course -21AR2- 03 THEORY OF STRUCTURE -II

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	02	02	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	--	--	ISE	ESE	ICA	ESE	
Total	02	02	30	70	--	--	100

Course Outcome:

By the end of term, the student shall exhibit understanding of

CO1: Understand and apply fundamental concepts of stress, strain, and material behavior

CO2: Analyse the properties of sections and calculate moments of inertia

CO3: Evaluate shear force, bending moment, and their diagrams

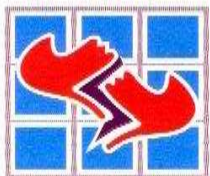
CO4: Analyse bending stress and shear stress in beams, and understand material properties

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO 1	PSO 2	PSO3
CO1	3	3	0	2	2	0	1	2	3	2	3	3	0
CO2	3	3	1	1	2	1	1	1	3	2	3	3	1
CO3	3	3	2	1	3	0	1	2	3	2	3	3	2
CO4	3	3	1	1	3	0	1	2	3	2	3	3	1
AVG PO ATTAINMENT	3.00	3.00	1.00	1.25	2.5	0.25	1.00	1.75	3.00	2.00	3.00	3.00	1.50

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course -21AR 2 – 04 HISTORY OF ARCHITECTURE -I

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	02	02	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	--	--	ISE	ESE	ICA	ESE	
Total	02	02	30	70	--	--	100

Course Outcome:

At the end of semester students should be familiar:

CO1.Evolution of different architectural periods through critical analysis of appropriate example

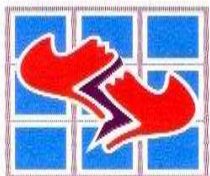
CO2.About construction technology-built form during ancient period through models exercised in group work.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	1	2	0	2	2	1	1	0	3	0	3	2	1
CO2	3	1	0	2	2	2	3	1	2	1	2	3	2
AVG.PO ATTAIN	2.00	1.50	0.00	2.00	2.00	1.50	2.00	0.50	2.50	0.50	2.50	2.50	1.50

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course -21AR 2 – 05 ARCHITECTURAL GRAPHICS AND DRAWING- II

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	03	03	ISE	ESE	ICA	ESE	
Total	04	04	30	70	--	--	100

Course Outcome:

At the end of the semester students should be able to:

CO1.Understand, imagine, and draw design forms and three-dimensional representation.

CO2.Exhibit understanding of projection methods for representing the solids,

CO3.Draw orthographic projection, Isometric views of plans, elevations & section of solids.

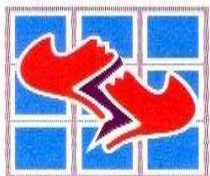
CO4.Visualize and draw complex, compound objects and their true cut portion of shapes.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	2	0	1	3	0	0	0	3	0	3	2	1
CO2	3	2	2	1	3	1	2	1	2	2	2	3	1
CO3	3	3	0	1	3	2	1	0	3	0	2	3	1
CO4	3	3	2	1	3	0	1	1	3	2	3	2	1
AVG PO ATTAIN	3.00	2.50	1.00	1.00	3.00	0.75	1.00	0.50	2.75	1.00	2.5	2.5	1

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR2 – 06: BASIC DESIGN AND VISUAL ARTS- II

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	--	--	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	03	03	ISE	ESE	ICA	ESE	
Total	03	03	--	--	100	--	100

Course Outcome:

By the end of the course student should be able to:

CO1.Apply acquainted knowledge to principles of composition and organization.

CO2.Apply acquainted knowledge of various methods to work with forms and model.

CO3.Exhibit understanding of various methods of expressing creativity through 2D and 3D forms.

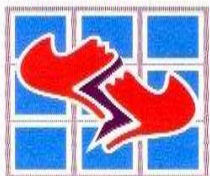
CO4.Analysis work of architectural designs with respect to principles of composition and organization.\

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	2	2	2	0	0	2	3	2	3	3	2
CO2	3	2	3	3	2	0	1	0	2	1	2.5	2.5	3
CO3	3	3	3	3	2	0	1	2	3	1	3	3	2.5
CO4	3	3	2	3	2	0	1	1	3	1	2.75	2.75	3
AVG PO ATTAIN	2.75	2.75	2.50	2.75	2.00		0.75	1.25	2.75	1.25	2.81	2.81	2.63

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR 2 – 07: WORKSHOP – II

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	--	--	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	03	03	ISE	ESE	ICA	ESE	
Total	03	03	--	--	50	--	50

Course Outcome:

By the end of the semester, students will be able to:

CO1.Prepare final models for the subjects like Architectural design and Building technology, Basic Design

CO2.Students will be well equipped to select, handle and use different materials in model making

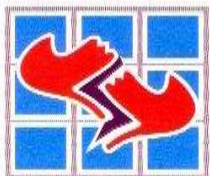
CO3.Make basic design and architectural design single unit model.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	2	2	3	3	1	0	3	1	3	2	1
CO2	3	2	2	3	3	0	2	1	2	1	2	3	1
CO3	3	3	3	3	3	0	2	0	3	1	3	2	1
AVG PO ATTAIN	2.67	2.67	2.33	2.67	3.00	1.00	1.67	0.33	2.67	1.00	2.67	2.33	1.00

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR2- 08 ELECTIVE -II

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	--	--	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	02	02	ISE	ESE	ICA	ESE	
Total	02	02	--	--	50	--	50

The student will opt for any one of the following courses

A. Furniture design B. Creative writing C. Mud architecture

The detail syllabus for the above subjects is given hereby

A: FURNITURE DESIGN
Course Outcome:

After successful completion of this course, student should be able to:

CO1.Become conversant with ergonomics and scope of furniture design.

CO2.Develop skill in conversant with model making material selection and joinery in indoor and outdoor furniture.

B: CREATIVE WRITING
Course Outcome:

After successful completion of this course, student will be able to:

CO1.Incorporate techniques and methods of expressing an architectural narrative or description through forms of creative writings such as fiction, poetry, travel writing, blogging which are based on architecture.

CO2.Learn architecture as a context.

C: MUD ARCHITECTURE
Course Outcome:

After successful completion of this course, student will be able to:

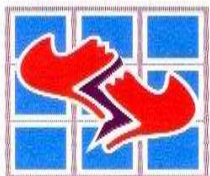
CO1.Be conversant with the scope and possibilities of mud architecture.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	1	2	3	3	0	1	3	1	2	3	0
CO2	3	2	2	3	3	2	2	0	2	1	3	2	1
AVG PO ATTAIN	2.50	2.50	1.50	2.50	3.00	2.50	1.00	0.50	2.50	1.0	2.50	2.50	0.50

3= High Correlation

2-Medium Correlation

1-Low Correlation



B.Arch. Second year – Sem. III and Sem. IV

B.ARCH. SEM.III

Course Code & Course 21 AR3 – 01: ARCHITECTURAL DESIGN – III

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	06	06	ISE	ESE	ICA	ESE	
Total	07	07	--	--	100	150	250

Course Outcome:

At the end of the semester, the students should be able to:

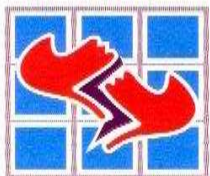
- CO1.Apply the fundamental concept of basic services and its integration in multifunctional planning in design process
- CO2.Apply acquainted knowledge to integrate data collection and analysis of community level spaces in design.
- CO3.Apply acquainted knowledge of design approach as a continuous process through function, technology and aesthetics of building.
- CO4.Apply acquainted knowledge gained in other subjects toward designing of spaces.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO 1	PSO 2	PSO3
CO1	3	2	3	2	1	1	1	2	1	2	2.75	2.5	3
CO2	3	2	3	3	2	3	3	3	2	2	2.5	2	3
CO3	3	3	3	3	1	2	3	1	2	2	3	2.75	3
CO4	3	3	3	3	1	2	2	1	2	2	2	3	3
AVG PO ATTAINMEN	3.00	2.50	3.00	2.75	1.25	2.00	2.25	1.75	1.75	2.00	2.56	2.56	3.00

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR 3 - 02: BUILDING CONSTRUCTION AND MATERIAL- III

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	04	04	ISE	ESE	ICA	ESE	
Total	05	05	---	100	50	100	250

Course Outcome:

At the end of semester students should be able to:

CO1. To select and choose different materials for design of staircase.

CO2. To exhibit technical understanding of wooden truss and traditional roofing along with roof covering materials

CO3. Construction of all types of heavy teakwood doors, windows and partitions joinery details.

CO4. To analyse the problems and solutions of dampness.

