



**DEPARTMENT OF ARCHITECTURE
UNIVERSITY OF THE PUNJAB, LAHORE.**

**BACHELORS OF ARCHITECTURE (B. ARCH)
5 YEARS PROGRAM**

COURSE OUTLINE

Course Title	Architecture Design II
Course Code	ARCH-202
Credit Hours	7
Semester	Spring
Prerequisites	NA
Tutor	As per Timetable
Student Advising	As per Timetable
Contact	-

Teacher Signature

Chairman Signature



Course: Architectural Design –III
Course Title: ARCH 202
Semester: IV

Studio Instructors:
Ar. Khalifa Ahmed Muiz
Ar. Sadia Saif ur Rehman

PROJECT NO. 1
Public Toilets

1. INTRODUCTION

Public Toilets are a fundamental necessity for a good civic environment. Many Public toilets end up becoming derelict spaces providing venues for untoward/negative activities. It is a need of the hour to understand the various tangible and intangible issues that influence the design of such a necessary amenity.

2. PROJECT BRIEF:

Students are required to design public washrooms, keeping in view the ever-present need of such facilities.

The Public toilets will include following facilities:

- Total Toilet stalls for 20 users (10 male/ 10 female)
- Handwashing area
- Janitorial facilities

The covered area should not be more than 1500 ft².

3. LEARNING OUTCOME

The student is expected to become:

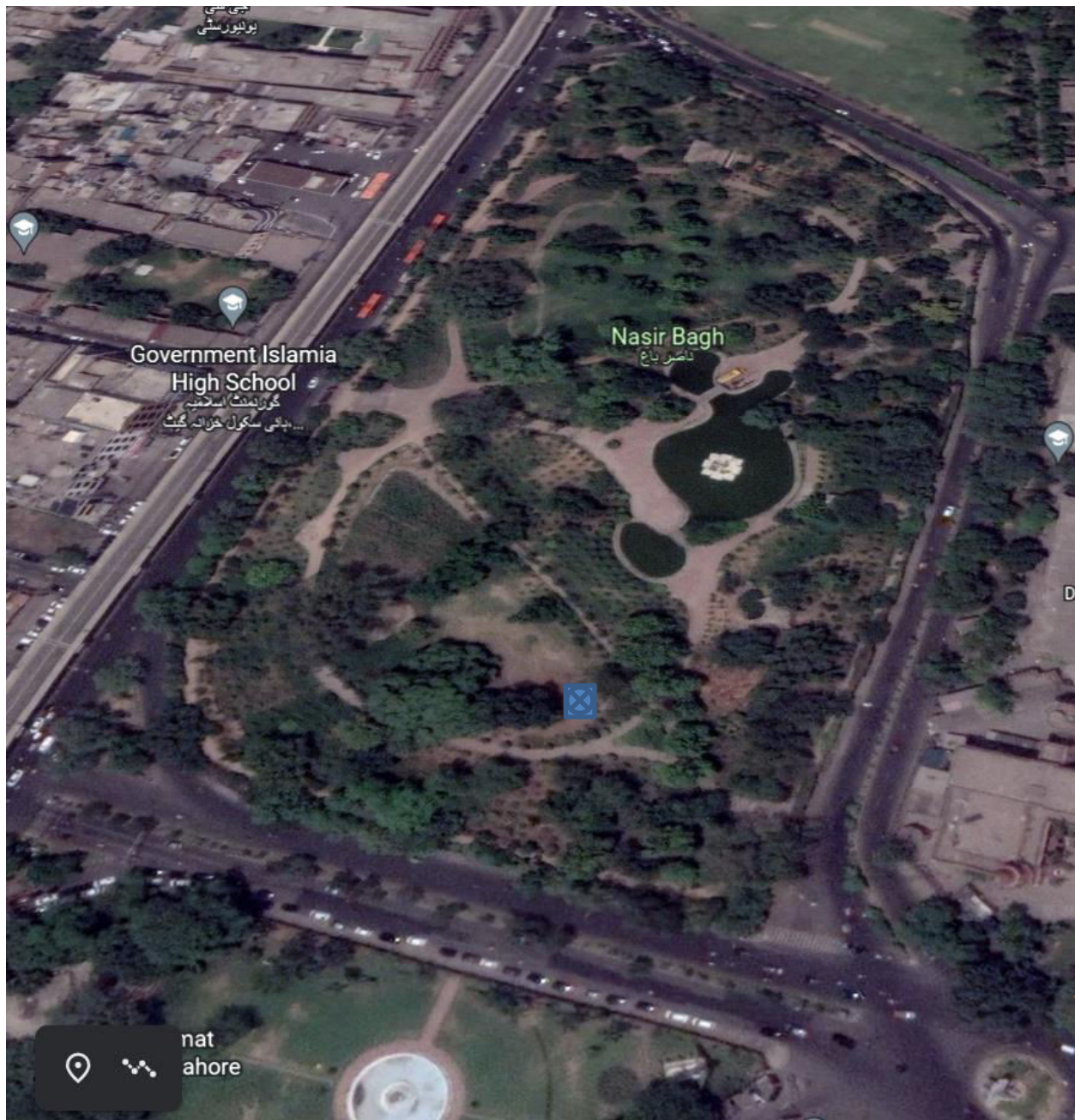
- Acquainted with the idea of designing a public building.
- Adept in data collection and application of that data.
- To be able to deal with social and cultural challenges in public washrooms (Gender Segregation, avoidance of any negative spaces that may promote negative activities).
- An in depth understanding of anthropometrics and their significance in spatial configuration.

