

**SCHEDULE OF TEACHING & EVALUATION
B.A.S.E.T. (S.D. UNIVERSITY)**

1

Course	Course No.	Lead	Teaching Schedule			Examination Scheme					Grand Total
			Thurs	Studio/Work	Durst on (Hrs.)	Theory exam	Sem. and Exam.	Case studies/Practical	Total (8+9)	Marks (7+10)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
Studio - III Architectural Design	AR 301	1	10	10	-	150	100	250	250	250	
Building Materials & Construction - III	C 302	2	2	2	3	100	30	20	50	150	
Surveying & Levelling	C 303	2	2	2	3	100	30	20	50	150	
Structure - III - Theory of Structure	C 304	3	1	3	100	30	20	50	150	150	
Chemistology	C 305	2	1	2	50	30	20	50	100	100	
History of Architecture - I	AR 306	2	-	2	50	-	-	-	50	50	
History of Culture - III	AR 307	2	-	2	50	-	-	-	50	50	
Total		13	1	16	450	270	180	450	900	900	

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT.

B. Architectural - II

Semester - III

AR 301 : STUDIO - III : ARCHITECTURAL DESIGN.

TEACHING SCHEME (NO. OF CONTACT HRS.) THEORY TUT. STUDIO	EXAMINATION SCHEME		GRAND TOTAL 250
	THEORY EXAM	P8AC/QUIZ/SKETCH/VIVA	
10	DURATION MARKS: (HRS.) ~	Stefl.END ' CONTINUOUS &CAM. INT.EVALUA. 150 " 100	

EMPHASIS : TO DEVELOP BASIC SKILLS AND UNDERSTANDING OF NATURE OF ARCHITECTURAL FORM WITH RESPECT TO FUNCTIONS.

CONTENT : FUNCTIONS AS MAKER OF SPACE AND FORM.

RESOLUTION OF BUILT FORM ALL MAJOR DETERMINANTS WITH FUNCTION AS THE GUIDING FACTOR.

ORDER 3N SPACE AND FORM WITH RESPECT TO FUNCTION.

PROJECTS : FACILIAION STUDIES & CIRCULATION DIAGRAMS FOR DIFFERENT FUNCTIONS.

; »' DEVELOPMENT OF ONE MAJOR SPACE TO DIMENSIONS OF /:
INTERIOR DETAIL.

: ;, ^DETAILED MODELS, FULL SCALE CONSTRUCTION.

: "t/NDERSTANDING OF BASIC SHELTER AND ITS RELATED FACTORS
. -THROUGH CHOSEN EXAMPLE, METHODS OF LEARNING.

EXAMINATION SCHEME

13-150

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 ;, |HE^Y, EXAM. Pf|DgMIIZ;/SKETCH/VI^
 rHEORY; ; ^U?; *Jr; &T>UE>IO
 (HRS,> SXAW; INT.EVALTIA.
 3. 10Q 20

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iliPHASI^":* ORIENTATION TO .PI-IYSJCAL, XMmA&fWRISX\$C\$of> LAND "ANfr BUILDING.

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1. j*J3 " INI&ODlg&SON; : OBUeaTIVgJSV^ TWEB OF SURVEYS, P^NCJIPLES AND METHODS QF^UftVgYv.
2. SCALES, ,. METHODS OF ; MEASUREMENT, -TYPES OF INSTRUMENTS AND, THEI* USE\ : - ' <yk
3. CHAIN SURVEY PRINCIPLES AND INSTRUMENTS USED AND ITS PRACTICEF. ~; ' : , '* ' . ■;
4. TRAVERSING, MEASURE<<E<<TH@F:AWQLES BY PRISMATIC COMPASS CALCULATION OF ANGLES FROM BEARINGS.
5. PRINCIPLES OF PLANE TABLE SURVEY, ACCESSORIES AND METHODS OF SURVEY.
6. COMPUTATION OF AREAS, METHODS, USE OF PLANIMETER, PRINCIPLES MND METHODS OF SETTING OUT OF BUILDINGS.
7. INTRODUCTION TO LEVELLING : TERMS USED, EQUIPMENTS. PRINCIPLES OF LEVELLING - DIFFERENT LEVELLING. RECIPROCAL LEVELLING, PROFILE LEVELLING, FIELD WORK.
8. INTRODUCTION TO CONTOURING, LOCATION OF CONTOUR; , DIRECT METHODS BY SPOf LEVELS, ." CROSS SECTIONS, SQUARE AND RADIAL LINES. . ;
9. INDICATOR METHODS, INTERPOLATION OF CONTOURS- MATHEMATICAL METHODS, ESTIMATION AND GRAPHICAL METHODS. FIELD WORK. REDUCTION OF LEVELS, INTERPOLATION, AND PREPARATION tff CONTOUR MAPS, COMPUTATION OF VOLUMES,, UNITS ; - TOAPEZOIDINAL FORMULA, PRISMOIDAL FORMULA. VOLUMES OF STANDARD SOLIDS.
10. INTRODUCTION TO THEODOLITE AND BOX SEXTANT,