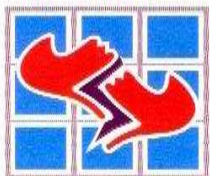
CO5. To exhibit understanding of different properties and uses of basic building materials.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	2	1	2	2	0	0	1	3	3	3	3	2
CO2	3	1	1	3	2	1	1	0	2	3	3	3	2
CO3	3	2	1	3	2	2	2	0	3	3	3	3	2
CO4	3	1	2	3	1	0	2	0	3	2	3	3	2
CO5	3	1	1	3	2	0	0	1	3	3	3	3	2
AVG PO ATTAIN	2.80	1.40	1.20	2.80	1.80	0.60	1.00	0.40	2.80	2.80	3.00	3.00	2.00

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21AR3 – 03 THEORY OF STRUCTURE – III

Teaching Scheme per week		Credits	Examination scheme				
Lecture (L)	02	02	Theory exam		Practical/Oral exam		Total
Practical/Studio(P/S)	--	--	ISE	ESE	ICA	ESE	
Total	02	02	30	70	----	----	100

Course Outcome:

By the end of the term, the students will also be able to

CO1: Understanding and applying stress analysis concepts

CO2: Analysing direct, bending, and axial stresses in structural elements

CO3: Evaluating the behavior of axially loaded columns and struts

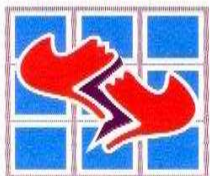
CO4: Analysing beam behavior, deflections, and frames/trusses

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	1	0	1	0	1	1	1	0	3	3	1
CO2	3	3	3	2	2	0	1	1	2	0	3	3	3
CO3	3	3	3	2	3	0	2	1	2	1	3	3	3
CO4	3	3	3	2	2	0	2	1	2	1	3	3	3
AVG PO ATTAIN	3.00	3.00	3.00	2.00	2.50	0.00	1.50	1.00	2.00	0.50	3.00	3.00	3.00

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR3 – 04 HISTORY OF ARCHITECTURE-II

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	02	02	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	--	--	ISE	ESE	ICA	ESE	
Total	02	02	30	70	--	--	100

Course Outcome:

At the end of semester students should be familiar:

CO1.To the physical and aesthetic experience of the buildings with available resources, and materials to build during ancient classical Architecture.

CO2.To develop understanding about evolution of different architectural periods through critical analysis of appropriate example

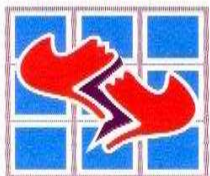
CO3.To exhibit knowledge about construction technology-built form during ancient period.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	2	0	2	1	3	1	0	2	2	2	1	1
CO2	3	2	0	3	0	2	1	0	2	2	2	1	1
CO3	3	2	0	3	2	2	1	0	2	2	3	2	2
AVG PO ATTAIN	2.66	2.00	0.00	2.66	1.00	2.33	1.00	0.00	2.00	2.00	2.33	1.33	1.33

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR 3 – 05 ARCHITECTURAL GRAPHICS AND DRAWING -III

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	03	03	ISE	ESE	ICA	ESE	
Total	04	04	30	70	--	--	100

Course Outcome:

At the end of the semester, the students should be able:

CO1.To be equipped with graphical skills which shall be useful in translating the graphical ideas into appropriate technical drawings presentations with sociography in conventional direction by considering sun's position & in perspective.

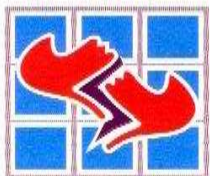
CO2.To be equipped with use of wide and normal lenses, advanced photography techniques.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	2	2	3	1	0	0	3	3	3	2	1
CO2	3	2	3	0	0	1	0	0	2	1	2	3	1
AVG PO ATTAIN	3.00	2.50	2.50	1.00	1.50	1.00	0.00	0.00	2.50	2.00	2.5	2.5	1

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR3 – 06: COMPUTER TECHNOLOGY IN ARCHITECTURE – I

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	02	02	ISE	ESE	ICA	ESE	
Total	03	03	--	--	50	50	100

Course Outcome:

At the end of semester students should be able to:

CO1.Students will be accustomed to use computer as a drafting and presentation tool.

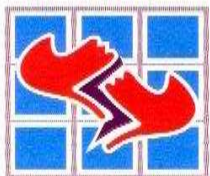
CO2.Use Computer operations principles and image editing through a graphical composition, computer aided 2D drafting through simple exercises.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	1	1	3	0	1	1	3	2	3	3	1
CO2	3	2	1	1	3	0	1	1	3	2	3	2	1
AVG PO ATTAIN	3.00	2.50	1.00	1.00	3.00	0	1.00	1.00	3.00	2.00	3.00	2.50	1.00

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR3 – 07: BUILDING SERVICES -I

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	02	02	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	01	01	ISE	ESE	ICA	ESE	
Total	03	03	30	70	--	--	100

Course Outcome:

By the end of term, the student should be able to:

CO1.To design water supply and drainage layout with calculations and sizing for a residential premise.

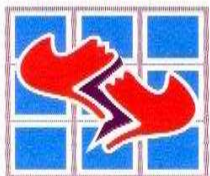
CO2.To design water tank.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	1	2	2	2	1	2	3	2	3	3	2
CO2	3	2	1	1	3	3	1	3	3	2	3	3	2
AVG PO ATTAIN	3.00	2.50	1.00	1.50	2.50	2.50	1.00	2.50	3.00	2.00	3.00	3.00	2.00

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR3 – 08: CLIMATOLOGY & ENVIRONMENT-I

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	02	02	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	--	--	ISE	ESE	ICA	ESE	
Total	02	02	30	70	--	--	100

Course Outcome:

At the end of the semester students should be able:

CO1.Exhibit understanding of various elements of climate & Global climate.

CO2.To impart knowledge regarding Micro climate & macro climate, Micro climate analysis

CO3.Students will be able to use Bio Climate Designs & Bio climatic chart, Sun dial & Sun path dial

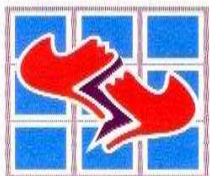
CO4.Students will be able to understand Thermal Design - Heat exchange of building.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	0	2	0	2	1	0	3	2	3	2	2
CO2	3	2	0	1	0	3	1	0	3	2	3	3	2
CO3	3	3	2	2	2	2	1	1	3	2	3	2	2
CO4	3	2	3	1	1	3	1	3	3	2	3	3	3
AVG PO ATTAIN	3.00	2.50	1.25	1.50	0.75	2.50	1.00	1.00	3.00	2.00	3.00	2.50	2.25

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR3-09: ELECTIVE-III

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	--	--	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	02	02	ISE	ESE	ICA	ESE	
Total	02	02	--	--	50	--	50

The student will opt for any one of the following courses

A. Art Appreciation B. Vernacular Architecture C. Basic Accounting.

The detail syllabus for the above subjects is given hereby

A. ART APPRECIATION
Course Outcome:

CO1.The student will be able to interpret, appreciate and articulate processes of artistic production, themes, socio-cultural and aesthetic issues that artists examine in their work

CO2.The role and influence of western ancient and medieval art in societies, histories and world cultures.

CO3.Appreciate and understand Indian art and its context

B. VERNACULAR ARCHITECTURE
Course Outcome:

CO1.Students acquire a working vocabulary that can help them describe vernacular architecture in meaningful ways.

CO2.Develop an understanding of grass root principles of indigenous architecture that has evolved over time in response to environment, climate, culture, economy and basic human needs.

CO3.Understanding of variations in built forms and their environmental performance across different climatic and geographical regions of India and adaptations of vernacular architecture in contemporary buildings.

C. BASIC ACCOUNTING
Course Outcome:

CO1.Conceptually define accounting and bookkeeping

CO2.Identify the accounting rules required for business enterprises

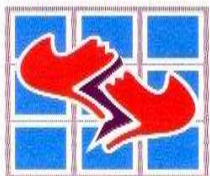
CO3.Apply the accounting rules in determining financial results

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO 1	PSO 2	PSO3
CO1	3	3	1	2	2	2	1	2	3	2	3	3	2
CO2	3	2	1	1	3	3	1	3	3	2	3	2	3
CO3	3	3	2	2	2	2	1	1	3	2	3	3	2
AVG PO ATTAINMENT FOR COURSE	3.00	2.66	1.33	1.66	2.33	2.33	1.00	2.00	3.00	2.00	3.00	2.66	2.33

3= High Correlation

2-Medium Correlation

1-Low Correlation


B.ARCH. SEM.IV
Course Code & Course 21 AR4 – 01: ARCHITECTURAL DESIGN - IV

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	06	06	ISE	ESE	ICA	ESE	
Total	07	07	--	--	100	150	250

Course Outcome:

At the end of the semester students must be able to:

CO1.Apply the fundamental concept of climatology, its different types and zones.

CO2.Use the relevant applications of various climate-based design strategies and method to adopt in design and detailing process.

CO3.Design and generate design approach through function, technology, aesthetics, and user comfort considering knowledge gained in previous semester.