4. OBJECTIVES

- Introduction to application of standards based on ergonomics.
- Achieve a User sensitive design (provide sufficient buffers to create gender segregation).

5. SITE

The site is situated in Nasir Bagh, facing the town Hall next to the Punjab University Old Campus.



6. PROCESS AND METHODOLOGY

1. Literature review
2. Site Analysis
3. Schematic design
4. Detailed design
5. Presentation

STAGE 1: LITERATURE REVIEW

Literature Review means analyzing and reviewing information available on the topic.

The Research should be based (not limiting to) on the data collected from:

- Time Saver Standards (TSS) Building Types
- Architectural Graphic Standards

- Architectural Graphics
- Architect's Data by Neufert
- Other relevant resources

STAGE 2: SITE ANALYSIS

The following factors of Site analysis will be covered by the students and placement of building on the site, will be in consideration of the following:

- Solar Path
- Wind Direction
- Views
- Pedestrian and vehicular circulation
- Utilities

STAGE 3: SCHEMATIC DESIGN

Take action/conclusions from "Site Analysis" and develop a series of 3D models that explore strategies for occupying the site and composing in terms of spaces both in-door and out-door. The conclusions of this stage will result in a zoning layout. Themes to be addressed:

- Orientation: establish axes for views and access to the site, create relationships with circulation routes (designed or tentative) and define an entry sequence relative to the existing topography.
- Profile: develop a building form that fits within its context in terms of its immediate surroundings and the way it is seen from various vantage points in the wider area.
- Envelope: make initial decisions about openings in the envelopes that enhance internal spaces and external relationships as well as make the building iconic in terms of elevation. Think in terms of windows and perforations, transparent, translucent, or opaque surfaces, adjustable layers filters and panels, operable walls and entry or exit points.

STAGE 4: DETAILED DESIGN

Develop a detailed design for Artist Residency based on the qualities and characteristics of the site and views and vistas from around the site. Themes to be addressed are:

- The orientation of the building to climatic conditions: sun, wind, light, sound. Consider how the form accepts or resists these conditions.
- The three-dimensional forms of the major spaces and volumes. Consider the scale and the edge conditions (open, closed, filtered). (Edge conditions are boundaries)
- Materials and details: floor, ceiling and wall surfaces, apertures etc.

