

AR-101

CODE	SUBJECT	CREDITS
AR-101	DESIGN STUDIO-I	03
FOCUS		
	Introduction of basic fundamentals of design and design vocabulary	
OBJECTIVE		
	The course will introduce students to the design fundamentals with respect to function and aesthetics.	
CONTENT		
	<ol style="list-style-type: none">1. Perception of Functions and Importance in Design.2. Important function in relation to its forms, realizations of the dimensions and related proportion. The importance of Human Dimensions in working out the size and volume which leads to solution of arriving to the space for various activities.	
METHODOLOGY		
	Exercise <ol style="list-style-type: none">1. To understand the form is to draw an object in relation to the hand.2. Measure drawing of he articles within the kitchen and to study the relative proportions.3. With the help of measured objects to arrive a dimension of useable functional space in 2D.4. Study of Anthropometry with a dimension for the various activities of day to day life.	
REFERENCES:		
	<ol style="list-style-type: none">1. Form Space and Order – Francis D.K.Ching2. Design in Architecture – Geoffrey Broadbent3. How Designers Think – Bryan Lauson4. Introduction to Architecture – James Snyder, Anthony Caterex5. Art of Seeing – Paul Zelenski	

AR-102

CODE	SUBJECT	CREDITS
AR-102	BASIC DESIGN-I	06
FOCUS		
	Fundamentals of visual perception and the perception and principles of aesthetics.	
OBJECTIVE		
	To create the sense of perception in relation to the nature and the principles of life and creating the forms, studying the rhythm or balance contrast and spaces in 2 dimensions.	
CONTENT		
	1. Drawing and sketching exercises. 2. Analysis of visual impressions and representing in various media. Understanding of elements of visual perception – line, form, space, point to line, order, rhythm, harmony, balance and contrast.	
METHODOLOGY		
	Skills to be developed through a series of studio exercises with model making in the workshop classes. Skills to be developed through the studio exercise for creating the form from point to line - form to line says formal and informal forms. Exercise for order, positive and negative spaces, balance – formal and informal balances, harmony, rhythm, splitting of the form, compositions with 2D and different texture and colour. The composition of the different forms in 3D with different materials, colors and textures with knowledge of property and nature of materials.	
REFERENCES:		
	1. Form, Space & Order- Francis K.Ching 2. Free hand Drawing Self Taught - Arthur Guptill 3. Pencil Sketching- Thomas Waug 4.Experiencing Architecture - Rossmassen 5. Pattern Languages - Christopher Alexander 6. Form, Space & Order - D. K. Ching 7. Principles of Basic Design - Vol. 1 to 4 – Maier Manfred	

AR-103

CODE	SUBJECT	CREDITS
AR-103	BUILD. CONSTRUCTION-I	03
FOCUS		
	Stone and Brick Masonry	
OBJECTIVE		
	Understanding different construction techniques for chosen materials, building elements and composite architecture	
CONTENT		
	<ol style="list-style-type: none">1. Building Elements – functions and Design<ul style="list-style-type: none">o Functional Requirement of Buildingo Important Building Componentso Foundation, Plinth and Superstructure2. Stone Masonry<ol style="list-style-type: none">a. Techniques with examplesb. Case studies of buildingsc. Landmark structures3. Brick Masonry<ol style="list-style-type: none">a. Techniques with examplesb. Types of Brick masonryc. Case studies of Buildings with exposed brickworkd. Landmark structures4. Mud Construction.	
METHODOLOGY		
	Lectures on basic construction of building. Studio exercises and case studies. Study of various components of existing building through sketches & models. Site visit.	
REFERENCES:		
	<ol style="list-style-type: none">1. Construction of Building Vol. -I- R.Berry2. Building Construction Metric Vol. -II- W.B.Mckay3. Construction Technology Vol. -I- Chudley4. Building Construction Illustrated - Fransis D.K.Ching.	

AR-104

CODE	SUBJECT	CREDITS
AR-104	BUILDING MATERIALS-I	02
FOCUS		
	Introduction to basic building materials	
CONTENT		
	Materials: Mud, Bricks, Stone, timber, lime, cement. Different types of timber, their seasoning quality etc. Their physical and behavioral properties, methods of application, criteria for selection of materials based on design.	
METHODOLOGY		
	Theory in the class with given assignments and practice questions, sketching And drawing, in class - interactions, case studies & final exam and final submission of class works.	
REFERENCES:		
	Engineering Materials – <i>S.C. Rangwala</i> (course book) Building Materials – <i>B.C. Punamia</i> (Additional Reference) Time Savers Standards – Building Materials and Systems – <i>Donald Watson</i> (Advanced Reference)	

