

GUJARAT UNIVERSITY
Bachelor of Architecture
Outline for All Semesters (Batch 2015 onwards)

FIRST YEAR																					
SEMESTER - I						SEMESTER - II															
Code	Subject	HOURS/WEEKS				Exam				Code	Subject	HOURS/WEEKS				Exam					
		L	S	WS LAB	Total	T.W.	Th Exam	Viva/ Jury	Total Marks			L	S	WS LAB	Total	T.W.	Th Exam	Viva/ Jury	Total Marks		
AR-101	Studio-I		6		6	200			100	300	AR-201	Studio-II		6		6	200			100	300
AR-102	Building Construction- I	2	4		6	100			100	200	AR-202	Building Construction- II	2	4		6	100			100	200
AR-103	Structures-I	2			2	50				50	AR-203	Structures-II	2			2	50				50
AR-104	Humanities	2			2	50		50		100	AR-204	History of Arch -I	2			2	50		50		100
AR-105	Basic Design -I		6		6	300				300	AR-205	Basic Design -II		6		6	300				300
AR-106	Arch. Graphic Tech- I	2	4		6	200				200	AR-206	Arch. Graphic Tech- II	2	4		6	200				200
AR-107	Communication Skills	2			2	50				50	AR-207	Computer Application			2	2	50				50
TOTAL		10	20		30					1200	TOTAL		8	20	2	30					1200

SECOND YEAR																					
SEMESTER - III						SEMESTER - IV															
Code	Subject	HOURS/WEEKS				Exam				Code	Subject	HOURS/WEEKS				Exam					
		L	S	WS LAB	Total	T.W.	Th Exam	Viva/ Jury	Total Marks			L	S	WS LAB	Total	T.W.	Th Exam	Viva/ Jury	Total Marks		
AR-301	Studio-III		8		8	300			100	400	AR-401	Studio-IV		10		10	300			100	400
AR-302	Building Construction- III	2	4		6	100			100	200	AR-402	Building Construction- IV	2	4		6	100			100	200
AR-303	Structures-III	2			2	50		50		100	AR-403	Structures-IV	2			2	50		50		100
AR-304	History of Arch -II	2			2	50		50		100	AR-404	History of Arch- III	2			2	50		50		100
AR-305	Survey & Leveling	2	2		4	50			50	100	AR-405	Building Services-I	2			2	50		50		100
AR-306	Climatology	2			2	50		50		100	AR-406	Landscaping	2			2	100				100
AR-307	Special Subject -I			2	2	100				100	AR-407	Special Subject-I			2	2	100				100
AR-308	Special Subject -II			4	4	100				100	AR-408	Special Subject-II			4	4	100				100
TOTAL		10	14	6	30					1200	TOTAL		10	14	6	30					1200

THIRD YEAR																					
SEMESTER - V						SEMESTER - VI															
Code	Subject	HOURS/WEEKS				Exam				Code	Subject	HOURS/WEEKS				Exam					
		L	S	WS LAB	Total	T.W.	Th Exam	Viva/ Jury	Total Marks			L	S	WS LAB	Total	T.W.	Th Exam	Viva/ Jury	Total Marks		
AR-501	Studio-V		12		12	300			100	400	AR-601	Design Studio-VI		12		12	300			100	400
AR-502	Building Construction- V	2	2		4	100			100	200	AR-602	Building Construction- VI	2	2		4	100			100	200
AR-503	Structures-V	2				50		50		100	AR-603	Structures-VI	2			2	50		50		100
AR-504	History of Architecture- IV	2				50		50		100	AR-604	Design Theory	2			2	50		50		100
AR-505	Building Services-II	2				50		50		100	AR-605	Esti. Costing & Specification	2		2	4	50		50		100
AR-506	Building Regulations	2				50			50	100	AR-606	Heritage & Conservation	2			2	50		50		100
AR-507	Special Subject-I			2		100				100	AR-607	Special Subject-I			2	2	100				100
AR-508	Special Subject-II			4		100				100	AR-608	Special Subject-II			4	2	100				100
TOTAL		10	14	6	30					1200	TOTAL		10	14	6	30					1200