STAGE 5: PRESENTATION TECHNIQUES

The design should be developed through plan, section, sketches, physical model etc. All material (drawings and models) produced during the studio should be presented during discussion (interim reviews, mid juries, final review etc.). The final presentation will use the digital mode of presentation i.e. sheets to be scanned and emailed. Prepare presentation containing best images produced during the studio, placed in a sequence that clearly explains your methodology and final proposal.

7. WEEKLY BREAKUP:

Week 1	<p>Monday 22-02-2021</p> <ul style="list-style-type: none"> • Introduction to project • Literature review* <ol style="list-style-type: none"> i Gathering of data ii Processing and short listing the data- iii Discussion on the final completed literature review. <p>Class will review books on public toilets and collect data. The research should include relevant literature, statistical and graphical data etc.</p> <p><i>*Literature review is a comprehensive study/summary/survey of published books, scholarly articles and research papers etc. on a certain topic of research. It helps to develop understanding of the given topic and help establish the nature of research.</i></p>	<p>Studio Duration: 8 am- 4pm 08 hours</p>
	<p>Friday 26-02-2021</p> <p>Students are required to have completed the following tasks for discussion:</p> <ul style="list-style-type: none"> • Basic literature review • Site Analysis 	<p>Studio Duration: 8 am- 4pm 08 hours</p>
Week 2	<p>Monday 01-03-2021</p> <ul style="list-style-type: none"> • Till complete Site Analysis <p>Progress Marking</p> <ul style="list-style-type: none"> • Detail discussion on basic layout considering analysis and literature review 	<p>Studio Duration: 8 am- 4pm 08 hours</p>
	<p>Friday 05-03-21</p> <ul style="list-style-type: none"> • Students should have 10 proposals with 1 finalized plan. • Study model <p>Progress Marking</p>	<p>Studio Duration: 8 am- 4pm 08 hours</p>
Week 3	<p>Monday 08-03-2021</p> <ul style="list-style-type: none"> • Plan • Elevations • Sections <p>Progress Marking</p>	<p>Studio Duration: 8 am- 4pm 08 hours</p>
	<p>Friday 12-03-21</p> <p>Pre-Final Jury (on-scale): The jury will include:</p> <ul style="list-style-type: none"> • Plan • Elevations • Sections • Study Model 	<p>Studio Duration: 8 am- 4pm 08 hours</p>

Week 4	<p>Monday 15-03-21 Revision and review of previous work</p> <p>Table Discussion on revisions/ improvements based on pre-final jury (on- scale):</p> <ul style="list-style-type: none"> • Plan • Elevations • Sections • Study Model 	<p>Studio Duration: 8 am- 4pm 08 hours</p>
	<p>Friday 19-03-21 Final Jury (on-scale):</p> <ul style="list-style-type: none"> • Plan • Elevations • Sections • Refined Study Model • Submissions will be on 20"x30" sheets (scholar sheets) • Students will submit their work with their name and roll no. • Medium of drafting is pencil • Jury will start at sharp 9am • Max. No of Sheets: 04 • Drawings should include plan, all elevations, sections and progress work. • Scale for site plan 1/16" = 1'-0", Scale for all drawings 1/8"= 1'-0" 	<p>Studio Duration: 8 am- 4pm 08 hours</p>

8. SUBMISSION

- Submission will be on Scholar sheets
- No. of Sheets 4

9. RECOMMENDED BIBLIOGRAPHY

1. De Chiara J., Michael J. C. (2001), Time Saver Standards for Building Types, McGraw-Hill; 4th edition
2. Ching F. (2003), Architectural Graphics, John Wiley publication, New York.
3. Ramsey C. G., Sleeper H. (2016) Architectural Graphic Standards Series, John Wiley publication, New York; 12th edition
4. Neufert E. (2012), Architect's Data, Wiley-Blackwell; 4th edition

AFTER CLASS/OFFICE APPOINTMENTS

After class discussions can only be entertained after seeking appointments. Course coordinators can be contacted during university hours for getting appointments.