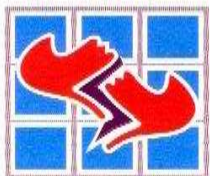
CO4.Exhibit understanding in design process for medium complex function, low rise multi-functional projects.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	3	2	1	2	3	1	3	2	2.5	3	2
CO2	3	2	3	2	2	2	3	1	2	3	3	2	2
CO3	3	3	3	2	3	3	3	2	2	3	2.5	2.5	2
CO4	3	3	3	2	3	3	1	2	2	2	2	2	1.5
AVG PO ATTAINMENT	2.75	2.75	3.00	2.00	2.25	2.25	2.50	1.50	2.25	2.50	2.5	2.38	1.88

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21AR4 – 02 BUILDING CONSTRUCTION AND MATERIAL –IV

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	04	04	ISE	ESE	ICA	ESE	
Total	05	05	---	100	50	100	250

Course Outcome:

At the end of semester, the students should be able to exhibit understanding:

CO1.Of the basic components of buildings construction systems,

CO2.Of techniques and methodology with specific reference to R.C.C construction method,

CO3.And use of metals for door, windows and as reinforcement in RCC structure.

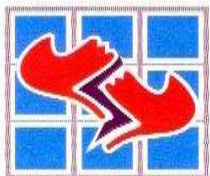
CO4 To exhibit understanding of different properties and uses of basic building materials

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	0	2	2	0	0	1	3	2	3	2	2
CO2	3	2	2	3	2	1	3	2	2	2	2	3	1
CO3	3	2	2	3	2	1	3	0	3	2	2	3	2
CO4	3	1	1	3	2	0	0	1	3	3	2	2	2
AVG PO ATTAINMENT FOR COURSE	3	2	1.25	2.75	2	0.5	1.5	1	2.75	2.25	2.25	2.5	1.75

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR4 – 03 THEORY OF STRUCTURE – IV

Teaching Scheme per week		Credits	Examination scheme				
Lecture (L)	02	02	Theory exam		Practical/Oral exam		Total
Practical/Studio(P/S)	--	--	ISE	ESE	ICA	ESE	
Total	02	02	30	70	----	----	100

Course Outcome:

By the end of the term,

CO1.The student will be able to

CO1: Understand and apply steel structure design principles, materials, and limit state design

CO2: Design bolted and riveted connections using IS 800-2007.

CO3: Design tension and compression members using IS 800-2007.

CO4: Design steel beams using IS 800-2007. and understanding their behavior

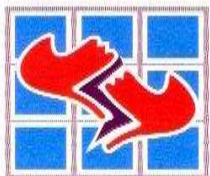
CO5: Design steel roof trusses using IS 800-2007.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	2	2	3	1	1	1	2	2	3	3	2
CO2	2	3	3	2	3	1	2	2	2	1	2	3	2
CO3	3	3	2	2	3	1	1	2	3	2	3	3	2
CO4	3	3	3	2	3	1	1	2	2	2	3	3	2
CO5	3	3	3	2	3	1	2	2	3	1	3	3	2
AVG PO ATTAINMENT	2.5	3	2.5	2	3	1	1.5	2	2.5	1.5	2.5	3	2

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR4 – 04 HISTORY OF ARCHITECTURE-III

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	02	02	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	--	--	ISE	ESE	ICA	ESE	
Total	02	02	30	70	--	--	100

Course Outcome:

At the end of semester students should be familiar:

CO1.Evolution of different architectural periods through critical analysis of appropriate example

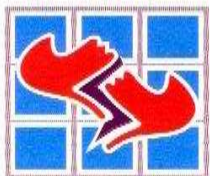
CO2.About construction technology- built form Indian Islamic architecture, Indian colonial architecture, Romanesque, Gothic, Renaissance and Baroque architecture through critical analysis of appropriate examples

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	2	0	2	1	2	2	0	0	2	3	2	3
CO2	3	2	0	2	2	1	2	1	2	2	2	3	3
AVG PO ATTAIN	2.50	2.00	0.00	2.00	1.50	1.50	2.00	0.50	1.00	2.00	2.50	2.50	3.00

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21AR4- 05: THEORY OF ARCHITECTURE

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	03	03	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	--	--	ISE	ESE	ICA	ESE	
Total	03	03	30	70	--	--	100

Course Outcome:

At the end of the semester students should be able:

CO1.To familiarized with the theories and treatise by eminent architects from antiquity to modern period.

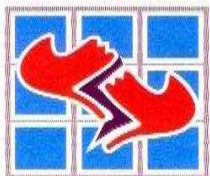
CO2.To understand and critically acclaim architectural works.

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	2	0	2	1	2	2	0	0	2	2	2	2
CO2	3	2	0	2	2	1	2	1	2	2	2	2	2
AVG PO ATTAINMENT FOR COURSE	2.50	2.00	0.00	2.00	1.50	1.50	2.00	0.50	1.00	2.00	2.00	2.00	2.00

3- High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR4 – 06 COMPUTER TECHNOLOGY IN ARCHITECTURE -II

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	03	03	ISE	ESE	ICA	ESE	
Total	04	04	--	--	50	50	100

Course Outcome:

At the end of semester students should be able to:

CO1.To use Computer operations principles and image editing through a graphical composition,

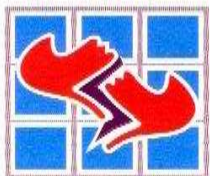
CO2.Computer aided 2D drafting and 3D modelling through simple exercises; rendering of a building to create a photo realistic image.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	0	1	2	0	1	1	3	2	3	3	2
CO2	3	2	2	1	2	0	1	1	3	3	3	2	3
AVG PO ATTAINMENT	3.00	2.50	1.00	1.00	2.00	0.00	1.00	1.00	3.00	2.50	3.00	2.50	2.50

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR4 – 07 BUILDING SERVICES -II

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	02	02	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	01	01	ISE	ESE	ICA	ESE	
Total	03	03	30	70	--	--	100

Course Outcome:

By the end of term,

CO1.The student should be equipped to design Electrical layout with Lumen calculations and

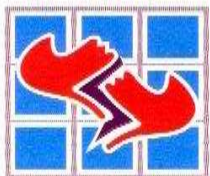
CO2.Make necessary arrangements in plans while designing for Air conditioning.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	1	2	2	0	0	2	3	2	3	2	2
CO2	3	2	1	1	3	1	1	1	3	2	2	3	3
AVG PO	3	2.5	1	1.5	2.5	0.5	0.5	1.5	3	2	2.5	2.5	2.5

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR4 – 08 CLIMATOLOGY & ENVIRONMENT-II

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	02	02	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	--	--	ISE	ESE	ICA	ESE	
Total	02	02	30	70	--	--	100

Course Outcome:

CO1.Study of design-built form in different climatic conditions & Design responding to climate.

CO2.Exhibit understanding of Thermal Control -Passive Design Strategies.

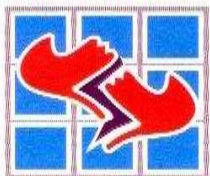
CO3.Apply the concept of Day lighting - Lighting principle/ factors, Day lighting Designing in buildings.

Course Outcomes	Target Level	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
(COs)												PSO1	PSO2	PSO3
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	2	2	2
CO1	3	3	3	1	2	0	0	1	2	3	1	2	2	2
CO2	3	3	2	2	2	3	1	1	3	3	2	3	2	3
CO3	3	3	3	2	2	2	2	1	1	3	2	1	2	2
AVG		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR4-09: ELECTIVE -IV

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	02	02	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	--	--	ISE	ESE	ICA	ESE	
Total	02	02	--	--	50	--	50

The student will opt for any one of the following courses

A. Photography B. Bamboo Architecture. C. Foreign language.

The detail syllabus for the above subjects is given hereby-

A. PHOTOGRAPHY
Course Outcome:

CO1.The ability to work in experimental and manipulative techniques, candid and contrived imagery, documentary photography, archival processing, and interpretive studies.

CO2.A familiarity with and command of materials, equipment, and library resources related to the study of photography.

B. BAMBOO ARCHITECTURE
Course Outcome:

CO1.The student should be able to identify the different types of bamboo along with their application in different forms.

CO2.The student would be capable to work out bamboo connections using various tools and techniques and develop scientific temperament and research attitude.

C.FOREIGN LANGUAGE

Language- Chinese, French, German or Any Other

Course outcome:

CO1.To have a working knowledge of the language

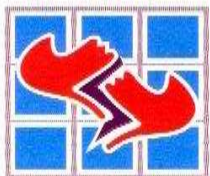
CO2.To be able to appreciate to a greater extent the nuances of communication in the language.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	0	1	2	2	1	0	0	3	2	3	0	2
CO2	3	2	1	1	3	3	1	0	3	2	3	2	2
AVG PO ATTAINMENT	3.00	1.00	1.00	1.50	2.50	2.00	0.50	0.00	3.00	2.00	3.00	1.00	2.00

3= High Correlation

2-Medium Correlation

1-Low Correlation


B. ARCH -III YEAR SEM V & VI
Course Code & Course 21 AR5 – 01: ARCHITECTURAL DESIGN – V

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	06	06	ISE	ESE	ICA	ESE	
Total	07	07	--	100	100	150	350

Course Outcome:

CO1.Apply acquainted knowledge of designing through function, technology, user comfort integration of landscape and various services along with knowledge gained in previous semesters.