FOURTH YEAR																					
SEMESTER - VII						SEMESTER - VIII															
Code	Subject	HOURS/WEEKS				Exam				Code	Subject	HOURS/WEEKS				Exam					
		L	S	WS LAB	Total	T.W.	Th Exam	Viva/ Jury	Total Marks			L	S	WS LAB	Total	T.W.	Th Exam	Viva/ Jury	Total Marks		
AR-701	Studio -VII (Office Training)					1000			200	1200	AR-801	Studio-VIII		16		16	400			200	600
											AR-802	Advanced Construction	2			2	100			100	200
											AR-803	Design Seminar- I	2	2		4	50			50	100
											AR-804	Const. Project Management	2			2	50			50	100
											AR-805	Special Subject-I			2	2	100				100
											AR-806	Special Subject-II			4	4	100				100
TOTAL										1200	TOTAL		6	18	6	30					1200

FIFTH YEAR																						
SEMESTER - IX						SEMESTER - X																
Code	Subject	HOURS/WEEKS				Exam				Code	Subject	HOURS/WEEKS				Exam						
		L	S	WS LAB	Total	T.W.	Th Exam	Viva/ Jury	Total Marks			L	S	WS LAB	Total	T.W.	Th Exam	Viva/ Jury	Total Marks			
AR-901	Studio-IX		18		18	600			200	800	AR-1001	Studio- X										
AR-902	Research Methodology	2		4	6	100			100	200												
AR-903	Design Seminar- II	2	2		4	100				100												
AR-904	Professional Practice	2			2	50		50		100												
TOTAL		6	20	2	30					1200	TOTAL		30			30					1200	

NOTES:

Student shall complete 3 Related Study Programs (RSP) during the tenure of 10 semesters, out of these minimum 2 RSP will have to be completed at the completion of First stage (6 Semesters).

Student shall be eligible to register for office training only at the successful completion of all subjects of previous semesters (Sem I to VI)

Gujarat University
B. Arch. Syllabus (2015)
Semester – I Content Outline

Code	Subject	Content outline
AR – 101	Studio– I	Introduction to creative exploration of the environment, this studio explores the principles of space making. Imparting the skills of recording the built environment, model making and sketches as tools of expression, the idea of the human body and its measurement, and basic principles of space making.
AR – 102	Building Construction – I	Introduction to building construction and materials – brick, stone, mud, timber, lime, steel, glass Construction of wall – in these materials, hands on training, site visits Introduction to various elements of building from foundation to roof. <ul style="list-style-type: none"> • Construction and the logic of stability as its basis. • Concept of load bearing: Support and Supported building elements Introduction to Sub Structure and Its Construction Methods
AR – 103	Structures - I	Understanding and identification of location of forces, bending moment and bending stress in fixed beams, over hanging beams, continuous beams, portal frames etc. <ul style="list-style-type: none"> • Deflection in simply supported beams and cantilevers with distributed and point loads. • Columns, struts-short and long columns, slenderness ratio etc.
AR – 104	Humanities	<ul style="list-style-type: none"> • Importance of humanities in the study of Architecture. • Journey of Man from savaged to being civilized. Ancient man’s survival through adversities such as climatic conditions and forces of nature. • Inventions of fire and wheel and role of development of shelter. • Formation of group living, formation of settlements and beginning of community living as rural & urban. • Beginnings of society, culture, traditions & civilization and their progressive development through different ages from Paleolithic to contemporary.
AR – 105	Basic Design - I	<ul style="list-style-type: none"> • To understand basic design elements and principles and exploration of their potential through effective understanding of the same. • Demonstration through drawings and model, elements like point, line, volume, mass, form, scale & proportion with the use of principles of Design such as rhythm, balance, symmetry, movement, harmony, variation, emphasis, value, growth, & texture. • Explore shadows, shapes & pattern to understand positive & negative by the students with drawings and models. • Explore the process of transformation of shape into form.
AR – 106	T.R.D -I	<ul style="list-style-type: none"> • Understanding of drawing/drafting as communication tool. • To develop the skill to draw various objects and geometrical forms with the help of drafting tools. • To imbibe the visualization skill of surface development like- folding and unfolding surfaces of various objects. • Line Exercise, Lettering (Gothic, Graphic) • Introduction to Scale and Measured Drawing • various symbols, signs to convey the different materials
AR – 107	Communication Skills	<ul style="list-style-type: none"> • Understanding and importance of effective communication skills through various modes of communication: written, verbal, visual, signs, symbols, body language, expression & freedom. • To exercise written skills to convey ideas, messages, meaning, purpose & need effectively. • To develop presentation skills using the aforesaid mentioned communication modes.