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Course: Architectural Design –III
Course Title: ARCH 202
Semester: IV

Studio Instructors:
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Ar. Sadia Saif ur Rehman

PROJECT NO. 2

Sunday Bazaar

1. INTRODUCTION

Sunday Bazaars are an integral part of urban communities. They act as a link between urban society and the rural vendor (vegetable and fruit sellers, hawkers etc.). Sunday bazaars can benefit from a purposefully designed space keeping in view the flows and ease of different users (buyer and seller).

Projects on a bigger scale require master planning and the first step to achieve that, is Zoning. Hence, the project aims to inculcate the idea and importance of zoning of large-scale architectural projects.

2. PROJECT BRIEF

The students are required to design an open marketplace with sheds/tensile roofing/ semi-permanent roofing.

Students are expected to come up with the requirements and corresponding areas by reviewing relevant literature and case study/ies. Some of the requirements are listed below:

- i Designated area for stalls
- ii Walkways
- iii Semi open structure
- iv Wheel-chair ramps/ access
- v Public toilets (10 male and 8 female, 2 toilets for differently abled people)
- vi Administrative office for two personnel with attached bath
- vii Parking for 80-100 cars and 200 bikes

3. SITE

The site is the current Sunday bazar of Nasheman-e- Iqbal, phase 2. The Area is estimated to be 178, 834 ft².



4. AIMS

To enable students to understand the different requirements of different users of the same facility. Moreover, to understand the nature of outdoor space planning and developing a masterplan.

5. OUTCOME

- Introduction to open space planning and zoning
- Learning about the intangible aspects of an open marketplace; providing shade for pedestrians, appropriate placement of walkways etc., placemaking.
- In-depth understanding of the structures used for open marketplace

6. PROCESS AND METHODOLOGY

1. Literature review
2. Site Analysis
3. Schematic design
4. Detailed design
5. Presentation

STAGE 1: LITERATURE REVIEW

Literature Review means analyzing and reviewing information available on the topic.

The Research should be based (not limiting to) on the data collected from:

- Time Saver Standards (TSS) Building Types
- Architectural Graphic Standards
- Architect's Data by Neufert
- Architectural Graphics
- Other relevant resources

STAGE 2: SITE ANALYSIS

The following factors of Site analysis will be covered by the students:

- Solar Path
- Wind Direction
- Views
- Location of Bus stops near the site
- Pedestrian and vehicular circulation
- Utilities

STAGE 3: SCHEMATIC DESIGN

Take action/conclusions from "Site Analysis" and develop a series of 3D models that explore strategies for occupying the site and composing in terms of spaces both in-door and out-door. The conclusions of this stage will result in a zoning layout. Themes to be addressed:

- Orientation: establish axes for views and access to the site, create relationships with circulation routes (designed or tentative) and define an entry sequence relative to the existing topography or buildings.
- Profile: develop a building form that fits within its context in terms of its immediate surroundings and the way it is seen from various vantage points in the wider area.
- Envelope: make initial decisions about openings in the envelopes that enhance internal spaces and external relationships as well as make the building iconic in terms of elevation. Think in terms of windows and perforations, transparent, translucent or opaque surfaces, adjustable layers filters and panels, operable walls and entry or exit points.

STAGE 4: DETAILED DESIGN

Develop a detailed design for the Sunday Bazaar based on the qualities and characteristics of the site and views and vistas from around the site. Themes to be addressed are:

- The orientation of the building to climatic conditions: sun, wind, light, sound. Consider how the form accepts or resists these conditions.
- The three-dimensional forms of the major spaces and volumes. Consider the scale and the edge conditions (open, closed, filtered). (edge conditions are boundaries)
- Materials and details: floor, ceiling and wall surfaces, apertures etc.

STAGE 5: PRESENTATION TECHNIQUES

The design should be developed through plan, section, sketches, physical model etc. All material (drawings and models) produced during the studio should be presented during discussion (interim reviews, mid juries, final review etc.). The final presentation will use the digital mode of presentation i.e. sheets to be scanned and emailed. Prepare presentation containing best images produced during the studio, placed in a sequence that clearly explains your methodology and final proposal.

