

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT.

B. ARCH. III

Semester-V

Course No.	Teaching Schedule			Theory e	
	Tuto i	Lect	Termwork Stadi* Work	Durat I M	
(1)	(2)	(3)	(4)	(5)	(6)
Studio - V Architectural Design	AR501		-	.11	-
History of Architecture - III	AR502	2	--	, -	2.:
Specifications	AR 503	2	.-	i 1	2
Electives	AR 504	'1			2
: Bldg..Services-II	C505	n	-	2	3
Bldg. Materials & Construction - V	C506	2	-	. 2	3
Structures - V	C507	2	-	2	3
Total:		12	-	18	15

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AR. 501-STUDIO-Y : ARCHITECTURAL DESIGN

Teaching Scheme (No. of Contact Hrs) Theory Tu. Studio	Examination Scheme			Grand Total
	Theory Exam	Prac / Quiz /Sketch /Viva		
---- — 11	Duration (Hrs)	Maries	Scm End Continuous Exam Int-Evalua. 180 120	300

Emphasis:

Cultural dimensions of dwelling environment.

Content:

- Cultural values, life styles, social configuration, expression of community, nature of- dwelling and specific cultural expressions suited to present context, dwelling environments, expression in different. cultures, expressions specific to Indian context, external space as the expression of social group.

Project:

- Case studies of existing dwelling environment / Settlements, Dwelling-Cluster scale Design * project, Design of institutions at the neighbourhood scale or urban infill scale.

References:

- (1) Metropolitan Housing market - case study of Ahmedabad. CEPT Ahmedabad 1985 by Mehta Dinesh & Meera.
- (2) Housing for low income urban families - Economics & Policy in Developing World by Grimes O.F. John Hopkins' 76.
- (3) "Urban Housing Strategies " by Wakely, P. I. London pitman 1976.
- (4) Laurie Bakes by Gautam Bhatia.
- (5) "Supports" by Habraken.
- (6) The House in East & Southeast Asia - K.G. Izikwitz - 'Curzon Press'
- (7) Time Sayer Stds. for Housing & Residential - De Chira.
- (8) Contemporary Indian Architecture Housing & Urban Development -M.N. Joglekar & S.K. Das

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AR 502: HISTORY OF ARCHITECTURE - III

Teaching Scheme (No. of Contact Hrs) Theory Tu. Studio	Examination Scheme			Grand Total
	Theory Exam		Prac / Quiz /Sketch /Viva	
2 0 0	Duration (Hrs) 2	■ Marks 50	Sem End Continuous Exam Int -Evajjia.	50

Emphasis:

Evaluation of Architecture as a result of cultural changes in various parts of the world.

Content:

Study of design & Construction methods in Architecture.

- (1) Islamic & pre-colonial period in India.
- (2) Comparisons to renaissance, Baroque periods in Europe. Parallel developments in Middle east & Japan.

Term Work:

Submission of Sketches & Study.

References:

- (1) History of Architecture - By Fletcher.
- (2) Indian Architecture - By Brown.
- (3) Forms & Style Asia - By Jeannine Auboyer.

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AR - 503 -.SPECIFICATIONS

Teaching Scheme (No. of Contact Hrs) Theory Tu. Studio	Examination Scheme				Grand Total
	Theory Exam		Prac / Quiz /Sketch /Viva		
2 0 1	Duration (Hrs) 2	Marks 50	Scm End Exam 30	Continuous Int-Evalua. 20	100

Emphasis:

Specifications & its relevance to architectural practice.

Content:

Types of Specification - Process oriented & performance specifications. Constituents of specifications -Material qualities & proportions, labour quality of measurements, methods of structuring & writing specifications in a total set of contract. Economic & quality implications of specifications Trade off bet ideal & realistic specifications.

Reference:

- (1) S.C. Rangwnln - Estimating & Costing.
- (2) B.N. Datta - Estimating & Costing.
- (3) Engineering Contract & Specifications - Abbet. Robert W.

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AR :- 504: ELECTIVES

Teaching Scheme (No. of Contact Hrs) Theory Tu. Studio	Examination Scheme		Grand Total
	Theory Exam	Prac / Quiz /Sketch /Viva	
2 0 0	Duration Maries ^rs) 2 50	Sent End Continuous Exam Int-Evalua. 30 20	100

Any one of the following subjects may be taken of as art electlves subjects:

- (1) Passive solar Architecture.
- (2) Traditional Architecture in India & Pakistan.
- (3) Interior Design.
- (4) Art Appreciation.
- (5) Application of Computer in Architecture • II
- (6) Architectural Conservation.
- (7) Ecology.
- (8) Statistics
- (9) Graphics in Architecture
- (10) Development control rules & related procedures for bldg. pennission.
- (11) Photography in Arcliitecture.

