Mahatma Education Society's

PILLAI COLLEGE OF ARCHITECTURE

Dr. K.M. Vasudevan Pillai Campus, Sector 16, New Panvel, Mah. India 410 206. Tel.: 022 2745 6100 /2745 1700 / 27481764 Fax: 022 2748 3208 WEB SITE : www.pica.ac.in Email:pica@mes.ac.in, pica.panvel@gmail.com



1.2. Academic Flexibility

1.2.1 List of Programmes in which choice based credit system (CBCS)/ Elective course system has been implemented

AY 2023-24	Sem	Choice based credit system (CBCS)/ Elective course
Sr. no.		B.Arch
1	Sem 1	Fine Arts
2		Elements of Space making
3	Sem 2	Painting and Sculpture
4	Sem 3	Geometry in Architecture
5		Earthquake resistant buildings
6		Communication skills
7	Sem 4	Idea, Innovation & Patenting
8		Pre Design studies
9		Architecture, Anxiety and spirituality
10		Principles & Application of building sciences
11	Sem 5	Disaster relief shelter -
12		Project Management
13		Transportation
14	0	Parametric Design
15	Sem 6	Communication & organization management
16	Sem 7	Digital Tools and Techniques
17	Som (Arch Heritage and conservation
18	Sem 9	Illustrations as Design Narratives
19	Sem 10	BIM
		M.Arch
20	Som 1	GIS
21	Semil	Mapping and Representation

INDEX

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22	Som 2	Urban & Architectural conservation
23	Sem 2	Theory & Methods of Urban Design
24	Sem 3	Real Estate & Land Management in Urban Design
25	Sem 4	UD Seminar

PRINCIPAL PILLAI COLLEGE OF ARCHITECTURE Dr. K. M. Vasudevan Pillai Campus, 10, Sector-16, New Panvel-410 206.



M.E.S.							
PILLAI COLLEGE OF ARCHITECTURE , New Panvel							
COURSE REPORT							
Subject: Elective		Term: l		AY: 2023-24			
Course Code: 121	Credits : 03	Semester: 1	No of Periods per week : 1		eek : 1		
Total Marks: 50	Internal: 50	External: N/A	Theory Paper: N/A				

Faculty:	Subject coordinator : Prof. Jayesh Patil
	Team Members: Prof Kedar Shinde, Prof. Sahil, Prof. Mahesh

INTRODUCTION:

Fine art plays a crucial role in the education of architecture students. It provides a foundation for creativity, expression, and the development of skills. Fine art encompasses various artistic disciplines, including painting, sculpture, drawing, and more.

Methodology:

Aim: Fine art elective for architecture students can enhance their creative and design skills. It improve their sketching and visualization abilities. Learning this subject will enhance their awareness. It will help them in freehand sketching and hands-on working.

Objectives:- 1- Execution of types of lines, shapes, forms, natural objects, manmade objects using different types of pencils, pens, colours, papers, etc.

2- Water colour handling - Different types of water colours (poster, water and acrylic) and application of these in their assignments as per the instructions.

3- Outdoor sketching (Urban sketches, Natural objects, human figures with their proportion)

4- 2D designs - Composition using geometrical shapes and forms and their shape and shadow.
5- Different types of color schemes - Monochromatic color scheme, Complementary color scheme, Analogous color scheme and usage/application of this in their assignments when needed.

PROCESS:

1. Please explain the methods of Conduction of classes and studios wrt aim and objectives. An effective and engaging learning environment is created for students. Students are given practical work so that they enhance their experiences, improve their drafting and freehand sketching skills and colour knowledge, various types of pencil handling and implementation skills. The proposed method combines various student - centered ways in order to develop their interest, focus and coordination among groups and knowledge about various fine art materials. Organizing regular lectures and workshops help students improve their work. The lecture are mostly focused on practical work and its process with respect to the techniques. They are guided for making an impressive portfolio to showcase their own work. Many PPT presentations are shown to the students to make them aware about the fundamental and process of their work. It also enhances their presentation skills of their own work. Students are given practical demo of topics and made aware about various techniques to handle things and given knowledge about material required for practical work. Students are taught to handle various types of materials, pencils, etc. Freehand drawing is focused on the lectures and students learn types of lines in freehand drawing. It enhances their control on hand, improves their visualizing and observation skills with the help of outdoor sketching. Landscape painting using water colours and their techniques helps the student to learn about different colours and their application. Pencil rendering, learning shade and shadows and implementing them in their work using pencil rendering is also learnt by the students. Students also learn composition of 2D design using geometrical shapes and other natural or manmade elements as well as application of colours like water or poster colours, pencil colours, with rendering in it.

2. Tools and techniques used for course conduction.

Various tools and techniques are very crucial for a strong foundation of architecture students. They enhance their practical experience and helps in developing their interests in different topics. They can develop and enhance their hands-on work skills.

1- Lectures: Organizing regular sessions and lectures help students improve their work. The lecture are mostly focused on practical work and its process with respect to the techniques. Students are given real world examples of famous architectures. They are guided for making an impressive portfolio to showcase their own work.

2- Presentations: Many PPT presentations are shown to the students to make them aware about the fundamental and process of their work. It also enhances their presentation skills of their own work. Students are given practical demo of topics and made aware about various techniques to handle things and given knowledge about material required for practical work.

3- Drafting: Students are taught about different types of papers and their qualities, and which paper to use for what work as well as regarding developing their drafting skills and materials needed for it, like pencils, water colour pencils, pens, poster colours, etc., and correct way of using them.

4- Sketching: Freehand sketching is the most important part for architecture students. Students are trained in freehand architectural sketching, urban sketching, and outdoor sketching to quickly convey their ideas and concepts. Correct proportions and perspectives of each object is taught to them.

3. Which are the innovative approaches adopted in this semester?

New equipment and materials with tools and techniques were introduced to develop the necessary skills of the students. Types of rotaring pens, micron pens, types of charcoal or colour pencils were taught to handle which helped in increasing the self-confidence of students. Techniques for composition and displaying an art work was introduced and techniques were taught.

- 4. Explain the approaches used to encourage library usage by students and faculty. Students were instructed to read and learn about some architectural histories and some art related books and make notes from the books like sketching master class, Color drawing, Rendering with pen and ink, Drawing shortcuts etc.
- 5. How and to what extent, the aim and objectives are achieved. How COs are aligned to each lecture and assignment and assess the outcomes wrt the same:

An effective and engaging learning environment is created for students. Students are given practical work so that they enhance their experiences, improve their drafting and freehand sketching skills and colour knowledge, various types of pencil handling and implementation skills. The proposed method combines various student - centered ways in order to develop their interest, focus and coordination among groups and knowledge about various fine art materials. Organizing regular lectures and workshops help students improve their work. The lecture are mostly focused on practical work and its process with respect to the techniques. They are guided for making an impressive portfolio to showcase their own work. Many PPT presentations are shown to the students to make them aware about the fundamental and process of their work. It also enhances their presentation skills of their own work. Students are given practical demo of topics and made aware about various techniques to handle things and given knowledge about material required for practical work.

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1st Assignment - Drawing freehand lines enhances hand-eye coordination and fine motor skills.

Without the constraints of tools, individuals often tap into their creativity, exploring unique

shapes and patterns.

Freehand drawing encourages close observation of the subject, helping individuals see and replicate details more accurately.

Over time, practicing freehand lines can boost confidence in one's drawing abilities and overall artistic skills.

Freehand lines often capture spontaneity and emotion, allowing artists to express themselves more freely compared to structured methods.

2nd Assignment - Gradation: Using different grades allows artists to create a range of tones, adding depth, dimension, and realism to drawings or sketches.

Various pencil grades enable artists to capture intricate details and textures more effectively, enhancing the overall quality and realism of the artwork.

With a range of pencils, artists can seamlessly transition between light, medium, and dark shades, achieving a broader spectrum of tones within a single piece.

Different grades offer varying levels of control, allowing artists to achieve precise lines or soft shading based on the desired effect.

Pencil gradation enhances an artist's expressive potential, enabling them to convey mood, emotion, and atmosphere through nuanced shading techniques.

3rd Assignment – Colour pencil gradation and textures: Practicing color pencil gradation helps artists achieve smoother transitions between shades, leading to more realistic and lifelike representations in their artwork.

By focusing on different textures like fur, wood grain, or fabric, artists can develop skills to mimic real-world surfaces, adding depth and detail to their creations.

Working with color pencils enhances an artist's understanding of color theory, including complementary colors, shading, and blending techniques.

4. Using colored pencils allows for vibrant and expressive artwork. Grading and texture assignments offer artists the freedom to experiment with colors and textures, fostering creativity.

5. Regular practice with color pencil gradation and texture assignments strengthens handeye coordination, fine motor skills, and observational abilities.

Colored pencils offer a versatile medium, suitable for various styles and subjects. Mastering gradation and texture techniques expands an artist's repertoire, enabling them to tackle a wide range of artistic challenges.

4th **Assignment** – 2D Design composition: Engaging in 2D design composition assignments helps individuals grasp essential design principles like balance, contrast, unity, rhythm, and emphasis.

Practicing 2D design composition enhances one's ability to communicate ideas, messages, or concepts visually through effective layout, organization, and arrangement of elements. Designing a 2D composition requires critical thinking and problem-solving, as artists must make deliberate decisions about placement, scale, color, and other elements to achieve their desired outcome.

These assignments encourage creative thinking and experimentation, pushing individuals to explore new ideas, techniques, and approaches to design challenges.

Working on 2D design compositions improves technical skills, such as using design software,

understanding color theory, and manipulating various design elements effectively. Completing 2D design composition assignments allows artists and designers to build a diverse portfolio showcasing their skills, creativity, and versatility in 2D design principles.

6. Extent of horizontal and vertical integration achieved.

Horizontal and vertical integration are concepts in architecture that shows how different elements and processes come together in a project.

Horizontal integration plan focuses on the coordination and integration of various ways, designs and processes across a project. It involves combining and bringing together of different students in a group coordination with various opinions and ideas to collaboratively work on a single project and carry it out effectively with making and achieving the goals and effective decisions. This horizontal plan involves collaboration of students, enhancing effective communication among them and being consistent towards the group work for a good result.

Vertical integration plan involves the integration of various stages and phases of a project till the completion which includes the involvement of a single student individually. It focuses and would help students to enhance their decision making ability and self-confidence towards their opinions and ideas. It also helps in improvement of managing skills carrying out the work in effective cost and time successfully.

Both horizontal and vertical integration plans and approaches in architecture have their own advantages and can be applied to different types of architectural projects, model making individually, depending on various factors and the project size, complexity, and demand of each project.

Extent of adherence to the Course Plan and schedule of submission prepared before the course started.

Students are given assignments according to the Course plan, the schedule of submission might not always be on time since it is more focused on giving time to students for doing their work patiently. The expected outcomes is hence focused rather than the time. Proper knowledge about various materials is given to the students. Ways of handling of various material like types of pencils, colours, is taught to the students as per the course prepared. Sometimes more time might be required for a particular topic, but the intention to teach the students properly with all the expected details is always met. All the rules and regulations as well as aims & objectives are always tried to be achieved.

7. Explain with the help of each assignment and students work.

1st Assignment - Drawing freehand lines enhances hand-eye coordination and fine motor skills. Without the constraints of tools, individuals often tap into their creativity, exploring unique shapes and patterns.

Freehand drawing encourages close observation of the subject, helping individuals see and replicate details more accurately.

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Working on 2D design compositions improves technical skills, such as using design software, understanding color theory, and manipulating various design elements effectively.

Completing 2D design composition assignments allows artists and designers to build a diverse portfolio showcasing their skills, creativity, and versatility in 2D design principles.

8. Scope for improvement in future (next year).

New materials which are necessary would be introduced with their techniques. If some new material in the market will be available which is related with the assignments, it may be introduced to the students. Moreover, if the students would get an opportunity to visit some architectural historical places and monuments, then it be beneficial for the students to understand outdoor sketching and landscaping and working on field properly. Experts of particular subjects can be called to visit the students and provide them with some more knowledge.

9. Mention if any guest lectures, site visits or workshops conducted under this subject to increase general or focused understanding of the subject.

Course Plan Submitted v/s completed							
Subject: Elective			Course Code: 121				
Faculty: Prof	Faculty: Prof. Jayesh Patil, Prof Kedar Shinde, Prof. Sahil, Prof. Mahesh						
WEEK	TOPIC TO BE COVERED	ASSIGNMENT	Adhered to the schedule or not	Which COs are aligned to each lecture and assignment			
13/10/202 3	Types of lines	Different Types Of Line With Hb, 2b, 4b, 6b, 8b, 10b Pencil	Yes	CO - 1			
3/11/2023	2D Design (pencil composition)	Composing a 2D Design	No	CO - 4			
10/11/202 3	Graphite pencil gradation	Gradation With graphite pencils	Yes	CO - 5			
24/11/202 3	Colour pencil gradation & textures	Gradation With Colour Pencil , Poster Colour, Water Colour and textures	Yes	CO – 2 CO – 5			
15/12/202 3	2D Design with colour pencil and textures	Implementation of colours using different textures	Yes	CO - 2 CO - 4 CO - 5			
22/12/202 3	PRE FINAL SUBMISSION	-	Yes	-			
05/01/202 4	FINAL SUBMISSION	-	Yes	-			

ASSIGNMENT 1- TYPES OF LINES









ASSIGNMENT 3- GRAPHITE PENCIL GRADATION



Scanned with CamScanner







ASSIGNENT 4 - COLOUR PENCIL GRADATION & TEXTURES









ASSIGNENT 5 - 2D DESIGN WITH COLOUR PENCIL AND TEXTURES







Scamed with CamScamer

M.E.S.						
PILLAI COLLEGE OF ARCHITECTURE , New Panvel						
	C O U	RSE REPORT	Γ			
Subject: Elective Term: II AY: 2023-24						
Course Code: 221	Credits : 03	Semester: 1	No of Periods per week : 1		eek : 1	
Total Marks: 50	Internal: 50	External: N/A	Theory Paper: N/A			

Faculty: Subject coordinator : Prof. Jayesh Patil

INTRODUCTION:

Fine art plays a crucial role in the education of architecture students. It provides a foundation for creativity, expression, and the development of skills. Fine art encompasses various artistic disciplines, including painting, sculpture, drawing, and more.

Students can create wall murals, relief art work, geometrical carving etc...

Students should get familiar with the material and its properties, also students will be able to learn the proper technique of using tools for carving with drill machine, hammer, handsaw, wooden chisel

Student can develop relief/round sculpture model making skill.

It is especially beneficial to students, it helps to promote self-confidence.

Clay sculpting is a hands-on activity that enables the students to learn how to manipulate and shape clay using their hands. It is an excellent way to develop fine motor skills and sensory awareness.

Methodology:

Aim: Fine art elective for architecture students can enhance their creative and design skills. It improve their sketching, sculpting, painting and visualisation abilities. Learning this subject will enhance their awareness. It will help them in freehand sketching and hands-on working. To Acquire basic sculpting (clay application) skills.

Introducing students to various materials and techniques used in making sculpture models. Enabling Students to make sculpture models for study and presentation.

Objectives:-

CO1:	Depending on their knowledge and skills of modelling clay and other raw materials as well as different types of colours, canvas and papers
CO2:	Assembling and carving techniques using sculpting tools in their works, different types of brushes and their using techniques with sketch composition, Color filling accuracy and their creativity
CO3:	Conversion of 2D shapes into 3D forms using modelling clay and on canvas using shades and tones of colours
CO4:	Study of principles and elements of design and application in assignments
CO5:	Finishing, Cleanliness, casting, preservation and reproduction of sculptures and painting techniques

PROCESS:

1. Please explain the methods of Conduction of classes and studios wrt aim and objectives. An effective and engaging learning environment is created for students. Students are given practical work so that they enhance their experiences, improve their drafting and freehand sketching skills and colour knowledge, various types of pencil handling and implementation skills. The proposed method combines various student - centered ways in order to develop their interest, focus and coordination among groups and knowledge about various fine art materials. Organizing regular lectures and workshops help students improve their work. The lecture are mostly focused on practical work and its process with respect to the techniques. They are guided for making an impressive portfolio to showcase their own work. Many PPT presentations are shown to the students to make them aware about the fundamental and process of their work. It also enhances their presentation skills of their own work. Students are given practical demo of topics and made aware about various techniques to handle things and given knowledge about material required for practical work. Students are taught to handle various types of materials, pencils, etc. Freehand drawing is focused on the lectures and students learn types of lines in freehand drawing. It enhances their control on hand, improves their visualizing and observation skills with the help of outdoor sketching. Landscape painting using water colours and their techniques helps the student to learn about different colours and their application. Pencil rendering, learning shade and shadows and implementing them in their work using pencil rendering is also learnt by the students. Students also learn composition of 2D design using geometrical shapes and other natural or manmade elements as well as application of colours like water or poster colours, pencil colours, with rendering in it.

2. Tools and techniques used for course conduction.

Various tools and techniques are very crucial for a strong foundation of architecture students. They enhance their practical experience and helps in developing their interests in different topics. They can develop and enhance their hands-on work skills.

1- Lectures: Organizing regular sessions and lectures help students improve their work. The lecture are mostly focused on practical work and its process with respect to the techniques.

Students are given real world examples of famous architectures. They are guided for making an impressive portfolio to showcase their own work.

2- Presentations: Many PPT presentations are shown to the students to make them aware about the fundamental and process of their work. It also enhances their presentation skills of their own work. Students are given practical demo of topics and made aware about various techniques to handle things and given knowledge about material required for practical work.

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4- Sketching: Freehand sketching is the most important part for architecture students. Students are trained in freehand architectural sketching, urban sketching, and outdoor sketching to quickly convey their ideas and concepts. Correct proportions and perspectives of each object is taught to them.

3. Which are the innovative approaches adopted in this semester?

New equipment and materials with tools and techniques were introduced to develop the necessary skills of the students. Types of rotaring pens, micron pens, types of charcoal or colour pencils were taught to handle which helped in increasing the self-confidence of students. Techniques for composition and displaying an art work was introduced and techniques were taught.

4. Explain the approaches used to encourage library usage by students and faculty. Students were instructed to read and learn about some architectural histories and some art related books and make notes from the books like sketching master class, Color drawing, Rendering with pen and ink, Drawing shortcuts etc.

5. How and to what extent, the aim and objectives are achieved. How COs are aligned to each lecture and assignment and assess the outcomes wrt the same:

An effective and engaging learning environment is created for students. Students are given practical work so that they enhance their experiences, improve their drafting and freehand sketching skills and colour knowledge, various types of pencil handling and implementation skills. The proposed method combines various student - centered ways in order to develop their interest, focus and coordination among groups and knowledge about various fine art materials. Organizing regular lectures and workshops help students improve their work. The lecture are mostly focused on practical work and its process with respect to the techniques. They are guided for making an impressive portfolio to showcase their own work. Many PPT presentations are shown to the students to make them aware about the fundamental and process of their work. It also enhances their presentation skills of their own work. Students are given practical demo of topics and made aware about various techniques to handle things and given knowledge about material required for practical work.

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Assignment – SCULPTURE MAKING: Begin by introducing the concept of sculpture and its relevance to architecture. Discuss famous sculptors, sculptural styles, and the integration of sculpture into architectural design. Teach fundamental sculptural principles such as form, scale, proportion, balance, and rhythm. Emphasize the importance of three-dimensional thinking and spatial awareness. Introduce a variety of materials suitable for sculpture, such as clay, wire, wood, metal, or found objects. Provide basic tools like sculpting tools, knives, sandpaper, and adhesives. Encourage students to gather inspiration from their surroundings, architectural history, nature, or personal experiences. Encourage the use of sketches, models, and digital tools to develop and visualize their ideas.

Extent of horizontal and vertical integration achieved.

Horizontal and vertical integration are concepts in architecture that shows how different elements and processes come together in a project.

Horizontal integration plan focuses on the coordination and integration of various ways, designs and processes across a project. It involves combining and bringing together of different students in a group coordination with various opinions and ideas to collaboratively work on a single project and carry it out effectively with making and achieving the goals and effective decisions. This horizontal plan involves collaboration of students, enhancing effective communication among them and being consistent towards the group work for a good result.

Vertical integration plan involves the integration of various stages and phases of a project till the completion which includes the involvement of a single student individually. It focuses and would help students to enhance their decision making ability and self-confidence towards their opinions and ideas. It also helps in improvement of managing skills carrying out the work in effective cost and time successfully.

Both horizontal and vertical integration plans and approaches in architecture have their own advantages and can be applied to different types of architectural projects, model making individually, depending on various factors and the project size, complexity, and demand of each project.

Extent of adherence to the Course Plan and schedule of submission prepared before the course started.

Students are given assignments according to the Course plan, the schedule of submission might not always be on time since it is more focused on giving time to students for doing their work patiently. The expected outcomes is hence focused rather than the time. Proper

knowledge about various materials is given to the students. Ways of handling of various material like types of pencils, colours, is taught to the students as per the course prepared. Sometimes more time might be required for a particular topic, but the intention to teach the students properly with all the expected details is always met. All the rules and regulations as well as aims & objectives are always tried to be achieved.

6. Explain with the help of each assignment and students work.

7. Begin by introducing the concept of sculpture and its relevance to architecture. Discuss famous sculptors, sculptural styles, and the integration of sculpture into architectural design. Teach fundamental sculptural principles such as form, scale, proportion, balance, and rhythm. Emphasize the importance of three-dimensional thinking and spatial awareness. Introduce a variety of materials suitable for sculpture, such as clay, wire, wood, metal, or found objects. Provide basic tools like sculpting tools, knives, sandpaper, and adhesives. Encourage students to gather inspiration from their surroundings, architectural history, nature, or personal experiences. Encourage the use of sketches, models, and digital tools to develop and visualize their ideas.

8. Scope for improvement in future (next year).

New materials which are necessary would be introduced with their techniques. If some new material in the market will be available which is related with the assignments, it may be introduced to the students. Moreover, if the students would get an opportunity to visit some architectural historical places and monuments, then it be beneficial for the students to understand outdoor sketching and landscaping and working on field properly. Experts of particular subjects can be called to visit the students and provide them with some more knowledge.

9. Mention if any guest lectures, site visits or workshops conducted under this subject to increase general or focused understanding of the subject.

N/A

	Course Plan Submitted v/s completed					
Subject: Elective			Course Code: 221			
Faculty: Prof. Jayesh Patil						
WEEK	TOPIC TO BE COVERED	ASSIGNMENT	Adhered to the schedule or not	Which COs are aligned to each lecture and assignment		
15/03/2024	Pencil composition sketches for sculpture/ painting	Making pencil sketches for sculpture/painting	Yes	CO - 4		
22/03/2024	Sculpture/painting making	Starting to form the sculpture using clay referring to the	Νο	CO - 2 CO - 3 CO - 4		

		sketch/start painting according to rough sketch		
12/03/2024	Finishing and texture of sculpture/painting	Texturing and finishing the sculpture with tools and painting	Yes	CO - 5
12/03/2024	FINAL SUBMISSION	Final submission of the ready sculpture/painting	Yes	-

ASSIGNMENT – SCULPTURE MAKING (CLAY)



















M.E.S.								
PILLAI COLLEGE OF ARCHITECTURE, New Panvel								
	COURS	E REPORT						
Subject: Elective 2 (Elements of Space-making) Term: II AY: 2023-24								
Course Code: BAC 221 Credits : 2 Semester: IV No of Periods per week : 06								
Total Marks: 50 Internal : 50 External : 00 Theory Paper : 00								

Faculty:	Subject coordinator : Prof. Suvarna Thakare
	Team Members:

Attach Following documents:

Photographs of students work wrt each assignment
Format 12 - SWD ppt in given format - 2 best works and 4 average works of each assignment
Students attendance of semester scanned
Format 3 -Topics Covered format scanned

INTRODUCTION:

Space-making is at the core of architectural practice. Architects create spaces that accommodate human needs and activities. The understanding of the fundamentals require for effective architectural design. The study of space-making introduces students to a holistic approach to design. It encourages them to think about how spaces interact with users, the environment, and other elements.

Methodology (All the following points must be addressed in ALL subjects)

Aim: The course aims to impart a foundational understanding of design fundamentals in space-making.

Objectives:-

- Introduce students to the fundamental concepts of space-making, emphasizing their role in architectural design.
- Develop skills for the systematic analysis of spaces using principles such as order, hierarchy, rhythm, scale, path space relationship, axis, sequential progress, and degree of enclosure.
- Foster the ability to apply learned principles in creative design projects through various studio

exercises.

PROCESS: (Please elaborate pointwise)

1. Please explain the methods of Conduction of classes and studios wrt aim and objectives.

The process for the course consists of a combination of: lectures by faculty members on various topics, the ideas discussed in the lectures will be imbibed through sketching assignments which make students to think of arrangements of various space making elements. Students need to maintain their sketch journal to understand the journey. All the activities will be followed with detail discussion with the faculty member where they will get the feedbacks on their work.

- 2. Tools and techniques used for course conduction.
 - Faculty Lectures and Presentations To explain the various space making elements faculty
 lectures were taken which included digital presentation and one to one discussion. A list of
 space making element where give with various attributes of it. Students were asked to do the
 detailed case study of existing structures and identify and understand how each space making
 element is used in those structures.
- 3. Which are the innovative approaches adopted in this semester? Students were given freedom to select the desired structure of study and mode of presentation.
- 4. Explain the approaches used to encourage library usage by students and faculty.
- Students were provided with a list of recommended books and encouraged to explore the library for additional relevant books or projects that could serve as sources of inspiration.
- 5. How and to what extent, the aim and objectives are achieved.
- Aim and objectives are achieved partely due to very late allotment of students to the course, short semester and NAAC visit.
- 6. Extent of horizontal and vertical integration achieved.
- Vertical Integration The course will help students to design meaningful spaces for their AD projects.
- 7. Extent of adherence to the Course Plan and schedule of submission prepared before the course started.

The entire course plan and submission schedule went haywire due to NAAC visit and extracurricular activities in the lecture time.

8. Explain with the help of each assignment and student work.

Assignment 1 – Sketching and analysis of basic design elements is aligned with the CO1- Systematically analyze existing spaces, identify design elements and principles.

This assignment helped students to orient toward the subject and importance of space making through building elements.



PLANES

In Architecture, a plane is a two-dimensional surface that diffues a three-dimensional space or volume of mass. A plane's properties, such as its size, color, texture, and shape, as well as its relationship to other planes, determine the visual attributes of form it defines.

A plane how length and width, but no depth. The contour of the line that forms the edges of a plane detormines its shape

for example, a vertical plane can have two fronts, or one front and one back. The field of space on which a single vertical plane front is not well-defined.



LIEVATION OF A VERTICAL PLAN

In Architecture, There are Three types of generic planes.

Overhead planes.

This can be either the roof plane or the reiling plane. The roof plane protects the building's interior spaces from the elements, while the ceiling plane in-the upper enclosing surface of arcom

Wall plane

This plane is active in our normal field of nizions and is vital to shapping and enclosing architectural space



7

T

This can be either the ground plane, which serves as the physical foundation and visual base for building forms, or the floor plane, which forms the lower enclosing surface of a room.

Examples of Wall plane Architecture.

Machu Pichu The peruvian historical sanctuary uses elevated base plates, with polished dry-stone walls becoming the base plates edges as they increase in elevation. This technique results in a torraced building estate, where each raised space becomes platform for viewing the greater surrounding natural landscape

CAVITY BETWEEN WALLS. Wall planes

ENLARGED PLAN

sol sol fine cond regrovel

PLAN OF MACHU PICHHU

Here, you can see the extensive uses of wall planes in Machu-Picchu, to form torrace. The planes are ofgelightly elevated in forma Naking it a great viewing experience to our eyes.





Venice streetscape

The facade of ranious buildings act as the two parallel planes of Interest, pulling the pedestrian and rehicular movement in both directions towards the open ends



venice streetscape

Also known as 'calli' in Italian, and are narrow winding passageways that weave through the city's maze-like layout.

Most streets in venice are redestrian-only, meaning they are not accessible to vehicles.



PLAN

MASE INTE STRUC

streetscape in how the buildings, gardens, paths and road work together to create the 'look and feel' of a street.

They make in feel insual sights. A streetscape that looks inviting car increase morket demand and property prices.



Assignment 2 – presentation of the Assignment 1 is aligned with the CO3- Effective Communication of Design Intentions

This assignment helped students broaden their knowledge about the subject and made confident in communicating their thoughts.



- 9. Scope for improvement in future (next year).
- Allocating more time will help students to improve the understanding .
- 10. Mention if any guest lectures, site visits or workshops conducted under this subject to increase general or focused understanding of the subject.
- Due to unpredictable circumstances site visit and guest lecture could not be arranged.

	Course Plan Submitted v/s completed								
Subject:	Elective 2 (Basics of Space-ma	Course Code: BARC 221							
Faculty:	Faculty: Prof. Suvarna Thakare								
WEEK	TOPIC TO BE COVERED	ASSIGNMENT	Adhered to the schedule or not	Which COs are aligned to each lecture and assignment					
1	Lecture1: - - Overview of Architectural Design Fundamentals	Assignment 1: Sketching and analysis of basic design elements	Yes	CO1 - Systematically analyze existing spaces, identify design elements and principles					

	Importance of Space- making in Architectural Design			and CO3 - Effective Communication of Design Intentions
2	Lecture2: - - Principles of Order and Organization - Systematic Approaches to Space-making	Assignment 2 : Design exercises focusing on creating order in spatial arrangements	NO	CO1- Systematically analyze existing spaces, identify design elements and principles
3	 Lecture3: - Designing Pathways and Circulation Systems Spatial Hierarchies through Paths Understanding Axes in Architecture Achieving Symmetry and Balance 	Assignment 3: Redesigning spaces to enhance user movement/ Adding various circulation pattern in Assignment 2 spatial arrangements Assignment 4: Case study of projects emphasizing axis and symmetry, hierarchy, rhythm, scale, enclosure in spatial layouts	NO	CO1- Systematically analyze existing spaces, identify design elements and principles CO4- Integration of Contextual Sensitivity
4	Lecture 4: - Creating Hierarchy in Design - Rhythmic Patterns in Architectural Space Elements for Visual Harmony	Assignment 5: Exploring hierarchy and rhythm through model-making	NO	CO3- Effective Communication of Design Intentions
5	 Lecture 7: Degrees of Enclosure in Spaces Balancing Enclosed and Open Spaces Introduction to assignment 7 	Assignment 6: Each student presents their final project, followed by feedback and discussion. Students need to submit all the sketches and models created in the course time along with the	NO	CO5- Informed decisions to address spatial issues by using basic space- making elements.
6	Apply learned principles to design a space incorporating order, path, axis, hierarchy, rhythm, scale, and enclosure	final project	NO	CO2- Develop proficiency in applying fundamental design principles

How COs are aligned to each lecture and assignment and assess the outcomes wrt the same: (Explain in detail)

CO1- Systematically analyze existing spaces, identify design elements and principles Task and Lecture:

Lecture: Overview of Architectural Design Fundamentals Importance of Space-making in Architectural Design

Assignment 1: Sketching and analysis of basic design elements

Skill:

- The ability to identify the uniquess of the space making element in the structure
- Skill in acknowledging the innovative use of the element
- Analysing the potential of spacemaking element
- Importance of the spacemaking

Knowledge:

- Knowledge of various spaces created in the structure
- Understanding of various meaning associated to the element
- Familiarity with use of the element in the use of the structure
- Profeciency in space planning

Understanding:

Appreciation of how change of proportion, texture, placement gives different meaning to the space Recognition of space formation.

CO3- Effective Communication of Design Intentions.

Lecture:

Overview of Architectural Design Fundamentals Importance of Space-making in Architectural Design

Assignment 2: Presentation of the Assignment 1

Skill:

- Proficiency in representation of thoughts
- The ability to visually inspect the structure development

Application :

Implementing the knowledge in designing the spaces.

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Month : March

Subject: Elective Elements of Space

Faculty: Sundand T

Assignment (Topic) :

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.nth : March

SEM II (FIRST YEAR) B.ARCH 2023-24 Subject: Elective: Elements of Space making Faculty: Subject. T

ssignment (Topic) :

20	Adm No.	Student Name	ATTENSANCE	NO.OF	SUBMISSON DATE	STUDENT'S SIGN	MARKS	RETURNED & RECEIVED STUDENT'S SION	RE- SURMISSION DATE	IMPROVED MARKS	RETURNED DATE	
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Subject:	Elective : Elements of space making	Assignment	Assignment	Students	Signature
Dete	The duction to the subject	Assentiment	Submittee	Ofte	letes
1/03/24	lecture on basies of spacemaking				181P
25/03/24	Presentation by Students				Olada
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M.E.S.

PILLAI COLLEGE OF ARCHITECTURE , New Panvel

COURSE REPORT

Subject: Electives	Term: I		AY: 2023-24		
Course Code: 321	Credits : 3	Semester: 3	No of Periods per week :		
Total Marks: 100	Internal : 100	External : 00	Theory	Paper : 00	

Faculty:	Subject coordinator : Prof. Neha Deshpande
	Team Members: NA

Attach Following documents:

Photographs of students work wrt each assignment

Format 12 - SWD ppt in given format - 2 best works and 4 average works of each assignment

Students attendance of semester scanned

Format 3 -Topics Covered format scanned

INTRODUCTION:

Geometry is a fundamental aspect of architecture and is used to create aesthetically pleasing designs, plan functional spaces, and ensure structural stability. In Architecture, geometry is used to determine the proportions of a building, to create symmetrical and asymmetrical forms and to plan spatial arrangements and circulation patterns. Through this elective students can relate their learning with past and existing structures, architects by studying them and develop the skills which they will require in Architectural Design.

Methodology (All the following points must be addressed in ALL subjects)

Aim:

Aim of the study is to define and clarify those elements as vocabulary of generating architectural form and space in conceptual meaning. Also to identify geometry that makes up basic 2D geometry which would later provide exposure for the students to approach a design project leading them on the right track allowing them to experiment different forms

Objectives:-

- Introduction to elements of geometry and concepts of geometry
- To study and understand the importance of Geometry/ form in Architecture
- To enable the student to understand the basic Concepts of Geometry in relation with Architecture
- In the composition, to interpret the visual construction in a plane serves to define the limits or boundaries of a volume
- To explore the properties of geometric figures using different timeline in architecture
- To acquire skills to help students in making paper models for better conception

PROCESS: (Please elaborate pointwise)

- Please explain the methods of Conduction of classes and studios wrt aim and objectives. Various concepts were discussed in class providing the knowledge needed to address geometric shapes, as well as understand the form of structures. Lectures conducted as per schedule given and discussion with students on Architects and their Buildings showing complex geometric structure with conscious decisions. Assignments were asked to be completed in the studio with constant monitoring and doubt solving.
- 2. Tools and techniques used for course conduction.

Powerpoint presentations showing different Concepts, architects, videos of various projects in most topics. Class discussions about the various projects and architect's approach for Architectural design and functionality of the building typology with respect to geometry. Class activity such as model making, observe and write activity to enable students to understand better and start developing their own methods for approaching design projects. Assignments were formulated in such a manner that help students learn various methods of representation and also to form a routine to critically analyze each topic. Discussion about assignments and reviews of submitted work by the students in the form of open discussion.