7. WEEKLY BREAKUP:

Week 1	<p>Friday 26-3-2021</p> <ul style="list-style-type: none"> • Introduction to project • Lecture on Zoning and examining case studies. • Literature review <ul style="list-style-type: none"> i Gathering of data ii Processing and short listing the data- iii Discussion on the final completed literature review. <p>Class will review books on open marketplace and collect data. The research should include relevant literature, statistical and graphical data etc.</p>	<p>Studio Duration: 8 am- 4pm 08 hours</p>
Week 2	<p>Monday 29-03-2021</p> <p>Students are required to have completed the following tasks for discussion:</p> <ul style="list-style-type: none"> i Final completed Literature Review ii Requirements/functions with areas iii 2 Case studies iv Basic Zoning Layout <p>Progress Marking</p>	<p>Studio Duration: 8 am- 4pm 08 hours</p>
	<p>Friday 02-04-2021</p> <p>Final Submission</p> <ul style="list-style-type: none"> i Requirements/functions with areas ii 2 Case studies iii Final Zoning Layout with parking 	<p>Studio Duration: 8 am- 4pm 08 hours</p>

Week 3	<p>Monday 05-04-2021</p> <p>The following stages are expected to be completed:</p> <ul style="list-style-type: none"> v Literature review vi Site Analysis vii Zoning <p>On the basis of the conclusions of the above stages Following is the requirement for Monday:</p> <ul style="list-style-type: none"> • Initial layout that addresses all the issues. • Parking layout 	<p>Studio Duration: 8 am- 4pm 08 hours</p>
	<p>Friday 09-04-2021</p> <ul style="list-style-type: none"> • Study model for evaluating heights of structure/s, form etc. this could be made from any material, using any technique (cardboard, matchstick, any available material). <p>The model will be on scale and will help you to gauge the negative/positive areas, inter-relationship of masses etc.</p> <ul style="list-style-type: none"> • parking layout with vehicular and pedestrian entry and exit points. <p>Progress Marking Note: students not presenting the study model will be marked zero</p>	<p>Studio Duration: 8 am- 4pm 08 hours</p>
Week 4	<p>Monday 12-04-2021</p> <ul style="list-style-type: none"> • 10 proposals for Layout with 1 final proposal based on the study model exercise. • Final parking layout with vehicular and pedestrian entry and exit points. <p>Progress Marking</p>	<p>Studio Duration: 8 am- 4pm 08 hours</p>
	<p>Friday 16-04-2021</p> <p>Review and discussion of mistakes</p>	<p>Studio Duration: 8 am- 4pm 08 hours</p>
Week 5	<p>Monday 19-04-21</p> <ul style="list-style-type: none"> • Final Plan • Study model • Elevations • Sections 	<p>Studio Duration: 8 am- 4pm 08 hours</p>
	<p>Friday 23-04-21</p> <p>Pre-final Jury</p> <ul style="list-style-type: none"> • Plan • Elevations • Sections • 3D sketches/ Study Model 	<p>Studio Duration: 8 am- 4pm 08 hours</p>

Week 6	Monday 26-04-21 Table Discussion on revisions/ improvements based on pre-final jury (on- scale): <ul style="list-style-type: none"> • Plan • Elevations • Sections • 3D Sketches/ Study model 	Studio Duration: 8 am- 4pm 08 hours
	Friday 30-04-21 Final Jury (on-scale): <ul style="list-style-type: none"> • Site Plan • Plan • Elevations • Sections • Final 3D drawing • Study Model • All previous process work • Scale for site plan 1/32" = 1'-0", Scale for all drawings 1/8"= 1'-0" 	Studio Duration: 8 am- 4pm 08 hours

8. SUBMISSION

- Submission will be on A1 scholar sheets
- Students will have all the process work and study models at the time of jury

