#### SEMESTER - III

S. No.	Course Code	Subjects	Period	Per Week	Total Teaching	Distribution of Marks										
					Hours						eory Practical Block			Total		
								End Sem exam	M	S T	Total theory block	Exam Duration (Hrs.)		Term work/ Sessional	Total Practical block	
							Theory Quiz									
			L	STUDIO / T	Total Contact Hour		Ι				Π			I+II		
1	AR211	Design-III	3	7	10	150	30	20	200	12	50	100	150	350		

1. The aim of the course is to emphasis and evolve the methodology for architectural design with reference to the previous knowledge of function and aesthetics. The design should highlight the clear approach to the design with idea (concept), analysis, synthesis and clarity of details and architectural expression with use of appropriate graphic presentation techniques.

2. The design should be done with a sensitivity towards surroundings i.e. traditional and vernacular architecture, construction techniques and environment.

3. The problems should include the small design exercises of nursery school, restaurants, small nursing homes, small offices, exhibition pavilions, canteens, kiosks etc.

4. One time problem is to be attempted of 12 hrs. duration in class other than regular design problems.

Note: The sessionals will be in the form of drawings and models along with Technical report for the design dealt. The evaluation should be done in intermediate reviews consisting of internal and external experts. There should be regular site visits to buildings dealt in studio problems. Documentation with the help of photographs, slides, video etc.

LIST OF TEXT AND REFERENCE BOOKS:

AR211 - Design-III

1. "Planning by E. & O.E". Lliffe book Ltd., London.

2. D.E. CHIRAIRA & CALLENDAR, "Times Saver Standard for Building Types".

3. RUDOLF HERGE, "Nuferts Architects Data", Cross By Lockwod & Sons Ltd.

4. EDWARD D. MILLS, "Planning the Architects Hand Book". 5. National Building Code.

#### SEMESTER - III

S. No.	Course Code	Subjects	Period	Per Week	Total Teaching	Distribution of Marks								
	coue				Hours		Block	Theory	F	Total				
					End Sem exam	М	S T	Total theory block	Exam Duration (Hrs.)		Term work/ Sessional	Total Practical block		
							Theory	Quiz						
			L	STUDIO / T	Total Contact Hour		Ι				Π			I+II
2	AR212	Graphics- III	-	7	7	-	30	20	50	-	50	100	150	200

1. Introduction to basic understanding of application software, such as Auto cad, Revit, Archicad.

2. Advance Computer Aided Architecture Drafting (in various projections).

3. Architecture or allied project presentation technique.

4. Graphical analysis of development project through computer.

5. 3-D modeling, animation and advance rendering techniques with the help of computers.

Note: Sessionals should be in the form of small exercises and written assignments.

#### LIST OF TEXT AND REFERENCE BOOKS:

AR212 - Graphics- III

1. SUBRAMANIUM, "Introduction to Computer Vol. 1 & 2, Tata McGraw Hill.

2. MANOHAR CHANDWANI & ABHAY JAIN & N.S. CHANDWANI, "Elements of Computer Science", Jain Brothers, Karol Bag, New Delhi.

3. CHARLES SIEGAL, "Teach Yourself " 'c' "BPB" New Delhi.

4. CHARLES SIEGAL, "Mastering Foxpro", "BPB" New Delhi.

5. SCHAUMS SERIES, "Computer Programming".

6. Auto CAD reference Manual.

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S. No.	Course Code	Subjects	Period	l Per Week	Total Teaching	Distribution of Marks								
	code				Hours		Theory	Block		Theory	y Practical Block			Total
				End Sem exam	M	S T	Total theory block	Exam Duration (Hrs.)	End Sem	Term work/ Sessional	Total Practical block			
							Theory	Quiz						
		L STUDIO / Tota T Conta Hour					]	[			Π			I+II
3	AR213	Building Construction II	3	4	7	100	30	20	150	3	50	50	100	250

1 Timber floor : Single , double, and triple

- 2 Timber Roof : flat , lean to roof , couple , close couple
- 3 Trussed roof: (timber) King Post, Queen Post, builtup truss (timber and concrete as per C. B. R. T)
- 4 Balconies, Stairs and canopies (timber)
- 5 Built in fittings & furniture: Wardrobe , Cupboardf , Shelf , Showcases in houses.

Minimum 8 sheets shall be prepared out of which 2 may be in sketche form ( scaled )

LIST OF TEXT & REFERENCE BOOKS:

AR 213 : Building Construction II

- 1 W. B. Mckay "Building Construction Vol 1 to 4 " Orient Longman
- 2 R. Chud , Publication Data 1990
- 3 Dr. B. C. Punamia "Building Copnstruction " A. Sauraby & co. Pvt Ltd.
- 4 R. Berry "Construction of Buildings "The English Language Book Society London 1976
- 5 Mitchel " Advanced Building Construction " Allied Publishers Pvt. Ltd.

