


Details of Certificate Courses for Academic Year 2020-21


Course Code	BARE121 ELECTIVES SR		
Course Name	Architectural Sketching & Rendering		
Course Instructor	Ar. Mukund dalvi		
Year of Studies	1st Year B. Arch	Semester	I
Max. no. of Students	90	Duration	12 Weeks
Course Content			
Architectural sketching & rendering is the process of creating two-dimensional and three-dimensional images of a proposed architectural design. The aim of this course is to make students aware about the various hand rendering techniques which can be used to enhance the presentation of the architectural drawings.			
Expected Outcomes			
Students are expected to render the given architectural sketch/design in various mediums of rendering taught in the studio.			
Assessment Procedure			
Progressive weekly assessment for each kind of rendering technique taught			
Course Code	BARE221 ELECTIVES SK		
Course Name	Learning through Sketching		
Course Instructor	Ar. Prachitee Lad		
Year of Studies	1st Year B. Arch	Semester	II
Max. no. of Students	90	Duration	12 Weeks
Course Content			
The core intent of the course is to encourage visualisation and observation in the everyday object. The chosen object was further dissembled to understand the mechanism and fixity.			
Expected Outcomes			
The assembly of the chosen object was illustrated as an exploded isometric view. In addition the components were rendered based on the materials and textures			
Assessment Procedure			
Progressive weekly assessment for each kind of rendering technique taught			



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Course Code	BARE321 ELECTIVES AS		
Course Name	Architectural Softwares- AutoCAD and SketchUP		
Course Instructor	Ar. Deepa Desai, Ar. Ninad Sansare		
Year of Studies	2nd Year B. Arch	Semester	III
Max. no. of Students	90	Duration	14 Weeks
Course Content			
Learning architectural softwares is an essential skill set for contemporary architectural practices. Learning AutoCAD for the complex architectural drafting and SketchUP for the digital 3D form modulation enhances the creative ability of architectural students to understand space. This course aims to study basic and advanced commands for AutoCAD and SketchUP.			
Expected Outcomes			
Students are expected to produce computer aided 2D and 3D drawings for a small residential house designed in their previous semester.			
Assessment Procedure			
Progressive weekly assessment for small assignments to understand various commands in AutoCAD and SetchUp. Larger stage markings dealing with drafting of previous years design on the software in 2D and 3D			
Course Code	BARE421 ELECTIVES EN		
Course Name	English Language		
Course Instructor	Ar. Mridula Pillai		
Year of Studies	2nd Year B. Arch	Semester	IV
Max. no. of Students	50	Duration	14 Weeks
Course Content			
English language learning will allow everyone to communicate effectively with people from all over the world, making knowledge sharing a lot easier and helping them to learn more about different cultures. This course aims to enhance students' fluency and command of the English language through various modes of communication skills.			
Expected Outcomes			
Students are expected to participate in the class discussions and weekly individual assignments based on the various aspects of English language communication skills.			
Assessment Procedure			
Progressive weekly assessment of improvement in spoken and written language shown			


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Course Code	BARE421 ELECTIVES FA		
Course Name	Films and Architectural Representation		
Course Instructor	Ar. Ninad Sansare, Ar. Deepa Desai		
Year of Studies	2nd Year B. Arch	Semester	IV
Max. no. of Students	50	Duration	14 Weeks
Course Content			
The representation of space in film is sculpted from the narrative, a meaningful construction of emotional space within the context of the story. Similar to experiencing a real space, a film's sophisticated language has the ability to transport the audience to the time and place of the story. This course aims to study space depicted in films to understand the narrative and its relation to the architectural representation.			
Expected Outcomes			
Students are expected to create a presentation inspired by the given film's narrative with an innovative architectural representation style to convey the same.			
Assessment Procedure			
Progressive weekly assessment for ingenuity and creativity in translation into architecture on a fortnightly basis			
Course Code	BARE521 ELECTIVES CS		
Course Name	Climate Simulation		
Course Instructor	Ar. Swanand Mahashabde		
Year of Studies	3rdYear B. Arch	Semester	V
Max. no. of Students	60	Duration	12 Weeks
Course Content			
This elective course is an extension to the subject of EVS and introduces basic climate simulations as a means to implement EVS learning from semester 1 till 3.			
Expected Outcomes			
Students learn on how to draw inferences from climate data and charts. Learn basic simulation for natural ventilation, shadow analysis and insolation analysis			
Assessment Procedure			
Stagewise assignment based assessment: 1. Inferences from climate data and charts. 2. Basic simulation for natural ventilation, shadow analysis and insolation analysis			


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Details of Certificate Courses for Academic Year 2020-21