9. RECOMMENDED BIBLIOGRAPHY

- I. De Chiara J., Michael J. C. (2001), Time Saver Standards for Building Types, McGraw-Hill; 4th edition
- II. Ching F. (2003), Architectural Graphics, John Wiley publication, New York.
- III. Ramsey C. G., Sleeper H. (2016) Architectural Graphic Standards Series, John Wiley publication, New York; 12th edition
- IV. Neufert E. (2012), Architect's Data, Wiley-Blackwell; 4th edition
- V. Frederick M. (2007), 101 Things I Learned in Architecture School; The MIT Press

AFTER CLASS/OFFICE APPOINTMENTS

After class discussions can only be entertained after seeking appointments. Course coordinators can be contacted during university hours for getting appointments. All correspondence should be carried out before 9:00 pm.

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Course: Architectural Design –III
Course Title: ARCH 202
Semester: IV

Studio Instructors:
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PROJECT NO. 3
Artist's Residency

1. INTRODUCTION

The idea of Artists' residencies is a well-known one all over the world. Artist residencies can either be associated with universities, museum and other imminent institutions or can be private setups to encourage artists to live, observe, think and create all in one place. The objective of such residencies is to take individuals out of their mundane routines for certain time periods and place them in setups that will stir up their creativity to produce better art. Such residencies sometimes promise a certain environment to the artists to enhance their creative intellect, for instance, bringing the artist closer to nature or wilderness.

This project aims to pay special emphasis to concept development and execution to understand that concept cannot be superimposed independently on design, it arises from the specifics of site, client and architectural brief etc. Students will also be assigned a fine artist and they will have to interview him/her to build a client brief.

2. PROJECT BRIEF:

Students are required to design a residential/studio space for a fine artist, with the following requirements:

- Studio/ working space
- Lounge/Dining
- Kitchenette
- Sleeping quarter/bedroom
- Dressing Room/Bath

The covered area should not be more than 2500 ft².

3. LEARNING OUTCOME

The student is expected to become acquainted with:

- Formulation of Design Concept
- Client communication and being sensitive to user requirements

4. OBJECTIVES

- Concept derivation, formulation, and execution
- To understand the requirements of a specific group i.e. fine artists

- Achieve a User sensitive design (providing an efficient space for work, play and connection with nature/surroundings).

5. SITE

The site is located within a clearing next to the waterfall lake of Kanhetti Gardens, Khushab. The built area should not be more than 2500 ft². Students will decide where to choose the location for the residency upon their conclusions drawn after the site visit.



6. PROCESS AND METHODOLOGY

1. Literature review
2. Site Analysis
3. Schematic design
4. Detailed design
5. Presentation

STAGE 1: LITERATURE REVIEW

Literature Review means analyzing and reviewing information available on the topic.

The Research should be based (not limiting to) on the data collected from:

- Time Saver Standards (TSS) Building Types
- Architectural Graphic Standards
- Architectural Graphics

- Architect's Data by Neufert
- Other relevant resources

STAGE 2: SITE ANALYSIS

The following factors of Site analysis will be covered by the students and placement of building on the site, will be in consideration of the following:

- Solar Path
- Wind Direction
- Views
- Pedestrian and vehicular circulation
- Utilities

STAGE 3: SCHEMATIC DESIGN

Take action/conclusions from "Site Analysis" and develop a series of 3D models that explore strategies for occupying the site and composing in terms of spaces both in-door and out-door. The conclusions of this stage will result in a zoning layout. Themes to be addressed:

- Orientation: establish axes for views and access to the site, create relationships with circulation routes (designed or tentative) and define an entry sequence relative to the existing topography.
- Profile: develop a building form that fits within its context in terms of its immediate surroundings and the way it is seen from various vantage points in the wider area.
- Envelope: make initial decisions about openings in the envelopes that enhance internal spaces and external relationships as well as make the building iconic in terms of elevation. Think in terms of windows and perforations, transparent, translucent, or opaque surfaces, adjustable layers filters and panels, operable walls and entry or exit points.