Gujarat University
B. Arch. Syllabus (2015)
Semester – II Content Outline

Code	Subject	Content outline
AR – 201	Studio– II	This course is essential for the students to develop methods to learn basics of designing using different materials, while addressing varied objectives. The particular course aims at developing three-dimension visualization and understanding of spaces. The aim is to create various prototypes that bring together construction, design and anthropometric understanding while demonstrating an ability to learn basics of handling the proportion/ scale, materials
AR – 202	Building Construction – II	<p>Introduction to Super Structure and Construction of Walls General idea about walls and its functional, aesthetic and structural use Wall construction and details using different materials. Basic principles/rules of masonry for its load bearing capacity and stability ,</p> <ul style="list-style-type: none"> • Various types of Building materials used in masonry such • Types of bonds used in Masonry walls • Types Of Wall • Load Bearing Wall , Cavity Wall, Partition Wall, Compound Wall, • In fill wall , Composite wall construction • Concrete as building material
AR – 203	Structures - II	<p>Concept of the shear force and the bending moment, S.F. and B.M. diagram for cantilever and simply supported beam with various types of loadings. S.F. & B.M. diagrams for beams Centre of gravity, determining the centroid of simple figures. Moment of inertia, its application to sections subjected to bending, determining M.I. of simple and compound sections. Brief discussion on stability, buckling of columns, short and long column, Euler’s formula, Effects of end conditions on the buckling load. Simple problems, ways of increasing the capacity of a long column.</p>
AR – 204	History of Architecture -I	<p>Development of various architectural styles with reference to the influencing factors such as Geographical, climatic, religious social and political conditions.</p> <ul style="list-style-type: none"> • Prehistoric Architecture • Egyptian Architecture • Mesopotamian, Chinese, Japanese • Indus valley , south east civilization, Africa • History of architecture to be studied as history of development of building forms, ornamentation, structural solutions, construction methods, plans and building façades. • To observe and understand the influence of non-physical parameters such as politics, culture, religion, tradition etc. in architecture. • To understand the trade route in Indian subcontinent and its influence in Indian architecture. • Study various Indian architectural style from Indus valley, Buddhist, Rock cut, Dravidian ,
AR – 205	Basic Design - II	<ul style="list-style-type: none"> • Explore volumetric forms demonstrating the understanding of space, volume & mass. • Explore and understand various materials through practical exercise with aim to enhance form. • Demonstration of the effective application of form, function and the co-relations between them.
AR – 206	T.R.D -II	<ul style="list-style-type: none"> • Projection of object (Orthographic, Axonometric, Oblique) • 3D views (Perspective – One Point, Two Point, Three Point) • Sections of Solids • Sciagraphy • Rendering Techniques.
AR – 207	Computer Application	Basics of Computer, Introduction to Graphic Presentation softwares, Exercises demonstrating M.S office and presenting reports