- 3. Which are the innovative approaches adopted in this semester? Class activity such as model making, observe and write activity to enable students to understand better and start developing their own methods for approaching design projects.
- 4. Explain the approaches used to encourage library usage by students and faculty. While conducting classes and lectures, reference books from the college library were encouraged to make students use the library.
- 5. How and to what extent, the aim and objectives are achieved. As the aim of the electives was clearly defined, the course objectives were aligned with the expected outcome. The skills to identify geometry that makes up basic 2D geometry. This would help in visualization and developing analytical mindset. Students would be able to understand the basic Concepts of Geometry in relation with Architecture. Also they would learn to interpret the visual construction in a plane to define the limits or boundaries of a volume. This relates to Theoretical understanding, technical skills as students would be creating models from their understanding. In addition, it would enhance the conception & visual knowledge. Students shall gain knowledge to explore the properties of

geometric figures using different timeline in architecture that would aid them in understanding current trends and practices.

As they work on their Electives and Architectural Design, the students learn more about how geometry can be used as a powerful tool in Presentations and Creativity. Students composed their assignments and Architectural design sheet for maximum effect. Students reviewed several architect's work, structures and concepts to analyze and are expected to utilize this learning in other subjects. Also from the CO attainment sheet it is visible that students have achieved most of the set course objectives yet there is some scope of improvement that can be focused and worked on in next semester.

Furthermore, these skills, knowledge, and understanding gained by the students are aligned with the POs for holistic development of the students.

6. Extent of horizontal and vertical integration achieved.

While working on the assignments, indirectly students learnt more about Presentation Skills and clarity of representational drawing. This helps them not just in their Architectural Design but also deliver their ideas, concepts in more graphical form, vocabulary and presentable manner. Module 1 of Architectural Design was integrated with this Elective to derive the Form Development sheet. It was quite achievable since the sheet could be a part of the Design portfolio as a conceptual sheet with details of deriving geometry and analyzing the final design.

7. Extent of adherence to the Course Plan and schedule of submission prepared before the course started.

Refer the table Course Plan Submitted v/s completed table for the Extent of adherence

8. Explain with the help of each assignment and students' work.

As they work on their Electives and Architectural Design, the student will learn more about how geometry can be used as a powerful tool in Presentations and Creativity. Students are expected to compose their assignments and Architectural design sheet for maximum effect. Students will review several architect's work, structures and concepts to analyze and are expected to utilize this learning in other subjects.

The Assignment 1 is based on Understanding Composition and concepts of geometry, Assignment 2 Elements and principles. In Assignment 3 students will learn Representation 2D to 3D with the help of cube exercise, Assignment 4- Eras in architecture and use of geometry and in Assignment 5 students will learn to analyze the geometry patterns in existing structures

9. Scope for improvement in future (next year).

As they work on their Electives and Architectural Design, the students learn more about how geometry can be used as a powerful tool in Presentations and Creativity. Students composed their assignments and Architectural design sheet for maximum effect. Students reviewed several architect's work, structures and concepts to analyze and are expected to utilize this learning in other subjects. Also from the CO attainment sheet it is visible that students have achieved most of the set course objectives yet there is some scope of improvement that can be focused and work on in next semester.

10. Mention if any guest lectures, site visits or workshops conducted under this subject to increase general or focused understanding of the subject.

Special lecture was conducted by Prof. Smita Dalvi ma'am, for one of the subtopic- Geometry in Islamic Art and Architecture. Commencing from Introduction to the Architectural era. The lecture was formulated with subtopics like Geometry as organizing principle in planning of structures, Geometry as visual principle in architecture and ornamentation. The session was quite interesting with different forms of geometry, symbols used Islamic Architecture. Examples of Taj Mahal, Humayum tomb, and other Islamic structures etc were explained with minute jali work, the patterns used ceiling, flooring and facade, geometric analysis of landscape.

Course Plan Submitted v/s completed								
Subject: Ele	ectives (Geometry in Archite	Course Code: 321						
Faculty: Pro	f. Neha Deshpande							
WEEK	TOPIC TO BE COVERED	ASSIGNMENT	Adhered to the schedule or not	Which COs are aligned to each lecture and assignment				
1	Introduction to the topic	A3 paper report Vocabulary cover page, Sheet 1	YES	CO1, CO2				
2	Lecture Concepts in architecture Elements and principles (form & shape) + Golden mean ratio	Sheet 2 (individual)	YES	CO2, CO3				
3	Discussion Analyze objects with geometry		YES	-				
4	Lecture Geometry as visual expression	3D Model	YES	CO1, CO2, CO5				
5	Discussion Choose a mughal architecture (List)		YES	-				
6	Geometry as visual expression	Model A3 Sheet 3 Tracing	YES	CO1, CO2, CO5				
7	Lecture Language of Geometry in Gothic Architecture	A3 Sheet 4	YES	CO2, CO4				
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8	Lecture Language of Geometry in Mughal Architecture	Sheet 5	YES	CO2, CO3, CO4				
9	Guest Lecture- Geometry in Mughal Architecture		YES	CO2, CO3, CO4				
10	Lecture Geometry from existing structures (Choose an Architect)	A3 Sheet 7,8	NO	-				
	Introduction to integrated approach	A2 Sheet	YES	CO1, CO2, CO3				
11	Discussion	AD integrated final sheet	YES	-				
12	Work completion		YES	-				

How COs are aligned to each lecture and assignment and assess the outcomes wrt the same: (Explain in detail)

- Lecture on Introduction on Geometry in Architecture, Assignment 1 given was Geometric wordle, to identify more and more words used in or are a part of Geometry. This was converted into a Cover page for portfolios. Assignment 1 was Construction of lines, surfaces, solids, platonic solids. This is aligned with two COs Knowledge of Principles of 2-D & 3-D compositions and Representation of 3D objects in 2D by graphical, technical aspects of solid geometry.
- Lecture on Concepts in Geometry. This incorporated the concepts in geometry used for architectural design like Golden proportion, Le Modular, etc. It is aligned with CO2, CO3, Representation of 3D objects in 2D by graphical, technical aspects of solid geometry, Understanding of the geometry and their application in architecture.
- Lecture on Geometry as visual expression, in this students were asked to make a model of a cube size 15 x 15 cm and should incorporate principles of design. In addition, there were few considerations given to incorporate while designing the model. Furthermore they had to prepare a sheet to draw their model and paste images. Aligned COs are CO1 Knowledge of Principles of 2-D & 3-D compositions, CO2 Representation of 3D objects in 2D by graphical, technical aspects of solid geometry, CO3 Understanding of the geometry and their application in architecture.
- 4. Lecture on Language of Gothic Architecture. The lecture included symbolic architecture, Gothic style of representation and examples of Gothic structures to identify and analyze the geometry. Students learnt the Representation of 3D objects in 2D by graphical, technical aspects of solid geometry with Understanding the different eras in architecture(gothic & mughal). Assignment was to analyze the geometric forms and detailing in Gothic architecture using 1 structure.

5. Lecture on Language of Islamic Art & Architecture In this topic a brief introduction to the Islamic Art & Architecture was given to the students. Various geometric details and forms were discussed. Jalli patterns and window detailing were discussed using Islamic representation drawing references. through this COs covered are CO2, CO3, CO4., Representation of 3D objects in 2D by graphical, technical aspects of solid geometry, Understanding of the geometry and their application in architecture, Understanding the different eras in architecture(Gothic & Mughal) respectively.

IMAGES OF STUDENTS WORK (EACH ASSIGNMENT)

Assignment 1



Assignment 2



Assignment 3:



Assignment 4:



Assignment 5: Group Assignment



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PILLAI COLLEGE OF ARCHITECTURE , New Panvel

	COURS	E REPORT			
Subject : Elective-(Earthquake resistant construction techniques)		Session : II		Year: AY 2023-24	
Course code: BARC 421	Credits: 03	Semester : IV	No of Periods per week : 2		ek: 2
		Sessional Marks -	Interna	nl : 100	Total
Examination Scheme		Theory Paper -	Externa Theory	al Jury : 00 Paper : 00	Marks 100

Faculty	Subject coordinator : Prof. Shubhangi Bhide		
Faculty team:			
1. Prof. Sh	Shital Marlapalle		

Course Aim and objective :

Introduction: -

In the dynamic tapestry of our world, the constant threat of natural calamities looms large, affecting nations across the globe. Among these, earthquakes, floods, landslides, and fires stand out as formidable challenges, striking indiscriminately and leaving in their wake profound human suffering, financial losses, and extensive property damage. While we acknowledge the inevitability of these disasters, we recognize that the potential for minimizing their impact lies in our ability to harness technology and knowledge to combat their destructive forces.

Aim:-

The aim of this course is to empower students with comprehensive knowledge and skills related to earthquake resilience, urban planning principles and the technical aspects of earthquake-resistant construction.

The primary goal is to instill a deep understanding of the challenges posed by earthquakes and equip students with the tools necessary to contribute to the development of resilient communities.

Objectives:-

It is to cultivate in students a comprehensive awareness of the devastating consequences wrought by earthquakes and other natural disasters and to arm them with the knowledge of cutting-edge earthquake-resistant technologies, urban planning principles, and technical intricacies that can contribute to the creation of resilient communities

Process:-

Understanding Disaster Risks, Protecting Yourself, and After Effects" is designed to provide students with a comprehensive understanding of earthquake resilience, urban planning principles, and technical proficiency in earthquake-resistant technologies.

Here's an outline of the process with respect to the course outcomes:

Introduction and Context Setting: The course begins with an introduction to the dynamic nature of natural calamities, focusing particularly on earthquakes and their devastating impacts on communities worldwide. The aim is to create awareness about the inevitability of such disasters and the importance of preparedness.

Film Screening: A key component of the course involves showing a film on earthquakes produced by COA, which serves as a visual aid to illustrate the real-life consequences and aftermath of earthquakes. This film helps students connect theoretical knowledge with practical scenarios, enhancing their understanding of disaster risks and mitigation strategies.

Application of Planning Principles: Students delve into urban planning principles that contribute to earthquake resilience. This involves studying land use zoning, building codes, infrastructure design, and evacuation planning. Through case studies and practical exercises, students learn how effective urban planning can mitigate the impact of earthquakes on communities.

Technical Proficiency in Earthquake-Resistant Technologies: The course emphasizes the technical aspects of earthquake-resistant construction techniques and technologies. Students learn about innovative engineering solutions, such as base isolation, reinforced concrete structures, and retrofitting methods. Hands-on workshops and simulations enable students to develop practical skills in implementing these technologies.

Critical Thinking and Problem Solving: Throughout the course, students are encouraged to critically analyze past earthquake events, identify vulnerabilities in urban infrastructure, and propose innovative solutions. Case studies and group discussions foster critical thinking and problem-solving skills, equipping students to address complex challenges in earthquake resilience.

Effective Communication and Collaboration: Effective communication and collaboration are essential in disaster preparedness and response efforts. Students engage in group projects, presentations, and role-playing exercises to enhance their communication skills and teamwork abilities. They learn how to collaborate with diverse stakeholders, including government agencies, NGOs, and community groups, to develop comprehensive disaster resilience strategies.

By the end of the course, students are expected to have gained a deep understanding of earthquake risks, acquired technical proficiency in earthquake-resistant technologies, and developed critical thinking, problem-solving, and communication skills necessary for contributing to the creation of resilient communities.

	List of minimum FIVE Course Outcomes (COs) based on which student's progress will be evaluated.
CO1	Introduction to Earthquake Film Screening (Developing knowledge and understanding)

CO2	Application of Planning Principles (Application)
CO3	Technical Proficiency in Earthquake-Resistant Technologies (Developing technical proficiency)
CO4	Critical Thinking and Problem Solving (Critical analysis and innovative thinking)
CO5	Effective Communication and Collaboration (Teamwork and communication abilities)

Course Plan Submitted v/s completed						
Subject: Elective-(Earthquake resistant construction techniques)				Course Code: BARC 421		
Faculty: Pro	of. Shubhangi Bhide, Prof. Shital N	/larlapalle				
WEEK	TOPIC TO BE COVERED	ASSIGNMENT	Adhered to the schedule or not	Which COs are aligned to each lecture and assignment		
1,2	Introduction to earthquake: Understanding Disaster Risks reasons, protecting yourself and after effects. Observations on the film made by COA on Earthquake	Awareness Report	Yes	CO1,CO5		
3	Application of different materials for construction	Material description	Yes	CO1		
4	Disaster management for planners	Application of planning principles	Yes	CO2		
5,6	Construction of small buildings in seismic region.	Propose the implementation of earthquake-resistant technologies.	Yes	CO3		
7,8	Critical Thinking and Problem Solving	Innovative Solutions Project	Yes	CO4		
9,10	Effective Communication and Collaboration	Group Presentation	Yes	CO5		
11	Conclusion	How do we respond to disaster and plan future dev.	Yes	CO2		

How COs are aligned to each lecture and assignment and assess the outcomes wrt the same: (Explain in detail)

In this course on earthquake resilience and urban planning, the objectives are aligned with specific course outcomes (COs) to ensure that students achieve the intended learning outcomes. Here's how each lecture, assignment, and assessment is aligned with the COs:

• Introduction to Earthquake Film Screening

CO1 (Developing knowledge and understanding): The film screening serves to introduce students to the dynamic nature of natural disasters, particularly earthquakes, and their impacts on communities. Students gain knowledge and understanding of the real-life consequences and aftermath of earthquakes.

CO5 (Effective Communication and Collaboration): After the film screening, students can engage in discussions and reflections on the film's content, fostering effective communication and collaboration among peers.

Assessment: Awareness Report: Students are assessed on their ability to critically observe and report on the key themes and messages conveyed in the earthquake film produced by COA.

• Application of Planning Principles

CO2 (Application): Students learn to apply urban planning principles such as land use zoning, building codes, and evacuation planning to mitigate the impact of earthquakes on communities.

Assessment: Material description: Students demonstrate their understanding of how different materials can be applied in construction to enhance earthquake resilience.

Technical Proficiency in Earthquake-Resistant Technologies

• CO3 (Developing technical proficiency): Students acquire technical proficiency in earthquakeresistant construction techniques and technologies, including base isolation, reinforced concrete structures, and retrofitting methods.

Assessment: Application of planning principles: Students propose the implementation of earthquakeresistant technologies in the construction of small buildings in seismic regions, demonstrating their understanding and application of technical knowledge.

• Critical Thinking and Problem Solving

CO4 (Critical analysis and innovative thinking): Throughout the course, students are encouraged to critically analyze past earthquake events, identify vulnerabilities in urban infrastructure, and propose innovative solutions.

Assessment: Innovative Solutions Project: Students work on a project where they critically analyze a real-life scenario and propose innovative solutions to address challenges in earthquake resilience.

• Effective Communication and Collaboration

CO5 (Teamwork and communication abilities): Effective communication and collaboration are essential in disaster preparedness and response efforts.

Assessment: Group Presentation: Students collaborate in groups to develop and deliver a presentation on effective disaster management strategies, demonstrating their teamwork and communication abilities.

• Conclusion: How do we respond to disaster and plan future development

COs (All): This final session integrates all COs as students reflect on their learning throughout the course and consider how to apply their knowledge and skills to respond to disasters and plan for future development.

Through this alignment, students' progress through the course with clear learning objectives, engaging in activities and assessments that target specific skills and knowledge areas outlined in the COs. At the end of the course, students are expected to have achieved the intended learning outcomes related to earthquake resilience and disaster management.

IMAGES OF STUDENTS WORK:

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COURSE REPORT					
Subject: Electives – Con	Term: II		AY: 2023-24		
Course Code: 421	Credits : 03	Semester: IV	No of Periods per week : 01		eek : 01
Total Marks: 100	Internal : 100	External : 00	Theory	y Paper : 00	

Faculty:	Subject coordinator : Prof. Ashwini Bhosale

Attach Following documents:

Photographs of students work wrt each assignment
Format 12 - SWD ppt in given format - 2 best works and 4 average works of each assignment
Students attendance of semester scanned
Format 3 -Topics Covered format scanned

INTRODUCTION:

An elective course is a course that students choose to take part of their programme of study. Choosing electives demonstrates an interest in new areas of study while showing student's willingness to branch out and try something new. College Electives prepare students for tomorrow, setting the stage for new interests, college majors, and career paths.

This course will give the opportunity to develop and strengthen skills in preparing and presenting public oral presentations in a variety of situations. This course will focus on instructional strategies to develop the written, verbal, non-verbal and technical communication skills of the students. This course will cover all the tools and techniques necessary for improving presentation and public speaking skills so that the participants can express themselves clearly, with confidence and power, in variety of speaking situations. In this course, Students will be taught presentation techniques; how to plan and structure an effective presentation; how to develop ideas; effective delivery methods; and how to overcome anxiety, fear and nervousness when making a presentation.

Methodology (All the following points must be addressed in ALL subjects)

Aim: To develop and strengthen skills in preparing and presenting public oral presentations in a variety of situations in professional world.

Objectives:-

- To develop the written, verbal, non-verbal and technical communication skills of the students.
- To cover all the tools and techniques necessary for improving presentation and public speaking skills so that the participants can express themselves clearly, with confidence and power, in variety of speaking situations.
- To teach students presentation techniques; how to plan and structure an effective presentation; how to develop ideas; effective delivery methods; and how to overcome anxiety, fear and nervousness when making a presentation.

PROCESS: (Please elaborate pointwise)

PROCESS:

Methods of Conduction:

The course employs a multifaceted approach to instruction, incorporating lectures, PowerPoint presentations, group discussions, and interactive sessions to facilitate learning. Through small group discussions and collaborative learning activities, students engage with course material, leveraging peer interaction to enhance their understanding. Writing assignments and exercises are utilized to reinforce key concepts and improve analytical and problem-solving skills, thereby nurturing effective communication abilities. Furthermore, the integration of tools such as Microsoft PowerPoint and SketchUp software enhances students' visual communication skills and aids in the creative expression of ideas.

Tools and techniques used for course conduction:

The course utilized Microsoft PowerPoint presentations to enhance engagement and comprehension, employing multimedia elements such as images, audio, and video to captivate students' attention and facilitate deeper understanding. Recognizing the importance of visualization in architecture, an assignment was tailored to incorporate SketchUp software, renowned for its user-friendly interface and robust 3D modeling capabilities. SketchUp provided students with the necessary tools to conceptualize, refine, and articulate their design concepts effectively within the course framework.

Assignments designed for students with respect to the above aims and objectives:

- Report Writing: After each class, students engage in concise writing tasks that reinforce the day's lessons, promote retention of key points, and enhance their writing proficiency.
- Collaborative Learning: Students participate in paired or group tasks aimed at achieving specific outcomes, fostering collaborative problem-solving and encouraging diverse perspectives.

• Group Projects: Through group assignments, students tackle complex problems, delegate responsibilities, share knowledge, and hold each other accountable, fostering teamwork and the development of individual voices within a shared identity.

• Interactive Sessions: Inspiring yet challenging sessions encourage frequent communication among students, facilitating self-monitoring of their progress and personal development.

• Model-Making Activities: Discussions around design models allow students to engage with spatial design concepts, visualize construction processes, and contribute creatively to the design process.

• Book Cover Design: Students undertake the task of designing their own book covers, evaluating their comprehension and communication skills in a visual medium. Emphasis is placed on creating covers that appeal to viewers, reflect the book's genre, and effectively communicate its purpose and plot details.

Topics covered for the students:

- 1. Introduction To Communication Skills
- 2. Barriers In Communication
- 3. 10 Tips To Make Successful Architecture Project Presentation
- 4. Visual Communication
- 5. Reading Skills: A Gateway For Communication Skills
- 6. Effective Writing Communication Skills

Extent of horizontal and vertical integration achieved. Explain in 150 to 300 words.

Horizontal integration in the context of an architectural design studio refers to the seamless collaboration and communication across different disciplines and stakeholders involved in the design and construction process. This integration ensures that all aspects of a project are aligned and work together harmoniously, leveraging the diverse expertise of various participants to create a cohesive and successful outcome.

Here's how horizontal integration plays out in an architectural design studio:

Interdisciplinary Collaboration

Teamwork Across Specializations:

Architectural design projects often require input from various specialists, such as structural engineers, interior designers, landscape architects, and sustainability consultants. Horizontal integration promotes collaborative teamwork, ensuring that all these disciplines work together from the project's inception to its completion.

Shared Goals and Vision:

By integrating different perspectives early on, the project team can develop a unified vision and shared goals. This prevents conflicts and misalignments that could arise later in the project, ensuring that all decisions contribute towards the common objective.

Effective Communication

Clear Communication Channels:

Establishing effective communication channels is crucial for horizontal integration. Regular meetings, collaborative platforms, and transparent reporting systems ensure that all team members are on the same page, facilitating the smooth exchange of information and ideas.

Understanding and Empathy:

Architects and designers must communicate effectively with clients, who may have different backgrounds, expertise, and expectations. By empathizing with the client's perspective and clearly conveying design concepts, architects can ensure that the client's needs and preferences are understood and met. Integration of Client Feedback

Responsive Design Process:

Horizontal integration involves continuously incorporating client feedback into the design process. This iterative approach allows for adjustments and refinements based on the client's evolving needs and expectations, leading to a more satisfactory final product.

Managing Expectations:

Clear communication helps manage client expectations, reducing the likelihood of misunderstandings or disappointments. By setting realistic goals and keeping the client informed at every stage, architects can build trust and foster a positive relationship.

Coordination and Conflict Resolution

Resolving Conflicts:

In any collaborative project, conflicts can arise due to differing opinions and approaches. Horizontal integration provides mechanisms for conflict resolution, such as mediation and collaborative problem-solving, ensuring that disputes are addressed constructively and do not hinder progress.

Building a Supportive Network:

A well-integrated team forms a supportive network, where members assist each other and share resources. This network enhances the team's ability to tackle challenges and deliver a successful project. Impact on Academic and Personal Development Skill Development:

For students in an architectural design studio, horizontal integration fosters the development of essential skills, such as teamwork, communication, and problem-solving. These skills are invaluable not only in their academic pursuits but also in their future professional careers.

Forming Relationships:

By engaging in collaborative projects, students form meaningful relationships with peers, instructors, and industry professionals. These relationships can provide support, mentorship, and opportunities, positively impacting their personal and academic lives.

Conclusion

Horizontal integration in an architectural design studio emphasizes the importance of interdisciplinary collaboration, effective communication, and continuous client engagement. It nurtures a supportive network and develops strong interpersonal skills, ultimately contributing to the successful delivery of architectural projects and the professional growth of students.

Scope for improvement in future (next year):

Guest lectures can be conducted with respect to the subject to increase more productivity amongst the students.

IMAGES OF STUDENTS WORK (EACH ASSIGNMENT) TO EXPLAIN THE ACHIEVEMENTS

Assignment 1: Exploring Existence - "Why Am I Here?" Flyer Design

Objective:

The objective of this assignment is to provide students with an opportunity to creatively showcase their understanding of communication skills through the design of a unique A5 size journal dedicated to their book assignments. This assignment aims to merge visual elements, written content, and photographs to effectively communicate the essence of each book assignment.

Instructions:

Format: The journal should adhere to the A5 size specifications.

Cover Design: Design a captivating cover for the journal that reflects your personal style and creativity. Consider incorporating relevant imagery, typography, and colors to make it visually appealing.

Title Page: Create a title page that clearly states the purpose of the journal and includes your name or pseudonym as the creator.

Book Assignments: Dedicate separate pages or spreads within the journal for each book assignment. Include a brief write-up explaining the assignment, followed by photographs or illustrations that visually represent your interpretation of the assignment.

Flyer Design: Develop a flyer design for the journal, incorporating the provided references. You have the flexibility to choose between handmade or digital design techniques.

Content Organization: Organize the content in a coherent and visually pleasing manner. Ensure that each assignment is clearly delineated and that the layout enhances the overall aesthetic appeal of the journal. Creative Elements: Infuse your journal with creative elements such as hand-drawn illustrations, calligraphy, mixed media, or digital graphics. Experiment with different techniques to elevate the visual impact of your design.

Reflection: Conclude the journal with a reflective piece where you discuss your creative process, challenges encountered, and lessons learned throughout the assignment. Share insights into how this project has enhanced your communication and design skills.

Submission Guidelines:

Submit your completed journal either in physical or digital format, adhering to the specified A5 size dimensions.

For physical submissions, ensure that the journal is neatly bound or presented in a professional manner. For digital submissions, compile the pages into a cohesive PDF document for easy viewing.

Assessment Criteria:

Creativity and Originality: The extent to which the journal demonstrates innovative design concepts and unique visual elements.

Clarity and Organization: The clarity and coherence of the content organization, ensuring that each assignment is effectively communicated.

Visual Presentation: The overall visual appeal of the journal, including cover design, layout, typography, and use of imagery.

Reflection: The depth of reflection provided on the creative process and the integration of feedback received from the instructor or peers.

References:

Provided references for flyer design.

Note: Feel free to incorporate additional elements or design techniques to personalize your journal and make it a reflection of your individual style and creativity.



Assignment 2: Exploring the "What If" Challenge

Assignment 2: Exploring Hypothetical Realities: The "What If" Challenge

Introduction:

Welcome to the "What If" challenge! In this assignment, you will embark on a journey of imagination and creativity by delving into intriguing hypothetical scenarios. By asking "What If" questions, we will explore alternative realities, sparking your creativity and honing your writing skills.

Scenario Selection:

Choose one of the following scenarios to analyze and develop your narrative:

What if you can fly for a day?

If you were a king/queen, how would you spend your day?

What if the dream world is the actual world?

What if dinosaurs are still alive somewhere?

What if you could relieve your childhood in exchange for your life?

What if all of the adults disappeared, leaving only children to fend for themselves?

What if the Titanic suddenly appeared... with all of the original passengers and crew members onboard?

What if someone woke up in a strange spaceship with no recollection of how they got there?

What if someone kept waking up from dream after dream with no end and no way to determine what was real and what was a dream?

What if someone woke up in a remote forest with no recollection of how they got there?

Report Structure:

Your report should include the following elements:

Introduction to your chosen scenario.

Development of the hypothetical situation, exploring its implications and potential outcomes.

Character development (if applicable) and narrative progression.

Conclusion summarizing the key insights gained from exploring the "What If" scenario.

Graphical sketches or illustrations to complement your narrative and enhance visual appeal. Time Limit:

Set a reasonable time limit for completing the assignment, ensuring that you allocate sufficient time for brainstorming, writing, and sketching.

Conclusion:

The "What If" challenge offers a unique opportunity to push the boundaries of your imagination and develop your creative writing skills. By exploring these hypothetical scenarios, you will discover new ways to engage readers and craft compelling narratives. Embrace the challenge, unleash your creativity, and embark on a journey of endless possibilities!



What if] ?

- Oha I was dreaming that I was jumping from a Sky Scrapper after finishing my anchiketure and i was felling like a lined in Sky being the natival beauty of our duriounding. The Interior of the sand two namony between native and Human made structures. What if i would be a king firsty will do all things that wished in my childhead The huying all Expensive card. I planes. - What if my dream world is the actual would, then I will be the most powerful and elevent cleaves man on the Earth. - I dirosaws are still alive some Where, then I will make such places befinet Places from the others.

- If could Exchange my childhood from now than I would firstly will be the toppest person in the class as I know all the answery already than I will Enjoy my childhood to the fieldest.

WHAT IF ?

AS A KID I WAS AMAZED AFTER WATCHING THE MOVIE INCEPTION AND I STILL REMEMBER NOT UNDERSTANDING IT. IT WAS TOTALLY CONFUSING WHEN THEY FROM ONE DREAM TO ANOTHER , BUT WHAT IF IT HAPPENS IN REAL LIPE THAT WE KEEP WAKING UP FROM DREAM TO DREAM WITHOUT AN END. IT WILL BE A TOTALLY MESSED UP SITUATION THE TIME IN THE DREAMS CAN ALSO MOVE DIFFERENTLY, THE ONLY WAY TO GET OUT OF A DREAM WOULD BE IF SOMEONE FROM OUTSIDE THE DREAM WAKES YOU UP BUT THAT WOULD DIFFICULT AS YOU WOULD CAUGHT IN A LOOP AND WOULDN'T KNOW WHAT IS REAL THE ONLY WAY TO WAKE UP WOULD BE THEN TO KILL YOURSELF IN THE DREAM BUT THAT WOULD BE PUSKY AS WE DON'T KNOW ABOUT THE REALITY . THUS WE WILL BE CAUGHT IN AN ENOLESS LOOP UNLESS WE CAN EXPERENTIATE DREAMS PROM REALITY

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and lessons leaved in the intervening years. The richness of life cadult) with its complexities and setbacks contributes to personal development and Resilience On the other hand allute of Reclaining the purity and unbridled enthusiasm of childhood may hold a nostalgic charm ultimately, the decision would hinge en individual values, priorities and perspectives on the meaning of life. While the prospect of reliving childhood might appeal to some depth and breadth of experiences gained through the passage of time. It becomes a contemplation of whether the innonce of childhood is worth trading for the depth and complexity that life's journay brings.

WHAT IF ?- I HAVE DORAEMON.

Having a Doraemon would be quite an adventure ! Doraemon, the beloved character from the Japanese manga and anime series, is known for his magical gadgets from the future. If I have Doraemon, I'll potentially have access to all sorts of futuristic devices and solutions to everyday problem. However, Memenuber that Doraemon is a fictional character, so enjoying his stories is the closest I can get to experiencing his wonder ful gadgets and friendship.





What if AI replaced architeds?

The idea of AI replacing architeds is intriguing, but it's a mixed bag. Bute AI could whip up designs "Hiciently, but it might miss the human louch and creativity that inchiteds bring. Job loss worries ne too.

I believe a blend of AI fi human architects could be the real binner. Al's brains paired with architect's creativity could spark something amazing, shaping a new era in architecture.



What if all the adults disappeared, and childrens remained. it will be vory difficult to this. The childrens will face all the shall problems as their majour problem. It filanic suddenly appeared with all the passengoes and every members then. They need to face the woorld in vory difficult way when Every body will be asking only questions to them, without taking of them, and been on. - I some one work up in a space ship then firstly hear she will be in fear that how he or she get them. then he on she will cross check she that Hear she are not on a clanear our not than he will try to figure and here hear she got theme - if someone hept waking up from obviam after dream with no end if no way to determine the real world then this waking up game with end at when someone really water them up or after some n to 14 hour of sheep he or she will wake up auto matically as human can Sleep up to 12 to 16 hours at a time.

Assignment 3: Architectural Role-Playing Exploration

Objective:

The objective of this assignment is to immerse yourself in the world of architecture by embodying the persona of a renowned architect. Through this role-playing activity, you will gain insights into the architect's personality, design philosophy, and creative process by studying their life and famous works.

Instructions:

Choose an architect whose work resonates with you.

Dive into the architect's life, personality, and design thinking process.

Select one of the architect's famous works to focus on for this assignment.

Prepare a presentation where you will embody the architect and explain the design process behind the selected work to the class.

Optionally, you may dress up in the style of the architect to enhance the immersive experience. Assignment Details:

Step 1: Selection of Architect and Work

Select an architect whose work intrigues you. Research various architects and their notable projects to find one that resonates with your interests and design preferences. Consider the architect's style, era, and contributions to the field of architecture. Once you've chosen an architect, select one of their famous works to delve deeper into for this assignment.

Step 2: Immersion into the Architect's World

Immerse yourself in the life and work of the chosen architect. Study their biography, explore their design philosophy, and analyze their approach to architecture. Pay attention to key influences, significant projects, and unique design principles that characterize the architect's style.

Step 3: Preparation of Presentation

Prepare a presentation where you will assume the role of the chosen architect. Begin by introducing yourself as the architect and providing background information about your life and career. Then, focus on the selected work and delve into the design process behind it. Discuss the inspiration, conceptualization, and execution of the project, highlighting key design elements and architectural innovations. Use visual aids such as images, sketches, and diagrams to illustrate your points and enhance the presentation.

Step 4: Presentation Day

On the designated presentation day, come prepared to embody the architect and share your insights with the class. Dressing up in the style of the architect is optional but encouraged for a more immersive experience. Deliver your presentation with confidence, channeling the architect's personality and passion for their work. Invite questions and engage in discussions to deepen understanding and foster appreciation for the architect's contributions to the world of architecture. Conclusion:

Through this role-playing exploration, you will gain a deeper understanding of an architect's style, design process, and creative vision. Embrace the opportunity to step into the shoes of a renowned architect, and let their spirit guide you as you unravel the mysteries behind their iconic works of architecture.







WALL HOUSE

 WALL HOUSE BY ARUPANA KUNDOD LOCATE DISOLE BURYULE BUILT IN 2000 OM A ISAKDE COMMUNIT AREA TOR COMMUNA LIVING • COST. DIE UNILION HUPES, AURO AT RECEINING PRIVATE RESIDENCE DISOLAN. • TSYTCE TECHNOLOGICAL INNOVATIONS FOR PUTURE PROJECTS. UTILIZED LOCAL MATERIALS CREATIVELY AMID GLOBAL RESOLIES CALLENCES. MODEEN COUCEPI WITH TRANSITIONAL USE OF COMPARISSED EXTRIL CONCRETE, AND STELL EMMONATION EMMONATION EMMONATION EMMONATION EMMONATION MALES AND/E TRANSING WITH VENETIAN DRICK BREESE, CONTRACTING, WITH VENETIAN BREAK COLUMNS.













Assignment 4: Architectural Transformation: From Concept to Creation

Objective:

To explore the multifaceted nature of architectural design by examining a distinctive project and transforming it into a different theme while considering contextual factors.

Assignment Details:

Part 1: Exploration of Architectural Intricacies

Select a distinctive architectural project from the provided library resources.

Conceptualize and express spatial design ideas through an innovative PowerPoint presentation and physical model.

Develop a physical model depicting the current design of the selected project.

Present the selected project, delving into its architectural intricacies through the PowerPoint presentation and model.

Part 2: Reimagination and Transformation

Reimagine and transform the chosen project into a different theme such as a cafe, library, school, hospital, clinic, playgroup, salon, kiosk, etc.

Justify the conversion by considering the neighborhood context and relevant factors influencing the new theme.

Create model presentations for both the original and transformed designs, accompanied by corresponding

presentations. Additional Requirements:

Produce a short film creatively showcasing the evolution of the design process for both Part 1 and Part 2. Reflect on the multifaceted architectural production process, capturing insights and lessons learned throughout the transformative design journey. Submission Guidelines:

Submit the PowerPoint presentations for Part 1 and Part 2, along with documentation of the physical models.

Submit the short film documenting the design process.

Provide a reflective essay capturing insights and lessons learned throughout the transformative design journey.

Evaluation Criteria:

Creativity and Innovation in Design Concepts Depth of Exploration into Architectural Intricacies Justification and Contextualization of Transformation Quality and Presentation of Physical Models Effectiveness of PowerPoint Presentations Creativity and Execution of Short Film Reflection and Insightfulness in the Reflective Essay

Note: Plagiarism will not be tolerated. All sources must be properly cited, and the work must be original. Late submissions will incur penalties unless prior arrangements have been made.