Course Code	BARE621 ELECTIVES DD		
Course Name	Dissecting Discourses		
Course Instructor	Ar. Charvi Kamat, Ar. Mugdha Bakade		
Year of Studies	3rdYear B. Arch	Semester	VI
Max. no. of Students	20	Duration	14 Weeks
Course Content	Expose the students to all sorts of learnings available out there; in the form of various media; so that the student's understanding can be informed based on facts that they have uncovered and not depend on others for their opinion.		
Expected Outcomes	The elective is structured in such a way that it will enhance the student's way of thinking and self expression. Along the semester the students will be involved in various exercises that will help them present their ideas, understanding and informed opinions in a better manner. The subject will also require the students to be proactive and willing to read and explore new materials to enhance their ability to express themselves.		
Assessment Procedure	Stagewise assessment for presentations and informed critiquing		


Course Code	BARE621 ELECTIVES AF		
Course Name	Architectural Fiction		
Course Instructor	Ar. Mildred Jose		
Year of Studies	3rdYear B. Arch	Semester	VI
Max. no. of Students	20	Duration	16 Weeks
Course Content	Cities are impregnated with memory, association, recall and resonance. They express multiple stories, meanings with evolving spatial forms and urban compositions. As 'Story telling' is about the construction of stories by setting up a time-line of events, design is based on the 'physical narration' by organizing spatial relationships. The elective focuses on building up an analogy of city building between these two processes of 'story telling' and 'spatial design'.		
Objectives and Expected Outcomes	<ol style="list-style-type: none"> 1) To enable one to be familiar with representing literary texts and vice versa 2) To be able to apply critical and theoretical approaches to analysis of literary texts 3) To identify, interpret ideas/themes that impact the future 4) To improve on communication skills 5) To adapt to new mediums to create multi-layered interactive stories/ experiences by a multitude of inputs 		
Assessment Procedure	Stagewise assessment of <ol style="list-style-type: none"> 1. Critical and theoretical approaches to analysis of literary texts 2. Interpretation of ideas/themes that impact the future 3. Communication skills 4. Create multi-layered interactive stories/ experiences by a multitude of inputs 		

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Course Code	BARE621 ELECTIVES DL		
Course Name	Daylighting		
Course Instructor	Ar. Swanand Mahashabde		
Year of Studies	3rdYear B. Arch	Semester	VI
Max. no. of Students	20	Duration	12 Weeks
Course Content	The elective course introduces students to the use of daylighting in architecture space with help of basic simulation techniques		
Expected Outcomes	Understand importance of daylighting in building design. Understanding use of natural light through works of master architects. understand design solutions through analysis with basic software		
Assessment Procedure	Assessment of critical analysis of case studies of master-architect buildings, assessment of use and inference of assignment done using software in a stagewise manner		
Course Code	BARE721 ELECTIVES GL		
Course Name	Effective use of Glass in the Built Environment		
Course Instructor	Ar. Mridula Pillai		
Year of Studies	4th Year B. Arch	Semester	VII
Max. no. of Students	70	Duration	12 Weeks
Course Content	Understanding the manufacturing process of glass , so as to understand the embodied energy in its manufacture. Factors affecting the choice of Glass in the built environment through point of view of various stakeholders. Understand the Mechanical, Thermal & optical properties of glass. Understanding the Value Addition to the Glass- Tints, Coatings, fretting, toughening and lamination. Understanding the Glazing types. Energy Performance of Coated Glass for various Glazing type and comaprision with the ECBC standards. understanding the choice and assembly of glazing type through LBNL's Window software.		
Expected Outcomes	Students are taught to choose the glazing type for various climatic conditions, based on the data available through the LBNL's Window software. Using the data set from the above mentioned exercise is further used to analyse the performance in an conventional building using the spreadsheet calculations. These calculations takes into an Window to Wall Ratio (WWR) for all the cardinal directions. In addition these parameters are isolated to check the change in the building performance for the cooling loads.		
Assessment Procedure	Assessment of 3 set assignments - 1. Effect of change in gap in the U-value and optical properties of a glazing system 2. Creation of Glazing Systems and Window systems for 2 diverse climatic conditions 3. Calculation of change in Annual Space-conditioning load using spreadsheet for change in Glazing System and change in WWR		


