


Bombay Suburban Art and Craft Education Society's

**L. S. RAHEJA SCHOOL OF ARCHITECTURE****Details of Certificate Courses for Academic Year 2018-19**

Course Code	BARE121 ELECTIVES CS		
Course Name	<b>Communication Skills</b>		
Course Instructor	Mr. Pillai		
Year of Studies	1st Year B. Arch	Semester	I
Max. no. of Students	50	Duration	16 Weeks
Course Content	Communication is defined as the ability to convey or share ideas and feelings effectively. In Architectural practice narrative building is an essential process to justify and convey the intent and impact of architectural design. This course aims to provide students with a foundational training regarding effective and eloquent communication skills.		
Expected Outcomes	Students are expected to participate in the class discussions and weekly individual assignments based on the various aspects of communication skills.		
Assessment Procedure	Weekly assessments based on a progressive improvements in communication skills, along with one assessment for a final speech		
Course Code	BARE121 ELECTIVES SR		
Course Name	<b>Architectural Sketching &amp; Rendering</b>		
Course Instructor	Ar. Mukund dalvi		
Year of Studies	1st Year B. Arch	Semester	I
Max. no. of Students	50	Duration	16 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		




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**L. S. RAHEJA SCHOOL OF ARCHITECTURE****Details of Certificate Courses for Academic Year 2018-19**

Course Code	BARE221 ELECTIVES CS		
Course Name	<b>Communication Skills</b>		
Course Instructor	Mr. Pillai		
Year of Studies	1st Year B. Arch	Semester	II
Max. no. of Students	50	Duration	16 Weeks
Course Content			
Communication is defined as the ability to convey or share ideas and feelings effectively. In Architectural practice narrative building is an essential process to justify and convey the intent and impact of architectural design. This course aims to provide students with a foundational training regarding effective and eloquent communication skills.			
Expected Outcomes			
Students are expected to participate in the class discussions and weekly individual assignments based on the various aspects of communication skills.			
Assessment Procedure			
Weekly assessments based on a progressive improvements in communication skills, along with one assessment for a final speech			

Course Code	BARE221 ELECTIVES SR		
Course Name	<b>Architectural Sketching &amp; Rendering</b>		
Course Instructor	Ar. Mukund dalvi		
Year of Studies	1st Year B. Arch	Semester	II
Max. no. of Students	50	Duration	16 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			
Weekly assessments based on a progressive improvements in communication skills, along with one assessment for a final speech			




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**L. S. RAHEJA SCHOOL OF ARCHITECTURE****Details of Certificate Courses for Academic Year 2018-19**

Course Code	BARE321 ELECTIVES CO		
Course Name	<b>Computer Training Part 1 (Autocad)</b>		
Course Instructor	Mr. Mate		
Year of Studies	2nd Year B. Arch	Semester	III
Max. no. of Students	60	Duration	16 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 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.		
Course Code	BARE321 ELECTIVES CT		
Course Name	<b>Computer Training Part 2 (Autocad)</b>		
Course Instructor	Mr. Mate		
Year of Studies	2nd Year B. Arch	Semester	IV
Max. no. of Students	60	Duration	16 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 advance commands for AutoCAD and SketchUP.		
Expected Outcomes	The students at the end of the course are expected to be able to use the software in design and other subjects and develop their skills during the course.		
Assessment Procedure	Assessments at stages dealing with drafting of previous years design on the software in 2D and 3D		




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**L. S. RAHEJA SCHOOL OF ARCHITECTURE****Details of Certificate Courses for Academic Year 2018-19**

Course Code	BARE521 ELECTIVES AP		
Course Name	<b>Architectural photography</b>		
Course Instructor	Mr. Viraj Shirodkar		
Year of Studies	3rdYear B. Arch	Semester	V
Max. no. of Students	80	Duration	16 Weeks
Course Content	Understanding use of photography as a tool to document architectural and interior designs with use of digital camera and cell phones		
Expected Outcomes	Students submit a short portfolio of images taken on specific themes		
Assessment Procedure	Assessment of final submission of portfolio		
Course Code	BARE521 ELECTIVES FC		
Course Name	<b>Form and facade development through climate simulation</b>		
Course Instructor	Ar. Swanand Mahashabde		
Year of Studies	3rdYear B. Arch	Semester	V
Max. no. of Students	80	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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**L. S. RAHEJA SCHOOL OF ARCHITECTURE****Details of Certificate Courses for Academic Year 2018-19**

Course Code	BARE621 ELECTIVES DL		
Course Name	<b>Daylighting</b>		
Course Instructor	Ar. Swanand Mahashabde		
Year of Studies	3rdYear B. Arch	Semester	VI
Max. no. of Students	80	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	<b>Effective use of Glass in the Built Environment</b>		
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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**L. S. RAHEJA SCHOOL OF ARCHITECTURE****Details of Certificate Courses for Academic Year 2018-19**


Course Code	BARE921 ELECTIVES HC		
Course Name	<b>Heritage Conservation</b>		
Course Instructor	Ar. Vikas Dilawari		
Year of Studies	5th Year B. Arch	Semester	IX
Max. no. of Students	30	Duration	16 Weeks
Course Content			
<ol style="list-style-type: none"> <li>1. Introduction to Heritage</li> <li>2. Framework and Broader Nexus of heritage</li> <li>3. Role of a conservation architect</li> <li>4. Scales of Conservation</li> <li>5. Trade and trade Routes in Ancient India and Central Asia</li> <li>6. Transnational Heritage</li> <li>7. Neighborhood renewal</li> <li>8. Architectural Conservation</li> <li>9. Imageability</li> </ol>			
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			
End of course assessment based on the final value assessment document submitted			

Course Code	BARE921 ELECTIVES RF		
Course Name	<b>Redevelopment &amp; Feasibility</b>		
Course Instructor	Ar. Anmol Warang		
Year of Studies	5th Year B. Arch	Semester	IX
Max. no. of Students	30	Duration	16 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			
<ol style="list-style-type: none"> <li>1. Understand the processes, rules and regulations governing the redevelopment of buildings in Mumbai.</li> <li>2. Understand various clauses and sections of the MCGM DCPR 2034.</li> <li>3. Gain knowledge about the historic development of Mumbai and the impact of past development strategies on the current status of Redevelopment.,</li> <li>4. Understand financial feasibility calculations to infer the possibility of success for redevelopment projects.</li> </ol>			
Assessment Procedure			
Assignment based assessment for small exercises done for each aspect of understanding through the course.			

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**L. S. RAHEJA SCHOOL OF ARCHITECTURE****Details of Certificate Courses for Academic Year 2018-19**

Course Code	BARE921 ELECTIVES SD		
Course Name	<b>Set Design</b>		
Course Instructor	Mr. Ankit Pallan		
Year of Studies	5th Year B. Arch	Semester	IX
Max. no. of Students	30	Duration	16 Weeks
Course Content			
Set design is the creation of the physical space in which the action of a performed event takes place. This course aims to make students understand the scenery, furniture, props, appearance, and overall look of the stage.			
Expected Outcomes			
Students in groups are expected to design a small scale set for a event allocated to them.			
Assessment Procedure			
Progressive assessment based on creativity and involvement through the process			



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