References:

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C - 505: BUILDING SERVICES – II

Teaching Scheme (No. of Contact Hrs) Theory Tu. Studio	Examination Scheme				Grand Total
	Theory Exam		Prac / Quiz /Sketch /Viva		
2 0 2	Duration (Hrs) 3	Marks 100	Sem End Exam 30	Continuous Int -Evalua. 20	150

Emphasis :-

Water supply & Sanitation. •

Content :-

- (1) Water Supply:- Req. of water supply to different types of buildings, sources of water, modes & methods of conveyance of water, fixtures & appurtenances, Distribution of water, methods of distribution, different., distributional systems & their principles of layout, design of water distribution systems in a campus, & in a building overhead underground tanks.
- (2) Drainage:- Refuse different, forms of refuse, garbage, suUage, toilet waste & Stoim water collection & disposal systems, general principles of drainage, manholes, grease chambers etc. traps, ventilation of drains & sewers, principle of design of sewer lines, drainage layout for bldg. premises, longitudinal sections of drains. Drainage in non - municipal areas-soak wells, septic tanks, W- C , Hushing valves, flushing tanks, wash basins & its accessories, Rainwater, drainage pipes, spouts, sizing of rainwater pipes, disposal system of rain water at G.L. storm water drainage.

References: -

- (1) Text book of sanitation by R.S. Dcshpande.
- (2) Elements of public health Engg. by Duggal.
- (3) Text book of sanitary Engg. by S.R. Kshirsagar.
- (4) National Plumbing code (AWWA)

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C - 506 BUILDING MATERIALS & CONSTRUCTION –V

Teaching Scheme (No. of Contact Hrs) Theory Tu. Studio	" Examination Scheme			Grand Total
	Theory Exam		Prac / Quiz /Sketch /Viva	
2 0 2	Duration (Hrs)	Marks	Sein End Exam Continuous Int-Evalua.	150
	3	100	30 20	

Emphasis:

Specialised Construction Technology.

Content:

- (1) Soil investigation & its properties, & its application to design of foundations.
- (2) Special foundations such as piles, augers, raft, expansive soil foundations, black cotton soil foundation etc.
- (3) Retaining walls.
- (4) Precast & pre-stressed concrete bldg. components & bldg. systems.
- (5) Visual presentation & on site studies.

References:-

- (1) Structure by Dunham. Lgi
- (2) Building Construction. Uj Uuntingtem

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C -507 STRUCTURES –V

Teaching Scheme (No. of Contact Hrs) Theory Tu. Studio	Examination Scheme			Grand Total
	Theory Exam		Prac / Quiz /Sketch /Viva	
2 0 2	Duration (Hrs) 3	Marks 100	Sent End Exam 30	Continuous Int-Evalua. 20
				150

Emphasis:

Structural Design ■ II

Content:

- (1) Steel Structures :- Standard & classified rolled sections, permissible stresses, design of tension members, compression members & simple beams, design of axially loaded, riveted & welded connections, design of simple roof truss, design of an angle purlin.
- (2) Steel Structures :- Design of columns subjected to heavy loads, built up section design of lacing & batted plates, eccentrically loaded column-base & columns, design of built up beams, plate girders, design of eccentrically loaded, connections, axially loaded & eccentrically loaded, design of foundation, design of an industrial bldg & shed.
- (3) Reinforced Cement:- Arrangement of structural members, two way slabs, single span & continuous span slab & beams, double reinforced beams, T-beams, ell-beams, Sheer & bond stresses development length, compression members, short & long columns, various types of foundations, design of an isolated footing, various types & design of combined footing stairs, various types & layout .of staircases, design of a cantilever & dogleg type staircase, design of a residential bldg.

Text book :-

- (1) Elementary Reinforced Concrete - By H.J. Shah, Charotar publishers.
- (2) Design of Steel & Timber Structure - By Ramamrutham.
- (3) Design of Steel Structures - By Negi.
- (4) Design of Steel Structures- By P. Dayaramaui.