CO2.Use relevant application for designing various acoustical services to integrate in planning and design.

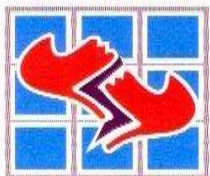
CO3.Apply acquainted knowledge of fundamental concepts in multifunctional mid-rise or campus planning.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	3	2	1	3	1	2	2	2	2.5	3	2
CO2	3	2	3	3	2	3	0	3	2	2	3	2	2
CO3	3	2	3	1	2	2	1	3	3	2	2.5	2.5	2
AVG PO ATTAINMENT	3.00	2.33	3.00	2.00	1.67	2.67	0.67	2.67	2.33	2.00	2.67	2.50	2.00

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR 5-02: BUILDING CONSTRUCTION & MATERIAL – V

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	04	04	ISE	ESE	ICA	ESE	
Total	05	05	---	---	100	150	250

Course Outcome:

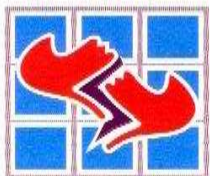
At the end of semester student should be able to Exhibit understanding of
 CO1. Foundations in loose soil,
 CO2. Door and windows of wide opening,
 CO3. Roof truss of various span along with roofing material & their installation,
 CO4. Partition walls using various materials and their installation.
 CO5. Use of non-ferrous metals and false ceiling material in buildings.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	0	2	0	0	0	1	3	0	2	3	2
CO2	3	2	1	2	2	0	2	0	2	0	3	2	1
CO3	3	1	3	2	1	0	3	1	3	1	3	3	2
CO4	3	1	3	2	1	0	2	0	3	1	3	2	2
CO5	3	2	0	2	1	2	0	1	3	0	3	2	2
AVG PO ATTAINMENT FOR COURSE	2.8	1.80	1.40	2.00	1.00	0.40	1.40	0.60	2.80	0.40	2.8	2.4	1.8

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR5 – 03 THEORY OF STRUCTURE – V

Teaching Scheme per week		Credits	Examination scheme				
Lecture (L)	02	02	Theory exam		Practical/Oral exam		Total
Practical/Studio(P/S)	--	--	ISE	ESE	ICA	ESE	
Total	02	02	30	70	----	----	100

Course Outcome:

By the end of the term, The student should be able

CO1: Understand and Apply the Fundamentals of Limit State Design (LSD)

CO2: Design of Slabs and Staircases by limit state method using IS 456-2000.

CO3: Analyse and Design Beams by limit state method using IS 456-2000.

CO4: Design of Columns Under Axial and Eccentric Loads by limit state method using IS 456-2000.

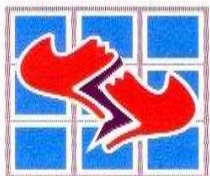
CO5: Design of Footings by limit state method using IS 456-2000.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	2	2	3	1	1	1	2	2	3	3	2
CO2	2	3	3	2	3	1	2	2	2	1	2	3	2
CO3	3	3	2	2	3	1	1	2	3	2	3	3	2
CO4	3	3	3	2	3	1	1	2	2	2	3	3	2
CO5	3	3	3	2	3	1	2	2	3	1	3	3	2
AVG PO ATTAINMENT	2.5	3	2.5	2	3	1	1.5	2	2.5	1.5	2.5	3	2

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR5-04 –HISTORY OF ARCHITECTURE –IV

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	02	02	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	--	--	ISE	ESE	ICA	ESE	
Total	02	02	30	70	--	--	100

Course Outcome:

At the end of semester students should be able:

CO1.To exhibit understanding the contemporary trends/approaches in architectural production in terms of design, practices, its perception, appreciation and

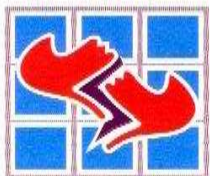
CO2.Critical discourses, can reflect and comment on contemporary architecture across the world.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	0	2	3	1	1	1	1	3	3	2	0
CO2	3	2	0	3	3	1	1	1	2	3	3	2	3
AVG PO ATTAINMENT	2.5	2.5	0	2.5	3	1	1	1	1.5	3	3	2	1.5

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR5 -05 –INTERIOR DESIGN

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	03	03	ISE	ESE	ICA	ESE	
Total	04	04	--	--	50	100	150

Course Outcome:

By the end of the semester, the student should be able to:

CO1.To prepare interior design Plans, Sections and views along with details reflecting

CO2.latest market trend including latest innovative interior materials and

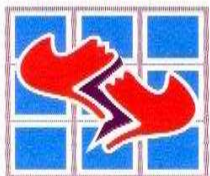
CO3.Green interior materials creating pleasant interior ambience.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	2	2	3	1	3	2	3	2	3	2	2.5
CO2	3	2	3	3	3	1	2	0	2	3	2.5	3	2
CO3	3	3	3	3	3	1	1	1	3	2	2	2.5	3
AVG PO ATTAIN	3.00	2.67	2.67	2.67	3.00	1.00	2.00	1.00	2.67	2.33	2.50	2.50	2.50

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR5 – 06: SURVEYING AND LEVELLING

Teaching Scheme per week		Credits	Examination scheme				
Lecture (L)	01	01	Theory exam		Practical/Oral Exam		Total
Practical/Studio(P/S)	02	02	ISE	ESE	ICA	ESE	
Total	03	03	--	--	50	----	50

Course Outcome:

By the end of the term, the student shall be able to

CO1.Exhibit understanding to use linear measurements, angular measurements, area measurement and determine relative positions of point on earth.

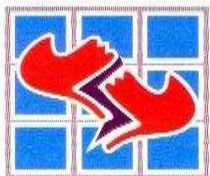
CO2.Prepare contour maps and other surveying maps.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	2	1	1	1	1	0	3	2	2	3	2
CO2	3	1	0	3	2	2	3	2	3	2	3	2	2
AVG PO ATTAINMENT LEVEL	2.50	2.00	1.0	2.00	1.50	1.50	2.00	1.00	3.00	2.00	2.50	2.50	2.00

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR5-07
BUILDING SERVICES – III

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	02	02	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	--	--	ISE	ESE	ICA	ESE	
Total	02	02	30	70	--	--	100

Course Outcome:

At the end of semester students should be able to:

CO1.Exhibit understanding concept of sound and its properties, acoustical design criteria for user

CO2.Use relevant application to control noise and acoustical treatment in various buildings

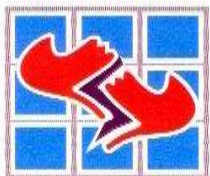
CO3.Apply acquainted knowledge of mechanical transportation systems, fire protection and fire safety in space planning

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	1	2	2	2	1	1	3	2	3	3	2
CO2	3	2	1	1	3	3	1	2	3	2	2	2	1
CO3	3	2	1	1	3	3	1	3	3	2	2	2	1
CO4	3	2	1	1	3	3	1	3	3	2	3	1	1
AVG PO ATTAIN	3	2.25	1.00	1.25	2.75	2.75	1.00	2.25	3.00	2.00	2.5	2.00	1.25

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR5-08 LANDSCAPE DESIGN

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	02	02	ISE	ESE	ICA	ESE	
Total	03	03	----	----	50	--	50

Course Outcome:

At the end of semester student will be to analysis and develop design skills for small landscape projects and to do advance analytical and planning skills for Architectural project sites.

CO1.Elements of Landscape, Land forms, water bodies, Vegetation.

CO2.Apply the acquainted knowledge about historical development French & English, Mughal, Japanese, Landscape and work of noted architects and landscape projects.

CO3.Apply the concept to select plants, taxonomy plantation & its maintenance.

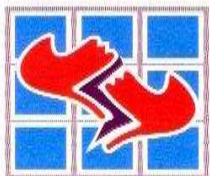
CO4.Apply acquainted knowledge in selection of Garden sculpture, furniture, hard scape.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	0	2	2	2	1	0	3	2	3	3	2
CO2	3	2	0	1	3	1	1	0	3	2	3	2	2
CO3	3	3	2	2	2	1	1	0	3	2	3	3	2
CO4	3	2	3	1	3	3	1	2	3	2	3	2	3
AVG PO ATTAINMENT	3.00	2.50	1.25	1.50	2.50	1.75	1.00	0.50	3.00	2.00	3.00	2.50	2.25

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR5-09: ELECTIVE V

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	--	--	ISE	ESE	ICA	ESE	
Total	01	01	--	--	50	---	50

The student will opt for any one of the following courses-A. **Sustainable Building Material** B. **Green**

Building and Rating Systems C. **Sociology and Architecture**

A.SUSTAINABLE BUILDING MATERIAL

Course Outcome: After successful completion of this course, student shall be able to:

CO1.Apply knowledge to select sustainable materials, selection of material, technology and use of local material.