.ARCH.II Semester - in C 304

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: STRUCTURES - III

THEORY OF STRUCTURES

TEACHING SCHEME		THEORY EXAM		CONTINUOUS EXAM.		GRAND TOTAL
THEORY	TUT. STUDIO	DURATION (HRS.)	MARKS	INF.	EVALUA.	
40		3	100	30	20	150

EMPHASIS

THEORY OF STRUCTURES.

CONTENT

2. BEAMS SECTION OF CANTILEVER AND SIMPLY SUPPORTED

3* ?I5^{UTS} AND CO^{LUMNS} EULER; i RANKINE AND OTWPR
 FORMULA (WITHOUT DERIVATIONS) BUCKLING OF CoTuSk
 ST^{RESS}S^P?^{ATI}O ^{>&* &\$** B?N\$NG}
 STRESSES; FIXED AND CONTINUOUS RPAMC SrtucLiT..
 DISTRIBUTION MITHO0; SISiS' 35BK ^ ' ^?NTi

3.ARCH.II Semester - III

C 305 ~ : CLIMATOLOGY
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or tpNTACT HRS.)

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MHEQRY WXi STUDIO

THEORY EXAM
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(HHS.) "■ 2

PRAC/QUIZ/SKETCH/VIV&
Aii111|> ^C" .
INT.EVALUA. {TOTAL
20

EMPHASIS"" a0

CONTENT

CLIMATOLOGY & ITS INFLUENCE,ON BUILT_p ENVf RO><<|J|JmiS;^~

1. STUDY OF VARIOUS CLIMATES & ISSUES pF ECOLOGICAL
t/- BALANCED ■ '■' ■ ■'■ ' -
2. STUB* ^ANALYSIS Oj*. QEXMATJC^FORCES (RAIN, WIND,
SUNOSQH?AND HEAT, SOUND¹)¹.

ⁱ Si CUIMATOLGGTCAL' Slte ANALYSIS, .--/

- 4.PROPERTIES C" BUILDING MATERIALS IN RELATION TO
• ;. CLIMATIC FORCES.¹ /
5. i •"■CtLM'ATC. CONTROL DEVICES.¹

PRbJlct

STUPY OF TRADITIONAL/VERNACULAR BULT'ENVIRONMENT & ITS
FFFTCIEMCY WITH R, ECT TO CLIMATE.

B<ARCH.II Semester - III

AR 306

HISTORY OF ARCHITECTURE-I

TEACHING SCHEME (NO. OF CONTACT HRS.7'		LAMINATION SCHEME		GRAND TOTAL
THEORY	TUT; StUOIO:	THEORY EXAM. ■ *' gRAQ7%?i;2/SKg,TgH/yiV^	EXA'M\ INT.EVALUA.	
		DURATIO N(HRS.)	SO	50
			SEN.!m	
			58ft*km&^w	

EMPHASIS

EYD£#Tn>f* OF BUILT PORM' AS -A^'RESULT:;f# SOCIETY, RETLLtSIONY CULTURE, CLIMATE/ ; LAWD ANCF TECHNOLOGY.