STAGE 4: DETAILED DESIGN

Develop a detailed design for Artist Residency based on the qualities and characteristics of the site and views and vistas from around the site. Themes to be addressed are:

- The orientation of the building to climatic conditions: sun, wind, light, sound. Consider how the form accepts or resists these conditions.
- The three-dimensional forms of the major spaces and volumes. Consider the scale and the edge conditions (open, closed, filtered). (Edge conditions are boundaries)
- Materials and details: floor, ceiling and wall surfaces, apertures etc.

STAGE 5: PRESENTATION TECHNIQUES

The design should be developed through plan, section, sketches, physical model etc. All material (drawings and models) produced during the studio should be presented during discussion (interim reviews, mid juries, final review etc.). The final presentation will use the digital mode of presentation i.e. sheets to be scanned and emailed. Prepare presentation containing best images produced during the studio, placed in a sequence that clearly explains your methodology and final proposal.

7. WEEKLY BREAKUP:

Week 1	<p>Monday</p> <ul style="list-style-type: none"> • Introduction to project • Lecture on Concept Formulation • Literature review* <ol style="list-style-type: none"> i Gathering of data ii Processing and short listing the data- iii Discussion on the final completed literature review. <p>Class will review books on public toilets and collect data. The research should include relevant literature, statistical and graphical data etc.</p> <p><i>*Literature review is a comprehensive study/summary/survey of published books, scholarly articles and research papers etc. on a certain topic of research. It helps to develop understanding of the given topic and help establish the nature of research.</i></p>	<p>Studio Duration: 8 am- 4pm 08 hours</p>
	<p>Friday</p> <ul style="list-style-type: none"> • Site Visit 	<p>Studio Duration: 8 am- 4pm 08 hours</p>
Week 2	<p>Monday</p> <ul style="list-style-type: none"> • Complete Literature Review • Site Analysis • Design Concept • Progress Marking • Detail discussion on basic layout considering site analysis, literature review and design concept 	<p>Studio Duration: 8 am- 4pm 08 hours</p>
	<p>Friday (on-scale)</p> <ul style="list-style-type: none"> • Raw plan • Study model <p>Progress Marking</p>	<p>Studio Duration: 8 am- 4pm 08 hours</p>
Week 3	<p>Monday (on-scale)</p> <ul style="list-style-type: none"> • Plan • Elevations • Sections <p>Progress Marking</p>	<p>Studio Duration: 8 am- 4pm 08 hours</p>

	<p>Friday Pre-Final Jury (on-scale): The jury will include:</p> <ul style="list-style-type: none"> • Plan • Elevations • Sections • Study Model 	<p>Studio Duration: 8 am- 4pm 08 hours</p>
Week 4	<p>Monday Revision and review of previous work</p> <p>Table Discussion on revisions/ improvements based on pre-final jury (on- scale):</p> <ul style="list-style-type: none"> • Plan • Elevations • Sections • Study Model 	<p>Studio Duration: 8 am- 4pm 08 hours</p>
	<p>Friday Final Jury (on-scale):</p> <ul style="list-style-type: none"> • Plan • Elevations • Sections • Refined Study Model <ul style="list-style-type: none"> • Submissions will be on 20"x30" sheets (scholar sheets) • Students will submit their work with their name and roll no. • Medium of drafting is pencil • Jury will start at sharp 9am • Max. No of Sheets: 04 • Drawings should include plan, all elevations, sections and progress work. • Scale for site plan 1/16" = 1'-0", Scale for all drawings 1/8"= 1'-0" 	<p>Studio Duration: 8 am- 4pm 08 hours</p>

8. SUBMISSION

- Submission will be on Scholar sheets
- No. of Sheets 4

SUBMISSION DATE: 13-10-2021 at 8:30 am SHARP

9. RECOMMENDED BIBLIOGRAPHY

1. De Chiara J., Michael J. C. (2001), Time Saver Standards for Building Types, McGraw-Hill; 4th edition
2. Ching F. (2003), Architectural Graphics, John Wiley publication, New York.

3. Ramsey C. G., Sleeper H. (2016) Architectural Graphic Standards Series, John Wiley publication, New York; 12th edition
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