CO2.Exhibit understanding of material as per green rating systems and green certified products

B. GREEN BUILDING AND RATING SYSTEMS

Course Outcome: After successful completion of this course, student shall be able to:

CO1.Apply acquaint knowledge of the basic concept of green buildings; green rating systems around the world;

CO2.Apply criteria involved in the green rating systems.

CO3.Exhibit understanding for documentation of project for green Building certification.

C. SOCIOLOGY AND ARCHITECTURE

Course Outcome: After successful completion of this course, student shall be able to:

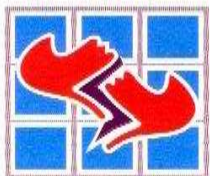
CO1.Exhibit understanding of basic sociological concepts and learn their applications in space planning and architectural design.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	1	2	2	2	1	2	3	2	3	3	2
CO2	3	2	0	1	3	3	1	3	3	2	3	2	2
CO3	3	3	0	2	2	2	1	1	3	2	3	2	2
AVG PO ATTAINMENT	3.00	2.67	0.33	1.67	2.33	2.33	1.00	2.00	3.00	2.00	3.00	2.33	2.00

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR5 – 10 ELECTIVE- VI

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	--	--	ISE	ESE	ICA	ESE	
Total	01	01	--	--	50	--	50

The student will opt for any one of the following courses

A. Architectural Journalism B. Earthquake Resisting Structures C. Basics of Archaeology
A. ARCHITECTURAL JOURNALISM

Course Outcome: After successful completion of this course, student shall be able to:

CO1.Apply knowledge on fundamentals of writing, explaining of various strategies and design narratives.

CO2.Exhibit understanding of Contemporary Architectural Journalism by the students.

CO3.Apply knowledge on Regional, National, and international discussion forums.

B. EARTHQUAKE RESISTING STRUCTURES

Course Outcome: After successful completion of this course, student shall be able to:

CO1.Develop ability to understand the formation and causes of earthquakes

CO2.Design of buildings and services to resist Earthquakes.

CO3.Exhibit understanding of the various types of construction details to be adopted in a seismic prone area.

C. BASICS OF ARCHEOLOGY

Course Outcome: After successful completion of this course student shall be able to;

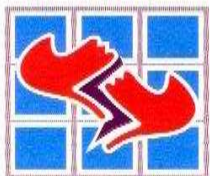
Exhibit understanding on basics of the nature, development and value of archaeology as a discipline.

Course Outcomes (COs)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSO)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	1	2	2	2	1	2	3	2	3	3	2
CO2	3	2	1	1	3	3	1	0	3	2	3	2	2
CO3	3	3	1	2	2	2	1	0	3	2	3	3	2

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR6 – 01 ARCHITECTURAL DESIGN – VI

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	06	06	ISE	ESE	ICA	ESE	
Total	07	07	--	--	100	150	250

Course Outcome:

At the end of semester students shall be able to

CO1.Exhibit understanding of fundamental concepts of services and its integration in vertical planning in design process.

CO2.Apply the proficiency to integrate landscape planning in high-rise, vertical planning for public buildings and design.

CO3.Use relevant application to design public building considering various parameter of design along with knowledge gained in previous semester.

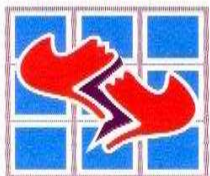
CO4.Apply acquainted knowledge of social, economic, climatic, geographical context to design multifunctional high-rise/ vertical public domain buildings of function like, intuitional project, administration service-oriented building.

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	2	3	2	1	2	1	2	2	1	2.5	3	2
CO2	3	2	3	3	2	2	1	2	2	2	3	2	2
CO3	2	2	2	3	3	1	1	3	3	0	2.5	2.5	2
CO4	2	2	3	3	3	2	1	3	3	1	2.5	2	3
AVG PO ATTAINMENT	2.25	2.00	2.75	2.75	2.25	1.75	1.00	2.50	2.50	1.00	2.63	2.38	2.25

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR6-02: BUILDING CONSTRUCTION AND MATERIAL-VI

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	04	04	ISE	ESE	ICA	ESE	
Total	05	05	---	---	100	150	250

Course Outcome –

At the end of semester student able to exhibit understanding on

CO1.Construction of underground structure and preventive measures against dampness, soil retention etc.

CO2.Construction with specific reference to retaining soil.

CO3.Analytical skill in facade development by curtain wall and cladding.

CO4.Analytical and logical sequence in thinking, through site visit & material study.

CO5.The construction system for vertical means of transport.

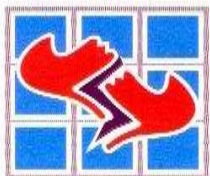
CO6.The construction system adopted for low cost and sustainable practices.

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	0	2	3	3	2	1	3	1	2	3	1
CO2	3	2	0	3	3	2	3	2	2	2	3	2	2
CO3	3	3	3	3	3	3	3	1	3	3	3	3	3
CO4	3	2	1	1	3	1	2	1	3	1	3	2	1
CO5	3	1	2	1	3	2	2	2	3	1	3	1	2
CO6	3	1	1	3	3	3	1	2	3	3	3	3	3
AVG PO ATTAINMENT FOR COURSE	2.83	2.00	1.17	2.17	3.00	2.33	2.17	1.50	2.83	1.83	2.83	2.33	2.0

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21AR6-03 THEORY OF STRUCTURE – VI

Teaching Scheme per week		Credits	Examination scheme				
Lecture (L)	02	02	Theory exam		Practical/Oral exam		Total
Practical/Studio(P/S)	--	--	ISE	ESE	ICA	ESE	
Total	02	02	30	70	----	----	100

Course Outcome:

By the end of the term, the student develops skills

CO1: To analyse and design cantilevered and counterfort retaining walls, considering stability, safety, and functional requirements.

CO2: To design circular, square, and rectangular ground storage reservoirs following the design criteria and permissible stresses as per IS 3370.

CO3: To understand the types, analysis, and design of pile and raft foundations based on soil conditions and loading requirements.

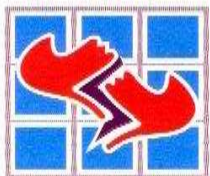
CO4: To analyse and design combined footings to support multiple columns, ensuring stability and load distribution in compliance with design principles.

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	2	3	2	1	3	3	3	1	3	2	2
CO2	3	3	2	3	2	1	3	3	3	1	3	3	2
CO3	3	3	2	3	2	1	3	3	3	1	3	3	2
CO4	3	3	2	3	2	2	3	3	3	1	3	3	2
AVG PO ATTAINMENT	3	3	2	3	2	1.25	3	3	3	1	3	2.75	2

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR6-04: WORKING DRAWING- I

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	03	03	ISE	ESE	ICA	ESE	
Total	04	04	--	--	50	100	150

Course Outcome:

By the end of the term students should be equipped

CO1.To prepare working drawings for an architectural Load bearing project necessary for execution on site

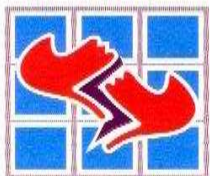
CO2.Understand its importance in tender document.

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	2	2	3	0	2	1	3	2	3	3	2
CO2	3	2	3	3	3	1	2	1	2	3	3	2	2
AVG PO ATTAINMENT	3	2.5	2.5	2.5	3	0.5	2	1	2.5	2.5	3	2.5	2

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR6-05: URBAN PLANNING

Teaching Scheme per week		Credits	Examination scheme				
Lecture (L)	02	02	Theory exam		Practical/Oral exam		Total
Practical/Studio (P/S)	--	--	ISE	ESE	ICA	ESE	
Total	02	02	30	70	----	----	100

Course Outcome:

At the end of semester students should develop understanding on

CO1.Evolution of Town Planning and Trends in urbanization in post-independence India;

CO2.Development plans, Urban and Rural Housing, Zoning and other regulations

CO3.Land-use planning and zoning

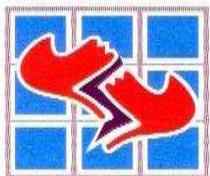
CO4.Infrastructure in city planning.

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	0	2	3	0	0	0	3	1	3	2	3
CO2	3	1	0	3	3	0	2	2	2	2	2	3	2
CO3	3	2	2	3	3	3	3	3	3	1	3	3	2
CO4	3	3	2	3	3	2	2	0	3	2	2	3	3
AVG PO ATTAINMENT LEVEL	2.75	2.25	1.00	2.75	3.00	1.25	1.75	1.25	2.75	1.50	2.75	2.25	2.00

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR6 – 06 ESTIMATING SPECIFICATIONS AND COSTING – I

Teaching Scheme per week		Credits	Examination scheme				
Lecture (L)	03	03	Theory exam		Practical/Oral exam		Total
Practical/Studio(P/S)	--	--	ISE	ESE	ICA	ESE	
Total	03	03	30	70	----	----	100

Course Outcome:

By the end of term,

CO1.The student will be equipped to prepare detailed estimate for simple load bearing structure (excluding reinforcement details) along with

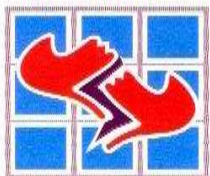
CO2.Determination of final project cost of building considering all required aspects.