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Details of Certificate Courses for Academic Year 2020-21			
Course Code	BARE921 ELECTIVES CM		
Course Name	Introduction to Construction Management		
Course Instructor	Ar. Meghana Patil		
Year of Studies	5th Year B. Arch	Semester	IX
Max. no. of Students	20	Duration	16 Weeks
Course Content			
1. Roles and responsibilities of a construction manager 2. Project delivery methods, types of projects and scales of projects. 3. Management of money, time, men, material and machinery. 4. Learning about various planning techniques, PERT & Critical Path Method (CPM) 5. Risk evaluation, mitigation and management 6. Learning about bids, negotiations and tendering methods 7. The importance of avoiding and learning from mistakes. Impact of global and national policies on project planning and business			
Expected Outcomes			
Students form groups of 4-6 students each. Each group selects a small/medium-scale live architectural/ interior execution project for study. They are to identify all the discussed factors that a Construction manager deals with; within their projects and represent the information graphically. They shall analyze and present aspects of time, money, man management, material and machinery assessment.			
Assessment Procedure			
Assessment in stages -			
1. Identification of factors dealt with by a Construction Manager on site, and representation of information 2. Analysis and presentation of time as an aspect 2. Analysis and presentation of money as an aspect 2. Analysis and presentation of man-management as an aspect 2. Analysis and presentation of material and machinery as an aspect			
Course Code	BARE921 ELECTIVES ER		
Course Name	Earthquake Resistant Architecture and Passive design		
Course Instructor	Ar. Sachin Prabhu		
Year of Studies	5th Year B. Arch	Semester	IX
Max. no. of Students	20	Duration	12 Weeks
Course Content:			
Understanding of Earthquake, Why Earthquakes on planet Earth? Measurements of Earthquake shakings, Analysis of Last Century Earthquakes in India, Understanding effect of Earthquakes on buildings with respect to their strength. Design strategies to make Earthquake Resistant buildings. Load bearing structures in Bricks and Stones. Frame structures and different strategies to make them Earthquake Resistant Buildings. Passive Design: Understanding of making buildings less energy consuming at schematic and planning level. Understanding Sun-path and possible wind flows to gain more natural sunlight and winds (Air-circulation) inside the building. Zoning of the building and fragmentation (Scooping) of the building is done to achieve maximum day-light and cross ventilation.			
Expected Outcomes:			
Students are designing G+1 Bungalow in Load-bearing (Submission 1) and RCC (Submission 2) frame structures as Earthquake resistant structure. They are showing different Earthquake resistant remedies in plan, section, elevations and working details. By understanding sun-path and possible wind directions, same bungalow plan is zoned and scooped out (fragmented) to get more Day-light and cross ventilation. (Submission 3)			
Assessment Procedure			
3 assessments for the 3 mentioned submissions as given above			


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Course Code	BARE921 ELECTIVES HC		
Course Name	Heritage Conservation		
Course Instructor	Ar. Deepa Desai, Ar. Alisha Acharya		
Year of Studies	5th Year B. Arch	Semester	IX
Max. no. of Students	20	Duration	12 Weeks
Course Content			
1. Introduction to Heritage 2. Framework and Broader Nexus of heritage 3. Role of a conservation architect 4. Scales of Conservation 5. Trade and trade Routes in Ancient India and Central Asia 6. Transnational Heritage 7. Neighborhood renewal 8. Architectural Conservation 9. Imageability			
Expected Outcomes			
Students are expected to identify and document the existing heritage in Indian cities. Based on that they are expected to generate value assesment document and to generate representation drawing for the same.			
Assessment Procedure			
Assessment in stages for identification of heritage, value assessment document and representation drawing			
Course Code	BARE921 ELECTIVES RF		
Course Name	Redevelopment & Feasibility		
Course Instructor	Ar. Anmol Warang		
Year of Studies	5th Year B. Arch	Semester	IX
Max. no. of Students	20	Duration	12 Weeks
Course Content			
Redevelopment' implies demolition of existing structure and building completely new structure. It is the most widely used tool for the upgradation of infrastructure and urban regeneration in Mumbai. The elective on Redevelopment discusses the importance of thoughtful redevelopment through an understanding of processes, rules and regulations, current trends and practices, etc. The student participants gain knowledge of various aspects that impact and issues that plague the redevelopment system.			
Expected Outcomes			
1. Understand the processes, rules and regulations governing the redevelopment of buildings in Mumbai. 2. Understand various clauses and sections of the MCGM DCPR 2034. 3. Gain knowledge about the historic development of Mumbai and the impact of past development strategies on the current status of Redevelopment., 4. Understand financial feasibility calculations to infer the possibility of success for redevelopment projects.			
Assessment Procedure			
Assignment based assessment for small exercises done for each aspect of understanding through the course.			



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Course Code	BARE921 ELECTIVES AL		
Course Name	Advanced Landscape		
Course Instructor	Ar. Swanand Mahashabde		
Year of Studies	5th Year B. Arch	Semester	IX
Max. no. of Students	20	Duration	12 Weeks
Course Content	This elective introduces students to advanced theories and concepts in landscape design and landscape planning and encourages students to research on site and city related concerns.		
Expected Outcomes	Students conduct individual and collaborative research on smaller topics along with analytical studies on maps and diagrams.		
Assessment Procedure	Progressive assessment on chosen area o research and diagrammatic analysis on a weekly basis		
Course Code	BARE1021 ELECTIVES PA		
Course Name	Comprehensive Project Assessment		
Course Instructor	Ar. Swanand Mahashabde		
Year of Studies	5th Year B. Arch	Semester	X
Max. no. of Students	60	Duration	12 Weeks
Course Content	This elective course encourages students to assess their own design dissertation / thesis projects under set criteria encompassing topics of site analysis, sustainable strategies, water usage, LCA/LCC etc.		
Expected Outcomes	Student produce a report with explanation of their thesis project with analysis and evidence against each criteria to be assessed.		
Assessment Procedure	Assessment in for each parameter in stages: 1. site analysis 2. sustainable strategies used in design 3. LCA		


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