Gujarat University
B. Arch. Syllabus (2015)
Semester – III Content Outline

Code	Subject	Content outline
AR – 301	Studio– III	<p>The course aims at developing the understanding of relationship of material and form. Design problem shall be a public building and sufficient scope for the following shall be made :-</p> <ul style="list-style-type: none"> • Material exploration • Climatic conditions • User requirements <p>Design problem shall consider the above and planning Design problem shall also consider methods of construction and materials.</p>
AR – 302	Building Construction – III	<p>Details of various types and materials used for openings and lintels Introduction to Openings Concept of span and its application in creating openings in masonry walls with lintels and arches. Structural difference in the behavior of lintel & arch Concept of Doors and Windows –</p>
AR – 303	Structures - III	<ul style="list-style-type: none"> • Analysis of fixed Beam by moment area method. • Analysis of Continuous Beam by Clapeyron’s theorem. • Analysis of continuous Beam by Moment Distribution Method. • Analysis of Truss – Method of Joints and section (graphical funicular drawings). • Analysis of non-way type Portal frames by Moment Distribution Method. • Analysis of three hinges parabolic Arch.
AR – 304	History of Architecture - II	<ul style="list-style-type: none"> • Early Indian temple architecture • Architecture of Gujarat in detail • Greek architecture • Roman architecture
AR – 305	Surveying & Leveling	<p>Introduction to surveying and leveling Understanding of various survey and leveling instruments, carrying out surveys of land of medium complexity and preparation of survey plans</p>
AR – 306	Climatology	<p>Effect of climate on man, shelter and environment. Human comfort conditions – Comfort chart, Comfort Zone, Effective temperature, Macroclimate and Micro climate. Effect of landscape Elements on Climate and Architecture. Impact of climate and building on Ecological balance Solar radiation and Architecture. Air flow patterns inside buildings and in building layouts. Effect of Humidity on buildings. Thermal effect on building materials. Regional approach in the application of the principals of climate control in the Design of Buildings. Lighting and acoustics</p>
AR – 307	Special Subject -I	<p>Special Subjects can be offered from the suggested list of subjects or considering the requirement and design pedagogy of the institute. All special subjects are mandatory and students would need to submit and clear all the term work.</p>
AR – 308	Special Subject -II	

Gujarat University
B. Arch. Syllabus (2015)
Semester – IV Content Outline

Code	Subject	Content outline	
AR – 401	Studio - IV	This studio will deal with the dwelling environments of a small community, with a focus on the integration of cultural patterns and environmental characteristics in the process of developing an architectural form. It will introduce the ideas of type and typology through the study of correlation between climate-environmental parameters and social-cultural patterns as generators of an architectural space.	
AR – 402	Building Construction – IV	<p>Concept of spanning and its extension in formation of roofs and floors.</p> <ul style="list-style-type: none"> • Floor – its types and method of construction using different materials • such as timber floors, stone, jack arch floors, steel, R.C.C • Roofs – its types and method of construction using different materials • Such as timber, steel, R.C.C and elements of Roofs - north light roofs, sky lighting, dormer window • Flooring - it's functional and aesthetic use – its types and method of construction using different materials 	
AR – 403	Structures -IV	<p>RCC Structures</p> <ul style="list-style-type: none"> • Design of RCC structures by limit state method. • Design of Beams: Singly and doubly reinforced beam. • Design of Slab: One Way slab, Two Way slab, One Way and two way Continuous slab (based on studio drawings). • Design of Column: Axially loaded (only), footing drawing. • Design of Isolated footing (Only axial loaded). • Design of stair case (Waist slab type) (based on studio drawings). 	
AR – 404	History of Architecture - III	<p>Development of various architectural styles with reference to the influencing factors such as Geographical, climatic, religious social and political conditions.</p> <ul style="list-style-type: none"> • Indian architecture after early temple period, post Islamic Hindu • Sultanate, Mogul architecture • Early Christian, Byzantine Architecture. • Romanesque Architecture and Gothic Architecture • Renaissance • Baroque • Rococo Style 	
AR – 405	Building Services – I	<p>Studying services for complex buildings and neighbourhood applying these in Architectural design and preparing layout and details.</p> <p>Water Supply, Drainage And Sanitations:</p> <ul style="list-style-type: none"> • Sources of water supply and method of supply, catchment areas, reservoirs, and their location, control systems, supply for a neighborhood • Water supply for multi storeyed buildings and industrial projects. • Drainage for a small residential unit, storm water drains details of construction, water entrances, gullies, open drains, gradients, ventilation of drains, rainfall maintenance. • Sewage and sewage treatment, plants, connection of house sewers to municipal sewers, sewage disposal scheme for small projects • Garbage disposal 	
AR – 406	Landscape Design	<p>Introduction to landscape Architecture</p> <ul style="list-style-type: none"> • Designing and execution of proposal a) Analysis of site b) Identification of functional requirements c) Site development d) Hard Surface – materials e) Elements in Landscape design 	<p>History of landscape Architecture</p> <ul style="list-style-type: none"> a) Moghul b) Renaissance c) 18th century – Brownian d) 19th century – Botanical gardens