CONTENT

STUDYPOF: SPATIAL ORDER, STRUCTURAL^ CONSTRUCTIONAL AND MATERIAL ORDER, MANNER OF ARTICULATION, SYMBOLS AND MEAN.5NISS^ IN THE BUiiiT-FdRM AT SCALES' OF SETTLEMENTS, INSTITUTION, DWELLINGS 4 COMMUNITY IN THE FOLLOWING PERIODS :

PRE-HfSTORIC SHELTERS; ••'/' ^

2 ANCIENT CIVILIZATIONS-INDUS VALLEY, MESOPOTEMIA, EGYPT;CHINESE, fltG. - '*/-■'-' " -w'- : *'

AFROM VEDIC TIMES TO SURT*PERIOD IN INDIA AND COMPARISONS WITH GREEK, ROMAN AND IRANIAN CIVILIZATIONS.

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6.ARCH.II Semester - III

AR 307 i HISTORY OF CULTURE - III

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TEACHING SCHEME (NO> OF CONTACT HRS,) THEpRY_GHA??^'. STUOIO	EXAMINATION SCHEME		35 'EMIK' KH-
	<u>Thf&RY EXAM</u>	PRAC/QUI2/SK	
	OURATION MARKS	ETCH/yIVA dNTtWUC-US' . <3R	
	(HRS.)	SEM.END C	
	2	EXAM. INT.EVALUA.	TOTAL
	50		50

EMPHASIS

SOCIETY, CULTURE, VALUES AND THEIR EXPRESSION : IN
TOE ARTf. DEVELOPMENT OF ORDER, THOUGHT ANDfPHILOSOPHY.

CONTENT ,;

,1. GROWTH OF SOCIO-CWLttIRAL THOUGHTS-. TT3

A. MAJOR DEVELOPMENT FROM MUGHati PERIOD UPTO
WORLD WAR 1 IN INDIA.

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B. COMPARISONS OF SOCIO-CULTURAL THOUGHT OF
RENAISSANCE TO WOULD: WAR^ -aN VARIOUS PARTS
OF THE WORLD.

2. GROWTH OF SCIENTIFIC THOUGHT AND3ITS IMPACT ON THE
WORLD ORDER. GROWTH OF INVENTIONS AND
... TECHNOLOGICAL ADVANCEMENT, RESULTANT CHANGES IN A.
< : QUALITY OF ITFE, B. INDIVIDUAL,* SOCIAL PATTERNS OF LIFE,
C. PHYSICAL, MATERIAL * ^SPIRITUAL ASPECTS UPTO WORLD
WAR 1.

B.ARCH.II Sem<8t*r - I V

AR 401 : STUDIO - IV : ARCHITECTURAL DESIGN

TEACHING SCHEME		EXAMINATION SCHEME	
(NO. OF CONTACT HRS.)	TUT. ST10IO150	THEORY ,EXAM (HRS.)	PRAC /OUTZ /SKETCH /TUTZ -SEM.ENDCONTINUOUS EXAM. INT.EVALUA.
			100
		STRUCTURE AS A MAJOR DETERMINANT OF DESIGN, CLIMATE AND ITS BASIC INFLUENCE OF DESIGN^	
EMPHASIS		NATURE OF MATERIALS & BASIC ^STRUCTURAL SYSTEMS IN NATURE AND MANMADE ENVIRONMENT AND THE ORDER UNDERLYING THEM. UNDERSTANDING THE ROLE OF STRUCTURE TN DEFINING SPACES & FORMS.	
CONTENT		SPACES & THEIR HIERARCHY, FORMS, STRUCTURAL SYSTEMS CREATED AND INFLUENCED BY CLIMATIC CONSIDERATIONS.	
PROJECTS		EXCERSIZES IN STRUCTURAL SYSTEMS, DESIGN OF SMALL BUILDINGS WITH EMPHASIS ON THE EFFECTS OF VARIOUS STRUCTURAL SYSTEMS, CLIMATIC FACTORS, FUNCTIONAL REQUIREMENTS,	

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B.ARCH.rt Semester - IV

C 402 : BUZLDtNO^MATERIALS .* INSTRUCTION - IV ^^

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TEACHING SCHEME

(NO. OF CONTACT MRS*)	* TMQRY EX	in	H/VIVA	
[THEORY	TUT. STUDIO	JgWRATloifj»~ARKS\		
	(HRS.)	fin 30 nrrroBB 20		GRAND TOTAL