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	2	2	3	2	2	0	3	2	3	2	2
CO2	3	2	3	3	3	0	0	1	2	1	2	3	3
AVG PO ATTAINMENT	3	2.5	2.5	2.5	3	1	1	0.5	2.5	1.5	2.5	2.5	2.5

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR6-07: BUILDING SERVICES – IV

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	02	02	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	-	-	ISE	ESE	ICA	ESE	
Total	02	02	30	70	--	--	100

Course Outcome:

The end of semester student should develop understanding about –

CO1.Sewage Treatment plant and its layout, Waste water treatment plant.

CO2.Disposal of Sewage in un sewerred areas.

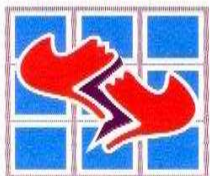
CO3.Methods of design and construction of Swimming pool and details.

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	1	2	2	2	1	1	3	2	3	3	2
CO2	3	2	1	1	3	3	1	2	3	2	2	2	1
CO3	3	2	1	1	3	3	1	3	3	2	2	2	1
CO4	3	2	1	1	3	3	1	3	3	2	3	1	1
AVG PO ATTAINMENT	3	2.25	1	1.25	2.75	2.75	1	2.75	3	2	2.5	2	1.25

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR6 – 08: SITE PLANNING

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	--	--	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	03	03	ISE	ESE	ICA	ESE	
Total	03	03	--	--	100	---	100

Course Outcome:

By the end of the course student should be able to:

CO1.Prepare site analysis diagram and mapping based on site utilities, infrastructure

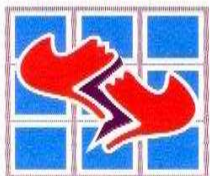
CO2.Prepare building siting and planning according to analysis done

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	3	2	1	2	2	1	3	1	3	2	2
CO2	3	2	3	3	1	3	1	1	2	1	2	3	3
AVG PO ATTAINMENT	3	2.5	3	2.5	1	2.5	1.5	1	2.5	1	2.5	2.5	2.5

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR6 – 09: ELECTIVE VII

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	--	--	ISE	ESE	ICA	ESE	
Total	01	01	--	--	50	--	50

The student will opt for any one of the following courses

**A. Prefabricated Construction B. Digital Graphics and Arts. C.Road Safety and Civic Sense
PREFABRICATED CONSTRUCTION**

Course Outcome: After successful completion of this course, student should be able to:

CO1.Do layout of factory and stages of loading in precast construction.

CO2.Apply acquaint knowledge about panel systems, slabs, connections used in precast construction and will be in a position to design the elements.

CO3.Apply acquaint knowledge about types of floor systems, stairs and roofs used in precast construction.

CO4.Apply acquaint knowledge about types of walls used in precast construction, sealants, design of joints.

CO5.Apply acquaint knowledge about components in industrial building.

B. DIGITAL GRAPHICS AND ART

Course Outcome: After successful completion of this course:

CO1.Students will become conversant of communication through digital presentations.

CO2.Students will explore digital art.

C. ROAD SAFETY AND CIVIC SENSE

Course Outcome: After successful completion of this course students shall be:

CO1.Apply concepts, principles, tools and aids of Road Safety and Civic Sense in design.

CO2.Able to inculcate the practice of safe road behaviour and civic sense among them.

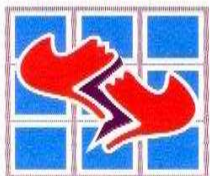
CO3.Better citizens and respond to urban design challenges.

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Co laborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	1	2	3	3	3	3	3	3	2	3	3
CO2	3	2	1	3	3	2	3	3	2	3	3	2	3
CO3	3	3	1	3	3	3	3	3	3	3	3	3	3
CO4	3	3	1	3	3	3	3	3	3	3	3	3	3
CO5	2	3	1	3	3	2	2	2	3	2	2	3	2
AVG PO ATTAINMENT LEVEL	2.60	2.80	1.00	2.80	3.00	2.60	2.80	2.80	2.80	2.80	2.60	2.80	2.80

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course 21 AR6 – 10: ELECTIVE VIII

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture/ week - L	01	01	Theory Exam		Practical oral exam		Total
Practical/Studio -P/S	--	--	ISE	ESE	ICA	ESE	
Total	01	01	--	--	50	--	50

The student will opt for any one of the following courses

A. Hospitality Design B. Disaster Mitigation and Management C. Architectural Design with Structural Steel

A. HOSPITALITY DESIGN

Course Outcome: After successful completion of this course, student should be able

CO1.To design for various typologies in the hospitality sector.

B. DISASTER MITIGATION AND MANAGEMENT

Course Outcome: After successful completion of this course, student should be able to:

CO1.Exhibit understanding of various types of occurrences of disaster and their mitigation through design interventions.

CO2.Exhibit understanding of post disaster recovery and rehabilitation.

C.ARCHITECTURAL DESIGN WITH STRUCTURAL STEEL

Course Outcome: By the end of semester students shall be able to deal with

CO1.The application of steel as structural material and its use in buildings of simple and complex nature.

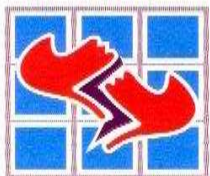
CO2.Advance applications of steel in buildings.

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	1	2	3	3	3	3	3	3	2	3	3
CO2	3	2	1	3	3	2	3	3	2	3	3	2	3
AVG PO ATTAINMENT LEVEL	2.50	2.50	1.00	2.50	3.00	2.50	3.00	3.00	2.50	3.00	2.50	2.50	3.00

3= High Correlation

2-Medium Correlation

1-Low Correlation


B. ARCH FOURTH YEAR SEM VII & SEM VIII (2015 PATTERN)
Course Code & Course AR 7 – 01: ARCHITECTURAL DESIGN –VII

Teaching Scheme/week		Credit	Examination Scheme				
Lecture-L	--	--	Theory Exam		Practical/ Oral Exam		Total
Practical/Studio P/S	08	04	ISE	ESE	ICA	ESE	
Total	08	04	--	--	150	100	250

Course Outcome

At the end of the course student should be able to

CO1.To develop proficiency to design complex buildings and campus involving analytical study of space, economical climatic and cultural context

CO2.To exhibit understanding of various fundamental concepts involved in architectural design, including function, construction, material, climate, social, cultural and economic factors, interior and landscape planning, services etc.

CO3.To design the programme for of various public buildings, special purpose buildings, intuitional building, sports and building for entertainment

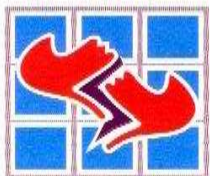
CO4.To use relevant application for design of multi-layer approach in design process involving user end comfort involving knowledge of allied subjects

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	3	2	1	3	3	0	2	2	2.5	3	2
CO2	3	2	3	3	2	2	3	1	2	3	3	2	2.5
CO3	3	3	2	3	3	2	3	2	3	3	2.5	2	2.5
CO4	3	3	2	3	3	2	2	1	3	2	3	2.5	3
AVG PO ATTAINMENT	2.75	2.75	2.50	2.75	2.25	2.25	2.75	1.00	2.50	2.50	2.75	2.38	2.50

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course AR7– 02: Professional Practice–I

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture-L	03	03	Theory Exam		Practical/ OralExam		Total
Practical/Studio P/S	--	--	ISE	ESE	ICA	ESE	
Total	03	03	30	70	---	---	100

Course Outcome

At the end of semester

CO1.The student with the role & stature of the Architect in the society and understand duties, liabilities, responsibilities & ethics as a professional.

CO2.Able to apply the concepts of the scope & avenues of Professional Architectural services and the demands & mode of Professional Practice field.

CO3.Students will exhibit understanding of the Council of Architecture, Architect's Act,

CO4.To apply the concepts of Architect's office administration, documentation& other procedures of office along with the Laws applicable to Architects

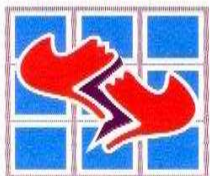
CO5.Architecture as a professional practice, its duties, responsibilities and liabilities, Tender, Contract etc.