AR – 407	Special Subject -I	Special Subjects can be offered from the suggested list of subjects or considering the requirement and design pedagogy of the institute. All special subjects are mandatory and students would need to submit and clear all the term work.
AR – 408	Special Subject –II	

<p style="text-align: center;">Gujarat University B. Arch. Syllabus (2015) Semester – V Content Outline</p>		
AR – 501	Studio - V	This studio interprets the character of institutions as interplay among various factors. Contextual factors like site, surroundings, and landscape are introduced, along with the development of an architectural language that emerges from the integration of design details with larger concepts. All these come through the program of an Institution. Understanding appropriateness of building and construction system based on the criteria of workmanship/materials available, climate, adoption of alternative material or technology, maintenance issues etc.
AR – 502	Building Construction - V	Erection technology, scaffolding , shoring strutting, formwork, shuttering Retaining structures Compound walls and gate Building Treatments and insulation Anti-Termite Treatment, Thermal & Sound Insulation, damp proofing,
AR – 503	Structures - V	STEEL STRUCTURES:- Introduction to structural Steel Analysis and Design of Steel Beams (Check for deflection and shear Only) Analysis and Design of Plate Girder Structural concept of Gantry Girder, sketch design (site report) Structural concept of castellated section, virendeel truss Analysis and Design of Steel Columns and concept of Compound Columns Concept of structural steel connections
AR – 504	History of Architecture - IV	British, Portuguese and French, Jardosian ,Industrial revolution <ul style="list-style-type: none"> • Neo classical movement and its impact in architecture. • Genesis of colonial architecture and its influence in India. • Impact of Industrial revolution in Architecture.
AR – 505	Building Services -II	The study of Electrical services-Power connection, A.C & D.C currents, Distribution boards and types of wiring systems for buildings. Earthing and earthing techniques. Daylight and interior lighting design, calculation of day light factor. Principles of architectural lighting. Calculation of luminance and glare. Concept of Luminance design. Electric light sources. Principles of electric installation in smaller building with specific symbols for graphical presentation. Understanding of Humidity, saturation ratio, dry bulb-wet bulb temperature, vapour pressure in the atmosphere, Study of psychometric chart and its application. Principles of refrigeration, refrigeration cycle. Definition of Air conditioning, Necessity, Meaning of complete air conditioning, Types of air conditioning, components of air conditioning, various ducting layouts, Advancement in air conditioning systems.
AR – 506	Building Regulation	Regulations play a crucial role in molding the built form and urban character of a city. This course will focus on the relation between urban form, built form and regulations. It will begin with study of relevant historic and contemporary examples. Following this the students will envision desirable urban form for a given area and will learn to prepare clear and precise development regulation Comprehensive study of Building Bye-laws relating to the strength and stability of structures, byelaws relating to light and ventilation, sanitation. Introduction to IS Code and discussion on NBC and DCR / DP.
AR – 507	Special Subject -I	Special Subjects can be offered from the suggested list of subjects or considering the requirement and design pedagogy of the institute. All special subjects are mandatory and students would need to submit and clear all the term work.
AR – 508	Special Subject -II	