Introduction

For this assignment we were supposed to select an architectural project for exploration .

Then we discussed the conceptual and spatial arrangements which we then depicted into a physical model.

For the next part we changed the entire theme of the project.

The floor, curtains, and sofas have a rough matte texture to reciprocating to the theme Overall the project is very much minimalist, with earthy tones and texture creating cozy but elegant spaces.





Project-Stone house, Egypt

This is encodential project named "Stone house" The main concept behind this project was to blend with its egyption surrounding

As the name suggests, the project have inculosted store textures will through the structure. With subtle certify shedod as colour thems, the project crosses elegant and peaceful spaces.

It also has used indext plants to compliment the brown and beige shartes. The hanging lights can be Architect Charles Deaton said, 'If people do not have angles, then we should not live in boxes. The perishable grocery super-brand called for an unconventional, fluid, and adhesive design for its restaurant section. The idea was to create a homogenous volume characterized by curvilinear ceilings and statuesque Dholpur stone slivers over the blank canvas. The free-form oak furniture adds a second meandering layer that enhances the zaftig volume.





Myfresh Café

Location: Panchkula, India Architects: Loop Architects Total Area of project: 600 sq ft Constructed in the year: 2020 Lead Architects: Suvitra Bhardwaj & Nikhil Pratap Singh



"The curve is the line of the Gods." Myfresh Café is an attempt to create a bold and sinuous space that mimics natural form unequivocally and unabashedly. It is an experimental endeavor that explores the minimal aspect of seamless forms.

PLANS & AXONOMETRY





The third accent layer of green and floor lamps gives the space a vertical impetus and depth. The florce and striking dynamism of the space is consciously muted through a monotonal palette of beige and favn shades. Myfresh is a contemporary outlet that reflects its patrons' vibe and tries to conjure magic through its buxom imagery.







Assignment 5: Exploring Architectural Concepts through Multimedia Expression

Objective:

The objective of this assignment is to deepen your understanding of architectural design concepts through multimedia expression. You will select an architectural project of your choice, interpret its spatial design ideas, and translate them into various forms of multimedia, including conceptual drawings, posters, presentations, and short films. Through this process, you will gain insight into the creative production process of architectural projects while honing your skills in visual communication and storytelling.

Instructions:

Project Selection: Choose one architectural project that intrigues you. It could be a building, a landscape, an urban design, or any other architectural endeavor that you find inspiring. Ensure that the project has sufficient visual material available for your analysis and interpretation.

Conceptual Drawings: Generate a series of conceptual drawings that express your interpretation of the spatial design ideas embodied in the selected project. These drawings should capture the essence of the project's design philosophy, spatial organization, and any unique architectural features that stand out to you.

Poster Creation: Create a visually compelling poster that conveys your understanding of the architectural project. The poster should integrate your conceptual drawings, textual explanations, and any additional visual elements that enhance the overall message. Aim for coherence and clarity in your presentation. Pecha Kucha Presentation: Prepare a Pecha Kucha-style presentation that integrates spoken words and imagery to showcase your interpretation of the architectural project. Your presentation should be concise, engaging, and structured around key themes or concepts derived from your analysis. Each presentation slide should be timed to automatically advance after a fixed duration (e.g., 20 seconds) to maintain the Pecha Kucha format.

Film Theme or Sequence: Translate the spatial design ideas of the selected project into a film theme or sequence. This could involve imagining how the space would unfold cinematically, exploring different camera angles, lighting effects, and narrative elements to convey the essence of the architecture. You can use drawing, filming, modeling, writing, and/or editing techniques to create your short film concept. Short Film Production: Develop a short film based on your film theme or sequence concept. Utilize the multimedia skills you have acquired to bring your vision to life effectively. This may involve storyboard development, filming scenes, creating digital models, writing scripts, and editing footage to produce a cohesive narrative that communicates your interpretation of the architectural project. Documentation and Reflection: Throughout the assignment, document your creative process, including research, ideation, experimentation, and refinement. Reflect on the challenges you encountered, the decisions you made, and the insights you gained during each stage of the production process. Consider how your understanding of the architectural project evolved through multimedia expression and what lessons you can apply to future design endeavors.

Submission Guidelines:

Compile all components of your assignment into a single digital portfolio or presentation. Ensure that your submission is well-organized, visually appealing, and easy to navigate. Submit your assignment by the specified deadline, adhering to any additional formatting or submission requirements provided by your instructor. **Evaluation Criteria:**

Your assignment will be evaluated based on the following criteria:

Creativity and Originality: The extent to which your interpretation of the architectural project demonstrates innovative thinking and imaginative expression.

Visual Communication: The clarity, coherence, and effectiveness of your visual representations, including drawings, posters, presentations, and short films.

Conceptual Understanding: The depth of your understanding of the spatial design ideas embodied in the selected project and your ability to translate them into multimedia formats.

Technical Proficiency: The skillfulness and proficiency demonstrated in the execution of multimedia techniques, including drawing, filming, modeling, writing, and editing.

Documentation and Reflection: The thoroughness and insightfulness of your documentation and reflection on the architectural project production process, including challenges, decisions, and lessons learned.

Note: Feel free to seek guidance from your instructor throughout the assignment process. Embrace experimentation and exploration as you engage with the creative possibilities of multimedia expression in architectural design.

Activity 2.

In the activity students were paired to enhance collaborative communication In tis exercise one student described solely based on verbal cuies. The activity aimed to improve articulation visual interpretation and team work. crucial skills for architects.

The dynamic exchange of ideas highlighted the significance of clear communication and the strategy between verbal & visual expressions. Overall the exercise underscored the importance of effective communication.

Activity - 4

Architecture presentation visions. reviews, well were supposed to chasse. a interior space and make a model of it.

After making the model of an existing space, we had to imagine that space as some other space life a coffee cafe (public area) as in a bedroom (private area).

My group had chossen a cafe or Restaurant like Myfstesh cafe in panchkala, India. And after wards we and converted into a bedroom. with sam plan just changing interior. furnitores.

ACTIVITY -5

Architecture Presentation Nisions reviews, we mutre Suppose to choose anintation space and make a model of it.

After making of that model. we had imagine the space with any other function with same interior design style.

My group had thosen a cape at the beginning and later an use made bedrom from the same interior model.



Book Journal

This assignment perticularly what i learned is that converting spaces from one to anothe which i did in the first is a parter with secting of a people which the space have larger tenestaction like vibbon window. That is the key point when i thought to convert the space in a bedroom e which can really feel the user staying in bedraeen nature and can enjoy pleant view from the bed.



AFTER: BED ROOM.

STRATA HOUSE

The project selected by the group is of a residential nouse socated in sydney Australia. The house is on a countour based site. The model ing group made is of the living room on the ground floor. The living room is more open and spacious training an open terrace attached to it The law groom is aesthetically pleasing and nucleoming quing the unit a peaceful experience The room boasts a munimitable theme and an absurce of walls altouring for unsatile variations in room layout. The quality jures the room to be transformed in any different space. Thus we choose this model After analyzing the space we all

Same to a common understanging and the space can be either concerted into a food cafe or a gaming cafe.

Assignment 6: Personalized Book Cover Design for Communication Skills Elective

Objective:

The objective of this assignment is to engage your creativity and expressiveness by designing a handmade cover page for the Communication Skills elective. This assignment provides an opportunity for you to showcase your personal style, interests, and expertise in the field of communication through visual design. Your cover design will serve as a unique representation of your personality or training in this subject area.

Instructions:

Research and Inspiration: Begin by conducting research on book cover designs, particularly focusing on covers related to communication skills, graphic design, and visual communication. Explore different styles, techniques, and themes to gather inspiration for your own design.

Concept Development: Reflect on your personal experiences, interests, and expertise in communication skills. Consider how you can incorporate elements of your own personality or training into the design concept. Brainstorm ideas and sketch out rough concepts to visualize your cover design approach.

Materials and Techniques: Select appropriate materials and techniques for creating your handmade cover page. You may choose to work with traditional art supplies such as pencils, markers, paint, collage materials, or mixed media elements. Experiment with different textures, colors, and techniques to bring your design concept to life.

Design Execution: Begin the process of creating your book cover design, paying attention to composition, typography, imagery, and overall visual impact. Work iteratively, refining your design as you progress and incorporating feedback from peers or instructors if available.

Personalization and Expression: Infuse your cover design with elements that reflect your unique personality, style, or expertise in communication skills. Consider incorporating symbols, motifs, or visual metaphors that resonate with you personally or that symbolize key concepts in communication.

Presentation: Once your book cover design is complete, photograph or scan it to create a digital representation for presentation purposes. Prepare a brief explanation or artist statement that provides insight into the inspiration, creative process, and significance of your cover design.

Reflection: Reflect on your experience of designing the book cover, considering the challenges you encountered, the decisions you made, and the artistic choices you found most rewarding. Discuss how your design reflects your personal connection to the subject of communication skills and what you learned through the creative process.

Submission Guidelines:

Submit a digital image or scan of your handmade book cover design along with your artist statement. Ensure that your submission is clearly labeled with your name and any additional information requested by your instructor. Submit your assignment by the specified deadline, adhering to any additional formatting or submission requirements provided by your instructor.

Evaluation Criteria:

Your assignment will be evaluated based on the following criteria:

Creativity and Originality: The extent to which your book cover design demonstrates originality, inventiveness, and artistic expression.

Visual Impact: The overall visual appeal and effectiveness of your design in capturing the attention and interest of viewers.

Personalization and Relevance: The degree to which your design reflects your personal style, interests, or expertise in communication skills and its relevance to the subject matter.

Craftsmanship and Technique: The skillfulness and proficiency demonstrated in the execution of handmade techniques, including use of materials, composition, and attention to detail.

Reflection and Insight: The depth of your reflection on the creative process, including challenges, decisions, and personal connections to the subject of communication skills.

Note: Embrace experimentation and exploration as you engage with the creative process of designing your book cover. Allow your personality and individuality to shine through in your design, creating a visually compelling representation of your connection to the subject of communication skills.













Course Plan Submitted v/s completed				
Subject: Electives – Communication skills		Course Code: 421		
Faculty: Pro	of. Ashwini Bhosale			
WEEK	TOPIC TO BE COVERED	ASSIGNMENT	Adhered to the schedule or not	Which COs are aligned to each lecture and assignment
1	Introduction to Communication Skills: Definition, The Importance of Communication. Objectives What is Communication? Importance of Communication How do we Communicate? Why are Communicate? Why are Communication skills important? What is a Skill? Language skills Types of Communication Styles of Communication What is Communication skills in Architecture?	Activity 1: 1. Why am I here? 2. Guide for the blindfolded Book assignment 1: Rose, Thorn, Bud	YES	CO1
2	Barriers to communication & Visual Communication	Activity 2: 1. Telephone 2. Memory Test Activity 3. Partner Presentations 4. Introduction to Role-playing Book assignment 2: A4 report on assignment 2 (How	YES	CO2, CO3

		did you experience all the activities)		
3	Discussions	Presentation by students – Role Playing	YES	CO3
4	Final Presentation	Presentation by students – Role Playing	YES	
5	Reading Skills: a gateway for communication skills Basic Listening Skills: Introduction, Self- Awareness, Active Listening, Becoming an Active Listener, Listening in Difficult Situations.	Assignment 3: 1. One Word Splash 2. Just Listen Book Assignment 3: Text to self reading Task	YES	CO1
6	Writing Effectively: Subject Lines, Put the Main Point First, Know Your Audience, Organization of the Message	Assignment 4: 1. Picture story Book Assignment 4,5: 1. Dear Diary 2. Writing exercise	YES	CO2
7	Picture Story class presentation (Assignment 4)	Assignment 4: Class Presentations (Picture story)	YES	CO4
8	Giving Presentations: Dealing with Fears, Planning your Presentation, Structuring Your Presentation, Delivering Your Presentation, Techniques of Delivery. Introducing Pecha Kucha Format.	Assignment 5: 1. Architectural Presentations – Visions Reviewed	YES	CO3, CO4
9	Architectural Presentations – Visions Reviewed (Assignment 5)	Discussions	YES	
10	Architectural Presentations – Visions Reviewed (Assignment 5)	Final Presentation Book Assignment 6: An A4 report on the learnings from Assignment 5	YES	
----	--	---	-----	----------
11	The Importance of Teamwork & Collaboration in Architectural World	Assignment 6: Spaghetti Tower Book Assignment 6 An A4 report on the learnings from Assignment 6	YES	CO4, CO5
12	Group Discussion: Introduction, Communication skills in group discussion, Do's and Dont's of group discussion	Assignment 6: Debate 1. Form follows function/function follows form 2. Sustainability should be mandatory/ Sustainability should be voluntary	YES	CO5
13	Final Submissions of Electives		YES	

How COs are aligned to each lecture and assignment and assess the outcomes wrt the same: (Explain in detail)

To align the Course Outcomes (COs) with the lectures and assignments of the Communication Skills Elective, we can outline how each lecture and assignment contributes to achieving these outcomes. Let's break down the COs and how they are addressed throughout the course:

Course Outcomes (COs):

Mastering clear communication, structured content, and engaging delivery techniques across diverse contexts.

Alignment with Lectures and Assignments:

Lecture Topics: Introduction to Communication Skills, Barriers in Communication, Visual Communication, Effective Writing Communication Skills.

Assignments:

Assignment 1 (Flyer Design): Emphasizes visual communication skills and structured content. Assignment 2 (What If Challenge): Encourages creative thinking and structured narrative development.

Assignment 5 (Multimedia Expression): Involves interpreting architectural concepts and translating them into engaging multimedia presentations.

Assessment: Evaluations of assignments focus on the clarity of communication, both written and visual, and the effectiveness of the delivery techniques used.

Applying critical analysis to communication challenges, proposing effective solutions, and adapting strategies accordingly.

Alignment with Lectures and Assignments:

Lecture Topics: Barriers in Communication, Effective Writing Communication Skills. Assignments:

Assignment 3 (Architectural Role-Playing): Requires critical analysis of an architect's design philosophy and effective presentation of findings.

Assignment 4 (Architectural Transformation): Challenges students to analyze architectural intricacies and propose innovative transformations.

Assessment: Assignments assess students' abilities to analyze complex communication challenges and propose creative solutions through presentations and reports.

Cultivating self-assurance, managing anxiety, and delivering engaging speeches with poise and conviction.

Alignment with Lectures and Assignments:

Lecture Topics: Overcoming anxiety, fear, and nervousness when making presentations. Assignments:

All Assignments: Each assignment requires students to present their work confidently, fostering self-assurance and effective speech delivery.

Assessment: Students' poise, confidence, and conviction in their presentations are evaluated as part of the assessment criteria.

Excelling in group discussions, debates, and team projects through effective teamwork and problem-solving.

Alignment with Lectures and Assignments:

Assignments:

Assignment 3 (Architectural Role-Playing): Involves group discussions and collaborative learning. Assignment 4 (Architectural Transformation): Requires teamwork to tackle complex problems and delegate responsibilities.

Assessment: Team-based assignments evaluate students' ability to collaborate effectively and solve problems collectively.

Skillfully utilizing visual tools like multimedia presentations and architectural models to convey complex ideas effectively.

Alignment with Lectures and Assignments:

Lecture Topics: Visual Communication.

Assignments:

Assignment 1 (Flyer Design): Focuses on visual design and multimedia elements.

Assignment 5 (Multimedia Expression): Encourages the use of multimedia to convey architectural concepts effectively.

Assessment: Evaluates students' proficiency in utilizing visual tools to enhance communication and convey ideas clearly.

Assessment and Evaluation:

Each lecture and assignment is designed to reinforce specific skills and knowledge related to the Course Outcomes.

Assessments of student progress and achievement are conducted based on the alignment of lecture content, assignment objectives, and evaluation criteria.

Guest Lectures and Future Scope:

Guest lectures can further enhance productivity and knowledge transfer related to the course content.

Future improvements may include incorporating more interactive sessions, real-world case studies, and advanced techniques in communication and presentation skills.

By aligning lectures, assignments, and assessments with the Course Outcomes, the

Communication Skills Elective aims to equip students with comprehensive skills in communication, critical analysis, self-assurance, teamwork, and effective use of visual tools for professional contexts.

Course Assessment Procedures

- Concept quizzes and skills quizzes for each module Class Attendance, Progressive Marking to be done, Class room Participation
- On the spot topic, debate discussion
- Performance Assignment/ Presentation

Recommended Books for Reading:

- Presentation and Public Speaking by S M Wahiduzzaman (Author)
- Public-Speaking Secrets of the World's Top Minds by Carmine Gallo (Author).
- The Complete Presentation Skills Handbook by Suzy Siddons (Author)
- Five Stars: The Communication Secrets to Get from Good to Great By Carmine Gallo
- Power Questions: Build Relationships, Win New Business, and Influence Others By Andrew Sobel and Jerold Panas

Recommend Links for Watching:

For current texts and materials, use the following links for presentation;

- https://www.youtube.com/watch?v=xmj1LBJu_Ss
- Barack Obama at https://www.youtube.com/watch?v=NxFkEj7KPC0 Page 6 of 3
- Barack Obama at https://www.youtube.com/watch?v=Qbel5MhtDq4
- Oprah Winfrey Harvard Commencement speech at https://www.youtube.com/watch?v=GMWFieBGR7c
- Mark Zuckerberg at https://www.youtube.com/watch?v=BmYv8XGI-YU
- https://www.youtube.com/watch?v=iCvmsMzIF7o&list=RDCMUCAuUUnT6oDeKwE6v1NGQxu g&index=24 1

M.E.S.

PILLAI COLLEGE OF ARCHITECTURE , New Panvel

TERM PLAN

Subject : PRE DESIGN S	Session : 2023 - 2024 Year :		Year: 2023	3	
Course code: 421	Credits: 03	Semester : IV	No of Periods per week : 02		
	Sessional Marks - 50	Interna	al : 50	Total Marks: 50	
Examination	Theory Paper -	Externa Theory	al Jury : 00 Paper : 00		

Faculty	Subject coordinator: Prof. Tanaya Deka		
Faculty team:			
1.		2.	
3.		4.	

Course Aim and objective :

INTRODUCTION: -

Pre-Design as a subject plays a very important role in developing the analytical minds of the students and thus improving the creative visualization and communication skills, through which improved value creation is achieved. The process of Pre-design also helps in developing the technical skills and the theoretical understanding of the process of acquiring a project and developing it further.

METHODOLOGY :

AIM:-

To prepare the students for their Architectural Professional Practice by developing different skills required to acquire the projects by convincing the clients and further developing it. Also to approach design in a constructive way by formulating & developing design strategies.

OBJECTIVES:

To prepare the students with the ground work to be done before the actual process of the design starts.

To create a comprehensive platform to launch the design.

The groundwork eventually helps formulate & present Architectural programme & site analysis.

PROCESS:-

The course will be conducted through lectures and discussions and would give two outcomes:

- Powerpoint presentation of the lectures. There would be presentation of the lectures of the various topics from the syllabus. Alongwith it interactive sessions & discussions for better understanding of the students.
- 2. Students were taught to prepare feasibility reports by taking up existing projects. A lot of discussions continued till the final output was achieved.
- 3. Lastly, Pshychology was taken up and taught to the students about its importance and role in Architectural Design process. Students were given different topics on which they gave presentations in the class and also discussions were held so that all the students can get the overview of the importance of Psychology in Architecture.

To assess their understanding about various codes of conduct and legal implications along with other topics, tests would be conducted.

Sugges	ted Reading Books/ Links/Research Journals
S.No.	Name of the reference
1	Architectural Programming and Predesign Manager, by Robert G. Hershberger
2	Before You Build: A Pre-Design, Pre-Construction Guide for Homeowners (Project Team): Homeowners Architecture Project Workbook Kindle Edition
3	Programming for Design: From Theory to Practice by Edith Cherry

4	Why architecture matters Psychology in Architecture Author:Paul Goldberger
5	The Architecture of Happiness Author – Alain de Botton Year -2006

We ek	Topic to be covered	Date	Assignments	Adhered to the schedule or not	Marks weight age %	Learnings/ Takeaway if any
1	Introduction on Pre- Design	12.12.23		YES	5%	It is very important for the students to know.
2	Process of Pre-Design	19.12.23		YES	5%	It is very important for the students to know.
3	Pre-Design Dynamics	02.01.24		YES	10%	This approach helped students to participate & understand with practical sites.
4	Introduction of feasibility report	09.01.24	Study on some existing reports	YES	5%	Very important
5	Study on Feasibility Report	16.01.24	Decoding the studied reports	YES	5%	
6	Preparation of Feasibility Report	23.01.24		YES	5%	
7	Preparation of Mind Mapping	30.01.24	Mind mapping reports	YES	5%	Interaction with contractors would be even more helpful.
8	Guest Lecture	06.02.24	Lecture	YES	5%	
9	Introduction to Pshychology in Architecture	13.02.24	Discussion	YES	5%	
10	Role & Importance of Pshycology in the process of Pre-Design	20.02.24	Discussion	YES	5%	

11	Presentation by students on respective topics	27.02.24	Power point presentation	NO	10%	
12	Continuation of presentation	05.03.24	Power point presentation	YES	5%	Personal interaction would be more useful.
13	Discussion on the presentations.	12.03.24		YES	5%	
14	Discussion & conclusion on Pshycology in Architecture.	19.03.24		YES	5%	
15	Doubts clearing session	26.03.24		YES	20%	



IDEA, INNOVATION AND PATENING ELECTIVE

Presented by: 04. SAYLI BIRLA 25. RUSHIL KATHIRIYA 65. NISHANT TANDEL



Guided by: PROF. TANAYA PROF. NEHA D PROF. PRATHAMESH

Date : 03 / 01 / 2024

Semester: SEMESTER IV

College: PICA (NEW PANVEL)



In today's rapidly advancing technological landscape, the need for precision, efficiency, and adaptability in various fields has become paramount. The traditional metric scale, while reliable in its simplicity, is increasingly being overshadowed by the capabilities offered by digital metric scales. The transition from analog to digital metric scales is driven by several compelling reasons that underscore the necessity for this technological evolution.

- 1. Precision and Accuracy:
- 2. Efficiency and Time-Saving:
- 3. Versatility and Multifunctionality
- 4. Data Logging and Record-Keeping
- 5. Integration with Digital Systems
- 6. Ease of Use and Reduced Learning Curve



Unlocking Infinite Possibilities **Revolutionizing Measurement: The Digital Metric Scale**



Traditional

Digital

The digital metric scale redefines precision and adaptability, seamlessly integrating advanced sensors, connectivity, and user-friendly interfaces to revolutionize measurement experiences across diverse fields.







FUNCTIONS



Smart Customization

- Imperial to metric conversion.
- Customizable settings for industry or personal preference.



Adjustable Angles

- Beyond scaling, the digital scale offers adjustable angles.
- Enhance flexibility and accommodate various design requirements.



Digital Scaling

- Simplifying drafting with a user-friendly digital scale.
- Versatile tool for reading drawings with precision.









SPECIFICATION:



Processor use is LSI (large scale integration)

- 12 inches LCD display for clarity.
- Lithium iron battery life with solar charging.
- Single switch to ON / OFF the scale.





USER GROUP:

The Digital Multi-Scale and Angle Sensing Device are tailored to meet the needs of diverse user groups across various industries. The primary user groups include

- 1. Manufacturing and Engineering Professionals
- 2. Construction and Carpentry Specialist
- 3. Scientific Researchers and Lab Technicians
- 4. Field Surveyors and Geologists
- 5. Educational Institutions
- 6. Professional Trades







What are the Advantages?

- Tailored for architects and students.
- Multiple scale options for versatile drafting.
- Sensors for identifying the angles.
- No need to carry multiple drafting tools.
- Easy to use, Easy to carry.









Thank

You







M.E.S.					
PILLAI COLLEGE OF ARCHITECTURE , New Panvel					
	COURS	E REPORT			
Subject: Electives		Term: I		AY: 2023-24	
Course Code: 521	Credits : 2	Semester: V	No of Periods per week : 2		eek : 2
Total Marks: 50	Internal : 50	External : Nil	Theory	/ Paper : Nil	

Faculty:	Subiect coordinator : Dr. Sudnya Mahimkar

Attach Following documents:

Photographs of students work wrt each assignment

Format 12 - SWD ppt in given format - 2 best works and 4 average works of each assignment

Students attendance of semester scanned

Format 3 -Topics Covered format scanned

INTRODUCTION:

The course "Architecture, Anxiety and Spirituality" was designed to address the unique challenges faced by architecture students in managing stress and anxiety. The aim was to equip students with practical strategies, incorporating both traditional and innovative approaches, to promote mental well-being throughout their academic journey.

Methodology

The primary aim of the course was to enhance students' understanding of anxiety and provide them with tools to manage it effectively. The specific objectives included raising awareness, identifying triggers, teaching coping strategies, and fostering a supportive community.

PROCESS:

The course spanned 12 modules, each focusing on a specific aspect of anxiety management. Lectures, group discussions, and interactive activities were employed to engage students actively in the learning process. The incorporation of mindfulness and spiritual practices aimed to provide a holistic approach to anxiety management.

Tools and Techniques Used

Lectures and Discussions: Traditional lectures were complemented by open discussions where students could share their experiences and insights.

Mindfulness Exercises: Regular mindfulness exercises, including guided meditation and deepbreathing techniques, were integrated into each session.

Group Activities: Collaborative projects and group activities encouraged peer-to-peer support and a sense of community among students.

Yoga Sessions: Periodic yoga sessions were conducted to emphasize the mind-body connection and the release of happy hormones.

Innovative Approaches Used

Guest Speakers: Experts in psychology and mindfulness were invited to share their insights, offering a diverse range of perspectives on anxiety management.

Reflective Journals: Students were encouraged to maintain reflective journals throughout the course, fostering self-awareness and tracking their progress.

Library Usage

The course promoted the use of the university library for additional resources on anxiety management, mindfulness, and related topics. Recommended readings and research articles were provided, and students were encouraged to explore the library's collection.

Achievement of Aim and Objectives

The course was successful in achieving its aim and objectives:

Increased Awareness: Pre- and post-course surveys indicated a significant increase in students' awareness of anxiety and its management.

Identifying Triggers: Through group discussions and reflective activities, students demonstrated a heightened ability to identify personal anxiety triggers.

Coping Strategies: Assignments, such as the Anxiety Management Plan and Mindfulness Exercise, showcased students' application of coping strategies learned in the course.

Community Support: Group activities and the community outreach project demonstrated a stronger sense of community and peer support among students.

Library Utilization: The majority of students reported utilizing the library for supplementary readings, indicating a positive response to the recommended resources.

Addressing Aim and Objectives through Assignments

Anxiety Management Plan: This assignment directly addressed the aim and objectives by requiring students to create a personalized plan integrating strategies learned in the course.

Mindfulness Exercise: By practicing mindfulness exercises, students applied techniques introduced in the course, aligning with the objective of promoting mental well-being.

Community Outreach Project: This assignment not only encouraged students to apply their knowledge but also addressed the aim of fostering community support and awareness about anxiety.

Self-Reflection and Self-Assessment: Incorporated into each module, these activities allowed students to assess their progress in line with the course objectives.

	Course P	lan Submitted v/s com	npleted	
Subject:			Course Code: 521	
Faculty: Dr.	sudnya Mahimkar			
WEEK	TOPIC TO BE COVERED	ASSIGNMENT	Adhered to the schedule or not	Which COs are aligned to each lecture and assignment
June – Week 1	Understanding anxiety	Diary - anxiety management plan	Yes	CO1, CO 2
June – Week 2	Identifying triggers			CO1, CO 2
June – Week 3	Managing time			CO3
June – Week 4	Setting goals	Self-assessment – Stage 1		CO5
July – Week 1	Self-care	Spiritual Self-Care Activity Diary		CO4
July – Week 2	Mindfulness	mindfulness exercise that incorporates		CO4

		spiritual elements	
July – Week 3	Building resilience		CO3
July – Week 4	Positive self-talk	Self-assessment – Stage 2	CO3
August – Week 1	Seeking support	anxiety management plan – peers / community outreach / discussions outcome	CO3
August – Week 2	Coping strategies		CO3
August – Week 4	Balancing work and life		CO3
September – Week 1	Moving forward	Self-assessment – Stage 3	CO5

How COs are aligned to each lecture and assignment and assess the outcomes wrt the same:

CO1:	Knowledge (Remembering) – Identify key concepts related to the intersections of architecture, anxiety and
	spirituality, including foundational terms and principles.
CO2:	Comprehension (Understanding) – Explain the significance of spiritual practices in influencing anxiety experiences
	and describe the unique stressors they face in their academic journey
CO3:	Application – Apply relevant theories and methods to assess the levels of anxiety in them and explore how spiritual
	practices can serve as coping mechanism.
CO4:	Analysis – Compare and contrast different spiritual approaches in mitigating anxiety and critically assess their
	effectiveness.
CO5:	Evaluation – Evaluate the cultural implications of incorporating spirituality as elective and propose
	recommendations for future interventions.

IMAGES OF STUDENTS WORK (EACH ASSIGNMENT) TO EXPLAIN THE ACHIEVEMENTS TO BE COMPOSED BY IN-CHARGES IN THE PPT - FORMAT 12.

The images can not be submitted as it is a very personal data.

PILLAI COLLEGE OF ARCHITECTURE , New Panvel

M.E.S.

	COURS	E REPORT			
Subject :Electives		Session : 2023-24		Year :3rd yea	ar
Course code: BARC 521	Credits : 3	Semester :5	:5 No of Periods per week :		eek :
Total Marks: 100	Internal :100	External :00	Theory	/ Paper :	00

Faculty	
	Prof.Sarojini Lohot .

INTRODUCTION

The students need to understand the fundamental principles in the building of physics for ensuring efficiency functionally in already built environments. A house is much more than four walls and a roof. It is an interactive system made up of many components, structure, ventilation, and filtration. Each component influences the performance of the entire system. Buildings perform in very predictable fashion. These performance characteristics are based on four simple principles of physics.

AIM

The course aims at providing a fundamental understanding of the physics related to buildings and to propose an overview of the various issues that have to be adequately combined to offer the occupants a physical, functional and psychological well-being.

OBJECTIVES

To understand solar geometry and its application in design To understand thermal properties of different components of building ,wall glass roof etc To understand day lighting and harvesting stratergies.

PROCESS

The studio will have lectures , book reading , and hands on assignments in the class 1.Climate Analysis:- climate data for the region where the building is located, including temperature variations, solar radiation levels, humidity, wind patterns

an effective climate analysis process integrates accurate data collection, thorough assessment of climate impacts, strategic application of passive design strategies, integrated with the design process.

2. Case studies:- explore case studies, analyze building systems, and propose strategies to enhance energy efficiency, indoor environmental quality, and sustainability in buildings.

3.Application in design proposal:- w.r.t Passive design strategies day lighting, ventilation & materials used.

METHODOLGY ADOPTED

Tools and techniques you are planning to use (eg.

1. lectures,

2. Presentations,

3. Case study/Site visit.

HORIZONTAL INTEGRATION.

Electives assignment are aligned with the AD sem 5 projects which will help the students in development of the design

COURSE OUTCOMES

1 Gaining knowledge about sun movement & its impact on building design

2 Understanding new technologies w.r.t building envelope design.

3 Day lighting Strategies Implementation:- Stratergies to enhance day lighting

4 Skill to develope energy efficient building

5 Design Optimization Skills:

Course	e Details :					
Wee	Topic	Objectives	Date	Related	Date of	Marks weightage %
k				Assignments	Submission	
1	Solar Geometry	To understand Earth sun relation, Sunpath diagram, solar radiation Design implementations	4 Weeks	Assignment-1 CLIMATE ANALYSIS FOR DESIGN PROJECT	CO1,CO5	20
2	Glazing & Shading Devices	To understand Thermal Properties of glazing , shading devices & calculations	3Week	Assignment 2 CASE STUDY ANALYSIS	CO2,C04	20%
3	Lighting design concept	Basics of daylight, Daylight Harvesting systems & design considerations	4 Week	Assignment 3 Stratergies used in design problem w.r.t daylighting, & ventilation & materials used.	CO3,CO5	60%

Note : 10% Marks weightage to be considered for Attendance

Bibliog	raphy
S.No.	Name of the reference
1.	Handbook of Energy Conscious Buildings by: J.K. Nayak & J.A. Prajapati
2.	Climate Responsive Architecture: A handbook for energy efficient buildings by Arvind Kishan, Nick Baker, Simos yannas, S.V. Szolklay, Isaac Meir, Yair Etzion
3	Design with Climate: bioclimatic approach to architectural regionalism by Victor Olgyay

STUDENTS WORK

1) Case study analysis w.r.t climatic zones



2) CLIMATE ANALYSIS





TEMPERATURE DATA



The months March, April, May, June have comparitively highest temperature throughout the year. Annual average temperature - $23\,^{\circ}\text{C}$ Annual average high temperature - $31\,^{\circ}\text{C}$ Annual average high temperature - $20\,^{\circ}\text{C}$:

@weatheronline.in



RAINFALL

The selected site for the project is located on the Mumbai Pune Expressway, 5 km from the Talegaon Urse toll plaza and 26 km before Lonavala.

Talegaon accepts on average 741 mm (29.2 in) of rainfall per year, or 61.8 mm (2.4, in) per month. The drivet weather is in January when an average of o mm (or in) of minfall (precipitation) occurs. The variets weather is in July when an average of 163 mm (6.4 in) of rainfall (precipitation) occurs.





Access has also been death for their

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	MONTHS	TAHRTAKA	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBE
	MAK	98.20%	93%	78%	. 85%	45%	100%	00%	97%	94%	\$85%	94%	95%
2020	MN.	30,60%	28%	24%	21,20%	.25%	-25%	59%	48%	97%	48%	47%	37%
1.112	AVERAGE	63.40%	60.50%	31.50%	-53.10%	55%	62.50%	23%	7250%	75.50%	73%	70.50%	00%
	MAX	94,22%	\$2,205	54-20%	97.20%	92%	36%	90%	54%	95%	100%	38%	100%
2025	1.011	27%	98%	22%	143%	24%	40%	04%	06.20%	05.10%	40%	46%	#EW
	AVERAGE	00,02%	55.10%	\$3.10%	-56.60%	- 58%	77.50%	77%	17.10%	.00.03%	24%	- 73%	12:50%
3022	MAX	95.20%	88%	BR AD'N	36.70%	199 80%	97.90%	109 20%	19.30%	87.90%	35.10%	42.80%	87%
	NIPL.	22.60%	25.10%	19.90%	21,60%	25.20%	57.39%	63.70%	74.60%	. 60.50%	35%	34.60%	32.80%
	ANTRAGE	.04.72%	54.96%	80.90%	52,10%	50.00%	\$7,30%	63.1076	02.30%	84 50%	69%	65,87%	60.40%
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MONTHLY REALTIVE HUMIDITY FOR YEAR 2022



MONTHLY REALTIVE HUMIDITY FOR YEAR 2021

Monthly Relative Humidity Data of Pune



MONTHLY REALTIVE HUMIDITY FOR YEAR 2020

Monthly Relative Humidity Data of Pune



The highest humidity is seen during the monsoon season particularly during the months of July and August

The highest average humidity was observed in the months of August in 2022 The lowest Average humidity was seen during the month of March in 2022

3) Climate Responsive Strategies used in your AD design





NEW PILLAI

M.E.S. PILLAI COLLEGE OF ARCHITECTURE, New Panvel COURSE REPORT Subject: Disaster Relief Shelter Term: I AY: 2024-25 (Elective - 5) **Course Code:** Credits: 3 Semester: V No of Periods per week : 1 **BARE 521** Total Marks: 100 Internal: 100 External: 00 **Theory Paper : 00**

Faculty:	Subject coordinator : Prof. Suvarna Thakare
	Team Members:

Attach Following documents:

Photographs of students work wrt each assignment
Format 12 - SWD ppt in given format - 2 best works and 4 average works of each assignment

Students attendance of semester scanned

Format 3 -Topics Covered format scanned

INTRODUCTION:

As the climate is changing at a fast pace and the frequency of occurrence of disasters is increased in the past decade. Any disaster management requires the provision of personal safety, security from adverse climatic conditions and ill health, and supply of food/water/clothing to the affected people. The provision of shelters is of paramount importance for displaced or affected people. Architects, as responsible master designers, need to think beyond the expensive dwellings for the rich and also focus on the well-being of the disaster-affected people of the country.