### SEMESTER - III

S. No.	Course Code	Subjects	Period	l Per Week	Total Teaching	Distribution of Marks								
	Code				Hours		Theory	Block		Theory	F	Total		
						End Sem exam	M	S T	Total theory block	Exam Duration (Hrs.)		Term work/ Sessional	Total Practical block	
							Theory Quiz							
					Total Contact Hour		I		П			I+II		
4		History of Architecture II	3	1	4	50	10	10	70	3		30	30	100

This course is studied in order to see how builders in past solved their structural, trditional and aesthetic problems. This survey of history gives the students a chance to study the structural basis of great styles, methods of admitting day light decoration. Importances is also attached to the sociologic back ground i.e. political, economica, religious, technical and philosophical ideas which lie be4hind all buildings. This will be studied with the help of selected examples of buildings of various historical civilizations in Europe the west in chronological oeder.

- 1 Greek , Roman
- 2 Early Christian , Byzantine
- 3 Medieval (Romanesque, Gothic)
- 4 Renaissane
- 5 Impact of industrial revolution (upto 1942)

NOTE : Sessionals will be submitted in the form of sketches (minimum say 20) notes, audiovisuals and reports of site visit to some historical buildings etc. As per program schedule by the school per session

#### SEMESTER - III

S. No.	Course Code	Subjects	Period	Per Week	Total Teaching	Distribution of Marks								
					Hours		Theory Block Theory Practical Block					k		
							М	S T	Total	Exam		Term work/	Total	
						End Sem exam			theory block	Duration (Hrs.)		Sessional	Practical block	
						Theory Quiz							bioek	
			L	STUDIO /	Total			Ι			П			I+II
				Т	Contact									
					Hour									
5	AR215	Structure-III	4	1	5	50	10	10	70	3	-	30	30	100

1. Steel work connections: Riveted connections, Bolted and pinned connections, Welded connections.

2. Design of Tension members: Types of tension members, permissible stresses, Design of members subjected to axial tensions and bending. Tension splices, lug angles.

3. Design of compression members: Types of compression members, failures, end conditions, effective length, design by I.S. Code method. Strength of compression members, splices, encased columns.

4. Design of flexural members: Beams simple and built up, plate girder, criteria of design, design of laterally supported and laterally unsupported beams.web crippling and web buckling.

5.Design of roof trusses: To determine the forces in members due to various loads, types of roof trusses, components of roof trusses, purling, lateral bracing of end trusses, roof covering.

Note: i) Sessional work should include design and analysis of simple elements as stated above with drawings.

ii) Steel table & I.S. code 800 is permitted in examination.

LIST OF TEXT AND REFERENCE BOOKS: AR215 - Structure-III 1. L.S. NEGI, "Design of Steel Structures", Tata McGraw Hill. 2. ARYA & AJAMANI, "Design of Steel Structures", Nemchand & Bros. Roorkee. 3. M. RAGHUPATHI, "Design of Steel Structures", Tata McGraw Hill. 4. P. DAYARATNAN, "Design of Steel Structures", Wheeler & Company Ltd. 5. I.S 800-1984, BIS.

### SEMESTER - III

S. No.	Course Code	Subjects	Period Per Week		Total Teaching	Distribution of Marks								
							Theory	/ Block		Theory	F	Practical Bloc	k	
						End Sem exam	M	S T	Total theory block	Exam Duration (Hrs.)	End Sem	Term work/ Sessional	Total Practical block	
						Theory Quiz								
	L STUDIO				Total Contact Hour		]	Ι			Π			I+II
6		Theory of Design	2	1	3	50	10	10	70	3	-	30	30	100

Studies of folk art and crafts, indigenous architectural studies, influence of tradition, culture and socio-economic developments on art and architecture. Introduction to inquiries initiated by various Western and Indian philosophers.

2. Understanding of determinants of physical form such as concepts of space, structure, organization, symbolism, mass, surface scale, order, proportion, rhythm, datum, axis, etc. in relation to place, time and society with due consideration for perceptual qualities as affected by colors, light conditions, vision angle etc.

3. Communication and interpretations in architecture. The eloquence, aptness and style in architecture, their judgment and design.

4. Development in world architecture, environmental design and technology with reference to trend setting works of architects, designers, ecologists, engineers etc.

5. Design parameters, principles, process, methods and program formulation. Design, matrices and system integration. Process of design synthesis.

Note: The sessional should be in the form of drawings technical report writing and presented in the seminar along with the audio visuals which will be based on buildings identified during regular site visits. LIST OF TEXT AND REFERENCE BOOKS:

AR216 - Theory of Design

1. JOHN RUSKIN, "Seven Lamps of Architecture".

2. MAITLAND GRAVES, "The Art of color and Design", McGraw Hill book Co. INC.

3. BAHGA, "Modern Architecture in India", Galgotia Pub.

4. FRANCIS D.K. CHING, "Form, space and order", Van Nottrand Reinhold Co. Canada.