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	2	0	0	3	3	2	3	3	1	2	2	3
CO2	3	1	0	0	3	2	3	3	2	2	1	2	2
CO3	3	3	0	0	3	3	0	3	0	0	1	3	3
CO4	3	2	0	1	3	1	2	0	3	1	1	3	2
CO5	3	1	0	0	3	3	2	3	3	1	1	3	3
AVG PO ATTAINMENT S	2.80	1.80	0.00	0.20	3.00	2.40	1.80	2.40	2.20	1.00	1.20	2.60	2.60

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course AR7– 03: WORKING DRAWING-II

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture-L	--	---	Theory Exam		Practical/ Oral Exam		Total
Practical/Studio P/S	04	2	ISE	ESE	ICA	ESE	
Total	04	2	---	----	100	50	150

Course Outcome

CO1

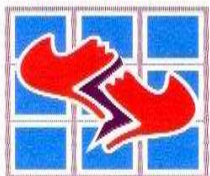
CO2.

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	2	2	3	0	2	1	3	2	3	3	2
CO2	3	2	3	3	3	1	2	1	2	3	3	2	2
AVG PO ATTAINMENT LEVEL	3	2.5	2.5	2.5	3	0.5	2	1	2.5	2.5	3	2.5	2

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course AR7-04: Project-I
(ARCHITETURAL DESIGN DISSERATATION)

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture-L	--	--	Theory Exam		Practical/ Oral Exam		Total
Practical/Studio P/S	02	01	ISE	ESE	ICA	ESE	
Total	02	01	--	---	50	50	100

Course Outcome

The final outcome shall include a formal submission of

CO1-Written Synopsis (key ideas on the topic including premise, description/ justification and conclusion) and

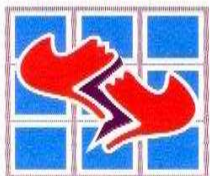
CO2-Thesis Proposal, clearly highlighting/explaining the Project type; architectural Proposition/ Premise; Site/ Location; Scope and Limitations; Program

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	2	2	3	3	2	3	3	2	2.5	3	2
CO2	3	2	2	3	3	3	2	3	2	3	3	2.5	2.5
AVG PO ATTAINMENT LEVEL	3.00	2.50	2.00	2.50	3.00	3.00	2.00	3.00	2.50	2.50	2.75	2.75	2.25

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course AR7-05: Building Construction& Material–VII

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture-L	--	--	Theory Exam		Practical/ Oral Exam		Total
Practical/Studio P/S	06	03	ISE	ESE	ICA	ESE	
Total	6	03	--	---	100	50	150

Course Outcome

At the end of semester student able to

CO1.Exhibit understanding of various technologies adopted in construction of large span structures, earthquake resisting structures, building repair and maintenance and demolition of structures.

CO2.Vertical communication in the buildings, fire safety in buildings,

CO3.To apply acquainted knowledge of principles of low cast building material and technology and various research organizations working on it.

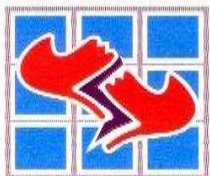
CO4.To use relevant applications of various false ceiling materials, sound insulating materials, epoxy materials their applications in building industry.

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	2	1	2	2	0	0	1	3	3	2	2	3
CO2	3	1	1	3	2	2	2		2	3	3	1	2
CO3	3	2	1	3	2	3	2	3	3	3	3	2	3
CO4	3	1	2	3	1	3	2	3	3	2	3	1	2
AVG PO ATTAINMENT FOR COURSE	2.75	1.5	1.25	2.75	1.75	2	1.5	1.75	2.75	2.75	2.75	1.5	2.5

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course AR7-06: THEORY OF STRUCTURE VII

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture-L	03	03	Theory Exam		Practical/ Oral Exam		Total
Practical/Studio P/S	--	--	ISE	ESE	ICA	ESE	
Total	03	03	30	70	--	---	100

Course Outcome

At the end of the semester students will exhibit understanding on

CO1.Study of different types of slabs, different types of pile foundations and study of shells and plates

CO2.Design of water tanks

CO3.Apply the concepts of different prestressing techniques

CO4.Apply the concepts of gantries and cranes and of frames

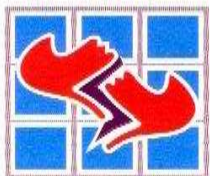
CO5.Apply the concepts of earthquake resistant construction techniques

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	2	1	2	2	0	0	0	3	3	3	3	2
CO2	3	1	2	3	2	2	2	0	2	3	3	3	2
CO3	3	2	0	3	2	3	2	3	3	3	3	3	2
CO4	3	1	0	3	1	3	2	3	3	2	3	3	2
CO5	3	1	0	3	2	3	1	0	3	3	3	3	2
AVG PO ATTAINMENT	3	1.5	1	3	2	2.5	2	1.5	2.5	3	3	3	2

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course AR7-07: ESTIMATING SPECIFICATIONS AND COSTING -II
Course Outcome

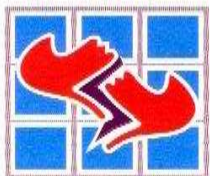
- At the end of semester student will be able to exhibit understanding on
- CO1.To prepare estimate calculating detailed quantities of building items of building plan using current D.S.R.
- CO2.Prepare outline specification, estimates for RCC buildings.
- CO3.To enable students participate and be a part of tendering

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	2	2	3	2	2	0	3	2	3	3	2
CO2	3	2	3	3	3	0	0	1	2	1	3	3	2
CO3	3	2	3	3	3	0	0	1	2	1	2	3	3
AVG PO ATTAINMENT	3.00	2.33	2.67	2.67	3.00	0.67	0.67	0.67	2.33	1.33	2.67	3.00	2.33

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course AR7-08: ENVIRONMENTAL DESIGN

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture-L	--	--	Theory Exam		Practical/ Oral Exam		Total
Practical/Studio P/S	05	2.5	ISE	ESE	ICA	ESE	
Total	05	2.5	--	---	100	50	150

Course Outcome

At the end of the semester student will gain knowledge about

CO1.To exhibit understanding of existing immediate Environmental and analyse it.

CO2.To exhibit understanding of Morphological approach of study of existing pocket of city.

CO3.To use relevant application for volumetric analysis and building bye laws.

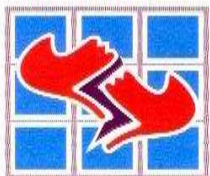
CO4.Apply reliability for Planning of residential areas.

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	3	2	1	3	3	0	2	2	2.5	3	2
CO2	3	2	3	3	2	2	3	1	2	3	3	2.5	2.5
CO3	3	3	2	3	3	2	3	2	3	3	2.5	2.5	2.5
CO4	3	3	2	3	3	2	2	1	3	2	3	2.5	3
AVG PO ATTAINMENT LEVEL	2.75	2.75	2.50	2.75	2.25	2.25	2.75	1.00	2.50	2.50	2.75	2.63	2.50

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course AR8 -01: Project II

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture-L	--	--	Theory Exam		Practical/ Oral Exam		Total
Practical/Studio P/S	08	4	ISE	ESE	ICA	ESE	
Total	08	4	--	---	150	150	300

Course Outcome

At the end of semester students shall be able

CO1.To culminate the undergraduate studies and shall display the capability of the candidate to conceive/ formulate a design project and provide solution.

CO2.It shall consist of Design Demonstration i.e., formulation of design programme, site investigation and site selection and site analysis, Design Concept and Conceptual Drawings.

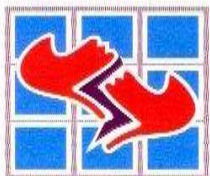
CO3.To apply acquainted knowledge to prepare an Independent conceptual solution to the programme finalized by the student in semester VII.

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	3	2	1	3	3	0	2	2	2.5	3	2
CO2	3	2	3	3	2	2	3	1	2	3	3	2.5	2.5
CO3	3	3	2	3	3	2	3	2	3	3	2.5	2	2.75
AVG PO ATTAINMENT	2.67	2.67	2.67	2.67	2.00	2.33	3.00	1.00	2.33	2.67	2.67	2.50	2.42

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course AR8– 02: Professional Practice II

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture-L	03	03	Theory Exam		Practical/Oral Exam		Total
Practical/Studio P/S	--	---	ISE	ESE	ICA	ESE	
Total	03	03	30	70	---	---	100

Course Outcome

At the end of semester, the student shall be able to

CO1-Exhibit understanding on Architectural competitions & other allied professional organizations.

CO2- Acquire knowledge of easement rights and their significance in architectural planning.

CO3-Explore ethical issues in arbitration and dispute resolution in the context of architecture.

CO4-Gain knowledge of the laws and procedures surrounding land acquisition.

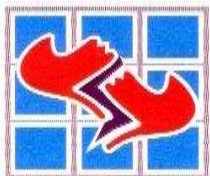
CO5-Practice understanding the legal matters and the apply the knowledge in profession

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	0	0	1	3	3	1	2	2	2	3	2
CO2	3	2	3	0	2	2	3	1	2	3	3	2	2
CO3	3	3	0	0	3	2	3	2	3	3	3	3	2
CO4	3	3	0	0	0	2	2	1	3	3	3	3	2
CO5	3	3	0	0	0	2	2	3	3	3	3	3	3
AVG PO ATTAINMENT	2.80	2.80	0.60	0.00	1.20	2.20	2.60	1.60	2.60	2.80	2.80	2.80	2.20

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course AR8-03: PROJECT MANAGEMENT

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture-L	04	04	Theory Exam		Practical/ Oral Exam		Total
Practical/Studio P/S	--	---	ISE	ESE	ICA	ESE	
Total	04	04	30	70	---	---	100

Course Outcome

At the end of course students shall be

CO1.Exhibit the understanding fundamental concepts, of Project Management.