Therefore, this elective intends to widen students' knowledge in understanding of the types of disasters, their reasons for occurrence, their impact on people's lives and the role of architects in case of disaster. This elective aims to make students aware of architectural interventions in case of various disasters. And to sensitize and enable students to learn and apply techniques to build structures that can be easily erected, dismantled and transported, thereby extending help to the NGOs and Government sectors working for the same.

Methodology (All the following points must be addressed in ALL subjects)

Aim: This elective aims to make students aware of architectural interventions in case of various disasters. And to sensitize and enable students to learn and apply techniques to build structures that can be easily erected, dismantled and transported

Objectives:-

- 1. To understand the various types of disasters and their impacts on human lives.
- 2. To familiarize with the aspects of Disaster Management: Prevention and management

PROCESS: (Please elaborate pointwise)

1. Please explain the methods of Conduction of classes and studios wrt aim and objectives. The entire course was divided into three modules. Each module had a faculty presentation and discussion. Module 1 was focused on Disaster Types and Human Response; Module 2 was focused on Material Research and anthropometry considerations and Module 3 was focused on Prototype design based on the study done in Module 1 and 2.

- 2. Tools and techniques used for course conduction.
- Faculty Lectures and Presentations To explain the various concepts on disaster and architectural intervention in disaster prone area faculty had taken lectures followed with discussion on it.
- Discussions with students One-to-one discussions helped students to widen their knowledge base and understanding of the subject.
- 3. Which are the innovative approaches adopted in this semester? As this subject was introduced for the first time in the syllabus, students were given the freedom to select a disaster type of their choice to explore in depth. They could either focus on understanding any disaster in detail and design an architectural intervention based on the knowledge gained through lectures and assignments. This approach sparked curiosity and encouraging students to take ownership of their learning and delve deeper into the subject.
- 4. Explain the approaches used to encourage library usage by students and faculty. As this was the new topic and rarely explored in the B. Arch curriculum therefore Students were provided with a list of recommended books which are readily available online. Students were encouraged to explore the library for additional relevant books or projects that could serve as sources of inspiration.
- 5. How and to what extent, the aim and objectives are achieved.

Aim and objectives are achieved completely. It is done through Various assignments and its presentation during studio, discussions, preparation of scaled model for the architectural intervention.

- Extent of horizontal and vertical integration achieved.
 Vertical Integration The content of the course acts as a foundation for the thesis topic selection in their 9th Semester
- 7. Extent of adherence to the Course Plan and schedule of submission prepared before the course started.

The entire course plan and submission schedule were meticulously documented, with the only deviation being that the submission dates were changed from the initial plan.

8. Explain with the help of each assignment and students work. Assignment 1:

Students to compile 10 image examples of any one disaster that happened all over the world showcasing the impact of destructions with minimal writeups arranged in a presentation format (to be presented on the next class)



Batten Down the Hatches: A Look Back at Cyclone Amphan, 2020





Looking back at Cyclone Amphan, a powerful storm that hit the Bay of Bengal in 2020.





The Amphan made landfall near the Sundarbans, between the Digha coast that is in India and the Hatiya island in Bangladesh. It caused the death of 84 human lives (72 person in India and 12 Banaldesh.) Widesread devastation and huse comomic loss. Amphan formed in the Bay of Bengal in May 2020, rapidly intensifying into a super cyclonic storm. Its massive size and strength posed a significant threat to coastal areas.



The loss in terms of architecture due to Cyclone Amphan was substantial. The cyclone caused extensive mage to buildings, infrastructure, and architectural structures in the affected areas. Many homes, schools









The architectural landscape of the affected regions was significantly impacted, requiring extensive reconstruction and repair efforts to restore the damaged structures.







Immediate response teams were deployed to provide emergency assistance, including rescue operations, medical aid, and distribution of essential supplies like food, water, and shelter materials.









Immediate response teams were deployed to provide emergency assistance, including rescue operations, medical aid, and distribution of essential supplies like food, water, and shelter materials.

Assignment 2:

Students to compile 5 image examples of Disaster Relief Shelters used in the disaster (Which you had studied in the earlier assignment - 1) with minimal writeups arranged in a presentation format (to be presented on the next class).



ASSAM

The Art of Living has been working round the clock to provide relief materials to the flood victims. Apart from collecting and distributing flood relief material, our teams have been uniting various stakeholders to join hands in working for the flood relief including, the corporate.

Starting June every year, the monsoons arrive in Assam, leaving the rivers like Brahmaputra and Pagaldia at a timest of breaching the danger mark, hurther leading to flooding. This year too, the monsoon has been particularly harsh with 30 of the 33 districts reeling under nature's fury. The death toil has risen to over 75 and there has been a loss of animal life with over 200 animals reported dead, including 17 one-horned thinocoros at the Kaziranga National Park. Over 54 lach peopie have been displaced and several farmers have lost their homes and crops. The mmediate concern is the spread of diseases like diarthea, fever, and pneumonia as people have no option but to live surrounded by tagnant water.



PALM LEAVES

CLOTHES

TRUNK HOLLONG



Assignment 3:

Search for minimum five materials with photos and brief writeups and approximate costing. Find out innovative examples' disaster relief shelter around the world (to be presented in power point format).

BAMBOO HOUSE SHELTER





Withstand earthquake,, winds, rainfall. Good thermal and acoustic properties. Bamboo doesn't snap at the first sign of stress. Its elasticity allows it to weather storms and earthquakes that would break or crumble other building materials.

COST EFFECTIVE :- 450-500/- per sq.ft

SHIPPING CONTAINER SHELTERS



Shipping container shelters are being used in disaster management due to their quick deployment, durability, and cost-effectiveness. These shelters repurpose shipping containers into housing solutions for disaster-affected individuals. They offer strength, customization options, sustainability, affordability, and scalability, making them valuable in providing emergency shelter.

COST EFFECTIVE :- On average, the cost of a basic shipping container shelter can range from ₹1.5 lakh to 3.5 lakh

RELIEF TENTS





For disaster management, tents play a crucial role in providing temporary shelter to those affected by natural disasters like earthquakes, floods, or hurricanes. They are quick to set up, portable, and can accommodate displaced individuals or families in need of immediate housing

The minimum cost for a basic disaster management tent in Indian rupees can be around ₹5,000

SHIPPING CONTAINER SHELTERS



Shipping container shelters are being used in disaster management due to their quick deployment, durability, and cost-effectiveness. These shelters repurpose shipping containers into housing solutions for disaster-affected individuals. They offer strength, customization options, sustainability, affordability, and scalability, making them valuable in providing emergency shelter.

COST EFFECTIVE :- On average, the cost of a basic shipping container shelter can range from ₹1.5 lakh to 3.5 lakh

5



Assignment 4:

Dear Students, Kindly select any two options of shelters presented today and explain its joinery details. Ex. Connection of horizontal members, vertical members with each other, roofing details and its connections with main frame, walling details and its connection with the frame.

In short details of following things -

- A Anchoring to ground
- B Bracing technique
- C Connections : All

connections and joineries of various building components

D - Diaphragm (Roof) connections

Shigeru Ban's Nepalese Emergency Shelters to be Built from Rubble



HELLO!







Straw Bale House

Brick Rubbled House



Woodeen Frame

Bamboo House







٦







12.18



Assignment 5:

Kindly submit your Shelter Proposal sketches which must consider following thoughts

1. Type of disaster you are addressing

2. Weather it is transitional shelter of it is a temporary structure of first 2-3 months of after disaster

3. Shelter capacity - For family of 4-5 people, community of 10-15 people, etc

4. Sketches must include plan, section, elevation, joinery details (as explored in assignment4)

5. Costing

6. What issue this shelter is going to solve - Explaining Purpose/need, urgency of such design type
SHELTER PROPOSAL

Type of Disaster

This proposal focuses on providing immediate shelter solutions for regions affected by floods, particularly in the mountainous terrains of Uttarakhand. The mountainous terrains of Uttarakhand. The region is prone to heavy monsoon rains, leading to flash floods, landslides, and river overflows, which cause significant damage to infrastructure and displacement of communities. The proposed shelter design aims to ofter a quick and reliable solution for families and communities relocated to higher altitudes during such emergencies.



Purpose/Need

In disaster situations like floods, the immediate concern is the safety and shelter of displaced populations. Traditional relief efforts often face delays due to logistical challenges, difficult ferrain, and the challenges, difficult ferrain, and the unavailability of suitable shelter solutions. The proposed design addresses these challenges by offering a solution that can be quickly deployed, even in remote or mountainous regions.

Assignment 6:

Nature of the Shelter

The proposed shelter is a structure designed for transitional The proposed shelfer is a transitional structure designed for immediate deployment within 24 hours of a disaster event. The shelter is intended to serve as a temporary solution for up to 3-4 weeks post-disaster, providing safe and secure housing until more permanent solutions can be implemented. It is specifically designed to be rapidly assembled and easily transported mating it ideal to autor secure be rapidly assembled and easily transported, making it ideal for quick rescue operations.

Shelter Capacity

The shelter design is modular and scalable, allowing for different capacifies based on the needs of the affected population. The basic units can accommodate: **Faulty Unit:** Designed to house a family of 4-5 people. This unit provides sufficient space for sleeping, storage of personal belongings, and basic living activities. **Community Unit:** Larger units can be assembled to accommodate 10-15 people, particularly in situations where communal living is pecesary.

- where communal living is necessary.

ROPE

FRAME

WOODEN STICKS

> TARPAULIN SHEET

mEN. STICKS EARTHBAGS

Costing

- Ropes

- Ropes:
 Quantity Required (for a Family Unit): Approximately 50 meters

 Cast per Meter, ₹15

 Total Cost for Ropes: ₹750

 Factory-Made Heavy Duty Canvas Sheet (Waterproof Tarpaulin):

 Size Required (for a Family Unit): Approximately 60 square meters

 Cost per Square Meter: ₹60

 Total Cost for Canvas Sheet, ₹1,800

 Quantity Required (for a Family Unit): 20-30 bags

- 30 bags Cost per Bag: ₹5 Total Cost for Earth Bags: ₹100- ₹150 Total Costinng for a Family Unit : ₹3450/-

Urgency of Design Type

The urgency of such a design is rooted in the need for rapid response to protect lives. With the increasing frequency and intensity of natural disasters due to climate change, there is a pressing need for solutions that can be implemented within hours of an event. This shelter design is crucial for providing immediate protection from the elements, securing personal safety, and maintaining the dignity of those affected by disasters. disasters.

Problem Solved

EARTHBAGS

The primary issue this shelter solves is the lack of immediate, safe, and functional housing in the attermath of a disaster. By using easily accessible materials like debris and bamboo or wooden sticks, and a simple construction process, the shelter can be erected quickly, providing a much-needed refuge. It also addresses the challenge of constructing on uneven or unstable terrain, as the earth bags offer a stable base. This design ensures that families and communities are not left exposed to the elements during the critical period following a disaster.

Dear Students, Submit Detailed drawings on A3 / A2 Sheet with title of the project, vision statement (What problem it is going to solve, aim behind the design process), with detail drawings showing dimensions, material specifications, 3d Views. Kindly note that all assignments are individual



9. Scope for improvement in future (next year). A guest lecture and a site visit to get in-depth knowledge about the construction details and how site conditions and available material resources influence the design need to incorporate.

10. Mention if any guest lectures, site visits or workshops conducted under this subject to increase general or focused understanding of the subject. NA

	Course P	lan Submitted v/s con	npleted		
Subject: Disaster Relief Shelter			Course Code: BARE 521		
Faculty: Pro	f. Suvarna Thakare				
WEEK	TOPIC TO BE COVERED	ASSIGNMENT	Adhered to the schedule or not	Which COs are aligned to each lecture and assignment	
1-2	Introduction to elective -Elective methodology, disasters and their types, and few examples	Assignment 1: Find out the 10 examples of disasters that happened all over the world showcasing the impact of distractions	YES	CO1	
3-4	Lecture on: Disaster Relief shelters and their types	Assignment 2: Find out 5 examples of relief shelters w.r.t. disaster typology per group and write down brief information about it	YES		
5-6	Lecture on: Various materials used in the designing of relief shelters	Assignment 3: students need to study any one region in detail with respect to the occurrence of the disasters and its impact on people	YES	CO2	
7-8	Lecture on: Site selection, anthropometry, Gender in shelter design	Assignment 4: two case studies per student for any one type of disaster relief	YES	CO3, CO4	

		work in India and abroad		
9-10	Lecture on: Disaster Management: Prevention and management	Assignment 5: Design a prototype for a selected disaster and making its scaled model	YES	CO3, CO5

How COs are aligned to each lecture and assignment and assess the outcomes wrt the same: (Explain in detail)

CO1: Basic understanding about disaster and its impact on settlement.

Assignment 1: Find out the 10 examples of disasters that happened all over the world showcasing the impact of distractions

CO2: To Explore the various architectural intervention stages after a disaster. Assignment 2: Find out 5 examples of relief shelters w.r.t. disaster typology per group and write down brief information about it

CO3: To study the use of different materials, anthropology and various design considerations for the design of relief shelters.

Assignment 4: Two case studies per student for any one type of disaster relief work in India and abroad Assignment 5: Design a prototype for a selected disaster and making its scaled model

CO4: To explore the role of gender in disaster relief shelter designing Assignment 3: students need to study any one region in detail with respect to the occurrence of the disasters and its impact on people

CO5: To use the pre study in prototype design.

Assignment 5: Design a prototype for a selected disaster and making its scaled model

	Term I / JY- AY 24-25 - Sem:	5			
Subject:	Elective : Disaster Rulief Shelter	Professor/s	Guvarna	Thakare	5
Date	Topics Covered in Lecture	Assignment introduced	Assignment Submitted	Student	s' Signature
11/06/24	Introduction of the Subject	Assig 1.	17/06/24	tone	Blick
18/06/24	Presentat" by students + Types of Disaster	A 55ig 2	25/06/24	Obieto	Tatil
	retief shiller				
25/06/24	tecture on Materials for DBRS + Presentation	Ass3	1/07/24	Aans	an.
107124	Lecture on guiddines for shelter Design +	Ass4	15/07/24	16102	trank
5/07/24	Discussion on Assignment-4			600	Tedu
13/07/24	Discussion on Jainery disign for shelter			Benny	
30/07	Discussion and presentation on shelter			Nondu	Favor-
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13/08	(DISUISION.			Busi	
20/08	Discussion on Disaster Shulter disign			Patil	Hundel
27/08	Discussion on final submission				Dennis
	e dial Studio			Fatil	Harris

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IMAGES OF STUDENTS WORK (EACH ASSIGNMENT) TO EXPLAIN THE ACHIEVEMENTS TO BE COMPOSED BY IN-CHARGES IN THE PPT - FORMAT 12.

M.E.S.							
PILLAI COLLEGE OF ARCHITECTURE, New Panvel							
COURSE REPORT							
Subject: Electives Term: I AY: 2023-24							
Course Code: 521	Credits: 3	Semester: V	No of Periods per week: 2				
Total Marks: 100 Internal: 100 External: NIL Theory Paper: NIL					NIL		

Faculty:	Subject coordinator: Prof. Vrinda Padhye
	Team Members: Prof. Prakash Shringarpure

INTRODUCTION:

In the dynamic world of architecture and construction, effective Project Management is the cornerstone of successful endeavors. The "Project Management Elective" conducted between June and September 2023 at our esteemed architecture college aimed to equip our students with essential knowledge and skills in this critical field. This session served as a comprehensive introduction to the fundamentals and concepts of Project Management, emphasizing its pivotal role in the architectural community.

Methodology (All the following points must be addressed in ALL subjects)

Aim:

Introduction to Project Management: To introduce students to the fundamentals and concepts of Project Management.

Understanding Architectural Relevance: To enable students to grasp the significance of Project Management in the architecture fraternity, particularly its direct relevance to construction projects.

CPM & PERT Proficiency: To make students proficient in the use of CPM and PERT techniques in project management, with a specific focus on their application in construction projects.

Objectives: -

Comprehensive Project Management: To introduce students to the holistic nature of Project Management, emphasizing its role in overseeing the entire project lifecycle.

Application of CPM & PERT: To ensure that students not only understand but also learnt he application of CPM and PERT techniques, especially in the context of network analysis for construction.

PROCESS: (Please elaborate pointwise)

 Please explain the methods of Conduction of classes and studios wrt aim and objectives. Lecture Content: During lectures, a broader range of concepts and fundamentals in Project Management was discussed, including project lifecycles, the role of a project manager, and the significance of Project Management in architecture. These lectures provided students with a comprehensive understanding of Project Management, covering COs 1 and 2 (understanding the role of Project Management in architecture and understanding of Project & Role & Qualities of a project manager).

Class Tests: The class tests predominantly focused on assessing students' understanding of network analysis, bar charts (Gantt charts), and event activities. These tests directly addressed COs 3 (understanding Bar/Gantt charts, activities & events with different examples) and CO 4 (understanding the role of CPM & PERT in Project Management).

2. Tools and techniques used for course conduction.

The tools and techniques used primarily consisted of lectures and class tests. Lectures served as the core method for delivering theoretical knowledge and practical insights related to Project Management, CPM, and PERT. These sessions allowed students to grasp the fundamental concepts and methodologies. Additionally, class tests were used to assess the students' comprehension and application of the learned material. These assessments ensured that students not only gained knowledge but also had the opportunity to apply it, reinforcing their understanding of Project Management and its tools, making the learning experience comprehensive and effective.

Which are the innovative approaches adopted in this semester? NA

4. Explain the approaches used to encourage library usage by students and faculty. NA

5. How and to what extent, the aim and objectives are achieved.

Skills Development:

Class tests predominantly focused on assessing students' proficiency in network analysis, bar charts (Gantt charts), and event activities. This directly addressed COs 3 (understanding Bar/Gantt charts, activities & events) and CO 4 (understanding the role of CPM & PERT in Project Management). Students were tested on creating project schedules using Gantt charts and identifying critical paths in architectural projects, ensuring they acquired the specific skills needed for Project Management.

Knowledge Acquisition:

Lectures provided a broader understanding of Project Management principles, including the role of a project manager and the importance of Project Management in architecture, aligning with COs 1 and 2. Class tests focused on related to network analysis tools and techniques. This dual approach ensured students gained both specific and comprehensive knowledge, covering a spectrum of Project Management concepts and fundamentals.

Understanding Development:

The class tests sharpened students' understanding of technical aspects, such as network analysis, bar charts, and event activities. Meanwhile, lectures contributed to a broader comprehension of Project Management as a discipline, encompassing concepts like project lifecycles and the holistic perspective of project management. This linked with COs 1 and 2.

Application of Knowledge:

Class tests directly assessed students' ability to apply their technical knowledge in practical architectural contexts, as they were required to create project schedules and identify critical paths, aligning with COs 3 and 4.

Enhancement of Creativity:

While class tests primarily evaluated technical skills, they indirectly encouraged creativity by prompting students to propose innovative solutions within the framework of Project Management. The practical application of network analysis, bar charts, and event activities allowed students to explore creative solutions to architectural challenges, aligning with COs 1 and 4.

6. Extent of horizontal and vertical integration achieved. NA

7. Extent of adherence to the Course Plan and schedule of submission prepared before the course started. Explain with the help of each assignment and students work.

The course plan emphasized a balanced approach, combining theoretical knowledge through lectures with practical assessments via class tests.

The session effectively covered the essential elements outlined in the course plan, including network analysis, bar charts (Gantt charts), event activities, and their relevance to

architecture. The lectures provided students with a comprehensive understanding of Project Management principles and their significance in the field, aligning well with the specified Course Outcomes (COs).

The class tests, which predominantly focused on network analysis and related tools, reinforced the practical application of this knowledge, ensuring that students could apply these skills effectively. This combination of theory and practice created a well-rounded learning experience, aligning with the original course plan and providing students with the necessary skills, knowledge, and understanding to excel in the realm of architectural Project Management.

8. Scope for improvement in future (next year).

Guest Lectures: Inviting experienced professionals from the field of architectural Project Management as guest lecturers can provide real-world insights and practical wisdom to students. These experts can share their experiences, challenges, and success stories, adding depth to the theoretical knowledge gained in the course.

Quizzes: Incorporating regular quizzes can promote active learning and engagement. These quizzes can be designed to test students' understanding of key concepts, keeping them on track and reinforcing their knowledge throughout the workshop.

Group Projects: Assigning group projects that require students to plan and execute a smallscale architectural project can offer hands-on experience. This practical approach allows students to apply their knowledge collaboratively, improving teamwork and project management skills.

Workshops and Software Training: Offering workshops on Project Management software commonly used in the industry can equip students with practical skills. Learning to use tools like Microsoft Project or specialized construction management software can be invaluable

Mention if any guest lectures, site visits or workshops conducted under this subject to increase general or focused understanding of the subject. NA

	Course P	Plan Submitted v/s co	mpleted	
Subject: El	ectives 5	Course Code 521		
Faculty: Pro	of. Vrinda Padhye, Prof. Prakasl	h Shringarpure		
WEEK	TOPIC TO BE COVERED	ASSIGNMENT	Adhered to the schedule or not	Which COs are aligned to each lecture and assignment
1	Introduction Session	-	Yes	CO1
2	Introduction to Project Management	-	Yes	C01
3	Introduction to Project Management	-	Yes	CO1.CO2
4	Introducing CPM & PERT to students	-	Yes	CO3
5	CPM & PERT Details	-	Yes	CO3, CO4
6	CPM & PERT Details	-	Yes	CO3, CO4
7	CPM & PERT Details	-	Yes	CO3, CO4
8	Class Test 1	Class Test 1	Yes	
9	CPM & PERT – Network Analysis	-	Yes	CO4, CO5
10	CPM & PERT – Network Analysis	-	Yes	CO4, CO5
11	CPM & PERT – Network Analysis	-	Yes	CO4, CO5
12	CPM & PERT – Network Analysis	-	Yes	CO4, CO5
13	CPM & PERT – Network Analysis	-	Yes	CO4, CO5
14	CPM & PERT – Network Analysis	-	Yes	CO4, CO5
15	Class Test 2	Class Test 2	Yes	

How COs are aligned to each lecture and assignment and assess the outcomes wrt the same: (Explain in detail)

The session effectively covered the essential elements outlined in the course plan, including network analysis, bar charts (Gantt charts), event activities, and their relevance to architecture. The lectures provided students with a comprehensive understanding of Project Management principles and their significance in the field, aligning well with the specified Course Outcomes (COs).

Skills Development:

Class tests predominantly focused on assessing students' proficiency in network analysis, bar charts (Gantt charts), and event activities. This directly addressed COs 3 (understanding Bar/Gantt charts, activities & events) and CO 4 (understanding the role of CPM & PERT in Project Management). Students were tested on creating project schedules using Gantt charts and identifying critical paths in architectural projects, ensuring they acquired the specific skills needed for Project Management.

Knowledge Acquisition:

Lectures provided a broader understanding of Project Management principles, including the role of a project manager and the importance of Project Management in architecture, aligning with COs 1 and 2. Class tests focused on related to network analysis tools and techniques. This dual approach ensured students gained both specific and comprehensive knowledge, covering a spectrum of Project Management concepts and fundamentals.

Understanding Development:

The class tests sharpened students' understanding of technical aspects, such as network analysis, bar charts, and event activities. Meanwhile, lectures contributed to a broader comprehension of Project Management as a discipline, encompassing concepts like project lifecycles and the holistic perspective of project management. This linked with COs 1 and 2.

Application of Knowledge:

Class tests directly assessed students' ability to apply their technical knowledge in practical architectural contexts, as they were required to create project schedules and identify critical paths, aligning with COs 3 and 4.

Enhancement of Creativity:

While class tests primarily evaluated technical skills, they indirectly encouraged creativity by prompting students to propose innovative solutions within the framework of Project Management. The practical application of network analysis, bar charts, and event activities allowed students to explore creative solutions to architectural challenges, aligning with COs 1 and 4.

IMAGES OF STUDENTS WORK (EACH ASSIGNMENT) TO EXPLAIN THE ACHIEVEMENTS TO BE COMPOSED BY IN-CHARGES IN THE PPT - FORMAT 12.



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Elective 5 Project Management

STUDENTS' WORK

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STUDENTS' WORK

Elective 5 Project Management

AY 2023-24_YEAR III_SEM V_ELECTIVE



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M.E.S.							
PILLAI COLLEGE OF ARCHITECTURE , New Panvel							
COURSE REPORT							
Subject: Elective(Trans Sense)	Term: I		AY:2023-24				
Course Code:510	Credits : 3	Semester: V	No of I	Periods per we	eek:1		
Fotal Marks: 100	Internal :100	External :00	Theory	/ Paper :00			

Faculty:	Subject coordinator :Avinash Sabhagani
	Team Members:

Attach Following documents:

Photographs of students work wrt each assignment

Format 12 - SWD ppt in given format - 2 best works and 4 average works of each assignment

Students attendance of semester scanned

Format 3 - Topics Covered format scanned

INTRODUCTION:

Introducing them to the road safety & civic sense to the students & its importance.

Methodology (All the following points must be addressed in ALL subjects)

Aim: To introduce the concepts, principles, tools & important; aids of Road Safety & Civic sense to the students. To Acquaint them with the design & amp; safety standards for roads. Also inculcate the practice of safe road behavior &; civic sense among them. What to be done in case of emergency.

Objectives:-

- 1. To make observations.
- 2. Recording & apply; analyzing them
- 3. To make them aware transportation planning basics.

PROCESS: (Please elaborate point wise)

- Please explain the methods of Conduction of classes and studios wrt aim and objectives. The theory classes will be presented first then they will be going for the site visit implementing their ideas for safety for the pedestrians. Then class test will be conducted during the term.
- Tools and techniques used for course conduction.
 Lecture, presentation & Class test were conducted during the conduction of the classes.
- How and to what extent, the aim and objectives are achieved. The theory classes will be presented first then they will be going for the site visit implementing their ideas for safety for the pedestrians. Then class test will be conducted during the term.
- 4. Extent of horizontal and vertical integration achieved. The students can integrate the knowledge in the architectural design with taking into consideration Traffic Regulations, Laws, Road Safety & Civic Sense, Traffic signal & Control AIDS, Traffic signs & Road Markings, Pedestrian Circulation & Barrier free design, Design of Intersection & typology of roads.
- 5. Extent of adherence to the Course Plan and schedule of submission prepared before the course started.

The adherence to the course plan & schedule was most of the times considered but due to technical issues of rain etc. classes were conducted in online.

- Scope for improvement in future (next year).
 May be we could conduct the guest session on the traffic study observation.
- Mention if any guest lectures, site visits or workshops conducted under this subject to increase general or focused understanding of the subject.
 Site visits were given to the students for understanding the traffic conditions of different

kinds of different timings were given to them.

Course Plan Submitted v/s completed							
Subject: Elective(Transportation & Civic Sense)			Course Code:510				
Faculty:Avin	Faculty:Avinash Sabhagani						
WEEK	TOPIC TO BE COVERED	ASSIGNMENT	Adhered to the schedule or not	Which COs are aligned to each lecture and assignment			

How COs are aligned to each lecture and assignment and assess the outcomes wrt the same: (Explain in detail)

1. The concepts will be presented in the classes that can be observed from the site.

2. Then Using this knowledge will be considered for the justifying the considerations for their design.

IMAGES OF STUDENTS WORK (EACH ASSIGNMENT) TO EXPLAIN THE ACHIEVEMENTS TO BE COMPOSED BY IN-CHARGES IN THE PPT - FORMAT 12.

Assignment 1



	Tunistica
WHAT ARE DIFFERENT VEHICULAR CHARACTERISTICS?	nadius
WHAT ARE DIFFERENT VEHICULAR CHARACTERISTICS?	 nadius The maximum turning native depends on the sheet base of the vehicle and the steering angle. It play an important note in vehicle manufacturing operations. When vehicles turn of low speed the near other presses the frant sheet the difference between near and frant sheet the difference between near and frant sheet the difference between near and frant sheet is called of the near other breaks. It is commany known as mechanical widening. B. Dynamic Speed of vehicles it affects, > sight distance > indice on vertical curves > indike of transition curve on vertical curves > width of pavenent > width of pavenent > width of pavenent > indike of bagits have - > apachy of bagits have - > apachy of bagits have - > > apachy of bagits have - > >
Different Types OF VEHICLES. The vehicles can be classified under the following artegonies namely: <u>Light vehicles</u> - Almost all cars, come under this category and compact cars come under this category too. <u>Heavy duty and commercial vehicles</u> - Trucks: large vehicles used for transporting goods, vanjing from light-duty to heavy duty thucks. Buses: Vehicles designed for public transportation often with a high passenger capacity.	

Commercial includes various types of vehicles used for commercial purposes, such as detiring news, food trucks, and writing vehicles.

- Two-wheeled vehicles powered by an engine.

. Motorcydes and scooters-

4

Assignment 2





. HAZARD

adverse effect.

just traffic related.

of accidents or incidents

- 1) Refers to potential sources of harm or

2) can be present in Various environment, not

3) Includes tactors that increase the Unelihood

Pr 2020

4) Identify hozards allows implementing

safety measures to prevent accidents in

the side of the stairs on ramps should be 20mm high tip on the exposed edge



3] Visually challanged :-

Design requirements for semi and visually challanged 1) Use of guiding blocks for persons with impaired vision to guide them without within the buildings and facilities and outside of the building 2) Installation of Formation bound in braile

3) For persons with limited vision use of contrasting colour anangements.

Bremoval of anyopiects and sufficient walking space for safe walking.

-23 SHRAVANI

Assignment 3

6

30/08/23 3) street lightning is very necessary at Transportation intersections, bridges sites, level crossings Assignment - 03 and places where traffic movements are] Explain the need of street lighting? banned . -> 1) street lighting is provided on side of the 9 street lighting is provided along the road read or within median or suspended over where sides to make traffic and obstructions on above the road to provide illumination, lighting road clearly visible in order promote safety should be always kept a signalized intersections 4 convinience . and circular intersections. a) In Order to have safer, more comfortable, more (0) It also make traffic and obstractions on road clearly visible in order promote on street convinient. sufficient movement of Vehicles more attractive and improves traffic speed and Pedestrians at night time, street lighting and traffic flow conditions Or highway lighting is needed along road. 3) Lighting should be managed well it should permit hight traffic operations with maximum possible safety comfort, convenience 4) street lighting is to authorized road users to view occurrately and easily the carriage way and the quick surroundings in darkness 5) street lightning enhances visibility at night through artificial lightning decreases stress on driving and makes sure comfort. 6) It feels very easy to drive a vehicle in Presence of street lighting 7) with the help of screet lighting traffic speed can be improved and traffic flow conditions can be made better. - 23 SHRAVANI KULKARNI

upes of Road Markings

O longitudinal Markings: - Its marked or painted on

Some direction as traffic on the Parement Sanface to direct the driver to proper position

These are generally located parallel of adjoining to traffic flow 4 help to separate the traffic

flow in some direction D Broken lines - This lines allows driver to cross

between lanes with caution. Broten Yellow

Broten white

(i) soild lines - This lines do not allows drivers to moss between lanes, only entry at initial point + exit at end point is allowed.

solid yertow

i Double solid - Double solid times lindicate driver not to cross large but can be exempted in case of emergency.

23 SHRAVANI K

() botted lines - Dotted line provides warning about nouse variation ahead.

000000000

(3) Transverse markings - Transverse pavement marking Rand marked along direction of traffic where immidiate action is required by driver. () stop line marking :- Must marked where traffic lanes approch the traffic control devices, indicate driver to stop Vehick behind line whenever required.

Dedestrian crossing :- It indicates the movement or passage of podestinan and indicates driver to slow down or stop vehicle.

Directional arrow: These lines are marred to provide direction to drivers & easy traffic Flow.

3) Arrow Morking :- Painted on Pavements of moods to provide signt direction to driver & they must take or tollow these mandatory turns to avoid traffic confusion.



one direction: Driver must drive in designeded direction .

(ii) Two direction :- Driver can drive in either direction

(1) Hazand Markings: This markings used to Indicate driver of hozand being the junction up ohead. such prohibiting cross-over, changing OF lanes, merging or diverging.

Block Marrings: - Block manifing and marked in Form of block such as Zebra- crossing for Peolestrion 3 chequired 4 kniangular blocks for speed breakers.



(C) Directional Markings + This markings that is marked/painted interms of words so it is easy to understand + allows driver to take action accordingly. The character of message are elongate so it is visible to driver looking at lower angle. • Directional marking words:-• stop • slow • school

· stop · slow · School · Edit · Eurice ahead · speed limit -23 shrotoni Facility Morking or Parking
 This marking helps facilitate vehicle Parking
 giving an idea about parking space limits
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Different coloures used in Road Marking.

· White - white mark seperate the traffic flow "In some direction.

- Yellow = rellow line separates the traffic flow in opp. direction .
- Red / Purple :- This line is recommended for hozardous junctions.

•Blue :- Blue is generally used for Public transportation of dedicated by lones.

-23 SHRAVANI

Facility Marking or Parking
 This marking helps facilitate vehicle Parking
 Spring an idea about parking Space limited

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Different coloures used in Road Marking.

• White - white mark separate the traffic flow in some direction.

• Yellow : Yellow line separates the traffic flow in opp. direction .

• Red / Purple :- This line is recommended to hozardous junctions.

•Blue :- Blue is generally used for Public transportation of dedicated by lones.

-23 SHRAVANI



S Traffic cincles - This is the raised islands at centre of one lane, unsignalized intersection where traffic circulates around island in order to cross small traffic also minimound boundary. These circles requires drivers to slow docon 4 Pay attention to their sugroundings in order to maneurcr around them.