AR-105

CODE	SUBJECT	CREDITS
AR-105	STRUCTUTRE-I	02
FOCUS		
	Behavior of materials and basic structural systems.	
CONTENT		
	<ol style="list-style-type: none">1. Glossary of technical words, natural structures and intuitive understanding of their behavior, their relationship with man made structures.2. Functions of structures. Primary and secondary forces acting on structures – gravitational force, live load, wind, temperature variation. Types of supports & their characteristics.3. Analysis & design – Design criteria.4. Primary elements of structure and their behavior.5. Factor of safety & factors affecting it. Characteristics of Structural design – strength, stiffness and stability. Discussion on factors affecting them and ways of satisfying these requirements.6. Study of behavior of structures through models and testing them for given load.	
METHODOLOGY		
	Through class lectures, Presentations, site visits, case studies and making models & testing them.	
REFERENCES:		
	<ol style="list-style-type: none">1. Structure in Architecture - Mario Salvadori2. Building Structure Primer - James E Ambrose3. Structures - Schodeck4. Structural Concepts and Systems for Architecture & Engineers - T.Y.Lin.5. Elements of Structure - Morgan	

AR-106

CODE	SUBJECT	CREDITS
AR-106	HUMANITIES-I	02
FOCUS		
	CULTURE AND CIVILIZATION. 1. Understanding the concept of Culture and its components. 2. Appreciation of various cultural expressions through instruction and experience.	
CONTENT		
	1. Understanding the concept of Culture through the discussions on its important factors. The practical/written assignments on the issues which reflect a regions culture, like the assignment on forgotten games of childhood, the discussion on the dying trades and in g eneral trades that symbolizes a region's culture and the collection of information/visuals and opinion of cities and its architecture of their birth. 2. Introduction to the concept of art and its expressions; like initiation to various art forms and its interrelationship.	
METHODOLOGY		
	Exercises based on the above Objectives.	
REFERENCES:		
	-House form & culture-Amos Rapoport -Letters to Daughter- Jawaharlal Nehru -Glimpses of World History - Jawaharlal Nehru -A Short History of Everything- Bill Bryson.	

AR-107

CODE	SUBJECT	CREDITS
AR-107	A.G.T.-I	03
FOCUS		
	To develop an understanding of technical drawing as a tool for communication.	
CONTENT		
	<ol style="list-style-type: none">1. Introduction & Use of Drawing Instruments2. Line Exercise3. Lettering4. Orthographic Projections<ul style="list-style-type: none">• Solids• Planes• Lines, Points5. Orthographic Projections: Inclined Objects6. Sections of Solids7. Auxiliary Projections8. Development Of Surfaces.	
METHODOLOGY		
	Various drawing exercises and making models of basic geometrical solids.	
REFERENCES:		
	Engineering Drawing - N. D. Bhatt Essentials of Drafting - B. James Rendering with pen and ink - Gill Robert	

AR-108

CODE	SUBJECT	CREDITS
AR-108	DRAWING & PAINTING-I	02
FOCUS		
	Learning the basic skills of sketching and drawing the given object or the place.	
CONTENT		
	Introduction to basic elements of visual art. The practical exercises include: <ol style="list-style-type: none">1. Exploration in making different quality of lines on different surfaces.2. Drawing the shapes/forms from memory and from observation: Contour drawings.3. Sketching of forms, esp. Human Form in its surrounding and Natural Objects.4. Observation and creation/play of textures through rubbing and visual perception.5. Outdoor sketching: People and Places.	
METHODOLOGY		
	Freehand sketching and drawing with different grades of pencils, charcoal sticks and <i>Kittas</i> (with Fountain Pen Ink), on different qualities of papers.	
REFERENCES:		
	<ul style="list-style-type: none">- Design Drawing – Francis D.K. Ching- Rendering with Pen and Ink – Robert W. Gill- The Natural Way to Draw – Kimon Nicholaides- Drawing / Thinking – Edi. Mark Treib.	

AR-109

CODE	SUBJECT	CREDITS
AR-109	COMMUNICATION SKILLS-I	01
FOCUS		
	The aim is to enhance the student's ability to understand and converse in English and to be able to score a satisfactory score in the competitive areas.	
CONTENT		
	Foundational component: 1. Understanding the basic structure of the language 2. Grammar, vocabulary, speech and other parts of the language 3. Using the language for communication purpose 4. Understanding essential grammar and translation 5. Using accent and rhythm correctly.	
METHODOLOGY		
	Teaching and instruction will involve the use of lecture -cum-workshop mode most of the time. The focus in teaching and instruction will be learner-oriented and every effort will be made to maximize student participation with learners as partners in classroom explorations. Thus there will be oral and written presentations.	
REFERENCES:		
	1. Enrich Your English. Communication Skills Book.-S R Inthira and V Saraswathi. 1995. 2. High School Grammar - Wren and Martin.	