EMPHASIS

REINFORCE© CONCRE^I £TRUCTURE\$2 ^

CONTENT

- 1: ALL ELEMENTS-^VRA^NF^RCI^njeo^Defc sTRurniftcc **252**, AS FOOTI^? **COLUMNS, reK/FLoSK^S^S'** ..- FRAMING,OF 0PE4|INQ,tN WAL^^Coofe AMDifeoS?
 - 2: ffJ£i·Li*G °* STAIRCASE®; CAHORIES. WEATHER <jHFN<5 ONTELS, LOUVtR8,f»ERGOEAS^YLIQHTS, ETC
 - 3, ;JM-FILL WALL*, .PARTITIONS ANO-THEIR FINESHES.
- * ^^^At-PRESEWTATI^-'AVw'Ti^i^ STUDIES.

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B.ARCH.II Semester - IV

C-403' STRUCTURAL DESIGN - I

TEACHING SCHEME

(NO. OF CONTACT HRS.)	THEORY SCHEME	EXAMINATION	^=t
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		UURATof* MARKS	swEN& mi?
		(HRS.)	,-EXAM. "■* INT.EVALMA.
		^3	•"30 :!
		100	

STRUCTURAL DESIGN - I

CONTENT

1. LOADS : DIFFERENT TYPES'' OF TOXDS ACTING STRUCTURES, DEA.Q .^LOADiS, -LIVE Lp*D#P* PRESSURES; EARTHQUAKE FORCES, fefc*. COMBINATION; INCREASE. IN PERMISSIBLE Sff REDUCTION IN LIVE LOADS. . , :
- WOODS : SPECIES OF Tlmietf, GRADING OF STRUCTURAL TIMBER, PROHIBITED 4ND, & PERMISSIBLE OEFACTS, LOCATION OF DEFECTS, \SUITABILITY; PERMISSIBLE * STRESSES.■■"■ MODIFICATION' -'FACTORS FOR PERMISSIBLE |# SIRESSSES. DESIGN .". CONSIDERATIONS, LOADS, COMPRESSION MEMBERS, TENSION MEMBERS, DESIGN OF THE CONNECTION, ROOF TRUSSES,t FLEXURAL MEMBERS, SUBJECTED TO DIRECT "-BENDINGI STRESSES.
3. MASONRY TYPES OF WALLS, MORTAR SELECTION, < DESIGN CONSIDERATIONS, PILE, THICKNESS OF WALL, LATERAL SUPPORTS, EFFECTIVE HEIGHT, EFFECTIVE

LENGTH
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EFFECT
IVE
THICKN
ESS,
SLENDE

R TIO, PERMISSIBLE STRESSES, STRUCTURAL DESIGN, USE OF
N MONOGRAMS FOR THICKNESS OF WALL, DESIGN OF
f COLUMN, PIPERS, WALLS, GRAVITY WALLS AND LOAD
S BEARING WALLS, FOUNDATION, OPENING IN LOAD BEARING
S WALLS, ARCHES.
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4. PLAIN CONCRETE PROPERTIES OF CEMENT AND
AGGREGATES; ADMIXTURES; MANUFACTURING OF CONCRETE;
MIXING, TRANSFORMATION, PLACING, COMPACTION AND
CURING OF CONCRETE. TYPES OF CONCRETE MIXES;
PROPORTIONING OF CONCRETE MIXES; NOMINAL MIX;
CONTROLLED MIX; PROPERTIES OF FRESH AND
CONCRETE; HARDENED WATER CEMENT RATIO;
QUANTITIES ESTIMATING OF MATERIALS REQUIRED FOR
ONE BAG *OF* CEMENT OF COMPACTED CONCRETE, FORM
WORK, SLIDING SHUTTERING; REMOVAL OF FORM
WORKS.

REINFORCED CONCRETE; STRUCTURAL DESIGN, BASIC
THEORIES OF DESIGN, WORKING STRESS METHOD;
ASSUMPTIONS, LIMIT STATE METHOD OF DESIGN;
ASSUMPTIONS, LOADS, DESIGN OF FLEXURAL MEMBERS,
SINGLY REINFORCED BEAMS; ONEWAY AND TWO SLABS

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B.AfHSH,II
Semester - IV AR

BUILDING SERVICES - I

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404

TEACHING SCHEME v. * (NO
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EXAMINATION .>> j^-io,;

EXAMINATION / ORAL / QUIZ / SKETCH / VIVA

GRAND

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EMPHASIS :

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CONTENT- Jt

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B.ARC:

IMAGINATION JUtO EiEOmtCITV.