CO2.To apply the acquainted knowledge to various characteristics of projects and different aspects of management.

CO3.Traditional Management system Gantt's approach, load-charts, progress-chart, bar-chart, merits and limitations.

CO4.To apply suitable concepts of project programming.

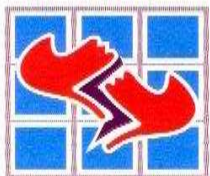
CO5.To Use of computer and programming in project management.

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	0	2	1	3	0	0	2	2	2	3	3
CO2	3	2	0	3	2	2	0	1	2	2	2	3	2
CO3	3	3	0	3	3	2	3	2	3	2	1	3	2
CO4	3	3	1	3	3	2	0	1	3	2	2	3	2
CO5	3	3	0	3	3	0	0	1	3	2	2	3	1
AVG PO ATTAINMENT	2.8	2.8	0.2	2.8	2.4	1.8	0.6	1	2.6	2	1.8	3	2

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course AR8-04: ELECTIVE-I

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture-L	---	---	Theory Exam		Practical/ Oral Exam		Total
Practical/Studio P/S	04	02	ISE	ESE	ICA	ESE	
Total	04	02	---	---	100	100	200

The student will opt for any one of the following Subject-

The electives offered are

Valuation of immovable properties

Course Outcomes-After successful completion of this course, student will be able to:

CO1.Apply acquainted knowledge of valuation of properties and land in the profession

CO2.Apply acquainted knowledge of the basic approaches of valuation of the immovable property.

Contemporary architecture

Course Outcomes-After successful completion of this course, student will be able to:

CO1.Apply acquainted knowledge of contemporary issues, trends in Indian and Western Architecture in terms of ideas and directions

Waste water management

Course Outcomes-After successful completion of this course, student will be able to:

CO1.Exhibit understanding on water management plan in small building and reuse of waste water

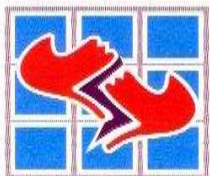
CO2.Exhibit understanding on Waste water Management, Processes Treatment types: Conventional and Non-conventional treatment systems.

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	1	2	3	3	3	3	3	3	1	2	3
CO2	3	2	1	3	3	2	3	3	2	3	1	2	3
AVG PO ATTAINMENT	2.5	2.5	1	2.5	3	2.5	3	3	2.5	3	1	2	3

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course AR8-05: ELECTIVE-II

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture-L	--		Theory Exam		Practical/ Oral Exam		Total
Practical/Studio P/S	04	02	ISE	ESE	ICA	ESE	
Total	04	02	---	---	100	100	200

Course Outcomes-

The student will opt for any one of the following Subjects. The electives offered are

A. Design with Climate B. Architectural Conservation C. Intelligent Building

A. Design with Climate
Course Outcomes-

After successful completion of this course, student will be able to:

CO1.Evaluate the practices in solar passive design and climate responsive design

CO2.Apply acquainted knowledge of sizing and calculations of Bioclimatic Design Strategies.

CO3.Apply concepts in design with respect to context and local climate.

B. Architectural Conservation

Course Outcomes-After successful completion of this course, student will be able to:

CO1.Demonstrate comprehensive understanding about architectural conservation.

CO2.Exhibit understanding of conservation architects in historic buildings.

CO3.Apply different ways and methodology of architectural conservation.

C. Intelligent Building

Course Outcomes-After successful completion of this course, student will be able to:

CO1.Apply the concepts studied in their plans.

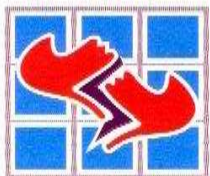
CO2.Apply the concepts of computerized control systems, network designed to monitor and control various systems for lighting, ventilation, alarms & security in their Architectural Design.

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	1	2	3	3	3	3	3	3	3	2	1
CO2	3	2	1	3	3	2	3	3	2	3	2	3	1
CO3	3	3	1	3	3	3	3	3	3	3	3	2	1
AVG PO ATTAINMENT	2.67	2.67	1	2.67	3	2.67	3	3	2.67	3	2.67	2.33	1

3= High Correlation

2-Medium Correlation

1-Low Correlation


B. ARCH -VTH YEAR SEM- IX-X
Course Code & Course AR9-01: PROFESSIONAL TRAINING

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture-L	--		Theory Exam		Practical/Oral Exam		Total
	----	----	-				
Practical Training with COA Registered Architect P/S	40	20	ISE	ESE	ICA	ESE	
Total	40	20	--	--	200	200	400

Course Outcome:

At the end of the course student shall be able to

CO1.Apply and exhibit the understanding in real life situation of Professional Practice and to work with Ethical and professional responsibilities.

CO2.To use relevant knowledge learned from the field/ industry in the practice.

CO3.To understand the importance of documentation and records.

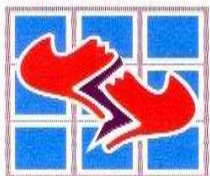
CO4.To apply acquainted knowledge in designing and detailing in the Architectural Design Project in the X Semester.

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	1	2	0	3	2	3	3	2	0	3	1	2
CO2	2	0	0	3	3	1	0	0	3	3	2	0	3
CO3	3	1	2	1.5	3	3	2	0	2	2	3	1	2
CO4	3	1	3	0	3	2	2	3	2	3	3	1	3
AVG PO ATTAINMENT	2.75	0.75	1.75	1.13	3.00	2.00	1.75	1.50	2.25	2.00	2.75	0.75	2.50

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course AR10-01: STRUCTURAL THESIS

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture-L	--	--	Theory Exam		Practical/Oral Exam		Total
Practical/Studio P/S	10	5	ISE	ESE	ICA	ESE	
Total	10	5	--	--	100	100	200

Course Outcome:

By the end of the course students shall be

CO1.To do analysis and structural design of each structural component of building along with structural drawings.

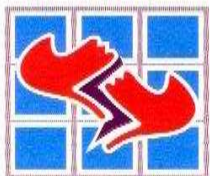
CO2.A report including all design data, analysis and structural design along with structural drawings

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	1	2	3	3	3	3	3	3	3	3	3
CO2	3	3	1	1	3	3	3	3	3	3	3	3	3
AVG PO ATTAINMENT	3	3	1	1.5	3	3	3	3	3	3	3	3	3

3= High Correlation

2-Medium Correlation

1-Low Correlation


Course Code & Course AR10-02: PROJECT-III

Teaching Scheme Per week		Credit	Examination Scheme				
Lecture-L	-- ----	-- ----	Theory Exam		Practical/Oral Exam		Total
Practical/Studio P/S	10	5	ISE	ESE	ICA	ESE	
Total	10	5	--	--	200	200	400

Course Outcome:

After successful completion of the course, student shall be able to

CO1.Showcase the knowledge gained in all the semester.

CO2.Display the capability to conceive/ formulate a design project and provide solution, aptly demonstrated through supporting research.

CO3.Best suitable design with reference to site context

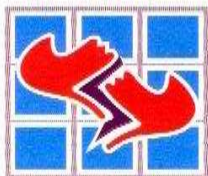
CO4.Prepare set of presentation drawings, working drawings, detailed drawings and study model

Course Outcome (Cos)	Knowledge	Principles and Theory	Design/ Creativity	Case Study and Data Collection	Practice/ LLL	Society/Community/Collaborative Working	Team/Inclusivity	Ethics	Technology Know How	Ability to Choose Area of Specification of Practice	Programme Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	3	0	1	0	0	3	2	2	2.5	3	2.5
CO2	3	2	3	3	2	2	3	1	2	3	2.5	3	3
CO3	3	3	2	3	3	2	3	2	3	3	2	3	2.5
CO4	3	3	3	3	3	2	2	1	3	3	3	2	2.5
AVG PO ATTAINMENT	2.75	2.75	2.75	2.25	2.25	1.50	2.00	1.75	2.50	2.75	2.50	2.75	2.63

3= High Correlation

2-Medium Correlation

1-Low Correlation



**COLLEGE OF
ARCHITECTURE
SOLAPUR**

Recognised by
COA New Delhi and
Affiliated to Solapur
University, Solapur

Sr.No. 63/1A, F.P.No.34,
Ujani Colony, Behind T.V.Tower,
Kumtha Naka, Solapur-413003.
M a h a r a s h t r a

Tele/fax No. 0217-2603950,2602188.
E-mail- archcoa_ssm@rediffmail.com
archcoa.ssm@gmail.com
Website-www.archsolapur.org