Gujarat University B. Arch. Syllabus (2015) Semester – VI Content Outline		
AR – 601	Studio - VI	<p>The work of the architect is not confined to the design of a project. Although it is important that the architect properly program the project (ascertaining the necessities and parameters) to develop an appropriate design concept, it is equally important that all of the relevant information regarding the subsequently approved concept be conveyed to the constructors in the field. This entails the conversion and documentation of the design concept into usable construction information. Here materials and systems must be selected, construction details developed to show exactly how various portions of the buildings are to be built, and specifications and drawings executed to convey the necessary information in a form that is readily usable in the field. Working drawings are an important part of this entire work and communications.</p> <p>This studio aims to transmit the art of preparing a complete, faithful, and accurate graphic depiction of the project's design concept. To understand an approach to design and drawing in reference to building material assemblies, construction system and building technology.</p>
AR – 602	Building Construction - VI	<p>Interior construction partition ceiling floor and furniture Toilet and swimming pool Concrete and steel structures and large span structure Shell, folded slab, portals Construction, structural, expansion and seismic joints Service / AC, Well duct Shute, Vertical Transportation- Lift, Escalators, Elevators,</p>
AR – 603	Structures - VI	<p>Design of Low Rise Residential Buildings(G+3 Buildings) Types of retaining wall, design of cantilever retaining wall without surcharge, reinforcement details Structural concept of flat slab, waffle slab, folded plate, shells, hyperbolic and Shear wall. Pre stressed concrete - construction method, design of simply supported pre stressed beam, earthquake tips.</p>
AR –604	History of Architecture –V (DESIGN THEORY)	<p>Modern and contemporary (world and Indian) Artistic movements like Bauhaus, De Stijl, Art Nouveau, CIAM etc. Modernism in Europe & the US (Louis Sullivan, Frank Lloyd Wright, Mies Van Der Rohe, Le Corbusier, Alvar Aalto, Eero Saarinen, Louis Kahn Post Modernism: Philip Johnson, Charles Moore, Michael Graves, Richard Meir, James Sterling & others Architecture and Deconstructionism and Post-structuralism Contemporary Architecture</p>
AR – 605	Estimating, Costing & Specifications	<p>Introduction, types of estimates, definitions of terms, data required for preparation of estimates, items of work, mode of measurement of all items of work, units of measurement. Specifications of different building items. General specification and detailed specification of Earthwork, brick masonry, RCC and PCC, plastering, wooden doors and windows/Tiles/Painting Importance, purpose and use of rate analysis. Factors affecting the rate analysis, rate analysis of major items of building works rate analysis of masonry, BBCC, RCC slab, plaster Factors effecting cost of work task work, general information regarding S.O.R, Introduction to BOQ.</p>
AR – 606	Heritage & Conservation	<p>Developing awareness and sensitivity towards building heritage ,History of Conservation and its significance, Role of architect in Conservation Criteria for listing Heritage building, Critical appraisal of status of the building/buildings, Grading of Historic settlements Factors for deterioration of building Conservation and preservation techniques of existing usage ,Adaptive reuse of a building</p>
AR – 607	Special Subject -I	<p>Special Subjects can be offered from the suggested list of subjects or considering the requirement and design pedagogy of the institute. All special subjects are mandatory and students would need to submit and clear all the term work.</p>
AR – 608	Special Subject -II	

Gujarat University

B. Arch. Syllabus (2015)

Semester – VII Content Outline

AR – 701	Studio - VII	<p>The Office Training of sixteen week duration (under a Registered Architect only) envisages the following varied experience in order to ensure exposure of a student to various tasks.</p> <ul style="list-style-type: none">a. Office experience in respect of preparation of working drawing, detailing drawings of perspective, preparation of architectural models, study of filing systems of documents, drawings, ammonia prints and preparation of tender document.b. Site experience, in respect of supervision of the construction activity, Observation, layout on site, study of the staking methods of various building, materials, taking the measurement and recording. <p>Duration for office training shall be minimum 100 working days, during which student will have to maintain a weekly record of their engagement for the period of training. This will be recorded in an authorized log-book to be counter-signed by architect at the end of each month. At the end of the training period, student will have to procure a certificate of training and satisfactory performance from the concerned office in the prescribed form. Certificate of satisfactory completion of training shall be submitted along with the report and drawings made during the training period and the student will appear for Viva-voce at a prescribed date by the university.</p>
----------	--------------	--