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tJ&TING CRITERIA, T<r>IHAt ^ItO, & ** LMHfWB,
*>>fWTION METHODS.' \

jL ARTIFICIAL LIGHTING, LIGHTING LEVJLS POR VARIOUS
ai4ACfWITES, OACla^tfONS^^PuGHTINO LEVELS.

eCECTRICAL Dfitl^Uf!^N^TsfgTEM8 IN fUILOINGS -
MAINS AND SUS~OISTR&MTIION StfITOWis ANO CONTROLS,
LAYOUT. SYSTEMS POR USHtrlN#V SapJU Tfl^pMfS,
INTERCOMS. T.V.,VIS\$0,t fTC. :

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TEACHING SCHEME

EXAMINATION

CNO. dF.CONTACT HRS.)

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HRS.) 2

EVOLUTION OF ARCHITECTURE AS A
RESULT. OF CHANES IN VARIOUS PARTS OF ;*THE
WORLB.

EMPHASIS

STUDY OF DESIGN AND COHSTR8CTION. METHODS™ W'
ARCHITECTURE :

CONTENT

U FROM. BUDDHIST TO ISLAMIC.-.F\$R««B0 IN .INDIA.
2* ^? \J^ ^/ff^ -^9^ ARCHITECTURE #

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B.ARCH.II Semester - IV AR 406 :

HISTORY OF CULTURE

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TEACHING SOHSME
(NO, OF CONTACT HRS.)
THEORY TUT. STUDIO

EXAMINATION SCHEME			GRAND TOTAL
THEORY EXAM	SEH.END CONTINUOUS EXAM. INT.EVALUA.		
#RM/QUIZ/SKETCH/V DURATION MARKS (HRS.)	IWA		50
2	50	..! "V.	

EMPHASIS : SOCIETY, CULTURE, VALUES ANfrTHE*R EXPRESSION IN THE ARTS.
DEVELOPMENT OF ORDER, THOUGHT AND PHILOSOPHY.

CONTENT : CHANGES IN PERCEPTION OF MAN AND HIS RELATIONSHIP TO
THE SOCIETY ALL OVER THE WORLD FROM POST W6RLD WAR 1 TO
THE PRESENT.-■,..

GROWTH OF SCIENTIFIC THOUGHT AND ITS. IMPACT .ON THE WORLD
ORDER. GROWTH OF ^WEJ^ldNS ^AND' TECHNOLOGICAL ADVANCEMENT,
RESULTANT CHANGES IN A* QUALITY OF LIFE, B. INDIVIDUAL &
SOCIAL PARTERN^^OF LIFE, 'C. PHYSICAL, MATERIAL & SPIRITUAL
ASPECTS UP TO THE PRESENT,

B.ARCH.II Semester - IV

AR 407 ELECTIVES

TEACHING SCHEME <i>m. OpTCONTACT HRS.)</i>	EXAMINATION			%RA*to TOTAL
	SCHEME £5AC/QUIZ/8K			
THEORY;TUT. STUDIO	<u>THEORY EXAM</u> (HRS.)	EXAM.	INT.EVALUA.I	
	3	100		100

•ti?:* TM F°"»™ SUBJECTS KAV fe Tjcfel*^ .ifa^

01. . . . PASSIVE SOLAR ARCHITECTURE,
02. TRADITIONAL ARCHITECTURE IN,INDIA & PAKISTAN.
- X>3;J^tINTERIOR DESIGN.
04. ART APPRECIATION.
- 05 APPLICATION ©F COMPUTER IN ARCHITECTURE. ?
6. ARCHITECTURAL CONSERVATION.
7. ECOLOGY.
8. STATISTICS.
9. GRAPHICS IN ARCHITECTURE.
10. DEVELOPMENT CONTROL RULES & RELATED PROCEDURES FOR BUILDING PERMISSION.
11. PHOTOGRAPHY IN ARCHITECTURE.