M.E.S.					
PILLAI COLLEGE OF ARCHITECTURE, New Panvel					
COURSE REPORT					
Subject: ELECTIVE (PARAMETRIC DESIGN)		Term: ll		AY: 2023-24	
Course Code: BARC621	Credits : 03	Semester: VI	No of Periods per week :01		eek :01
Total Marks: 100	Internal :100	External :-	Theory	/ Paper :	-

Faculty:	Subject coordinator :PRASHANT B	
	Team Members:	

Attach Following documents:

Photographs of students work wrt each assignment
Format 12 - SWD ppt in given format - 2 best works and 4 average works of each assignment
Students attendance of semester scanned
Format 3 -Topics Covered format scanned

INTRODUCTION:

Parametric design is an innovative approach to design that utilizes algorithms and mathematical equations to generate and manipulate digital models. This subject explores the principles and techniques of parametric design, focusing on its applications in various fields such as architecture, engineering, product design, and digital art. Through a combination of theory and hands-on practice, students will learn how to create complex and dynamic designs that respond intelligently to different parameters and constraints.

Methodology (All the following points must be addressed in ALL subjects)

Aim: Understanding parametric modeling software (e.g., Grasshopper for Rhino, Dynamo for Revit). Exploring parametric relationships and dependencies.

Objectives:-

Understand the principles and techniques of parametric design. Create complex and dynamic designs using parametric modeling software. Apply parametric design principles to solve real-world design challenges in various fields. Communicate and present parametric design concepts effectively to peers and stakeholders. Collaborate with multidisciplinary teams to integrate parametric design into design processes and projects.

PROCESS: (Please elaborate point wise)

1. Please explain the methods of Conduction of classes and studios wrt aim and objectives. Lectures and Demonstrations:

Aim: To provide theoretical foundations and practical demonstrations of parametric design principles and techniques.

Objective: To ensure students understand the fundamental concepts of parametric design and gain proficiency in using parametric modeling software.

Method: Conduct regular lectures where instructors explain key concepts, demonstrate software tools, and showcase examples of parametric design projects. Use visual aids, presentations, and live demonstrations to illustrate concepts effectively.

Hands-on Workshops and Tutorials:

Aim: To facilitate hands-on learning and practical application of parametric design tools and techniques.

Objective: To enable students to develop technical skills in creating parametric models and implementing algorithms.

Method: Organize workshops and tutorials where students work on structured exercises and guided projects under the supervision of instructors. Provide step-by-step instructions, templates, and support materials to help students navigate software tools and complete tasks.

Studio Sessions:

Aim: To foster creativity, collaboration, and critical thinking in the context of parametric design projects.

Objective: To encourage students to explore innovative design solutions and apply parametric principles to real-world design challenges.

Method: Conduct studio sessions where students work on open-ended design projects individually or in groups. Encourage experimentation, peer collaboration, and constructive critique. Provide opportunities for brainstorming, concept development, and iterative design refinement. Facilitate discussions and design reviews to evaluate progress and provide feedback.

Guest Lectures and Industry Visits:

Aim: To expose students to diverse perspectives and real-world applications of parametric design in different fields.

Objective: To inspire students and broaden their understanding of the potential impact of parametric design in various industries.

Method: Invite guest speakers from academia, industry, and professional practice to deliver lectures, share case studies, and discuss current trends in parametric design. Organize visits to architectural firms, engineering companies, fabrication labs, or design studios where students can observe parametric design workflows and interact with professionals. Project-Based Learning: Aim: To cultivate problem-solving skills and creativity through hands-on design projects. Objective: To enable students to apply parametric design principles to address real-world design challenges and produce innovative design solutions.

Method: Assign project-based tasks or design briefs that require students to conceptualize, develop, and present parametric design solutions. Encourage interdisciplinary collaboration and integration of parametric design with other fields such as architecture, engineering, art, or sustainability. Provide opportunities for project presentations, peer feedback, and reflection on the design process.

2. Tools and techniques used for course conduction.

Parametric Modeling Software:

Tools such as Rhinoceros (with Grasshopper), Autodesk Revit (with Dynamo), or Autodesk Fusion 360 are commonly used for parametric design.

Grasshopper: A visual programming language plugin for Rhino, allowing users to create complex parametric models through node-based scripting.

Dynamo: A visual programming extension for Revit, enabling users to create parametric designs and automate repetitive tasks.

Computational Design Plugins: Additional plugins and add-ons for software platforms that extend parametric modeling capabilities, such as Ladybug Tools for environmental analysis in Grasshopper.

Scripting Languages:

Knowledge of scripting languages like Python, Visual Basic for Applications (VBA), or C# can enhance parametric design workflows, especially for advanced customization and automation.

Python scripting is particularly useful for extending the functionality of parametric modeling software and integrating with external tools and libraries.

Physical Computing and Sensors:

Integrating physical computing components such as Arduino or Raspberry Pi with parametric design projects allows for the creation of interactive and responsive designs. Sensors like proximity sensors, light sensors, or motion sensors can be used to capture realworld data and influence parametric design parameters dynamically.

3D Printing and Digital Fabrication:

Utilizing 3D printing, CNC milling, laser cutting, or other digital fabrication technologies allows students to prototype and realize parametric designs in physical form.

Software tools for preparing 3D models for fabrication, such as Autodesk Netfabb or Ultimate Cura, are also essential for the parametric design process.

- Which are the innovative approaches adopted in this semester? Handling environmental aspect of site and design according to design the façade and roof system of structure.
- Explain the approaches used to encourage library usage by students and faculty. To understanding mathematics and complexity behind the design, doing previous structure case studies.
- How and to what extent, the aim and objectives are achieved.
 Yes we achieved the targeted aim to fabricate the design of structure as final output.

- Extent of horizontal and vertical integration achieved. Horizontal integration – to incorporate design of architecture design in this topic. Vertical integration- to understand the technical aspect like construction and material selection will helpful to the design and its optimization.
- 7. Extent of adherence to the Course Plan and schedule of submission prepared before the course started.

Initial Planning Phase:

Before the course begins, instructors develop a detailed course plan outlining the curriculum, learning objectives, assessment criteria, and schedule of submissions. The course plan typically includes a breakdown of topics to be covered each week, along with corresponding assignments, projects, readings, and deadlines. Course Implementation:

During the course, instructors follow the outlined schedule, covering the planned topics through lectures, workshops, studio sessions, and hands-on exercises.

Assignments and projects are distributed to students according to the predetermined schedule, with clear instructions and deadlines provided for submission.

Student Engagement and Progress:

Adherence to the course plan depends on the level of student engagement and their ability to grasp the material within the allocated time frame.

Instructors monitor student progress through regular assessments, class participation, project reviews, and one-on-one consultations.

If students encounter difficulties or require additional support, instructors may adjust the pace of instruction or provide supplemental resources to help them stay on track. Flexibility and Adaptation:

Despite careful planning, unforeseen circumstances such as technical issues, scheduling conflicts, or unexpected events may arise during the course.

Instructors remain flexible and adaptable, making necessary adjustments to the course plan and schedule to accommodate changes while ensuring that learning objectives are met.

Flexibility may involve rescheduling classes, extending deadlines, modifying assignments, or revising the curriculum based on student feedback and evolving needs.

Communication and Transparency:

Effective communication between instructors and students is essential for maintaining adherence to the course plan and schedule.

Instructors regularly communicate course updates, assignment reminders, and any changes to the schedule through emails, announcements, or class discussions.

Transparency about expectations, requirements, and evaluation criteria helps students understand their responsibilities and stay organized throughout the course. Evaluation and Reflection:

At the end of the course, instructors evaluate student performance based on the established criteria and provide constructive feedback on their submissions. Instructors also reflect on the effectiveness of the course plan and schedule, identifying strengths, areas for improvement, and lessons learned for future iterations of the course.

8. Explain with the help of each assignment and students work.

Assignment 1- understanding of parametric in design.

Assignment 2- case study of parametric design structure.

Assignment3- design of wall or façade of building.

Assignment4- understanding factor affecting (sun and wind) to structure and optimize the shape.

Assignment 5-curvelinear roof design with rhino inside.

- Scope for improvement in future (next year).
 -to approach for multiple site visits to design office and workshops.
- 10. Mention if any guest lectures, site visits or workshops conducted under this subject to increase general or focused understanding of the subject.

-yes, site visit of folds design studio, nerul, Navi Mumbai. The visit basically focused on the design and its application and fabrication.

Course Plan Submitted v/s completed					
Subject: electiveBARE 621			Course Code: bare 621		
Faculty:					
WEEK	TOPIC TO BE COVERED	ASSIGNMENT	Adhered to the schedule or not	Which COs are aligned to each lecture and assignment	
1	Introduction of parametric design	Assignment 01	yes	Co1	
2	Introduction of software tools	Assignment 02	yes	Co3	
3-5	Understanding of facade	Assignment 03	yes	Co2,co4	
5-8	Understanding of environmental aspect(wind and sun)	Assignment 04	yes	Co1	
8-12	Curvilinear roof	Assignment 05	yes	Co5	

How COs are aligned to each lecture and assignment and assess the outcomes wrt the same: (Explain in detail)

Learning Outcomes:

By the end of the course, students should be able to:

Understand the principles and techniques of parametric design.

Create complex and dynamic designs using parametric modeling software.

Apply parametric design principles to solve real-world design challenges in various fields.

Communicate and present parametric design concepts effectively to peers and stakeholders.

Collaborate with multidisciplinary teams to integrate parametric design into design processes and projects.

IMAGES OF STUDENTS WORK (EACH ASSIGNMENT) TO EXPLAIN THE ACHIEVEMENTS TO BE COMPOSED BY IN-CHARGES IN THE PPT - FORMAT 12.






	٢	M.E.S.			
PILLAI	COLLEGE OF AR	CHITECTURE	, Nev	v Panvel	
	COURS	E REPORT			
Subject: ELECTIVE ORGA BEHAVIOR MANAGEME	ANIZATIONAL INT	Term: ll		AY: 2023-24	
Course Code: 621	Credits: 3	Semester: VI	No of	Periods per we	eek: 1
Total Marks: 100	Internal: 100	External: NIL	Theory	y Paper :	NIL
Subject coordinator	Prof. Neha Deshpande				
Team members	Prof. <u>Prakash Shringar</u>	<u>oure</u>			

INTRODUCTION:

Organizational Behavior Management (OBM) focuses on assessing and changing the work environment to improve employee performance and workplace culture.

OBM consultants and managers work in a variety of industries (e.g., health care, human services, education, government, nonprofits, manufacturing, financial services, retail) to achieve meaningful and sustainable behavior change and improved business outcomes. OBM practitioners typically facilitate change initiatives,

improve and develop processes and systems, close gaps in employee performance, retain and develop staff, and support business growth.

Organizational results often include reduced accidents and injuries, improved employee retention, improved customer satisfaction and retention, cultural integration after mergers and acquisitions, improved quality standards, and increased revenue and profits.

Methodology

Aim: To understand & explore concepts & different aspects of OBM in depth.

Objectives: -

1. To introduce the concept of Organization Behavioral Management (OBM).

2. To introduce the working and the structure of an organization.

3. To explore different aspects of OBM such as Conflict management, Stress

management, Leadership Qualities required & motivational strategies.

PROCESS: (Please elaborate pointwise)

1. Please explain the methods of Conduction of classes and studios wrt aim and objectives.

Skills: The course aimed to help students develop practical skills related to OBM, such as conflict management, stress management, leadership qualities, and motivational strategies. Practical exercises, case studies, and role-playing scenarios were included in the course to help students put their knowledge into practice.

Knowledge: The course aimed to provide students with a broad understanding of the concept of OBM and its practical applications in the workplace. Lectures, readings, and discussions were used to provide students with a comprehensive overview of the subject, including various models and theories of OBM, as well as best practices and strategies for implementing OBM initiatives.

Understanding: The course aimed to help students develop a deeper understanding of the complex issues surrounding OBM and its impact on workplace culture and employee performance. In-depth case studies and discussions were used to explore the psychological and behavioral factors that influence employee behavior and performance, as well as the social and cultural factors that can impact workplace dynamics.

2. Tools and techniques used for course conduction.

Role-playing is an effective teaching technique used in many courses, including Organizational Behavior Management (OBM). In OBM, role-playing is particularly useful as it allows students to practice and develop the practical skills needed to succeed in a management or leadership role.

In the OBM course, students were asked to play the role of a manager, employee, or team member in various scenarios. These scenarios were designed to mimic real-world workplace situations, such as conflicts between employees, difficult conversations with clients, or team projects with tight deadlines.

During the role-plays, students were given the opportunity to apply the concepts and theories they learned in class to real-world situations. They had to use their knowledge of OBM to manage conflicts, motivate team members, and effectively communicate with colleagues. Through these exercises, students were able to develop a range of practical skills, including active listening, effective communication, leadership and conflict resolution.

Role-playing also allowed students to gain a deeper understanding of the challenges and complexities of managing or leading in the workplace. They were able to experience first-hand the challenges of motivating employees, navigating difficult conversations, and managing competing priorities. By practicing in a safe and supportive environment, students were able to develop their skills and build confidence in their ability to handle real-world workplace situations.

3. Which are the innovative approaches adopted in this semester?

Enacting & roleplay helped students to understand subject content in depth.

4. Explain the approaches used to encourage library usage by students and faculty.

Not applicable

5. How and to what extent, the aim and objectives are achieved.

The OBM course has successfully achieved its aims and objectives in terms of skills, knowledge, and understanding. Through practical exercises, role-playing scenarios, and indepth discussions, students were able to develop a range of practical skills, broad knowledge, and deeper understanding related to OBM. The course provided students with a comprehensive and practical understanding of OBM and its applications in the workplace, enabling them to effectively manage and lead teams in a variety of industries.

Skills: The course aimed to help students develop practical skills related to OBM, such as conflict management, stress management, leadership qualities, and motivational strategies. The role-playing exercises conducted in the course provided a practical opportunity for students to apply their theoretical knowledge of OBM in real-world scenarios. Through these exercises, students were able to develop their skills in active listening, effective communication, conflict resolution, and leadership. Additionally, the course included practical exercises, case studies, and role-playing scenarios, which allowed students to put

their knowledge into practice.

Knowledge: The course aimed to provide students with a broad understanding of the concept of OBM and its practical applications in the workplace. The course utilized a range of teaching methods, including lectures, readings, and discussions, to provide students with a comprehensive overview of the subject. Lectures covered various models and theories of OBM, as well as best practices and strategies for implementing OBM initiatives. Students were also given a range of readings and articles to supplement their understanding of the subject. Through these methods, students were able to develop a broad knowledge of OBM and its applications in the workplace.

Understanding: The course aimed to help students develop a deeper understanding of the complex issues surrounding OBM and its impact on workplace culture and employee performance. In-depth case studies and discussions were used to explore the psychological and behavioral factors that influence employee behavior and performance, as well as the social and cultural factors that can impact workplace dynamics. Through these exercises, students were able to gain a deeper understanding of the challenges and complexities of managing or leading in the workplace. They were able to experience first-hand the challenges of motivating employees, navigating difficult conversations, and managing competing priorities.

Various case studies are discussed in details to understand the topics, day to day life examples are narrated while explaining the concepts and solve students doubts. Group discussions were encouraged to involve students to communicate their thoughts.

6. Extent of horizontal and vertical integration achieved.

Not applicable

7. Extent of adherence to the Course Plan and schedule of submission prepared before the course started.

The adherence to the Course Plan was a critical component of the OBM course. The Course Plan and schedule were prepared before the course started and were designed to ensure that students received a comprehensive understanding of the subject matter and met the course's learning objectives.

The adherence to the Course Plan and schedule was efficient throughout the course.

8. Scope for improvement in future (next year).

While the OBM course was successfully implemented this year, there is always room for improvement. Here are some areas that can be improved in the future:

Involving more case studies and real-life examples: Although role-play activities were conducted in the class, incorporating more real-life examples and case studies can help students better understand the application of OBM in real-world situations.

Encouraging more student participation: While the role-play activities were effective, more opportunities for student participation could be created in the future. For instance, small group discussions, debates, and case analysis can encourage students to think critically and develop a deeper understanding of the subject.

Incorporating more technology-based tools: Technology-based tools like simulations, virtual reality, and gamification can enhance the learning experience and make it more engaging for students. These tools can also help students develop a better understanding of complex concepts and theories.

Providing more hands-on experience: Providing more hands-on experience can help students develop practical skills that can be applied in real-life situations. For instance, conducting mock interviews, performance appraisals, and conflict resolution sessions can help students develop essential managerial skills.

Incorporating more diversity and inclusion: Incorporating more diversity and inclusion can help students better understand the challenges of managing a diverse workforce. This can be done by incorporating case studies and real-life examples of managing diversity and inclusion.

9. Mention if any guest lectures, site visits or workshops conducted under this subject to increase general or focused understanding of the subject.

Not Applicable

Class test was conducted as a part of internal marking. Students who were not able to attend the test, and those who failed to clear the test attempted were asked to take a retest as a part of remedial assessment.

Those who could not clear the retest were marked as defaulters for the semester.

Course Plan Submitted v/s con	npleted
Subject: ELECTIVE ORGANIZATIONAL BEHAVIOR MANAGEMENT	Course Code: 621
Faculty: Prakash Shringarpure, Neha Deshpande	

WEEK	TOPIC TO BE COVERED	ASSIGNMENT	Adhered to the schedule or not	Which COs are aligned to each lecture and assignment
1	Introduction session	-	yes	CO1
2	Conflict management	-	yes	CO2
3	Conflict management	-	yes	CO2
4	Organization Structure & its types	-	yes	CO1
5	Stress Management	-	yes	CO3
6	Stress Management	-	yes	CO3
7	Stress Management	-	yes	CO3
8	Stress Management	-	yes	CO3
9	Leadership Qualities	-	yes	CO4
10	Motivational Strategies	-	yes	CO5
11	Motivational Strategies	-	yes	CO5
12	Class test	-	yes	

IMAGES OF STUDENTS WORK (EACH ASSIGNMENT) TO EXPLAIN THE ACHIEVEMENTS TO BE COMPOSED BY IN-CHARGES IN THE PPT - FORMAT 12.

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PILLAI COLLEGE OF ARCHITECTURE , New Panvel					
COURSE REPORT					
Subject – Electives 721 – Digital Tools and Techniques		Term: I		AY: 2023-24	
Course Code: 721	Credits : 3	Semester: VII	No of	No of Periods per week : 4	
Total Marks: 100	Internal : 100	External : 0	Theory	Theory Paper : N.A	

Faculty:	Subject coordinator : Jayraj Ghatge
	Team Members: Vrinda Padhye, Tusha

INTRODUCTION:

Autodesk Revit is a building information modeling (BIM) software that has become an industry standard for architects, engineers, and construction professionals. With its advanced tools for designing, documenting, and analyzing building projects, Revit has revolutionized the way the AEC (Architecture, Engineering, and Construction) industry works.

The software enables designers to create a digital model of a building that includes both its physical and functional characteristics. This means that every element of the building, from its walls and windows to its mechanical, electrical, and plumbing systems, can be modeled and coordinated in a single platform.

Revit's collaborative features allow multiple team members to work on the same project simultaneously, reducing errors and improving efficiency. It also has a robust set of analytical tools that can be used to simulate various building performance metrics, such as energy consumption, lighting, and thermal comfort. Given the widespread adoption of Revit in the AEC industry, it is essential for architecture students to have a strong foundation in the software. This course aims to equip students with the skills necessary to create complex building models and produce high-quality construction documentation using Revit.

The course will cover a range of topics, from basic terminology and interface navigation to creating custom families and walkthroughs. By the end of the course, students should be able to confidently use Revit for their design projects and be well-prepared to enter the AEC industry.

Methodology (All the following points must be addressed in ALL subjects)

Aim: The aim of this course is to provide students with a comprehensive understanding of Autodesk Revit, a widely used building information modeling (BIM) software, and its applications in the AEC (Architecture, Engineering, and Construction) industry. The course will focus on building the skills necessary to create complex building models and produce high-quality construction documentation using Revit. By the end of the course, students should be able to confidently use Revit for their design projects and be well-prepared to enter the AEC industry.

Objectives: - 1. To introduce students to the basic concepts and terminology of Autodesk Revit, including its interface and navigation tools.

2. To familiarize students with the various types of elements and families available in Revit, and how to customize them to suit their design needs.

3. To teach students how to create 2D and 3D building models using Revit, including massing and contouring.

4. To enable students to generate construction documentation such as floor plans, elevations, and sections using Revit.

5. To teach students how to use Revit's collaborative features to work with multiple team members on the same project.

6. To provide students with the skills necessary to create walkthroughs and animations of their building models in Revit.

7. To introduce students to Revit's analytical tools and enable them to simulate building performance metrics such as energy consumption and lighting.

8. To provide students with a solid foundation in Revit that will prepare them for further study and work in the AEC industry.

PROCESS:

Methods of Course Conduction: The Revit course was conducted using a combination of lectures, assignments, and studio projects. The lectures covered the theoretical aspects of Revit, while the hands-on workshops helped students apply what they had learned in the lectures. Assignments were given to reinforce the learning and studio projects provided students with real-world application of Revit.

Achievement of Aim and Objectives: The aim and objectives of the Revit course were achieved through the completion of the assignments and studio projects, as well as the assessment of the student's performance. Furthermore, a final portfolio was used to measure the student's overall understanding of Revit.

Extent of Horizontal and Vertical Integration: Horizontal integration was achieved by aligning the Revit course with other courses in the semester, such as building materials or structural systems. This helped students see the connections between different aspects of the building design and construction process. Vertical integration was achieved by incorporating real-world examples and projects from industry professionals to demonstrate the application of Revit in practice.

Adherence to Course Plan and Schedule: To ensure the achievement of the course objectives, adherence to the course plan and schedule was crucial. The instructor tracked the progress of the students and made adjustments to the plan as needed to ensure that the course objectives were being met.

Scope for Improvement: To improve the course for the next year, the instructor can incorporate new techniques and tools, such as virtual reality or augmented reality, to enhance the student's learning experience. Additionally, incorporating more real-world examples and case studies can help students better understand the practical application of Revit in the AEC industry.

Guest Lectures, Site Visits, and Workshops: To increase the student's understanding of Revit, guest lectures, site visits, and workshops were conducted under this subject. Guest lectures from industry professionals provided students with insights into the latest trends and innovations in the field. Site visits provided students with a real-world context to apply their Revit skills, and workshops helped students develop specific skills related to Revit.

Course Plan Submitted v/s completed					
Subject	t: Electives - BIM	Course Code - 721			
Faculty	:				
WEEK	TOPIC TO BE COVERED	ASSIGNMENT	Adhered to the schedule or not	Learnings / take away for faculty if	
				any	
1	Introduction to BIM		Yes		
2	Introduction to BIM and Revit Tools		Yes		
3	Walls, Doors, Windows Introduction	Submission of Plans with doors and windows	Yes		
4	Floors, Roofs		Yes		
5	Revising of Walls Doors and Windows and Roof, floor	Submission of Complete structure at the end of studio	Yes		
6	Properties of walls, doors, windows, floors and roof	Progressive submission	Yes		
7	Plan Development, Stairs and Ramps	Submission of application of staircase and ramp	Yes		

8	Topography	Submission of structure on	Yes	
		contours		
9	Revision and Massing I	Working studio Submission	Yes	
		at the end of the studio		
10	Revision and Massing II	Working studio Submission	Yes	
		at the end of the studio		
11	Walkthrough and Project		Yes	
12	Final Submission	Submission of Final	Yes	
		portfolio		

How COs are aligned to each lecture and assignment and assess the outcomes wrt the same: (Explain in detail)

Course Outcomes:

1. Understanding of Revit Interface and Navigation:

- Lectures: The initial lectures would focus on introducing students to the Revit interface, including components like the Ribbon, Project Browser, Properties Palette, and Viewport Navigation. These sessions provide theoretical knowledge on how to navigate through the software effectively.
- Assignments: Early assignments could involve tasks like basic navigation exercises and interface exploration to ensure that students are gaining practical experience in utilizing these tools.

2. Creation of Building Elements:

- Lectures: Following the introduction, lectures would delve into the creation of fundamental building elements such as walls, floors, roofs, stairs, and ramps. Students would learn the theoretical aspects of how to construct these elements.
- Assignments: Subsequent assignments would involve hands-on tasks where students apply their knowledge to create these elements within Revit. This provides practical experience in modeling architectural components.
- •

3. Creation of Massing and Site Components:

- Lectures: Specific lectures would be dedicated to teaching students how to create massing and site components using Revit's Massing and Site tools. This includes theoretical knowledge on the tools and techniques for creating these larger-scale elements.
- Assignments: Corresponding assignments would challenge students to apply this knowledge by incorporating massing and site components into their Revit models. This ensures they gain practical experience in working with larger-scale elements.

4. Construction Documentation:

- Lectures: Lectures would cover the theoretical aspects of creating construction documentation, including floor plans, elevations, sections, and schedules. Students would learn the principles behind generating accurate and detailed documents.
- Assignments: Subsequent assignments would involve tasks that require students to create these types of construction documents within Revit. This ensures they gain practical experience in producing essential documentation for architectural projects.

5. Presentation and Visualization:

- Lectures: Lectures on presentation and visualization would focus on theoretical knowledge, including the use of rendering and animation tools in Revit.
- Assignments: Assignments would challenge students to create presentations and visualizations of their building projects using Revit's Rendering and Animation tools. This practical application allows them to effectively communicate their design concepts.

IMAGES OF STUDENTS WORK (EACH ASSIGNMENT) TO EXPLAIN THE ACHIEVEMENTS TO BE COMPOSED BY IN-CHARGES IN THE PPT - FORMAT 12.









Assignment 2











Pillai 721 Electives AY 2023-24_YEAR IV_SEM VII_DIGITAL TOOLS & TECHNIQUES STUDENTS' WORK





















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Assignment 3

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PRASHANI DALVI 07 ELECTIVE SEM7

	🐵 📍 fillai	STUDENTS' WORK	721 Electives	AY 2023-24_YEAR IV_SEM VII_DIGITAL TOOLS & TECHNIQUES
Assignment 3	GROUND FLOOP	STUDENTS' WORK	721 Electives	AY 2023-24_YEAR IV_SEM VII_DIGITAL TOOLS & TECHNIQUES
PILLAI COLLEGE OF ARCHITECTURE	🐵 💡 fillai	STUDENTS' WORK	721 Electives	AY 2023-24_YEAR IV_SEM VII_DIGITAL TOOLS & TECHNIQUES





M.E.S. **PILLAI COLLEGE OF ARCHITECTURE**, New Panvel COURSE REPORT Year: 5th year **Subject :** Architectural and Heritage Session : 2023-24 Conservation Course code: 921 Credits: 03 Semester: 9 No of Periods per week : 02 Sessional Marks -Internal: 50 Total **Examination Scheme** External Jury : NA Marks **Theory Paper Theory Paper : NA** 50 _ NA

Faculty	Subject coordinator :	
Faculty team:		
Prof. Ajita Deodhar		

Course Aim and objective :

Background: -

A heritage structure is a representation of the past, the historical values, events, the structural materiality, integrity and construction knowledge of the time period. Architectural and heritage conservation is the discourse that lies at the intersection of architectural design with history, sociology and anthropology, linking them together to further distinguish the idea of preservation, conservation and restoration.

Aim:- The course aims to provide a brief introduction to the discourse of Architectural Heritage conservation and establish a sensitive understanding of the process of conservation.

Objectives:-

- 1. To establish a broad understanding of the definitions, discourses and processes of architectural conservation.
- 2. To examine the role of an architectural conservationist and its integration in practice.
- 3. To inculcate a sensitivity towards heritage values and ethics of conservation.
- 4. To be able to systematically identify, access and provide critical strategies to conserve a heritage structure.

Process:- Please explain the methods of Conduction of classes and studios wrt aim and objectives.

Tools and techniques to be used for course conduction.

The course will be conducted through discussions of case-examples, live case-studies and theory-based lectures. The course is scheduled to conduct a guest lecture by an architectural conservation practitioner. The students will learn about the process and practice of conservation in Mumbai through site visits and case-study documentation. In the second half, the students will be examining the nature of the building through documentation, analysis and a brief design/strategy and ideation project.

Horizontal Integration approach with other subjects in the semester:-

The course is set alongside the thesis semester 09, where the students are undertaking the initial stages of thesis literature review and site selection. This course aims to sensitize the students to the aspects of heritage in relationship to the development context. Therefore, supplementing thesis research and justification.

Expected outcomes in terms of students understanding and skills:-

Skills- Students will develop practical skills in site documentation, condition mapping, and structural analysis through hands-on exercises and field visits. They will learn to draft and refine conservation proposals, enhancing their project planning and critical thinking abilities. Presentation skills will be honed through student presentations and peer discussions, fostering effective communication of ideas and findings.

Knowledge- The course imparts comprehensive knowledge of architectural conservation terminologies, historical context, and key discourses. Students will gain insights into classifying heritage values (cultural, age, material) and learn about various conservation processes and strategies. They will also become familiar with the roles and ethical considerations of conservationists and the functions of national and international conservation organizations.

Understanding- The course cultivates a deep understanding of the significance and ethics of heritage conservation. Through lectures, case studies, and expert insights, students will appreciate the importance of preserving architectural heritage. They will understand the challenges and methodologies involved in conservation projects, enabling them to critically assess and propose effective conservation strategies.

Suggested Reading Books/ Links/Research Journals					
S.No.	Name of the reference				
1	A History of Architectural Conservation by Jukka Jokilehto				
2	Identification and Documentation of Built Heritage in India – Divay Gupta (INTACH)				
3	Conservation Procedures (INTACH)				

4	Burra Charter, Athens Charter, INTACH Charter
5	Conservation of Building Stone – Anuradha Kumar
6	Studies in Biodeterioration of Materials – 1 - by O.P Agrawal
7	Cultural Resource Mapping – Upper Ganga Region – Lokesh Ohri
8	Traditional Water Structures of Rajasthan - INTACH

LINKS:

- 1) INTACH WEBSITE: http://www.intach.org/index.php
- 2) ASI WEBSITE: https://www.india.gov.in/official-website-archaeological-survey-india
- 3) UNESCO WEBSITE: https://whc.unesco.org/en/list/
- 4) BRITISH LIBRARY WEBSITE: https://www.bl.uk/

Course Plan Submitted v/s completed						
Subjec	t: Architectural and H	eritage Conservation	Course code: BARC 921			
Faculty:	Prof. Ajita Deodhar					
Week	Торіс	Related Assignments	Adhered to the schedule or not	Which COs are aligned to each lecture and assignment		
1	Introduction to Architecture and Heritage Conservation, historical overview, terminologies.	Exercise 1.1: Identify any structure that you would qualify as heritage. Present a broad overview of why.	YES	CO3, CO4		
2	Student Presentations and discussion:	Exercise 1.2: Identify any structure that you would qualify as	YES	CO3, CO4		
	Examining heritage value classification - culture, age, material (tangible and intangible)	heritage. Present a broad overview of why.				
3	Introduction to Condition Mapping, grading criteria.	Student Presentations Ex:1.2				
4	Case-Study Visit and analysis: Discussion	Exercise 2: Examine ongoing or completed Architectural conservation projects. Examine the process followed, challenges and various approaches undertaken.		CO1, CO2		
5	Student Presentations	Exercise 2: (Final Review)				

6	Introduction to conservation organisations and structure, Charters, Ethics in conservation	Exercise 3: Essay on Organizations, ethics.	NO	
7	Structural Analysis, Condition Mapping: Site Visit and Documentation	Exercise 4: Site Documentation and Condition Mapping	YES	CO4, CO5
8	Site Visit and Documentation			
9	Guest Lecture			
10	Structure Evaluation and Proposals (draft)	Exercise 5: Strategies/conservati on and/or adaptive reuse		CO4, CO5
11	Strategies and Proposals (draft)			
12	Final Review			



ASSIGNMENT2



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Electives – Heritage Conservation AY 2023-24_YEAR V_SEM IX_ELECTIVE

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STUDENTS' WORK

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ASSIGNMENT 4



Humayun's Tomb Conservation

CHALLENGES FACED & CONTRIBUTION TO PRESERVING THE COUNTRY'S ARCHITECTURAL HERITAGE

Northerne road

IMPACT ON ARCHITECTURAL CONSERVATION IN INDIA

Rham Trust for Culture (ACC) fros mode a considerable impect en architectural conservation is in in valows projects and informes. The organization's focus on neotoing historical monuments, unon status, community engagement, and copocity building has positively influenced indias cultural te fos. reger

rism in outwally significant locations, meintaining their integrity

Inches Revenues

- conomy significant restonation projects to several blackcal monuments in a dia. The monuments and their surpoundings, Samitaniang them into variant curtural :
- ANTC has unders
- AKIC en house littos legeneration and holds: development actual failorcal step. Ing the infortuncture and public spaces lunaurating these macrowerst. AECI has not only I their aresenation but ratio contributed to the overall built of little for local residents. Information and promote heriting waits and cultural events to for local, as well as for the shadems. :



AKTC encouraging islamic architecture and development

Restoration of humeyur's tomb by ARTC. ARTC-promoting heritage walk output events.

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STUDENTS' WORK

Challenges Foced by Aga Khan Trust for Culture in India:

Detectoration and Naglect: Many Nithric thructure in India wifer from defector the to sign, weathering, and register, Lack of proport realitionance and inadequate function resistances preventional challenges for ACIC's conservation efforts.

Urban Development Mesum: In rapidly developing urban area, there's aften presiver to demotive hinter building make war for modern hittastructure. Batancing development even with hetitage preservation cas be challenging.

Funding and Resources: Preservation projects require substantial financial resources, and securing funding atticuit. ACC ofter relies on partnerships with govern private organizations, and darios to carry out to conservation initiatives.



Capacity Butating: The trust invests in training and capacity inflatives for local craftsmen and arisens, passing on tradition and techniques essential for maintaining historic structures.

cacy and Research. The fluid engages in a evalueness about the value of outwar her reproduct, they also conduct research to consignificance of the sites they work on. tage an

Public Private Partnerships: ACC collaborates with governments, private organizations, and after statemodern to pool resources and exemption for successful comencation projects.

Electives – Heritage Conservation AY 2023-24_YEAR V_SEM IX_ELECTIVE





CHALLENGES FACED & CONTRIBUTION TO PRESERVING THE COUNTRY'S ARCHITECTURAL HERITAGE

ASSIGNMENT 5

2. UNITED NATIONS EDUCATIONAL, SCIENTIFIC and CULTURAL ORGANIZATION (UNESCO)



STUDENTS' WORK

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CBJECTIVES

MAJOR PROJECTS / INITIATIVES

UNESCO has been involved in various auchitectural projects and initialives in India. Prese projects are primarly of preserving and promoting india's cultural heritage and diverse architectural hadflors.

Electives - Heritage Conservation AY 2023-24_YEAR V_SEM IX_ELECTIVE

M.E.S. PILLAI COLLEGE OF ARCHITECTURE, New Panvel COURSE REPORT Session : I Year: 2023-24 Subject : ELECTIVE 8 - Illustration as Design Narratives Course code: 921 Credits: 03 Semester: 9 No of Periods per week : 1 Sessional Marks -Internal : 100 Total **Examination Scheme** External Jury : 00 Marks **Theory Paper** 100 Theory Paper : 00

Faculty

Subject coordinator : Prof. Tushara Kaliyath

INTRODUCTION

The ELECTIVE 8 - Illustration as Design Narratives course equips students with essential skills to create compelling design narratives using illustrations. Through a blend of theory and hands-on assignments, students explore the power of visual communication, typography, and graphic design in conveying complex ideas. The course delves into the art of storytelling through images and words, emphasizing the role of illustrations in architectural narratives. Students learn to craft visually engaging content for their thesis projects, honing their abilities to communicate effectively in the realm of design. This introduction sets the stage for a creative journey where students transform concepts into captivating visual narratives.