Gujarat University
B. Arch. Syllabus (2015)
Semester – VIII Content Outline

AR – 801	Studio - VIII	A choice of studios is offered in this course. The studios focus on developing an understanding of complex issues related to urban settings through projects varying from urban inserts, urban housing and institutional design. Students are exposed to multiple design methods and are expected to propose innovative yet contextual response to the given conditions.
AR – 802	Advanced Construction	In today's times the construction activities is undergoing lots of changes/developments due to internal and globalised market demands of quality and faster completion of project works using modern techniques, use of modern and waste materials, and through mechanized construction advance aspects of construction technology will be covered. <ul style="list-style-type: none"> • Modern Materials and Equipment used in Special Constructions • Construction of high rise structures
AR – 803	Design Seminar - I	This course will focus on the understanding and documenting essentials of architectural experiences and meanings, issues in contemporary architecture. It aims at sensitizing students towards critical writing which shall enable them to understand and interpret human activities and architectural qualities in changing contexts using relevant mediums.
AR – 804	Construction & Project Management	Introduction, phases of construction project, Indian construction industry need of construction management, stakeholders of construction management, organizing for construction project management. Construction planning: types of project plans, work break down structure, bar charts, CPM and PERT network analysis Project scheduling and Resource leveling: Resource allocation, Importance of project scheduling, Construction equipment management, construction material management: material management functions, Construction project cost and cost and value managements: Project cost management, collection of cost related information, cost codes, cost statement, value management in construction, steps, value engineering application in a typical case project. Construction quality management: Construction quality, Inspection, Quality control and Quality assurance in projects, total quality management, principles of quality management systems, Construction safety management: Evolution of safety, accident causation theory, unsafe conditions, unsafe acts health and safety act and regulation cost of accidents, Role of safety personnel, Accident causes and principles of safety, Safety and health management system.
AR – 805	Special Subject -I	Special Subjects can be offered from the suggested list of subjects or considering the requirement and design pedagogy of the institute. All special subjects are mandatory and students would need to submit and clear all the term work.
AR – 806	Special Subject -II	

Gujarat University
B. Arch. Syllabus (2015)
Semester – IX Content Outline

AR – 901	Studio - IX	In this studio, students design their own architectural program and building based on their interests and chosen direction. Emphasis is given on program formulation, identification of theoretical concepts and selection of appropriate design processes. This studio exposes students to the unity of architectural thought while also giving them an understanding of the various specializations that have evolved over time. Design of complex buildings and campuses involving analytical studies of building and spaces from sociological, economic and cultural points of view may be included. Each student's work shall include intensive research on the above points and shall include briefs on selection of site, methodology of dissertation, designing of the selected project and proper presentation of the drawings.
AR – 902	Research Methodology	This lecture course exposes students to research methodology, to enable them to take up a research problem in their thesis work and also in their future research endeavors. This introductory course on research methods, with emphasis on architecture, covers at length designing and conducting research through a series of input lectures and assignments. Topics covered include writing the research proposal and its components, research design, various research methods commonly employed in architecture, methods of analysis, use of language, use of software, plagiarism and writing the research document. This lecture course is designed to support students in developing their research projects and to assist them in defining their mode of enquiry. The course has been constructed to guide students through a range of issues and considerations, which should inform their general approach to research as a foundation course for the final semester.
AR – 903	Design Seminar -II	The purpose of this seminar is to develop relevant skill towards practical reasoning and decision making for various urban design interventions. It aims at efficiently using tools & techniques to understand & document the process of describing & designing urban environments and also, preparing details for specific elements of site and urban development.
AR –904	Professional Practice	Study of office practices, Office administration, Accounting, Building Bye-laws, Tendering, Contracts and Arbitration, Valuation, Professional conduct and ethics, Architects Act 1972, Role of COA, IIA and UIA, Office set up and administration, filing and recording of letters and drawings. Nature of partnership, registration of firm and dissolution. Practice Procedure and conduct, membership of professional organization. Code relation to Architectural Competition. Architect's Services and scale of normal and partial fees.

Gujarat University
B. Arch. Syllabus (2015)
Semester – X Content Outline

AR – 1001	Studio - X	<p>During the chores of nine semester architectural journey; a student develops an inclination and interest in issues pertaining to society and built environment. With this background a student will undertake design thesis (sustained by extensive research work) to study & explore an area of interest of student's choice within the realm of architecture; in reasonable depth, complement the project proposal and prepare a dissertation report / presentation drawings at the end of the semester.</p> <p>Student may also pursue research thesis program, which will enable him to perform at a higher professional / academic competence and to develop attitude towards research. The progress of the student is evaluated through interim reviews and a final viva voce.</p>
-----------	------------	---