AIM:

To provide students the skill and ability to create successful design narratives for their thesis projects through illustrations

OBJECTIVE :

- 1. To gain the fundamental skills and understanding needed for designing through Illustration
- 2. To study and understand how illustrations are effective design narratives
- 3. To enable the student the skills of Illustration Infographics, Visual Communication, Communication Design
- 4. To learn how to Communicate design through Illustration, Typography, Graphic Design etc.

PROCESS - METHODS OF CONDUCTION OF CLASSES AND STUDIOS WRT AIM AND OBJECTIVES.

Objective: 1 Develop fundamental skills and comprehension required for designing through Illustration.

Method: Utilize a structured curriculum covering basic principles of drawing, sketching, and digital illustration techniques. Provide hands-on exercises and projects that allow students to practice and refine their illustration skills. Offer guidance and feedback during studio sessions to ensure students grasp fundamental design concepts.

Objective: 2. Explore and analyze the effectiveness of illustrations as design narratives.

Method: Engage students in case studies and discussions on how illustrations convey complex ideas and narratives. Analyze various illustration styles, techniques, and their impact on storytelling in design. Encourage students to critically evaluate existing design narratives and develop insights into effective visual communication strategies.

Objective: 3. Equip students with skills in Illustration, including Infographics, Visual Communication, and Communication Design.

Method: Integrate modules on Infographics, Visual Communication, and Communication Design into the curriculum. Provide training in software tools like Adobe Illustrator and InDesign for creating infographics and visual presentations. Conduct workshops and assignments focused on developing communication design skills through illustration and graphic elements.

Objective: 4. Learn to communicate design concepts effectively using Illustration, Typography, Graphic Design, etc.

Method: Offer specialized modules on Typography and Graphic Design within the course. Teach students principles of typography, layout design, and graphic composition. Assign projects that require students to apply learned design principles in creating visual narratives and design presentations. Provide opportunities for students to experiment with different design elements and techniques to enhance their communication skills.

Expected outcomes in terms of students understanding and skills:-

As the student works on their design project, they'll learn more about why illustrations are effective, what makes a good illustration, and how to plan and design an illustration for maximum impact. They'll explore various approaches to design visualization, and practice creating visualizations like plans, maps, charts, flow charts, and simple drawings in Photoshop/Adobe Illustrator will help students in their DD.

PROCESS - TOOLS AND TECHNIQUES TO BE USED FOR COURSE CONDUCTION.

The tools and techniques used for course conduction in the ELECTIVE 8 - Illustration as Design Narratives course are carefully selected to align with the course objectives and ensure a comprehensive learning experience. Here are the tools and techniques that will be utilized:

1. Software Tools:

- Adobe Illustrator: For vector-based illustration and graphic design.
- Adobe Photoshop: For raster-based image editing and digital painting.
- Adobe InDesign: For layout design, typography, and creating visual presentations.
- SketchUp: For 3D modeling and visualization.
- AutoCAD: For architectural drafting and technical drawings.

2. Traditional Tools:

- Drawing Supplies: Pencils, pens, markers, and sketchbooks for hand-drawn illustrations.
- Painting Supplies: Watercolors, acrylics, and brushes for traditional painting techniques.
- Model Making Tools: Cutting mats, cutting tools, rulers, and modeling materials for creating physical models.

3. Digital Tablets and Pen Displays:

• Wacom Intuos, Wacom Cintiq, and similar devices for digital drawing and illustration.

4. Visual Communication Tools:

- Infographics Software: Tools for creating visually appealing and informative infographics.
- Presentation Software: PowerPoint, Keynote, and Prezi for creating engaging visual presentations.

5. Communication Design Techniques:

- Typography: Principles of typography including font selection, hierarchy, and readability.
- Layout Design: Techniques for organizing visual elements in a cohesive and visually appealing manner.
- Graphic Design: Use of graphic elements such as icons, illustrations, and color schemes to enhance communication.

6. Image Making Techniques:

- Digital Imaging: Techniques for editing, compositing, and manipulating digital images.
- Collage: Creating collages using digital or traditional cut-and-paste methods.
- Image Research: Tools and techniques for conducting image-based research related to design topics.

7. Visualization and Presentation Techniques:

- Rendering: Techniques for creating realistic renderings of architectural designs.
- Presentation Boards: Designing visually compelling presentation boards for design proposals.
- Digital Presentations: Creating interactive and multimedia-rich digital presentations for design concepts.

8. Collaboration and Feedback Tools:

- Online Collaboration Platforms: Tools for collaborative work, file sharing, and feedback exchange among students and instructors.
- Feedback and Critique Sessions: Conducting regular feedback and critique sessions to review student work and provide constructive feedback.

HORIZONTAL INTEGRATION APPROACH WITH OTHER SUBJECTS IN THE SEMESTER:-

The ELECTIVE 8 - Illustration as Design Narratives course adopts a horizontal integration approach with other subjects in the semester to provide students with a holistic learning experience. By connecting with related disciplines such as Architectural Design, Urban Design, Environmental Studies, and Communication Design, this course emphasizes the interdisciplinary nature of design practice. For instance, students will apply their illustration skills to enhance architectural design narratives, incorporating cultural and contextual elements learned from Urban Design and Environmental Studies. Moreover, communication design principles explored in the course are directly applicable to presenting design concepts effectively in various contexts, aligning with Communication Design principles. This integration fosters a deeper understanding of how design disciplines intersect and complement each other, preparing students to tackle complex design challenges with a multidisciplinary perspective.

EXPECTED OUTCOMES IN TERMS OF STUDENTS UNDERSTANDING AND SKILLS:-

Expected outcomes in terms of students' understanding and skills in the ELECTIVE 8 - Illustration as Design Narratives course are aligned with course objectives and assignments, emphasizing proficiency, creativity, critical thinking, and practical application of design skills. These outcomes ensure a comprehensive understanding of the role of illustration in design narratives and its impact on effective communication in architecture.

CO1: Mastery of Fundamental Illustration Skills

CO1 focuses on developing students' proficiency in fundamental illustration skills, including drawing, sketching, and digital illustration techniques. This outcome emphasizes the importance of mastering these skills to create visually compelling design narratives.

CO2: Understanding of Effective Design Narratives

CO2 aims to deepen students' understanding of how illustrations contribute to effective design narratives. This outcome highlights the importance of storytelling, visual hierarchy, and narrative coherence in conveying complex ideas through illustrations.

CO3: Proficiency in Infographics and Visual Communication

CO3 focuses on enabling students to create engaging infographics and visual communication designs. This outcome emphasizes the use of graphic elements, typography, and layout design to effectively communicate design concepts.

CO4: Application of Illustration in Typography and Graphic Design

CO4 is designed to enhance students' skills in integrating illustration with typography and graphic design. This outcome underscores the importance of using illustration as a medium to enhance communication and visual impact in design presentations.

CO5: Practical Application of Design Principles in Thesis Projects

CO5 emphasizes the practical application of design principles learned in the course to thesis projects. This outcome encourages students to incorporate illustration techniques, storytelling, and

visual communication strategies into their design proposals, demonstrating their ability to apply learned skills in real-world design challenges.

List of a evaluat	List of minimum FIVE Course Outcomes (COs) based on which student's progress will be evaluated.						
1	CO1: Mastery of Fundamental Illustration Skills						
CO1 foc sketchir skills to	CO1 focuses on developing students' proficiency in fundamental illustration skills, including drawing, sketching, and digital illustration techniques. This outcome emphasizes the importance of mastering these skills to create visually compelling design narratives.						
2	CO2: Understanding of Effective Design Narratives						
CO2 ain This out conveyi	CO2 aims to deepen students' understanding of how illustrations contribute to effective design narratives. This outcome highlights the importance of storytelling, visual hierarchy, and narrative coherence in conveying complex ideas through illustrations.						
3	CO3: Proficiency in Infographics and Visual Communication						
CO3 foc outcom commu	uses on enabling students to create engaging infographics and visual communication designs. This e emphasizes the use of graphic elements, typography, and layout design to effectively nicate design concepts.						
4	CO4: Application of Illustration in Typography and Graphic Design						
CO4 is c This out visual in	CO4 is designed to enhance students' skills in integrating illustration with typography and graphic design. This outcome underscores the importance of using illustration as a medium to enhance communication and visual impact in design presentations.						
5	5 CO5: Practical Application of Design Principles in Thesis Projects						
CO5 em outcom strategi challeng	CO5 emphasizes the practical application of design principles learned in the course to thesis projects. This outcome encourages students to incorporate illustration techniques, storytelling, and visual communication strategies into their design proposals, demonstrating their ability to apply learned skills in real-world design challenges.						

EXPLAIN WHICH

1. SKILLS

2. KNOWLEDGE

3. UNDERSTANDING

ARE EXPECTED TO BE DEVELOPED UNDER THIS SUBJECT AND HOW? PLEASE EXPLAIN WRT AIM AND OBJECTIVES IN 150 TO 300 WORDS.

The ELECTIVE 8 - Illustration as Design Narratives course aims to develop a range of skills, knowledge, and understanding among students, aligning with its specific aim and objectives.

Skills:

The course expects students to develop proficiency in designing through Illustration, including practical skills in drawing, sketching, and digital illustration techniques using software like Photoshop and Adobe Illustrator. They will learn to create aesthetically compelling design narratives, infographics, and visual communication materials. Hands-on studio sessions, workshops, and assignments are designed to foster these skills, providing opportunities for students to practice, experiment, and refine their illustration techniques.

Knowledge:

Students are expected to gain a deep understanding of how illustrations function as effective design narratives, conveying complex ideas and messages. They will explore design theories related to visual communication, typography, and graphic design, understanding their significance in creating impactful design narratives. The course also covers knowledge areas such as Infographics, Communication Design, and Visual Communication techniques, providing students with a comprehensive understanding of how to apply these concepts in their design projects.

Understanding:

The course cultivates critical thinking and analytical skills, prompting students to analyze and evaluate the effectiveness of illustrations in conveying design concepts. They develop a conceptual understanding of design principles, narrative coherence, and aesthetic appeal, ensuring their illustrations contribute meaningfully to their thesis projects. Through discussions, critiques, and case studies, students gain a deeper understanding of the role of illustration in design narratives and its impact on effective communication in architecture.

Overall, the course aims to equip students with practical skills in illustration, theoretical knowledge of design principles, and a deep understanding of how illustrations contribute to design narratives. This comprehensive approach prepares students to create visually compelling and impactful design narratives that enhance their thesis projects' narrative coherence and aesthetic appeal.

HOW AND TO WHAT EXTENT, THE AIM AND OBJECTIVES ARE ACHIEVED IN ALIGNMENT WITH THE COS. PLEASE EXPLAIN IN DETAILS WRT THE 1. SKILLS 2. KNOWLEDGE 3. UNDERSTANDING DEVELOPED IN STUDENTS 4. APPLICATION

5. CREATIVITY IN 200 TO 400 WORDS.

PLEASE DISCUSS EACH ASSIGNMENT TO EXPLAIN THE SAME WRT ABOVE POINTS AND COS.

The assignments in the ELECTIVE 8 - Illustration as Design Narratives course are strategically designed to achieve specific aims and objectives aligned with Course Outcomes (COs), focusing on developing skills, knowledge, understanding, application, and creativity in students.

Skills Development:

Assignment 1 introduces core visual design principles through exercises in drawing, sketching, and digital illustration techniques. This cultivates proficiency in CO1 (Mastery of Fundamental Illustration Skills) by emphasizing the importance of mastering these skills for creating visually compelling design narratives.

Assignment 2 delves deeper into visual elements and design theories, promoting critical analysis and adaptation of design principles. This reinforces CO2 (Understanding of Effective Design Narratives) and CO3 (Proficiency in Infographics and Visual Communication) by encouraging students to apply graphic elements, typography, and layout design effectively. Knowledge Acquisition:

Each assignment contributes to students' knowledge acquisition by applying principles of design philosophies such as Modernism, Minimalism, and Gestalt Theory. For example, Assignment 3 focuses on transforming 2D to 3D forms, deepening students' understanding of design philosophies and promoting critical analysis of design movements, aligning with CO1 and CO3. Assignment 4 emphasizes 2D to 3D transformation and the application of Gestalt Theory, fostering critical understanding and creative problem-solving skills. This addresses CO1 and CO4 (Application of Illustration in Typography and Graphic Design). Understanding Development:

Assignments encourage students to critically analyze and synthesize design theories in practice. Assignment 4, for instance, fosters critical understanding and creative problem-solving skills by applying Gestalt Theory principles to design compositions, addressing CO1 and CO4. Assignment 5 emphasizes practical application skills by having students create models based on visual compositions, aligning with CO1 and CO3. Application Skills:

Practical application of visual design principles is emphasized in Assignment 5, where students create models based on visual compositions, aligning with CO1 and CO3. Assignment 6 extends this application by exploring spatial and perceptual design principles in exhibition space design, fostering effective communication and rational assessment (CO5). Creativity Enhancement:

Throughout the assignments, students are encouraged to think creatively and integrate diverse design elements. Assignment 6, in particular, focuses on holistic creativity by transforming 2D compositions into immersive exhibition spaces, aligning with CO4 and CO5. In conclusion, each assignment in the course significantly contributes to achieving the aim and objectives. Students develop proficiency in visual design principles, critical thinking, application of design theories, creativity in problem-solving, and effective communication skills, aligning with the Course Outcomes and preparing them for the complexities of architectural design and visual arts.

EXTENT OF ADHERENCE TO THE COURSE PLAN AND SCHEDULE OF SUBMISSION PREPARED BEFORE THE COURSE STARTED. EXPLAIN IN 150 TO 300 WORDS.

In future iterations of the ELECTIVE 8 - Illustration as Design Narratives course, improvements can be made to enhance the learning experience. This includes integrating more hands-on workshops, fostering collaboration among students, incorporating sustainability principles into design narratives, and leveraging technology for virtual learning. These enhancements aim to provide students with a comprehensive understanding of illustration techniques, prepare them for real-world challenges, promote innovation, and facilitate effective learning and assessment.

PROCESS

Which are the innovative approaches adopted in this semester?

This semester in the ELECTIVE 8 - Illustration as Design Narratives course, several innovative approaches were adopted to enhance the learning experience. One such approach was the incorporation of virtual design studios, where students collaborated remotely using advanced design tools and digital platforms. This allowed for real-time feedback, interactive design critiques, and collaborative project work, fostering a dynamic and engaging learning environment despite physical distance. Additionally, guest lectures from industry experts provided valuable insights into current trends, best practices, and professional perspectives, enriching students' understanding and preparing them for the challenges of the design industry. Furthermore, the use of interactive simulations and multimedia content in lectures and assignments added a layer of interactivity and experiential learning, making complex concepts more accessible and engaging for students. Overall, these innovative approaches not only enhanced the quality of education but also prepared students for the digital age and evolving practices in design and illustration.

How and to what extent, the aim and objectives are achieved.

The aim and objectives of the ELECTIVE 8 - Illustration as Design Narratives course were achieved through a comprehensive and multifaceted approach. Firstly, the aim of providing students with the skill and ability to create successful design narratives through illustrations was realized by structuring the course around fundamental illustration skills, understanding effective design narratives, and applying skills in infographics, visual communication, and communication design. Secondly, the objectives were achieved through a combination of theoretical lectures, hands-on workshops, practical assignments, and industry collaborations. Students gained proficiency in using software like Photoshop and Adobe Illustrator, analyzed and evaluated the effectiveness of illustrations, applied skills in various design aspects, and synthesized their learning into content-rich illustrations for their thesis projects. Regular feedback, critique sessions, and assessments ensured that students met the course outcomes and demonstrated a high level of understanding, application, and creativity in their design narratives. Overall, the course effectively aligned its aim and objectives with teaching methodologies, assignments, and assessments, resulting in successful achievement of learning outcomes.

Extent of adherence to the Course Plan and schedule of submission prepared before the course started.

The adherence to the Course Plan and schedule of submission in the ELECTIVE 8 - Illustration as Design Narratives course was commendable, reflecting a well-structured and organized approach to course delivery. The course plan, devised before the course commencement, outlined clear objectives, topics, teaching methodologies, assignments, and submission deadlines. Throughout the semester, students consistently met the schedule of submission, completing and submitting assignments, projects, and presentations within the specified timelines. This adherence

demonstrated students' commitment, discipline, and time management skills, ensuring a smooth progression of learning activities and allowing for timely feedback and assessment. Additionally, faculty members' proactive monitoring and support further facilitated adherence to the course plan, resulting in an effective and successful learning experience for all participants.

Course Plan Submitted v/s completed						
Subject: Allied Design 1			Course Code: 102			
Faculty:	Prof. Tushara Kaliyath					
WEEK	TOPIC TO BE COVERED	ASSIGNMENT	Adhered to the schedule or not	Which COs are aligned to each lecture and assignment		
1	Topic - Introduction – Illustration as design narratives through type, color, and an underlying grid structure		YES	 CO1: Mastery of Fundamental Illustration Skills - Developing proficiency in fundamental illustration skills like typography, color usage, and layout structure. CO2: Understanding of Effective Design Narratives - Exploring how different design elements contribute to effective design narratives, including typography and color choices. CO3: Proficiency in Infographics and Visual Communication - Introducing students to the basics of visual communication and how design elements convey messages effectively. 		
2	Visual Communication – through Expression Type i.e. Typography	Typographic Space and Conventions - Form and proportion of letters/words relate to the practical concerns of selecting and combining typefaces.	YES	CO1: Mastery of Fundamental Illustration Skills - Developing proficiency in typography and understanding its formal elements. CO2: Understanding of Effective Design Narratives - Studying how typography contributes to design narratives and characterizes design expressions. CO4: Application of Illustration in Typography and Graphic Design - Applying typography skills to create visually impactful design narratives.		
3	Visual Communication – Typefaces and their Stories		YES	 CO1: Mastery of Fundamental Illustration Skills - Continuation of developing proficiency in typography and understanding typefaces. CO2: Understanding of Effective Design Narratives - Deepening understanding of how typefaces convey stories and contribute to design narratives. 		

				CO4: Application of Illustration in Typography and Graphic Design - Further application of typography skills in design contexts.
4	Visual Communication – Putting Expression Type to Design Narrative	Typefaces and their Narratives - Tell stories through their association with different concepts, aesthetics, and ideas.	YES	 CO2: Understanding of Effective Design Narratives - Focusing on how typefaces express meaning and contribute to design narratives. CO4: Application of Illustration in Typography and Graphic Design - Applying typefaces creatively in design narratives. CO5: Practical Application of Design Principles in Thesis Projects - Linking typefaces and narratives to thesis project themes for practical application.
5	Visual Communication – Making Meaningful Type	Typographic Poster	YES	CO1: Mastery of Fundamental Illustration Skills - Continuation of developing proficiency in typography and understanding typefaces. CO2: Understanding of Effective Design Narratives - Deepening understanding of how typefaces convey stories and contribute to design narratives. CO4: Application of Illustration in Typography and Graphic Design - Further application of typography skills in design contexts.
6 and 7	Communication Design - Fundamentals of Image making	Image making - Create their own series of images relating to their DD topic, experimenting with formal techniques AND to redesign the images to enhance their ability to communicate an idea through connotation	YES	CO1: Mastery of Fundamental Illustration Skills - Developing proficiency in fundamental illustration skills like typography, color usage, and layout structure. CO2: Understanding of Effective Design Narratives - Exploring how different design elements contribute to effective design narratives, including typography and color choices. CO3: Proficiency in Infographics and Visual Communication - Introducing students to the basics of visual communication and how design elements convey messages effectively.
8	Communication Design - Fundamentals of Shape, Design and Color	Image making - Abstract design from shapes, and use that element to create a repeating pattern design that will fit in the DD theme	YES	CO1: Mastery of Fundamental Illustration Skills - Continuation of developing proficiency in typography and understanding typefaces. CO2: Understanding of Effective Design Narratives - Deepening understanding of how typefaces convey stories and contribute to design narratives. CO4: Application of Illustration in Typography and Graphic

				Design - Further application of
				typography skills in design
				contexts.
9	Communication Design -	Image making - Create own	YES	CO1: Mastery of Fundamental
	Fundamentals of	abstract compositions		Illustration Skills - Continuation
	Composition	according to DD topic that		of developing proficiency in
	I	demonstrate knowledge and		typography and understanding
		control of visual contrast and		typefaces.
		form of a postor		CO2: Understanding of Effective
		form of a poster		Design Narratives - Deepening
				understanding of how typefaces
				convey stories and contribute to
				design narratives.
				CO4: Application of Illustration
				in Typography and Graphic
				Design - Further application of
				typography skills in design
			-	contexts.
10	Illustration and Narratives –	Image making - Choose a	YES	CO1: Mastery of Fundamental
	Image-based Research	Topic/subject based on their		Illustration Skills - Utilizing
		DD topic to research that will		research and investigation skills
		become the basis for their		In Image-based research.
		experiments and designs		CO2: Understanding of Effective
				Design Narratives - Linking
				narrativos
				COE: Practical Application of
				Design Principles in Thesis
				Projects - Applying research
				insights to thesis project
				development.
11	Illustration and Narratives –	Try different modes of	VES	CO1: Mastery of Fundamental
11	Making Percentions	representation and try a	TLS	Illustration Skills - Experimenting
	Making rereptions	hand at creating their own		with different modes of
				representation to convey
		ranges of representation		narratives effectively.
				CO4: Application of Illustration
				in Typography and Graphic
				Design - Applying various
				representation modes in design
				narratives.
				CO5: Practical Application of
				Design Principles in Thesis
				Projects - Exploring diverse
				representation methods for
				thesis project development.
12 to 15	Illustration and Narratives –	Compose simple spreads for	YES	CO1: Mastery of Fundamental
	Composition is Relational	their DD book and panel and		inustration Skills - Continuation
		make spreads using 10-20 of		or developing proficiency in
		their best narratives from		typography and understanding
		their assignments and		core Understanding of Effoctive
		compile them into an 8-10		Design Narratives - Deepening
		pages book.		understanding of how typefaces
				convey stories and contribute to
				design narratives
				CO4: Application of Illustration
1				in Typography and Graphic
1				Design - Further application of
1				typography skills in design
				contexts
16 and 17	Discussion and Pre-Final		VEC	CO1: Mastery of Fundamental
				Illustration Skills - Utilizing

	research and investigation skills
	in image-based research.
	CO2: Understanding of Effective
	Design Narratives - Linking
	research findings to design
	narratives.
	CO5: Practical Application of
	Design Principles in Thesis
	Projects - Applying research
	insights to thesis project
	development.

Structure for the process is detailed as below:

- 1. VISUAL COMMUNICATION
 - i. Typographic Space and Conventions form and proportion of letters/words relate to the practical concerns of selecting and combining typefaces.
 - ii. Typefaces and their Narratives —tell stories—through their association with different concepts, aesthetics, and ideas.
 - iii. Final output was in the form of Typographic Poster
- 2. COMMUNICATION DESIGN
 - i. Image making creating their own series of images relating to their DD topic, experimenting with formal techniques
 - ii. Image making redesigning the images to enhance their ability to communicate an idea through connotation
 - iii. Image making Abstract design from shapes, and use that element to create a repeating pattern design that will fit in the DD theme
 - iv. Image making creating their own abstract compositions according to DD topic that demonstrate knowledge and control of visual contrast and form of a poster

3. ILLUSTRATION AND NARRATIVES

- i. Image making Choosing a Topic/subject based on their DD topic to research that will become the basis for their experiments and designs
- ii. Try different modes of representation, and try a hand at creating their own ranges of representation with images

4. DD BOOK AND PANEL

- i. composing simple spreads for their DD book and panel making spreads using 10-20 of their best narratives from their assignments and compile them into an 8 -10 pages book.
- ii. In the course of the entire semester this elective Illustration as Design Narratives provided a guidance and basis to the DD research and book. The Elective Studio was divided into smaller topics/assignments wherein the students were progressively working towards the main booklet design.

STUDENTs WORK

FINAL BOOKLET

Student - SUDESHNA CHATTERJEE







Student – MUDRA DHURI





Mudra Sonia Sunil Dhori I 2019PA0052



COMMUNITY - Showcasing various activities and culture w.r.t different times





USER - Typologies w.r.t to locations and purposes



LOCATION

15

Student – Kundan N Kirange









Student – SHRAVYA KARUTUR

















M.E.S.

PILLAI COLLEGE OF ARCHITECTURE , New Panvel

COURSE REPORT							
Subject Elective 10 (BIN	Term: ll		AY: 2023-24				
Course Code: BARE 1021	Credits : 4	Semester: X	No of Periods per week : 4		eek : 4		
Total Marks: 100	Internal : 100	External : 0	Theory	/ Paper :	0		

Faculty:	Subject coordinator : Prof. Prashant Borge				
	Team Members: Prof .Neha Deshpande Prof. Prathamesh Deshpande				

Attach Following documents:

Photographs of students work wrt each assignment				
Format 12 - SWD ppt in given format - 2 best works and 4 average works of each assignment				
Students attendance of semester scanned				
Format 3 -Topics Covered format scanned				

INTRODUCTION:

BIM, or Building Information Modeling, is a digital method that facilitates collaboration among architects, engineers, and construction experts to develop precise and intelligent 3D models of buildings and infrastructure. These models are enhanced with extensive data like material details, cost projections, and construction timelines, aiding in informed decision-making throughout a project's lifespan.

Revit stands out as a leading BIM software, offering a robust platform for creating, assessing, and simulating building designs within a virtual realm. It's a crucial tool for both aspiring architects and seasoned professionals, empowering them to craft accurate and intricate building models suitable for design analysis, construction documentation, and project oversight.

Aim:

The course will focus on developing the essential skills required for working with BIM and Revit, including model creation and management, data extraction and analysis. The aim is to equip students with the knowledge and tools necessary to work effectively in a professional environment.

Objectives:-

- To understand the principles and concepts of Building Information Modeling (BIM) and its role in the architecture industry.
- To develop skills in creating accurate, detailed, and intelligent 3D models of buildings using Revit software.
- To learn how to generate construction documentation and collaborate with other stakeholders in the building process using BIM.
- To become proficient in data extraction and analysis for making informed decisions throughout the project's lifecycle.
- To learn about project timeline and costing.
- To develop an understanding of the advantages and limitations of BIM and Revit in architecture and how to apply them to different project scenarios.

PROCESS:

Methods, Tools and techniques used for course conduction.

The course followed a structured approach that combined theoretical concepts, hands-on exercises, and real-world examples to ensure that students had a comprehensive understanding of the subject.

The course began by introducing the students to the concepts of BIM and Revit software. They explained the history of BIM, its advantages over traditional CAD software, and the different BIM software available in the market. The lectures covered the basics of Revit, including the interface, tools, and basic modeling techniques.

The lectures were designed to provide a strong theoretical foundation, hands-on experience with the software, and real-world examples to help students understand how BIM and Revit are used in the industry. The combination of these approaches helped ensure that students had the necessary skills, knowledge, and understanding required for a successful career in architecture.

Innovative approaches adopted in this semester.

Active Learning:

The active learning strategies were incorporated, such as group discussions, case studies, and problem-based learning activities. These approaches helped students apply their knowledge to real-world scenarios, promoting deeper learning and a better understanding of the subject.

Collaborative Assignments:

The instructor included a few collaborative assignments in the course to promote teamwork and collaboration. These assignments required students to work in teams and collaborate on design projects, helping them develop essential project management and communication skills

Approaches used to encourage library usage by students and faculty.

The library provided access to a vast range of online resources, including e-books, journals, databases, and research tools. These resources were available 24/7, and students and faculty could access them

How and to what extent, the aim and objectives are achieved.

The BIM course using Revit had a significant impact on students' thesis projects. By providing students with a comprehensive understanding of BIM software and its application in the architecture industry, the course helped them to develop the necessary skills and knowledge required for successful thesis projects.

One way in which the course helped students in their thesis projects was by providing them with the skills to create complex building models. Revit's modeling tools enabled students to create detailed and intricate models, which could be used to explore design options and test ideas. This allowed students to create more ambitious and innovative designs for their thesis projects, which could then be refined and improved using BIM software.

The course helped students in their thesis projects by providing them with the skills to create construction documentation using BIM software. This enabled students to create accurate and detailed construction documents, which could be used to communicate design intent to contractors and construction teams. This helped to ensure that their thesis projects were constructed accurately and to the desired specifications.

Extent of horizontal and vertical integration achieved.

Thesis project Building construction and services part are to be covered as per technical aspect. Initial digital tools and techniques subject helpful to going into details in BIM.

Extent of adherence to the Course Plan and schedule of submission prepared before the course started.

Adherence to the course plan and schedule of submission was an essential aspect of the BIM course using Revit. The course plan was prepared before the course started and included the topics to be covered in each lecture, the assignments to be completed, and the schedule for submission of assignments. The schedule of submission was designed to ensure that students had enough time to complete each assignment and submit it before the deadline.

The adherence to the course plan and schedule of submission was high throughout the course. Lectures were conducted as per the course plan, and all the topics were covered within the allocated time. The assignments were also completed within the given time frame, and students submitted their assignments on or before the deadline.

To ensure that students adhered to the course plan and schedule of submission, reminders and updates were provided regularly. Students were informed of upcoming assignments, deadlines, and any changes in the course plan through announcements in class. This helped to keep students

on track and ensure that they met the requirements of the course.

In cases where students were unable to meet the deadlines, they were required to submit a request for an extension in advance. The requests were reviewed on a case-by-case basis, and extensions were granted only for genuine reasons.

Explain with the help of each assignment and students work.

Assignment 1: Understanding of BIM model with technical aspects

Assignment 2: Effects of miscellaneous activities on the timeline of the project

Assignment 3: How virtually construct model to avoid the real life clashes on site. Also co working on the model.

Assignment 4: Introduction to LOD and the impact of LOD drawings in the project.

Assignment 5: Timeline of the project, cost of the project, and BIM execution plan. This aspect decides the overall progress of the project. E.g. Thesis project study and trajectory of construction.

Scope for improvement in future (next year).

To take the example of live project with detail LOD. Incorporating more practical examples: Although the course included hands-on assignments, incorporating more practical examples of BIM software's application in real-life construction projects can help students understand its importance in the industry better.

Providing more individualized feedback: While feedback was provided on the assignments, providing more individualized feedback on students' strengths and areas of improvement can help them improve their skills better.

Including more industry experts as guest speakers: Inviting more industry experts as guest speakers can help students gain insights into the latest trends and practices in the industry, and how BIM software is being used in real-world construction projects.

Mention if any guest lectures, site visits or workshops conducted under this subject to increase general or focused understanding of the subject.

Not applicable

Course Plan Submitted v/s completed								
Subject: Elective SEM 10			Course Code : BARE 1021					
Faculty:								
WEEK	TOPIC TO BE COVERED	ASSIGNMENT	Adhered to the schedule or not	Which COs aligned to lecture assignment	are each and			
1	Introduction to BIM	Assignment - 1 – Report on BIM	Yes	CO1				
---	-----------------------------------	---	-----	---------				
2	Waste of Non Value added works	Assignment – 2 - Thesis project (identification of wastage activities)		CO1				
3	Virtual Design and construction	Assignment – 3 Thesis project flow chart of construction		CO5				
4	Level of Detail	Assignment – 4 LOD 300 to 400 fenestration, roof or other exclusive building component detailing.		CO4,CO3				
5	Flow of construction	Assignment – 5 Estimation of time period required for real life construction of thesis project and record of activities for the same.		CO2				

How COs are aligned to each lecture and assignment and assess the outcomes w.r.t the same: (Explain in detail)

Assignment - 1 – Report on BIM (CO2) – Report on Building helps students the nuances of BIM therefore making them understand the basics of BIM. Through BIM, students gain invaluable benefits such as improved collaboration skills by working closely with peers and industry professionals. Additionally, BIM aids in visualizing complex designs and construction processes, fostering creativity and a deeper understanding of the subject matter. The ability to simulate real-world scenarios using BIM further hones students' problem-solving skills, preparing them for challenges in their future careers. Moreover, BIM facilitates data-driven decision-making processes, teaching students to analyze information effectively and make informed choices.

CO2

Assignment - 2 - Identification of wastage activities through BIM (CO1) - BIM enables better planning and optimization of construction workflows. Through simulation and scheduling features, BIM allows project managers to identify potential bottlenecks and optimize resource allocation, thereby reducing downtime and material wastage. Therefore assignment 2 helps in understanding the concept of wastage during construction.

Assignment – 3 - Thesis project flow chart of construction (CO5) – Students had to work upon their own thesis project therefore understanding the flow of construction activities and decide the timeline of the project. This assignment makes them ready for the visualization of their thesis project timeline.

Assignment – 4 - LOD 300 to 400 fenestration, roof or other exclusive building component detailing. (CO4, CO3)- To develop detailed drawings and specifications for fenestration, roofs, or exclusive building components at LOD 300-400.

To understand the technical considerations, material choices, and construction methods relevant to these building elements.

To explore industry standards, best practices, and regulations governing the design and development of fenestration, roofs, or exclusive components.

To enhance your skills in CAD software, BIM tools, and technical documentation for architectural detailing.

Assignment – 5 – (CO2) Estimation of time period required for real life construction of thesis project and record of activities for the same. - This assignment focuses on estimating the construction time required for a thesis project and creating a detailed activity record. Students will define the project scope, develop a Work Breakdown Structure (WBS), identify construction activities, estimate durations, sequence tasks, allocate resources, and create a project schedule using a Gantt chart or similar tool. The submission includes a comprehensive report detailing the time estimation process, activity record, schedule, and reflective analysis on challenges and lessons learned. The assignment aims to enhance students' project management skills, time estimation abilities, and understanding of construction scheduling principles within realistic project constraints.

Attendance Record:

SEM X (FIFTH YEAR) B.ARCH 2023-24 Subject: Computsory Electric = (BIP) Faculty: ______ Paybamesh.

Month : December 2023. Assignment (Topic) : _____Atcndance .

S.No.	Adm. No.	Student Name	ATTENDANCE	NO.OF SHEETS	SUBMISSON DATE	STUDENT'S SIGN	MARKS	RETURNED & RECEIVED STUDENT'S SIGN	RE- SUBMISSION DATE	IMPROVED MARKS	RETURNED		
-			4/12/23	11/12/23	18/12/23	8/01/24	17 01	24 01	3/01/24	28 01 24	6 3 24	13/3	203
1	2019PA0011	AHALE PRASHANSA PRASANNA	P	P	A	'A		A	19	A	A -	4	1.00
2	2019PA0018	ALANGÉKAR SHREYA VUAY	A	ALL	A	夏		A	·P	A	A	3	
3	2019PA0031	BALSARAF PARTH BALIRAM	A	P	·P	A	F	A	. P	A	A	4	
4	2019PA0064	BHALINGE SRUSHTI SUDHIR	P	P	·A	A		A	· P	A	A	4	
5	2019PA0009	BINITHA SUSAN BENCY	A	A	·A	P		≜ P	A	- A	A	3	
6	2019PA0036	CHATTERIEE SUDESHNA INDRANATH	AP.	P	A	P		P	F	A	A	6	
7	2019PA0058	CHAUDHARI SHRUTI SANJAY	A	ALL	P	٨.		A	P	A	A	3	_
8	2019PA0028	CHAVAR SANSKAR JANARDHAN	A	P	A	· A		A	AP	P	ħ	4	
9	2019PA0088	CHOUDHARY BHAVANA MANARAM	A	A	P	- A		P.	A	A	A	2	-
10	2019PA0073	DALVI ATHARV PRAKASH	P	P	P	P	P	P	A	P	1	7	
11	2019PA0020	DALVI GAURI SHIVAJI	P	P	P	A	1	P	F	A	P	7	
12	2019PA0010	DAS SUGĂNDHA	P	A	P	• A		5	A	A	#P	5	
13	2019PAD066	DESHMUKH SUSHMITA ANIL	P	A	書PCL	P		P	P	P	A	6	
14	2019PA0025	DESHPANDE SAKSHI TUSHAR	A	9	A	. A	111	A	A	A	A	2	-
15	2019PA0022	DHOLE SAGAR SANTOSH	A	A	P	P	10	A	P	P	A	5	1
16	2019PA0052	DHURI MUDRA SUNIL	A	. Na	P	• A	110	A	P	A	A	3	
17	2019PA0043	FAISAL SHAH	P	P	·A	· A		A	A	AWP	A	4	
18	2019PA0006	GHARAT MANASI BALIRAM	P	A	.P	·· A		P	P	A	P	6	
19	2019PA0012	HAJARE SALONI RAVINDRA	P	A	·A	P	200	A	P	A		4	
20	2019PA0026	JADHAV ANISHA KRISHNAT	P	A	P	: A		P	P	A	- P.	6	
21	2019PA0044	JADHAV SHARVARI KISHOR	A	P	P	P		A	A	1P.	٩	6	
22	2019PA0078	JAGDALE KIRTI KASHINATH	A	A	P	. P		A	P	r	A	5	
23	2019PA0075	JAISWAR SHAILESH CHHOTELEL	P	A	-A	A	1	A	A	P	P	4	1
24	2019PA0037	KALE HARSHWARDHAN SITARAM	P	P	·A	·· A	P	A	7	P	A	5	
25	2019PA0007	KANDATHIL VAISHNAVI ANIL KUMAR	P	P	4.9	P		AP	A	A	A	6	
26	2019PA0041	KASU FAIZ NISHAR	P.	T	P	. 8		AP.	A	₽.	A	6	

Month :

SEM X (FIFTH YEAR) B.ARCH 2023-24

Subject:

Faculty:

Assignment (Topic) :

5.No.	Adm. No.	Student Name	ATTENDANCE	NO.OF SHEETS	SUBMISSON DATE	STUDENT'S SIGN	MARKS	RETURNED & RECEIVED STUDENT'S SIGN	RE- SUBMISSION DATE	IMPROVED MARKS	RETURNED	
			100	11/12/22			1.1			1		
27	2019PA0057	KHADSE'PRAJAKTA SANJAY	A	ALL	P	- A	1	A	Pr	A	A	3
28	2019PA0032	KIRANGE KUNDAN NITIN	A	P	P	. A.		A	A	P	A	4
29	2019PA0008	LAKSHMI SAI SHRAVYA KARUTURI	P	P	·A	P		A	P	A	A	5
30	2019PA0079	MALI ANJALI ABASAHEB	A	A	P	P		A	AP.	A	A	4
31	2019PA0054	MEHRA SHAGUN SURENDRA	A	P	·A	A .	P	P	A	A	A	3
32	2019PA0065	MEHTA RAHUL DHANESHWAR	P	P	·P	P		A	P	p.	A	7
33	2019PA0051	MOGHE SHUBHAM ASHWIN	P	P	P	P	P	A	P	P	A	7
34	2019PA0076	MORBEKAR SUMIT NARESH	P	P	P	P		A	A	r	AP	7
35	2019PA0021	MORYE-SIDDHANT MILIND	P	P	P	A		P	KP	A	7	6
36	2019PA0024	NALAWADE VIJAYRAJ NIVAS	P	P	X	P	P	P	A	P	A	6
37	2019PA0070	NAMBIAR ABHILASH BALAKRISHNAN	P	A	P	A	1	A	A	A	A	3
38	2019PA0003	NISHAD NUPUR RAJESH	P	P	P	P		P	A	P	P	7
39	2019PA0014	PANCHAL HARSH SUHAS	A	A	A	P	101	A	P	A	A	3
40	2019PA0056	PATEL DARSHAN ASHVIN	P	A	- A	P		A	A	P	P	5
41	2019PA0040	PATIL ARATI PRAKASH	A	A	P	P	His A.	A	A	P	A	A
42	2019PA0017	PATIL MANASI SURENDRA	P	P	P	A	1	P	A	A.	A	5
43	2019PA0059	PATIL SHIVAM DEEPAK	P	A	A	P		P	₽.	P	A	6
44	2019PA0001	PAZHUMALIL VARSHA PRADEEP	P	P	PAL	A		P	BP	P	P	8
45	2019PA0048	PICHIKA LAHIBI RAJU @15	A	A	P	P		P	P	A	A	5
46	2019PA0039	PRASAD SHUBHAM BUAY	A	A	A	A		À	A	r	A	2
47	2019PA0005	PUROHIT ISHA MAHESH	A	A	P	A		A	A	A	A	9
48	2019PA0034	RITIKA RAMESH (Provisional Admission till Declaration of Sem 8 Examination result)	A	A	P	A		4	A	A	A	1
49	2019PA0038	SALWATKAR AVANTI DHARMARAJ	A	P	A	A		A	P	A	A	3
50	2019PA0053	SAMOTA KHUSH RAJENDRA	P	A	A	P		A	A	P	P	5
51	2019PA0015	SATAM KSHITU SANDEEP	P	A	'A·	P	1	A	P	p.	A	5

7

SEM X (FIFTH YEAR) B.ARCH 2023-24

Subject:

Faculty:

1)

Month :

		Student Name	ATTENDANCE	NO.OF SHEETS	SUBMISSON DATE	STUDENT'S SIGN	MARKS	& RECEIVED STUDENT'S SIGN	RE- SUBMISSION DATE	IMPROVED MARKS	BETURNED	
No.	Adm. No.			11/12/13	18 12 23.							
57	2019PA0023	SAWANT AISHWARYA RAVASAHEB	A	P	·A	f	P	A	P	P	A	5
53	2019PA0013	SHAH SRUSHTI URMISH	P	P	·P	A		A	'A	r	F_	6
54	2019PA0080	SHARMA ANIRUDH PAWAN	P	P	٢	AP.		A	AP.	A	TT.	6
55	2019PA0004	SHIBU ASHWIN	A	A	A	A	P	P	A	A	TA	2
56	2019PA0074	SINGH NIDHI SANJAY	A	A	A	P		A	A	R	n	2
57	2019PA0027	SINGH SWATI SANJAY	A	P	P	A		P	音P.	P	A	6
5.9	2019PA0077	SIVASANKARAN SNEHA	A	P	A	P		A	A	P	P.	4
59	2019PA0035	SOMVANSHI NIKHIL GAJANAN	A	P	A	A		K.	R	A	P	2
60	2019PA0060	SURVATEJA MUTTA GURUDATTASAI	P	P	P	P	P	P.	A	1/2 P.	n	7
61	2019PA0046	TAMBE ATHARVA MADHUKAR	A	P-	P	P	P	A	P	P	A	6
62	2019PA0019	THAKUR SAKSHI VIKAS	A	A.	P	r	1	A	P	A	A	4
63	2019PA0016	THAKUR SHREYA	A	A	A.	K		A	hap	Γ	P	4
64	2019PA0002	V S V S VINDHYAVALLI DEVI	A	P	P	P	1	A	A	f	A	5
65	2019840033	VAIDYA ATHARVA RAHUL	P	A	A	P	P	A	r	r	A	5
65	2019PA0050	VALANIU HARSH BAJENDRA	A	P	· P	l.		A	P	A	A	4
67	2018PA0001	NAIR HARITA RAMESH	P	P	P	A		P	A	A	R	5
68	2018FA0041	NANNAWARF ABHIRVA VUAY	A	Å	A.	A		A	P	A	A	2
69	2008PA1300	JEBY JOHN	P	P	P	A	IP	A	r	A	A	5
70	2017PA0063	KONDE KAUSTUBH UDAY	·A	A	A	P		A	P	A	A	3
71	2015PA0043	BAMESH ASHWIN	P	P	A	1	1	A	P	P.	P.	7
77	2018800025	PATKAR AMRITA	P	A	P	P	P	A	F	A	P	6
73	2017PA0106	SHARMA VAISHALI GANPAT (Provisional Admitision till Ceclaration of Semi S Examination result)	A	.P	P	A	1	A	AP.	A.P.	1	.4

Assignment 01:BIM Report

ELECTIVE - BIM SIM REPORT / FIFTH YEAR (SEM 10) / SHRUTI CHAUDHARI / ROLL NO. 07

1. What is Bin? Ans. Building Information Modeling (BM) is a digital approach to design, construct, and manage buildings and infrastructure. It involves creating a detailed? To model that gost beyond generative to incorporate data about collaboration among orgy performance, and more. BM facilitates information and reducing arcos. It is allowing real-time sharing of of a project, supporting designer-ability enables data exchange between different software platforms, and its visualization and improve the three platforms, and its visualization gabilities provide maintenance. BMS interoperability enables data exchange between different software platforms, and its visualization gabilities provide maintenance stifue effectives, reduces errors, and improves the overall management of construction projects.

- 2. How is BM different from convestional methods of construction? Ans. Isuiding information Modeling BMM deviates from conventional construction by offering a claight, data-rich 30 model the facilitares collaboration among project taleholders. Unlike traditional methods relatin to 20 dravings, BMM integrates heingisten information about materials and costs, fostering accuracy and efficiency throughout a project's life(c). This real integrates heingisten information about materials and costs, fostering accuracy and efficiency throughout a project's life(c). This real integrates heingisten at more integrated and iterative construction process, setting it apart from the linear nature of conventional construction approaches.
- 3. What are the different types of Ds used in Bim? Ans. In Building Information Modeling (BM), the term "Ds" typically refers to different dimensions, representing various spects of information according with a building model. The most used dimensions in BM are:
- 3D (Three-Dimensional): This represents the physical geometry and spatial relationships of building components in a three-dimensional digital model.
- ii. 4D (Time or Scheduling). Adding the dimension of time to the 3D model. 4D BIM integrates project scheduling information. It allows stakeholders to

Assignment 01:BIM Report

visualize the construction sequence and timeline, aiding in project planning and coordination.

III. SD (Cost): The fifth dimension incorporates cost-related information into the BIM model. It provides a comprehensive view of project costs by associating cost data with the different components in the model, aiding in accurate cost estimation and budget management.

iv. 6D (Sustainability or Energy Analysis): 6D BIM involves the integration of environmental and sustainability data. It enables analysis of the building's energy performance, environmental impact, and life cycle assessment, supporting sustainable design and construction practices.

v. 7D (Facility Management): The seventh dimension extends BIM into the facility management phase. It includes data relevant to the ongoing operation and maintenance of the building, such as maintenance schedules, equipment information, and facility documentation.

- 4. What software is used in Bim or for Bim? Ans. Several ioftware tools are used in Building Information Modeling (BIM) to create, manage, and analyze digital models. Some of the widely used BIM software include:

ISIM SOTIWATE INCLUDE: Autodesk Revit, AutoCAD Civil 3D, ArchiCAD, Bentley AECOsim Building Designer, Tekla Structures, Navisworks, Trimble SketchUp, Vector Works Architect, Dynamo, Solibri Model Checker

5. What is LOD (Level of Detail)?

What Is LOD (Level of Detail)? Ans. In Building Information Modeling (BIM), the Level of Detail (LOD) refers to a standardiced scale from LOD 100 to LOD 500 that defines the amount of graphical and non-graphical information within BIM elements. This framework helps ensure consistency and communication about the completeness and precision of BIM models at different project stages, guiding the level of detail required for effective collaboration among stakeholders.

DS What is MM?

using into

6. What are the different types of LOD? Ans. The different types of Level of Detail (LOD) in Building Information

BIM ELECTIVE Ghubham Prasal Sector M

IN RECTIVE ASSIGNMENT

Harshwardhan Nale 24

Q1) What is Blivit

Building Information Accelering (BM) is a digital process that involves another and managing a comprehensive 3D madel of a building or infrastructure traject BM start just a price or software built a colobarative coprocen to the design, construction, and managiment of buildings and infrastructure. The key assets of BM in duals

Digital Representation - RNI invalves circating a disidiled algotal inspirestriction the properties and transformation acceleration of a building or infrastructure. This digital model encompasses ID geometry, spatial realisativity, geographic knownation, and additional entities of building components.

2. Solidopations and Coordination - BM facilitates collaboration among alferent issuences in the conductor process, including architect, in ungrease, construction, and leafly immonifier. These allers data to the improved occutination and communication, reducing the likelihood of enais and conflict.

Normation Integration: - BM goes beyond 3D modeling by Megacing varies types of information related to the project. This incluses calcal about interfeeds, easy to identify, performance, and of here sheard blacks. The good is bhave a periodicipacity of Information that can be appeared in about by of inject paragraphics.

4. Ulseycle Management: Bits covers the entire lifecycle of a bottong or infrashrubure project, home conceptualization and design through construction or acceptation to eventual environment or demonitien. The digital model serves as a valuable resource for fability management and

5 Netcoperability - BM protmotes interoperability, allowing different softwo tools and abciptimes to each angle Hirdmatton seamessy. This is caudid for multidiarphicry collaboration in this crichibecture, engine entry, and contruction (AEC) industry.

6. Vsveiltation and simulation - BiM encodes realistic vsualizations of the project, adding in design communication and stakeholder understanding. Additionally, simulations can be performed to analyze aspects like energy

projects. Various organizations and industry bodies have developed BM standards to guide practitioners.

8. Bote-Driven Decision Noting: - The vectify of information stored in uBIM model support care advised decision-making froughout the project Necy his includes accisions related in design modifications care estimates, soluciting and lability management.

9. Regulatory Comptance: - BM can assist in moeting regulatory requirements and standards. Some countries and regions have implemented BM mandates for public projects to plannate efficiency and collaboration.

Bit in transmission to both unders in during in strainty of exclusionation BAN an weap operation in the certainty and sector strainty of exclusionation including case to trappetentiat to improve project outcomes; includes eleter, enhances calculated on, or or opinitary like entities building likelycke. It represents a swith from incalculated 20 darling methods to amount wregnated and elevandors and programs.

G2) How is Bits different than conventional methods of construction? Bix althes significantly from servicing methods of pointracters in its expension is project information; and anticosofilian. Treatiliand conduct contra-mentions of the work on the conversion of larger methods and the service conversion of the methods, where, and mitintegrate follows in contrast, Bix methods to be the Demoles, where, and mitintegrate follows in contrast, Bix methods and a service of the comparison of the contrast of the methods and the Demoles, and a service of the contrast of the methods and the Demoles and the contrast and the contrast of the methods and the Demoles and the contrast and the contrast of the methods and the demoles and the contrast of the contrast of the methods and the contrast of the contrast of the contrast of the methods and the contrast of the contrast of the contrast of the methods and the contrast of the contrast of the contrast of the methods and the contrast of the contrast of the contrast of the methods and the contrast of the contrast of the methods are an experiments of the contrast of the methods are an experiments of the methods are an experiments of the methods are an experiments of the method and the method are an experiments of the method ar Key differences include:

1. Collaboration:

BN promotes collaboration among different stakeholders, such as architects, engineer, confection, and facility manages. It facilitates real-time straing of information, reculping the ikelihood of miscommunication and manoving

BN car acut in fulfilling regulatory requirements and standards, with certain countries conducing BN for public protects to anhance officiency and undersection.

ublek embracied in the architecture, engineering, and combination induces, John in manding project outcomes, inducing errors, enclosinging collaboration, and agrins anding Bespan. It signifies a departure from traditional. ID drating methods income

Q2 How does RM differ from traditional construction

tem convertional contraction measurements often depend or new Traditional construction methods often depend or on leading to inefficiencies, metales, and insulational measurements of the performance of a bandling on anti-nate intervention about materials. BIN others can idevably firms approach to project depend on 2D drawings an understandings to contra to infrastructure or a 30 m generating a thorough signal sepress accessed only prometry, data but also

Les distriction

Collectoration:
 BM envirages collaboration among diverse participants, such as an kitests, engineers, bus in dataty, management and an another and the second and the mean-indexiandings and whatesting second participant oper feasibility.

2. Data Integration - DAM integration DM integrates comprehensive data beyond pur geocetry. It induites information about materials, costs, scheduler, and performance characteristics. This data-driven agenuch readles, better ducume raising throughout the entre Mergan of a project.

constraints a 3D visual representation of the project, oftening a dearm understanding of the sign and nonstraintion process. This ack in detecting cluster and modicity aarly in indusing the

disagen, BM stretches from conceptualization and design through construction all memory or network. The digital model vandorms into a valuable acted for fundaments.

while impects. The goal

unmention of all actuation provided a sense of all actuation provided by comparison of the comparison of the comp construction, and overlaght. The key superior of

Assignment 02 :Revit Revision (High Rise Building)



Assignment 03: Wastage in construction industry

Mudra Sunii Dhuri Electives- BIM Wastage Report INTRODUCTION TYPES AND CONSEQUENCES OF WASTAGE 1. Matural Vanion Manual Manual Monocole and a standard setundo of oversigning particular Setupon to read bards and outry site. This final to exame numerical and setupon to read bards and outry site. This final to exame numerical setupon to read bards and outry site. This final to exame numerical Setupon to read bards and Setupon to read bards Setupontot read bards Setupon totore to read bards Setupon to rea e. Versetyr Page Project Revenue, The project schedule advanced by a soldnessing the countral announced is import on conduction activities. Delays are analysis, and a more announced is import on conduction activities. Delays are analysis, and a more announced in the conduction of the conduction of the conduction of the countral announced in the conduction of the conduction of the countral announced in the countral of the countral of the countral of the countral announced in the countral of the countral excession and increasing the science strategy eventsels, and a new densing chinese is assessed. (a) Indicates Wolfstee Community rays many laser markers have analytical marking interpreting layer markers and data are seemed to a new contributed community protein. (b) Reprinted Community Legisland and an area of layers and the layer and the science of the science and indicate and the science of the science and the science in an area and and the science. Design Weldger. LeakSaw Machinev, Ostawa cewinnyn a wurdunksing skilyllwr anego mannynan. Geneslang de nami ostawi niemeta in mongenficant explanat 6 wordt for anamale nominatio politik i belande kontinen. Twe dage fait proper namene mesterioreni saking to politikat errer: ensulasian be metaman under kongenering weigy-wicken det propiolar anamale. ann al Wartzyk Stange Oniani - Fragami design changes tana residuel is soldtional cass material wartege. A new stable and finalized design plan is recomeny to traverial contract. 杜 给

Contract Disputer task of starty in terretual agreements has led to departure or using francial starts. Over and well-defined contracts with all wateholders are importive. MEASURES TO PROVENT WAITAGE 1. Microil Amougnees: A relative Binnetic Calaborar with representation with provide and produce submassion advanced incurrence. Takeno Sim Register Scheren marchiceses, resolution (b) and register Scheren Register Scheren Scherence Scherence Scherence Scherence Scherence Index biological Scherence Scherence Scherence Index the Register Scherence Scherence Scherence Index the Register Scherence Scherence Scherence Index Scherence Scherence Scherence Index Scherence Scherence Scherence Scherence Index Scherence Scherence Scherence Scherence Index Scherence Scherence Scherence Scherence Scherence Index Scherence Sch

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- 6. Bit Minigenetti I. Carriera meningan desiring poweri al austerio carriergen piera space la Carriera en polici considerito poweri al austerio carriera de la Carriera en polici considerito policita de la autoritaria la autoritaria de la carriera de la autoritaria de la carriera compañía al a policitar a policitar a genera de la carriera de la carriera compañía al a policitar a policitar a para de la considerada el considerada al considerada en al considerada en al considerada en al considerada al considerada en al considerada en al considerada en al considerada al considerada en al considerada en al considerada en al considerada al considerada en al considerada al considerada en al c

BUILDING CONSTRUCTION WASTAGE

When we talk about waste in the cartext of Building Information Modeling (BIM), we're talking about metakes, inefficiencies, or poor management during the modeling and carstruction phases. Here area few particular examples of vtaste in BM-related architectural construction

I Model Mistakes Seemetry Errors In the geemetry of the BIM model might cause miscignments and collisions during construction, recess taining reverse. A Dela Incros Sterces Inscortances in construction can result from deta disprepancies, such as inscortale dimensions or material requirements.

Erroneous or incomplete information Missing Details During the building phase, misunderstandings and rewerk may arise from incomplete or missing information in the BBM model. —Dulidated Information Building on antipuated Dueprints can result in waster if the BBM model, shi tupdated with the most recent modifications.

3.Communication Breakdowns: Foor Collaboration: Misunderstandings and recourses in the BIM model connecult from indequale communication and cultures the menge grace statewished/errs. Levice of Coordination: Daticities and rework may arise from a fasture to operating writes disciplines (architecture, structure, MEP).

4.Ineffective Construction Sequencing: - Poor Phasing: Construction delays and higher expenses might be caused by inaccurate or ineffective sequencing in the BM model. - Logishical Issues: Inefficiencies during construction may result from eDM models failure to account for tegistical elements like material. delivery and set eccess.

Ignoring Sustainability Considerations: - Energy Indificiencies: If energy-efficient design elements in the BIM model are evenloaxed, this might result in higher energy usage and eperating expenses. - Material Selecton: Neglocting environmentally fineally building materials and techniques can need in wester.

Insufficient Experience and Proficiency: - Lack of BIM Proficiency Poor modeling techniques and mistakes can be caused by a tack of training or experience with BIM technologies.

Rework and Redundancy: Design Changes. Rework and waste can result from frequent design modifications that aren't property exclusted for how they affect the BM model. — Badardance Designing, adding information to the BM model, that is saperfuses or excessively detailed can neurit in a waste of the and money.

STUDENTS' WORK

Pillar

Wastage while constructing a sand stone structure in Jaisalmer

Construction operations can result in a variety of weste products, particularly when they involve sandstone structures in areas like Jaisatimer. Cast effectiveness and environmental sustainability depend on controlling and redusing week. The following are some probable waste sources and mitigation taching ase for sandstare structure construction:

Material Waste: Shape and Dat: There might be precess and officus from the shape and culting of sandstone blacks that aren't utilized in the finished building. Mamatched Piece: Certain precis could be rejected because they don't match the standards or because they have. Takwas Dategers for Reduction Precision Catting. To reduce the amount of offouls produced, make use of catting edge tochnologies.



2. Optimized Design: Plan the design to use standard sized blocks efficiently, reducing the need for excessive cutting and straing. I transportation Waste Breakage During Transit: When being transported from the quarry to the construction site, sandshore books on pieces may break or sustain damage. Problems with Rendling. Poer hendling throughout the loading and unleading process might cause waste and breakage. Strategies for Telfastoric Scare Packaging. To reduce breakage during shipmont, use secure packaging and loading techniques. Effoctive Legistics. Arrange transportation routes and logistics in a way that minimizes travel time and distance.



3. Construction Process Waste: Onate Shopping and Culting. If modifications are required while building, on site shaping and culting may nearly in more works. Decondening Placing an excessively large order for materials may result in surplus that is not initized. Strategies for Reduction: Prelabilitation: To minimize on-site cutting and shaping, prefabricate comparent offste. Ordering Accurately: To prevent excendening, use precedent stimates and ordering techniques. 3. Construction Process Waste:

Repart, Westerges in Construction

Westage in a building construction project released free inefficient use of loss of malerais, resources time, and reason, Several types of wantages are some daring the different phases of anothermitian.

 Gutting and Tremming Lesson investments measurements or ingenesise withing of material es-ment to weakage.
 Socilage and Theologie: Demagnid or upstied materials during handling. For constraints, or ming (Assas-Figariantila-masterianantishe interveniar withing of malacitic ran

Stratege:
 Overestign: Ordering movematies all than uccessary, leading to assess meeting or unused term.

Charge: Inderection aware, weather confidence, or constraints a state that load imposited
mining:
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· Adapting feature; indexes of ensurements provide that the set odd value to the protect.
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Ordest Diversity: Non-Brownia (parming or interpreted to population of exactly be advanted backgat,
 Interfactive Cast Controls sale of effective manifuring and scottania over project representatives

II. Studnar Mogne

)) Material Mantage:

1) Time Waitage

Si faragy Wartuge:

4) Design Viastage:

Si Reportal Worksgor

Modelling

Contraction of the second

AY 2023-24_YEAR V_SEM X_ELECTIVE



Compulsory Electives: Building Information and

valer usage: Water is a resource that is frequently utilized in the sheping and cutting processes, and using too much of it can be vesteful. Strategies to Raduction Water Recycling. To reportpose water while cutting, install water recycling systems.Effective Cutting, Nethods: Make use of water-saving instruments and cutting methods.

5. Energy Consemption: *Wachnery Operation: The operation of heavy machinery for cutting and advanta on contribute to energy westage. *Transportation Fuel. The fuel used for transporting materials to the construction site.

Reduction Strat

Modelling

Energy-Efficient Machinery: Invest in energy-efficient cutting machinery.
 Locat Sourcing: Source materials locally to reduce transportation distances.

o. construction Debris: -Demoiltion Waste. In cases where existing structures are being modified or replaced, demoiltion vaste can contribute to evenit construction vastage. *Reduction Strategies*. -Demoiltion Regyling: Implement strategies to recycle and repurpees materials from demoilshed structures. -Selective Bernoliton: Conduct selective demoilt on to salvage reusable components.

PILLAI COLLEGE OF ARCHITECTURE

STUDENTS' WORK

filler

Compulsory Electives: Building Information and

AY 2023-24 YEAR V SEM X ELECTIVE



Assignment 03: Wastage in construction industry

20	Steerconsinction	a revenuent and Compaction: Euring the placement and compaction of concertin, poor
teport : Wastage in construction	Cutting and Febrication:	werumanship contestit is the weet to additional conteste to meet design requiriments. This may
	A second se	The necessity for additional concretering in white or improprint partment caving inconciliences.
hravra k - 29	Errors in cutting and fabrication can reset to the provident of a second structure of the second sec	wattage
	tao large of too small, contributing to motions.	
he main types of construction waits for construction include:	The second second biased in the	5. Curing: Adequate caring is crecial for achieving the desired strength and durability of concrete.
	131201 HUMIN ALANA	shadequale curing practices, such as insufficient molitaria or improper temperature (control, can
emplition and Deconstruction Waite:	tenomore handing and transportation practices can lead to damage and deformation of steel	1902 to a extension in concrete sciently and quarty subsequently, the need of anti-
laterials resulting from the removal of existing structures, such as concrete, bricks, wood, and	components, rendering them shurable.	
rrcal.	Non-Manager	6.Rebar Cutting and Banding: The cutting and bending of reinforcement bars are critical precesses in
eraustion and Site Development Walte-	Overondering:	RCC construction. Inaccuracies in these activities can result in wastage, as improperly out or bent
al, rocks, and other materials excevated during site preparation and arading.	Oreigning an expective muntility of store can lead to wastage, as surglus materials may not find use	bars may not hit correctly during construction. This can lead to the rejection of such materials.
	is the construction preject.	rendering sources in reputer to reputering and contributing to over an insteam enough
ullding Materials Waste:		7. Construction Errors: Mistakes in construction, such as misalgoment, improper joint detailing, or
and the state of t	Detign Changes:	incorrect placement of structural elements, may necessitate rework. Rework involves the nemoval
cress or wrusted manenials from construction activities, including lumber, bricks, construct,	the read to dispat provide in the read to dispat provide in the	and replacement of materials, leading to increased waitage of both time and construction
novement, rotering materials, elc.	Modifications or changes in project spectrications may reducin the reserves of the	resources.
schaeline Wasto:	febricated store components.	Wass to recharge waiting
	Convertine Errors	risk to rate through
ackaging materials, such as cardboard, plastic, and wood packaging, used to transport and		To minimize wastage in both reinforced cement concrete (RCC) and steel constructions, a holistic
rotect construction materials	Mistakes during the construction phase, such as welding errors or missignments, may lead to use	and strategic approach must be adopted throughout the project lineyde. In RCC construction,
and the second se	rejection of stad components and contribute to wastage.	accurate planning and design play a pivotal role in reducing the need for modifications and charge
azartious wade		during construction, thereby curbing material wastage. Procise mix proportioning and optimization of formulat during and use the officiant interaction materials materials and unprocesses
Saterials containing substances barming to human health or the engineement, such as lead-	Roc construction	concrete usage, implementing efficient construction practices, such as proper reber outling and
ased paint, asbestos, solvents, and certain chemicals.		bending techniques, rigorous quality centrol, and affective communication among project
	1. Concrete Mix Proportioning in the construction of Reinforced Company Concrete structures, the	stakeholders, can further prevent errors that lead to rework and additional material consumption.
lambing and Piping Waste:	accurate proportioning of conciene mix components is crucial. Deviations in the mix proportions.	Embracing environmentally friendly practices, including the use of recyclod aggregators, contributes
and a second of the second	such as improper ratios of comant, aggregates, and water, can lead to inclinicent, substantial of	to sustainability in NUL construction.
Vaste generated from the installation, repar, or replacement or plumoing and proving systems.	materials, resulting in waitage. This can impact the overall quality and surveyor of the control of	
and Clearing Waste:	affecting the structural integrity of the contraction project	Similarly, insteel construction, accurate project estimations and precision in cutting and fabrication
	a formunde Exemunity serves as the mold for shaping concrete during construction. Inadequate	are crucial to avoid overordering and material wastage. Implementing optimal transportation and
egetative debsis, such as trees, branches, and stumps, resulting from land clearing activities.	or improceedly designed formwork can lead to the seed for additional concrete, contributing to	handling practices helps prevent damage to steel components during transit, minimizing the need
an a san anna a sharan a san a s	wostage. This situation arises when the formwork laits to gropping contain the concrete or if there	for replacements. Efficient design management and adaptability to design changes, facilitated by
Associaneous Construction Waster	are errors in its design, accessitating more concrete than initially planned. Proper formwork	fabricated and comparent. Emphasizing high sufficient different content of the process in
where other materials like adhesives, coalable, palet, and other construction inhand	design and installation are estential to minimize wastage in this aspect of NLL construction.	essential to wold errors that may result is the rejection of steel components. Additionally explore
hanicale.	the second se	opportunities for reusing steel components and establishing recycling processes for scraps and
	s divelopering of Materials Ordering exects operative in RCC construction. Overordering often	offests contribute to a more sustainable and resource efficient construction approach. Overall, a
-	occurs due to uncertainties in project requirements or overly conservative estimations. The	combination of accurate planning, advanced technologies, quality control, and sustainability
	surplus materials may not be utilized in the construction project, leading to unnecessary weitage	measures is key to successfully minimizing wastage in both RCC and steel constructions.
	and increased costs.	1 NHZ
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Granne K-ult Dave Friender	Exception of the Exception	Complete D
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		And a second

	PILLAI COLLEGE OF A	M.E.S. RCHITECTURE , New	<i>ı</i> Panvel	
	COUI	RSE REPORT		
Subject: Compulsory Techniques)	Electives -2 (Geospatial	Term: : 1 st Year N	1.Arch	AY: 2023-2024
Course Code: MUDE102	Credits: 2	Semester: 1	No of F	Periods per week : 1
Total Marks:	Internal : 50	External :	Theory	Paper :

Faculty:	Subject coordinator : Prof. Dr. Priam Pillai
	Team Members: Prof. Prathamesh Deshpande

Introduction

Geospatial Techniques operates as an elective to create linkages between unreferenced data which is observed and created by students with the cardinal systems of earth with the help of software called QGIS. QGIS is an open source software majorly used for geospatial analysis. Induction to QGIS is extremely necessary for Urban Design Students as it incorporates methods and tools of mapping the data that is required for analysis and processing.

Methodology

Aim: The elective aims to identify techniques of basic database management at a level that extends somewhat beyond the basic thematic mapping and data generation skills on a geospatial level of understanding with the help of QGIS.

Objectives:-

- 1. Presentation and case studies which introduced students to existing database, thus introduced students to QGIS on a broader scale and relevantly teach them about the practical applications.
- 2. Existing QGIS shape files and database is used for referencing and teaching toolsets for the students.
- 3. Horizontal Integration of QGIS to increase application of QGIS in various knowledge sets.

The following subject will be integrated with the current subject course:

1. Landscape Design and Urban Ecology

Students generated contour data for the respective site. Georeferencing various map sets for analysis and understanding.

2. Urban Design Studio I

Students created vector data and noted down the observations with the help of qgis and site visits. The students integrated that data in order to produce the output for analysis of the Urban Design studio Site.

	Course F	Plan Submitted v/s com	pleted	
Subject: Com	pulsory Electives -2 (Geospati	ial Techniques)	Course Code MUDE	102
Faculty:			•	
WEEK	TOPIC TO BE COVERED	ASSIGNMENT	Adhered to the schedule or not	Which COs are aligned to each lecture and assignment
14 th October 2023	Introduction of the software, Commands, Interface, Significance of Qgis and its uses	Working studio for getting used to the interface and the software	Yes	CO1
21 st October 2023	Introduction to vector tools, vectorization of data, polygons, fields, point, and shape files.	Vector mapping exercise	Yes	CO4
26 th October 2023	Extraction of Contours and DEM data.	Contour Extraction for Urban Landscape and Ecology Studio.	Early covered Term Plan Schedule: 28 th October 2023	CO3, C05
26 th October 2023	Introduction to Print layout , Introduction to Raster Images, Georeferencer, Field Classifications	Region Analysis and DP analysis. (Khopta Town)	Yes	CO2
4 th Nov. and 11 th November	Class cancelled	Class cancelled	Class cancelled	Class cancelled
25 th Nov.	Progressive Discussions and Working studio	Progressive review and updates.	Yes	CO5
29 th Nov.	Review Meeting and Final Marking	Final Review and Discussion	Yes	CO5

How CO s are aligned to each lecture and assignment and assess the outcomes wrt the same: (Explain in detail)

CO1-Students identify the basic concepts, interface and terminologies of QGIS thus enhancing smooth navigation through the software while working.

14th October 2023 – Alignment – Students get the basic idea of the software and its interface.

CO2-Students learn and apply tools required for **vector data mapping** for various coursework. 21st October 2023 – Alignment – Students learn to draw vector data on the software interface and therefore understand different layers and its attributes.

CO3- Students acquired knowledge of the tools required for **Raster data** mapping for various coursework related assignments.

26th October 2023 - Contour Extraction **for Urban Landscape and Ecology Studio** has been conducted as a part of **Horizontal Integration**.

CO4- Students should integrate multiple data sets and georeference the data on the software interface thus making it ready for analysis.

26th October 2023- Introduction to Print layout, Introduction to Raster Images, Georeferencer , Field Classifications

CO5- Students should create and **assimilate map sets and other datasets** related to various horizontal integration subjects with the help of QGIS.

26th October 2023- Region Analysis and DP analysis. (Khopta Town)

Assignment based student work documentation:

ELECTIVE ASSIGNMENT 1



MAP OF PANVEL LAKE AREA

PILLAI COLLEGE OF ARCHITECTURE POONAM GAWDE M.ARCH-SEMESTER 1



Assignment 01 Work 03:



Assignment 02 : Work 01

Assignment 02 : Work 02

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STUDY AND ANALYSIS OF VILLEGE NEAR KARNALA



GIS SEM_1 M.ARCH

Assignment 02: Work 03

	ATTR	IBUTE TABLES - SL TONAL PARK, FOR	IRVEY NUMBER A	ND PLOT	REA , ROAD, BU	FFER/OIZ,
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M.Arch (Urban Design) 2023-24

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Subject: GIS Elective

Semester: 1

Instructor: Dr. Priam Pillai, Prof. Prathamesh.

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Topic Covered Sheet scanned:

2023-2024

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ublect:		Professor/s	Prothamesh I	4. D. 🙀	N)
Date	Topics Covered In Lecture	Assignment introduced	Assignment Submitted	Students' S	ignature
4 th	Introduction to GIS, GIS Interface, commands, user panel etc. Uses of GIS, significance,			the -	Fride
21 ^{s†}	inhoduction to vector tools, vectorization of data, polygons, fuilds, point, shape files.	Vector Mapping		the second	ligne
26 th	Extraction of contours, and petri data.	-	Submitted aggs. 01	the second	the start
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M.E.S.										
PILLAI COLLEGE OF ARCHITECTURE , New Panvel										
	COURS	E REPORT								
Subject : ELECTIVE (Mapping & Representations)		Term: I		AY: 2023-24						
Course Code: MUDE102	Credits : 2	Semester: 1	1 No of Periods per week		eek : 2					
Total Marks:	Internal : 100	External :00	Theory	v Paper :00						

Faculty:	Subject coordinator : Prof.Harshada Katkar
	Team Members: Prof.Harshada Katkar

INTRODUCTION:

Maps and representations are essential tools for understanding spatial relationships, patterns, and phenomena in cities. Mapping enable the visualization of complex data sets, making information more accessible and comprehensible for analysis. Effective maps and representations facilitate communication between stakeholders, experts, and the public more effective. This elective will train students for the mapping and representation skills.

Methodology (All the following points must be addressed in ALL subjects)

Aim: The aim of the elective is to provide students with the knowledge and skills necessary to analyze urban spaces for tangible and intangible parameters. **Objectives:**-

- To analyze various urban contexts, including historical, cultural, economic, and environmental factors.
- To learn methods for spatial analysis to identify patterns, problems, and opportunities within urban areas.
- Develop effective communication skills through visual presentations, written reports, and verbal discourse.
- Acquire skills in conducting comprehensive site analysis using spatial data to identify opportunities, constraints, and spatial relationships relevant to urban design projects.
- Cultivate critical thinking skills to evaluate complex urban issues and propose innovative solutions.

PROCESS:

Techniques for analyzing urban contexts, including site visits, surveys, and archival research would be

introduces to students and innovative ways are developed for urban design analysis.

	Course Pl	an Submitted v/s complete	ed		
Subject: Ele	ective (Mapping & Representati	Course Code : MUDE102			
Faculty: Pro	of. Harshada Katkar				
WEEK	TOPIC COVERED	ASSIGNMENT	Adhered to the schedule or not	Which COs are aligned to each lecture and assignment	
1	Site visit at Ballard Estate	Site visit video	Yes	CO 1	
2	Urban Design Mapping	-	Yes	CO 2	
3	Spatial Analysis Techniques	-	Yes	CO 2 & 3	
4	Mapping Urban Morphology	-	Yes	CO 3 & 4	
5	Site Analysis and surveys	-	Yes	CO 1	
6	Discussions and review	-	No	CO 4 & 5	
7	Overlay Analysis	Assignment 1	Yes	CO 4 & 5	
8	Analyze urban environments and identify patterns	-	Yes	CO 3 & 5	
9	Appropriate framework for Urban Design Issues	-	Yes	CO 5	
10	Communication skills	-	Yes	CO 3	
11	Discussions and review	-	No	-	
12	Analysis techniques and finding opportunities and challenges	Assignment 2	Yes	CO 3 & 5	
13	Review	-	No	-	

This subject is planned in such way that it supplements Urban Design studio, which is why sequence of topics was interchanged according to the studio progress whenever necessary.

NORTH

STUDENTS WORK





BALLARD ESTATI MUMBAI

HISTORY AND EVOLUTION OF MUMBAI Chronology

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III



Reclaimation and Infrastructural Evolution Of the Island City Mumbai.



HOTOGRAPHS SHOWING THE HINDRANCE IN THE VISUAL QUALITY DUE TO THE PARKING AREAS AND ENCROACHMENTS IN AND AROUND BALLARD ESTATE.

M.E.S.

PILLAI COLLEGE OF ARCHITECTURE , New Panvel

COURSE REPORT

Subject: Theory and Me	thods of Urban Design	Term: II	AY: 2023-24							
Course Code: MUDE202	Credits : 2	Semester: II	No of Periods per week : 02							
Total Marks: 100 Internal : 100		External : - N. A.	Theory Paper : N.A.							

Faculty:	Subject coordinator : Prof. Harshada Katkar
	Team Members: Prof. Snehal Ghag

INTRODUCTION:

Urban Design theories are critical while developing understanding about cities and its complexities. Various tangible, intangible layers in the cities and its intricacies need to be analyzed through various methodologies dependent on context, temporal factor and user. These intricacies can be expanded through methodological understanding of the theories and further finding out the lacunas between reality and utopia. Here, 'utopia' is term largely referred for the theories originated in different timeline. So, the focus of this course would expand the spectrum of theories relates to present urban issues, gradually land in to an urban design project and will be playing vital role in providing insights into Urban Design theories and ground realities which motivate students to evolve in methodical solutions.

Methodology

Aim:

To evolve theoretical background for developing systematic relationship between the mapping of city and specific intervention strategies for it.

Objectives:-

- To evaluate spectrum of theories with respect to Urban Issues present in cities.
- To evolve theoretical understanding of various multidisciplinary theories for all types of Urban Design Issues in city.
- To establish relevance between theories related to birth, growth, death and intervention theories.
- To train students for developing strategic theoretical knowledge which is directly applicable in urban design project.

PROCESS:

Evolution of framework for study of theories related to Urban Design and City Planning.

Framework would be formulated thorough understanding of comparative theories and parameters. Reading and analyzing theories is crucial part of this course.

Application of theories to cities needs to be formulated through detailed valuation of parameters.

Tools and techniques used for course conduction

Presentations, debates, discussions, site visits and case studies, application framework and toolkit.

Innovative approaches adopted in this semester

Theory of Urban form elective conducted with an integration of interdisciplinary perspectives from various domains such as sociology, economics, ecology and environment as parallels to urban design. And also student's learnt why to study these domains and their role of shaping an urban form.

Encouragement for library usage by students

To encourage library usage, the faculties conducted library orientation sessions by incorporating library resources in the assignments.

Horizontal Integration approach with other subjects in the semester:-

This course would be providing theoretical base for Urban Design studio project in mapping, analyzing, evaluating and providing design solution.

Adherence to the Course Plan and schedule of submission

Adherence to the Course Plan and schedule of submission is significant from smooth and effective progression of the course. To ensure that the faculty team initiated planning before the start of semester and maintained regular communication with the students for clearing their doubts. The flexibility was maintained throughout the course as per the topic grasping by the students and regular discussions helped to be on schedule.

Expected outcomes in terms of students understanding and skills:-

Analytical Understanding for Urban theories Application of theories in practice, in mapping and design. Evaluation of Urban Areas on basis of theoretical framework

Scope for improvement in future:-

We realized during the course, the pool of theories help students to have exposure to various concepts and theories. And hence students can narrow down the area of interests to deal with Urban design thesis. So, in the next course we will go deep down and dissect the theories.

Guest lectures, site visits or workshops conducted under this subject to increase general or focused understanding of the subject:-

In this semester three workshops conducted out of which two were relevant to boost writing, analytical, representation skills which encouraged reading and an extension to the theory of urban form and UD studio.

Course Plan Submitted v/s completed											
Subject: Co	Subject: Compulsory elective- Theory and Methods of Urban Design Course Code: MUDE 202										
Faculty:											
WEEK	WEEK TOPIC TO BE COVERED ASSIGNMENT Adhered to the schedule or not										
1	Introduction:- Terminologies in urban design Nature and scope of urban design and the role of theories in UD	Terminologies and theories in urban design	Yes	CO 1							
2	Discussion session	-	-	-							
3	Imageability and Mapping in Urban Design	Urban design theories and projects	Yes	CO1, CO2							
4	Urban design theories and various lenses	-	Yes	CO2 & CO4							
5	Discussion session	-	-	-							
6	Urban Design principles and parameters	Environmental theories	Yes	CO 3 & CO 5							
7	Interventions methods	-	Yes	CO2 & CO 3							
8	Evolution of cities	Urban Planning and Economic theories	Yes	CO 3 & CO5							
9	Cities evolve through historic significance	Social and cultural Theories	Yes	CO 1 & CO3							
10	Analytical framework derivation through theories	_	Yes	CO2 & CO 3							
11	UD surveys and analysis tools	-	Yes	CO 2 &CO 4							

How COs are aligned to each lecture and assignment and assess the outcomes wrt the same: (Explain in detail)

Course outcomes (COs) are typically aligned with the broader goals and objectives of a course. Each CO may encompass several learning objectives. Assessments such as exams, projects, papers, and presentations are designed to measure whether students have achieved the intended COs.

Attendance and topics covered

S.No.	Adm. No.	Student Name	05- 12-23	NO.OF SHEETS	SUBMISSON DATE	STUDENT'S SIGN	MARKS	RETURNED & RECEIVED STUDENT'S 305151424	RE- SUBMISSION DATE 06-02-2-4	IMPROVED MARKS	DATE	12-03-27	26.03
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Format 2

PILLAI COLLEGE OF ARCHITECTURE, NEW PANVEL

ubject:	THEORY & METHODS FOR URBAN DESIGN	Professor/s			
Date	Topics Covered in Lecture	Assignment introduced	Assignment Submitted	Students'	Signature
05-12	Terminologies in Urban design Nature & Scope of Urban Design			Republi	KT. Home
11.02	Discussion on submissions			Abutchen	sprint
02001	Discussion on submission 4 Imageability & Mapping in Urban Design			muleka	Figuede
16.01	Urban Design Theories for Various parameters			France	Anulaka
23.01				Frances	Toululas
30.01	UD Principals & Discussion			Abulalians	France
06.02	Intervention methods & the supporting			Rande	Pt
05 03	Evolution of Oitig	•		Inilitias	Rand
05.03	Citty evolved through Historic			(popor	Roude
12:03	Analytical framework derivation through			Figure	Wager
26:03	UD Surveys & Analysis tools			Rafor.	Joulus

IMAGES OF STUDENTS WORK (EACH ASSIGNMENT) TO EXPLAIN THE ACHIEVEMENTS TO BE COMPOSED BY IN-CHARGES IN THE PPT - FORMAT 12.

Assignment 1: Terminologies and theories in urban design Urban Design theories/ concepts



Adaptive Reuse

New use old buildings

 Project : San Francisco's Ferry Building – renewal of Neglected and empty building and opening it for the public. (introduction of Transportation hub, offices, food hall)



Urban Renewal Also known as Regeneration (U.K.) or Redevelopment (U.S.)

It involves recreating the urban fabric based on morphological and functional improvements after demolishing the existing buildings. Project Jawaharlal Nehru National Urban Renewal Mission (JNNURM), West Beng



Remediation

Fro correct present situation
Project : Bhalswa Environmental Remediation. -Supplementary Drain
Inderlok, Proposed Vegetation – Delhi



Redesign

To design in a different way regarding to the present situation. LCC Skylines 2018 – Millennium Square



Revive

Revival literally means "come back to life.
 Historic Kingston Waterfront Revival, New Yorl



Rehabilitation

 Urban rehabilitation is the process of rebuilding or constructing buildings that previously provided housing, including demolitions, extensions, and construction.
 Urban Rehabilitation Areas in the parish of Machico, Portugal



Recovery

Getting back something or to get back to good health (in terms of urban design)
 Najafgarh Lake Recovery

- Yogini Mulekar

Assignment 2: Environmental theories

SUSTAINABLE URBANISM

Sustainable Urbanism promotes environmentally friendly urban development with an emphasis on green spaces, renewable energy, and reduced carbon emissions. Reducing pollution, such as air, water, and sound, is important to maintain the quality of life.

Example: The Suzlon One Earth Campus in Pune is an eco-friendly corporate campus that incorporates various sustainable features. It includes passive cooling techniques, rainwater harvesting, solar energy utilization, green rooftops, and extensive landscaping.



NEW URBANISM

A movement popularized by Andrés Duany centred on organized building blocks with livable streets and housing options for people of all income groups. Walking distance to civic amenities, all streets connecting to form a network, and prominent public spaces are some of the characteristics of Urban Movement. **Example:** Bhartiya City in Bengaluru incorporates New Urbanism principles by integrating residential areas with commercial spaces, parks, and community amenities. This integration fosters a sense of community and promotes a pedestrian-friendly environment.



Image Credits: bettercities.net

- POONAM GAWDE

Assignment 03: Urban Planning Theories

8. Bid Rent Theory: different land uses have different spatial requirements and are willing to pay different amounts for land depending on its location and accessibility. For example, a high-density residential development may be willing to pay more for land in a central location with good access to transportation and amenities, while a low-density residential development may be willing to pay less for land in a less accessible location.



10.Geddesian triad : the concept of region and gave power to human life more than anything, His values lied on emphasizing human life and energy than to beautify them.

"Work, Place, Folk" and gave a theory of urban planning. Giving importance to local surveys and human centric designs, depending on an inhabitant's workstyle, their culture, heritage, beliefs, the region's topography, climatic changes, networks and everything, the geddian trio concept came into existence.

PLACE	PLACE WORK	PLACE FOLK
WORK PLACE	WORK	WORK FOLK
FOLK PLACE	FOLK WORK	FOLK

9. Nebourhood unit concept : The neighborhood unit theory was an initiative to bring everything in a single unit. Catering to the need of a single family on the basis of six factors:

- A child can reach to school without crossing a street traffic
- Each and every dwelling has access to centrally located elementary school, and doesn't exceed the distance more than one and a half mile
- A departmental store to be located on a walking distance from a house.
- Workplace to have convenient transportation.
- 10% of a single unit should have greens with parks and playgrounds.
- 6. The infrastructure should cater to the needs.



-Kunal More

Assignment 04: Economic Theories





CENTRAL PLACE THEORY

The Central Place Theory is a framework for understanding the spatial distribution of cities and the factors that influence the location and size of urban centers. **Developed by German geographer Walter Christaller in the 1930s**, the theory proposes that cities are organized in a hierarchical pattern, with larger cities serving as centers for the surrounding smaller towns and villages.

According to the Central Place Theory, the size and location of a city is determined by its "market area," or the geographical region it serves as a center for goods and services. Larger cities are thought to have larger market areas and to serve a greater number of smaller settlements, while smaller cities are thought to have smaller market areas and to serve a smaller number of settlements.



BID RENT THEORY

The theory of Bid Rent, developed by American economist William Alonso in the 1960s, is a framework for understanding the factors that influence the use and value of land in urban areas. According to the theory, the value of land is determined by the "bid rent" that different land uses are willing to pay for it. The concept of bid rent is based on the idea that different land uses have different spatial requirements and are willing to pay different amounts for land depending on its location and accessibility. For example, a high-density residential development may be willing to pay more for land in a central location with good access to transportation and amenities, while a low-density residential development may be willing to pay less for land in a less accessible location



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Threshold Ranne

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Range

The theory of Range and Threshold, developed by American geographers Brian Berry and Ronald Garrison in the 1960s and 1970s, is a framework for understanding the spatial structure of cities and the processes that shape urban growth and development. The theory of Range and Threshold is based on the idea that cities are not static, but rather dynamic and constantly evolving. As cities grow and change over time, new ranges and thresholds are created, while others disappear or shift. The theory suggests that the location and configuration of ranges and thresholds are influenced by a range of social, economic, and physical factors, including transportation networks, land values, and cultural and demographic patterns and it provides a valuable tool for planners and policy makers working to shape the future of our cities.

Assignment 05: Social and Cultural Theories

URBAN DESIGN- SOCIAL AND CULTURAL THEORIES



URBAN DESIGN- SOCIAL AND CULTURAL THEORIES



- POONAM GAWDE

Assignment 06: A combined report of all the assignments above

M.E.S.

PILLAI COLLEGE OF ARCHITECTURE , New Panvel

COURSE REPORT											
Subject : Urban and Architectural Conservation		Session : 2023-20)24	Year: 1 st Year							
Course code: Credits: 2 MUDE 201		Semester : II	No of F	Periods per we	ek: 1						
Examinatio	Sessional Marks - Theory Paper - NA	Interna Externa Theory	al : 100 al Jury : NA ^y Paper : NA	Total Marks 100							

Faculty	Subject coordinator : Prof. Sasmit Acharekar
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Course Aim and objective :

Background: -

Our cities are layered with historic built and unbuilt environments, often complexly interwoven within new urban growth. Their values, meaning and inherent significance of heritage is constantly changing with respect to its changing context. The challenges of urban conservation, therefore, lies within the understanding of the inherent meaning of heritage in the built environment. Within the Indian context, centuries of inherited histories have left behind with us an onus of preservation, conservation and challenges of interpreting the meaning of the old with the new. The practice of urban conservation therefore is centered around interpreting the embedded socio-cultural values of historical significance in urban heritage via sensitive approaches of conservation practices.

Aim:-

The course aims to provide a conceptual overview of the practice of urban conservation through various theoretical positions and practical applications. The course aims to allow for the development of independent, critical thinking and ethical positions, and to develop a sensitive lens in evaluating heritage.

Course Objectives:-

1. To provide a conceptual understanding of values of urban heritage, ethics and definitions

- 2. To provide an overview of the structure of urban conservation organizations, their roles and objectives.
- 3. To provide a theoretical framework demonstrated within an existing site context.

Process:-

Students were introduced to the fundamental of understanding heritage conservation as a discipline. Theory session covered topic related Heritage charters, value classification and grading. Topics related to process of evaluation of heritage sites. Classification and proposals for world heritage sites, various government and non-government bodies working towards awareness and protection of urban heritage in India.

The course follows a discussion-based lecture within thematic sessions, where contemporary urban issues are evaluated through the lens of various theoretical approaches. The learning of theory session were integrated with the UD Studio site to further the site-based activity and community analysis to interpret the heritage built environment.

Course Outcome.

- 1- Students will be able to Understand and review existing policy framework and fundamental of heritage asset identification methods for Conservation in India.
- 2- Students will Learn and analyze policy framework and conservation approached over the world.
- 1. Students will Analyze and evaluate potential heritage assets in Area / town / region identified in Urban Design Studio. Mapping and documenting heritage values, delineation of heritage precincts, socio-cultural values.
- 3- Students will propose list of heritage assets and guidelines for Identified assets in study area.
- 4- Study and analyze Charter of conservation.

Suggested Reading Books/ Links/Research Journals		
S.No.	Name of the reference	
1	Architectural Conservation: Principles and Practice by Aylin Orbasli	
2	Historic Cities: Issues in Urban Conservation	
3	Conservation of Historic Buildings By Bernard Fielden	
4	Heritage and environment by Shyam Chainani	
5	English Heritage: https://www.english-heritage.org.uk/learn/conservation/buildings- conservation/	
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6	Handbook of Conservation of Heritage Buildings:	
	https://cpwd.gov.in/Publication/ConservationHertbuildings.pdf	
7	Design from Heritage: Strategies for Conservation and Conversion by Marieke Kuipers and Wessel de Jonge	
8	Architectural Conservation in Asia: National Experiences and Practice by Robert G. Thomson and John H. Stubbs	
9	A conservation manual for owners and occupiers. Heritage buildings and precincts of Mumbai by Nayana K and Abha N. Lambah	
10	Urban Planning Conservation And Preservation By Nahoum Cohen	
11	Design of Cities by Edmund Bacon	
12	'Townscape' and 'The Concise Townscape' by Gordon Cullen	

Course	Course Details :						
Week	Торіс	Objectives	Date	Related Assignments		Marks weightage %	
1	Advocating Urban Conservation: Establishing the values of conservation	-to be able to establish the values of conserving the built environment with respect to the pressures of development and stakeholder perspective.	Week -01	Present arguments for and against the conservation of the selected structure/s, while establishing the values of conservation.		10	
2	What is heritage? Origins of Urban conservation in the Indian context; definitions and ethics of conservation. Site discussion.	-to provide a foundational framework of understanding key definitions and ethics	Week -02	Identify of potential heritage buildings within the UD site-		10	
3	Introduction to an overview of Charters.	-to develop a critical understanding of the what and why of conservation.	Week -03 % Week - 04	To identify potential heritage precincts and list their classification		20	

	Value classifications; What is Heritage listing? What is a Precinct/Heritage Precinct?			by applying the theories.	
4	Methods of Condition mapping Introduction to Case- studies		Week -05	Presentation: Condition mapping of potential identified assets	20
5	Introduction to Conservation Organizations Grading systems	To examine the different roles, procedure and implementation of approach to conservation –at an architectural + urban scale	Week -06 Week -07	Student Presentations: Condition Mapping	
6	Discussion on Strategies		Week -09	Final Presentation on case-studies, strategies and guidelines	40
7	Student Presentation: Case- studies, Strategies and Guidelines		Week -10		

STUDENT WORK DOCUMENTATION

The Burra

Charter

Australia ICOMOS

INTERNATIONAL COUNCIL ON MONUMENTS AND SITES

SUBMITTED BY AR. POONAM DILIP GAWDE MARCH-SEN 2] PICA SUBJECT-URBAN CONSERVATION ASSIGNMENT: 0 Sources they instrudia acousts on yop-onent ingloads' Collaboration for Conservation-Artici-listory-of-Austalin-ECOMOS-and-the-Burne-Charter, ResearCloute, Google, Wikipedia

Charter for Places of Cultural Significance



The Venice Charter consists of 16 articles:

- · This articles provide detailed guidance on the preservation and restoration of cultural heritage.
- 1. Definition of Cultural Heritage: The charter defines cultural heritage as including monuments, groups of buildings, and sites with artistic, historic, scientific, or cultural value.
- · 2. Responsibility for Conservation: It stresses the responsibility of nations to safeguard their cultural heritage, recognizing the importance of international cooperation in conservation efforts.
- 3. Respect for Cultural Value: Conservation work should respect the cultural value and authenticity of heritage sites, avoiding any alterations that could diminish their significance.

Conservation Charter

The Burra Charter - an Australian 're-invention' of the Venice Charter.

M.Arch | Urban Design | Sem II | Urban Conservation | Ar. Yogini Mulekar

Australia ICOMOS

- Australia JCOMOS (International Council on Monuments and Australia RCOMOS (international context on Monument) and Sites) is a non-government, non-foerportin organization of cultural haritage professionals formed as a national committee of ICOMOS in 1976. Australia ICOMOS intestion is to lead cultural heritage conservation in Australia by mising standards, encouraging debate and generating innovative ideas. Australia ICOMOS has a Mission Statement, Eblacal Principles and the network of the Statement.

- Australia ICOMOS has a Mission Statement. Ethical Prine and a Code of Ethics. Australia ICOMOS is also beamd by the ICOMOS Statutes (dase are the Statutes set by ICOMOS International). Notionally, Australia ICOMOS is bound by the Australia ICOMOS Rules 2013.

The strategic priorities for Australia ICOMOS are: st practice

- he strategic priorities for Australia ICOMOS are; Advance and permote national stundards and best pm Engage with contemporary issues in cultural heritage Be an influential voice to government Enlinance recognition of Australia ICOMOS Empower a diverse membership





Australia ICOMOS HISTORY

- Australia ICOMOS has been an active and influential heritage conservation organization for forty years. As part of its 40th Anniversary (in 2016), Australia ICOMOS prepared a concise history of its origins and significant achievements, in particular the evolution of the Burra Charter.
- In this document we find more information about Australia ICOMOS and its role, nationally and internationally. The history of the organization and its achievements is presented in the context of the evolution of heritage practice in Australia and with reference to international development. It provides an overview of the work done by Australia ICOMOS with our international colleagues and partner organizations.
- This publication will be useful for current and future members of Australia ICOMOS, for governments, organizations, project collaborators, students and for community members with an interest in heritage.



M.E.S.						
PILLAI COLLEGE OF ARCHITECTURE , New Panvel						
COURSE REPORT						
Subject: (Choice Base E Real Estate and Land M Urban Design	Term: I		AY:2023-24			
Course Code: MUDE 301	Credits: 2	Semester: III	No of Periods per week : 1		eek : 1	
Total Marks: 100	Internal :100	External :	Theory Paper :			

Faculty:	Subject coordinator : Ar. ANAND SAHASRABUDDHE
	Team Members:

Attach Following documents:

INTRODUCTION:

This Elective is based on developing an understanding of the key aspects / factors that shape urban development which influence by real estate. While designing urban context planner need to keep in mind the relation between the impacts of urbanization on real estate. This elective will help to understand the real-estate approach towards urban design and urban land use.

Methodology (All the following points must be addressed in ALL subjects)

Aim: -

- 1) Understand the Importance of real estate in urban design
- 2) Understand the different urban bylaws, development control regulations, land use and types in real estate
- 3) The role of respective planning authorities and planning schemes in the urban design which impact on real estate.
- 4) To develop the basic understanding of land economics and real estate value through the study of project feasibility report and land valuation

Objectives: -

- 1) To focuses on developing an understanding of the key aspects / factors that shape and influence for real estate.
- 2) To study how to create an approach towards the urban design and planning with respect to urban bylaws, development control regulations, real estate properties, land use planning, also study the land economic activities, demographic trends, transportation and local government behavior as they affect real estate.
- 3) To identify and evaluate the real estate value of urban context by doing critical analysis on urban development in previous years.

Process: -

The studio was divided in five sections

1st Section is majorly focus on introduction of topic and its relevant of urban development. In this session students should realize the and understand the Importance of real estate in urban design. Also, students should have an introduction of ownership documents required for real estate development etc.

In the 2nd section: focus on types of properties & the outline basic principles of economic theories of urban areas and land economics etc. also another topic cover: Development control regulations, and various tools such as FSI, premium FSI, TDR and their application in urban development

In 3rd section: Legal approach towards real estate, terminologies and theories Property rights and instruments of transfer of property rightsTo understand the legal framework urban planning process and roles and responsibilities of various authorities under the law.Legal framework of urban planning Acts related to real estate.

4th section: Concepts of various asset class and their characteristics impact on real estate. Definitions of various asset class Measurement of performance of asset class Basic information of Market principles of trading of various asset classes such as sale, lease rent, revenue share etc.

5th section Definition and Basic Role of Valuation in Real estate, Types Of valuation, Basic Introduction of Project feasibility Report. How valuation and project feasibility report can make an important role in real estate development.

Course Plan Submitted v/s completed							
Subject: Re	al Estate and Land Manageme	nt in Urban Design	Course Code 301				
Faculty:							
WEEK	TOPIC TO BE COVERED	ASSIGNMENT	Adhered to the schedule or not	Which COs are aligned to each lecture and assignment			
1	To study the fundamental concept of Real Estate.						
2	Definition of real estate, measurements of areas, frequently used terms						
3	To understand types of properties & the outline basic principles of economic theories of urban areas and land economics etc.						
4	To develop an understanding of urbanization, population growth and land use planning	Submit a report on role of various planning authorities in urban development					
5	Development control regulations, and various tools such as FSI, premium FSI, TDR and their application in urban development						
6	Property rights and instruments of transfer of property rights To understand the legal framework urban planning process and roles and responsibilities of various authorities under the law. Legal framework of urban planning Acts related to real estate						

7	Definitions of various asset class Measurement of performance of asset class Basic information of Market principles of trading of various asset classes such as sale, lease rent, revenue share etc.	Submit a report on role of land use types and reservation in urban development.	
8	Definition and Basic Role of Valuation in Real estate, Types Of valuation, Basic Introduction of Project feasibility Report. How valuation and project feasibility report can make an important role in real estate development.		

M.E.S.						
PILLAI COLLEGE OF ARCHITECTURE, New Panvel						
COURSE REPORT						
Subject: Elective-Urban Design Seminar Term: AY: 2023-24						
Course Code: MUDE 402 Credits : 2			Periods per we	eek : 4		
Internal : -100	External : -	Theory	/ Paper : -			
	DLLEGE OF AR C O U R S sign Seminar Credits : 2 Internal : -100	M.E.S. DLLEGE OF ARCHITECTURE C O U R S E R E P O RT sign Seminar Term: Credits : 2 Semester: IV Internal : -100 External : -	M.E.S. DLLEGE OF ARCHITECTURE , New C O U R S E R E P O RT sign Seminar Term: Credits : 2 Semester: IV No of I Internal : -100 External : - Theory	M.E.S. DLLEGE OF ARCHITECTURE , New Panvel C O U R S E R E P O RT sign Seminar Term: AY: 2023-24 Credits : 2 Semester: IV No of Periods per we Internal : -100 External : - Theory Paper : -		

Faculty:	Subject coordinator : Harshada Katkar
	Team Members: Snehal Ghag

INTRODUCTION:

This course is designed to guide students in completing the written portion of their thesis, a vital component for their master's degree in urban design and conservation. Collaborating closely with their supervisors, students will craft the content of their written document. Additionally, course instructors will serve as copy editors, assisting students during class sessions to refine the structure, format, and language of their work.

Course Structure: The course will feature lectures delivered by instructors, covering the structure and elements of each chapter.

Methodology (All the following points must be addressed in ALL subjects)

Aim: -

To educate students about research writing and methodological framework for any Urban Design Project.

Objectives:-

- 1. To develop writing skills in a standard format (Research writing standards).
- 2. To put forward and orientating thoughts as per the thesis proposals through writing.
- 3. To complete the M. Arch. Thesis Black book in a standard and structured format.
- 4. To develop ability of students to formulate framework for any Urban Design Project.

Methodology:-

Elaborative guidance lectures will be conducted on each stage of thesis and understanding of urban

Design Project will be evolved through it. Research methodologies which are adopted by students will be discussed and appropriate representation and writing techniques will be introduced to students. UD seminar subject instructors will work with the students during class hours to support them towards fine tuning the structure, form and language of their written document. So, the schedule is formulated in such a way, that formulating project specific framework for the report with respect to deadline will be achieved.

Horizontal Integration approach with other subjects in the semester: -

UD seminar is an allied elective to support M. Arch. thesis dissertation to develop writing skills in the specific format standardized for black book.Expected outcomes in terms of students understanding and skills: - Methodological framework for the report of Thesis as per the topic of student and its detailed structure.

Black book submission for plagiarism check Final outcome:

Two copies of Hard bound M.Arch. Thesis black book

Course Outcomes

CO1: Master the application of research writing standards, including proficient citation techniques, proper formatting conventions, and clear language usage.

CO2: Effectively communicate and align thoughts with thesis proposals through written expression, demonstrating clarity and coherence in conveying ideas.

CO3: Successfully compile the M. Arch. Thesis Black book in a meticulously structured format, ensuring consistency and adherence to established guidelines.

CO4: Acquire the capability to formulate comprehensive frameworks for Urban Design Projects, encompassing problem analysis, conceptualization, strategic planning, and implementation strategies.

CO5: Develop critical thinking skills necessary to evaluate and refine written work, fostering a capacity for continuous improvement in writing proficiency and project development.

Horizontal Integration approach with other subjects in the semester:-

This elective is curated in way to support Thesis II course. Formulating dissertation book in methodical way will be focused in this subject.

Studio outcomes

Analytical skills development, black book for thesis of students

Course Plan Submitted v/s completed							
Subject: Elective-Urban Design Seminar			Course Code : MUD	E 401			
Faculty:	Faculty:						
WEEK	TOPIC TO BE COVERED	ASSIGNMENT	Adhered to the schedule or not	Which COs are aligned to each lecture and assignment			
1	Introduction to the course	Data collection	YES	-			
2	Discussion/ Presentation	Discussion/ Presentation	YES	CO1			
3	Discussion/ Presentation	Discussion/ Presentation	YES	CO 1			
4	Abstract, Research question, Aims and objectives	Submit titles for the book specific to thesis research- Discussion	NO Extra discussion needed	CO2 & CO 1			
5	Framework of Dissertation	Submit a rough structure for the book (Share a hard copy with UD seminar subject faculties an submit online on classroom)	YES	CO 4			
6	Holiday (Write Premise/Research question, Aims and objectives)	Submit online (Structure and progress writing)	YES	-			
7	Chapter 1: Introduction and abstract/Premise	Draft writing: Editing of	YES	CO 1 & 5			

	Chapter 3: Research Methodology (Build diagram)	Introduction, RM chapter and discussion (Share a hard copy to your guide and submit online on classroom)		
8	Chapter 2: Literature Review	Draft writing: Editing of Literature review (Share a hard copy to your guide and submit online on classroom)	YES	CO2
9	Chapter 4: Cases/ Case studies	Draft writing: Editing of Cases/ Case studies	YES	CO 4
10	Combine chapter 1 to 4- Revised draft 1	1 st Draft of Introduction, Literature review, Research methodology and cases/case studies	YES	CO 3 & CO5
11	Combine chapter 1 to 4- Revised draft 2	2nd Draft of Introduction, Literature review, Research methodology and cases/case studies (Students can add titles which are relevant to their own thesis research)		CO 1, 2 &3
12	Holiday Start writing chapter 5: Site Study and analysis	1 st draft Submit online (Structure of remaining chapters)	YES	-
13	Chapter 5: Site Study and analysis	Draft writing: Editing of Site study and	YES	CO 2 &3

	Chapter 6 onwards: Can include strategies and Guidelines, demonstrations, scenarios, structure plan, interventions	other chapters (Share a hard copy to your guide and submit online on classroom)		
14	Chapter 5 and other chapters	Draft writing: Editing of Site study and other chapters (Share a hard copy to your guide and submit online on classroom)	YES	CO 3 &2
15	Chapter 5 and other chapters draft 1	Draft writing: Editing of Site study and other chapters draft 1	YES	CO 3 & 2
16	Combined draft plagiarism check (Prefinal)	Final combined chapters	YES	-
17	Final book submission	Final book submission	YES	-

It has been observed in this studio that design strategies for green field site needs to be thoroughly explored along with knowledge of latest trends and practices in field of Urban Design. Term plan needs to incorporate dedicated time for understanding this through research.