**No.of Teaching Weeks: 16**
**Contact Hours: per week : L : 0 S: 6**
**Contact Hours: per sem : L : 0 S: 96**
**Credit: 06**
**Total Marks:100 (E=60 I=40)**

**Course Title: Architectural Design**
**Course Code: AP-101**
**Ist YEAR – 2023-24, Semester I**
**Course Cordinator: Akash Sharma**
**Studio Team: Shhilpi Sinha, Akash, Ankita, Binita**

## Objectives:

It is intended to develop design skills, while engaging with creative and practical alternatives, based on knowledge gained, in the understanding of the technology, aesthetics and profession associated with architecture. The course is conducted with an objective to develop a student's subjective abilities, in the appreciation and creation of architectural form, as well as the crafting of built objects, and also to consciously use the processes and methodologies of design, whilst developing verbal and graphic communication skills.

## Pedagogy:

The studio is planned to be conducted on an online mode adopting an internet friendly approach considering this pandemic situation, with the help of presentations,interactive and focussed group discussions and by attempting to create a creative and conducive environment.
The pedagogical approach for conducting the semester is proposed to be in a sequential manner divided under the following subheads:-
1.**Study**-Past Experiences,Present Circumstances(considering pre and post pandemic situations) and Expected Outcomes
2.**Intervention**- Tools and Systems to get the desired results
We have planned to have a process-driven approach to formulate exercises in a more structured manner and innovate some motivating activities for the new batch.

## Expected Outcomes:

The students are expected to develop senstivity towards design, and also technical understanding, as an aid to design. It is an endeavour to make students be able to relate to architecture as an extension of life and environment. The students will also be guided to use the relevant architectural drawing equipment, to be used with full knowledge of their capacity.

| S NO. | WEEK/ DATE | LECTURE /DISCUSSION | | ACTIVITY | SUBMISSION | MARKS | EXPECTED OUTCOME |
|---|---|---|---|---|---|---|---|
| 1 | WEEK 01 | **Orientation** | | Introduction of the students-The students to prepare a poster:**"About Myself"** about their interests,creative skills and hobbies.Few online handouts along with undertakings will be distributed.Discussion on modalities of online classes. | Poster on "About Myself" on A3 Sheet | | Introduction to the course,college and various SOP's, Sensitisation of the students to themselves, Understanding of the new-batch amongst each other. |
| | Studio 1 | Lecture-1 | **Orientation-**Introduction to the course,college with the help of videos and images and faculty,discussion on curriculum | | | | |
| | Studio 2 | Lecture-2 | **Introduction** of our SOPs,basic introduction on architecture, its components and its relevance. | | | 10 | |
| 2 | WEEK 02 | **Perception Building-Elements of Nature** | | Students will be sensitised to be aware of their surroundings and attempt **"View from my Window"** in which they will observe and map activities happening in their surroundings from their respective residences.The activity will be planned to be recorded at different times over the week atleast 4 times.The aim of the exercise is to develop perception building of the surroundings amidst students. | A2 Cartridge Sheet | | Perception building and mind mapping of their familiar surrounding areas in a more sensitive way by the students. |
| | Studio 1 | Lecture-1 | **Perception Building-**by the method of observation, recording and mind mapping ) | | | | |
| | Studio 2 | Lecture-2 | Development of skills like visualisation,sensitisation and representation and think like a designer | | | 10 | |
| 3 | WEEK 03 | **Visualisation & Analytical Skills** | | Students will work in groups (2 members in each group). Identify an architect and study their work, design philosophies, signature elements and make presentation on A2 sheets | Minimum 2 A2 sheets for presentation | 10 | Architectural Vocabulary development. |
| | Studio 1 | Lecture-1 | **Visualisation and Enhancement of analytical skills-** Introduction of architectural vocabulary | | | | |
| | Studio 2 | Lecture-2 | | | | 10 | |
| 4 | WEEK 04 | **Representaion of Ideas and Emotions using 2D and 3D Techniques** | | Studio Exercise- Abstract compositions to be created,depicting 6 chosen emotions and representing them as follows:- a)Black N White Lines-Introduction of varying thicknesses as a modulating element to the composition lending depth and character to the composition. b)Poster to understand Colour Theory in group of 2 c)Abstract Composition using Colour d)Depiction of same emotions in a 3D Model e) Explanation of the created models with the help of a Concept Sheet | 3-A2 Cartridge Sheets and 3D Model | 10 | Understanding of Emotions and their interpretation in terms of graphical representation and understa nding that how colour plays an imperitive role in depicting various emotions. |
| | Studio 1 | Lecture-1 | **Interpreting and Reinterpreting-**Study of **Emotions and Senses** (RBT-Saturday Orientation Lecture-Session 3) | | | 10 | |
| | Studio 2 | Lecture-2 | **Depiction of Emotion-**Understanding of Human Expressionsand the role played by Art,Colour,Lines and Sculptures. | | | 10 | |
| 5 | WEEK 05 | **Representaion of Ideas and Emotions using 2D and 3D Techniques** | | Continuation of Studio Exercise-Abstract compositions to be created in the studio with reference to the delivered lectures and discussions. | 3-A2 Cartridge Sheets and 3D Model | 10 | Learning and Unlearning-Students are equipped to |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | **Studio 1** | **Lecture-1** | **Depiction of Emotion-**Understanding the Colour Theory and how it is used graphically to represent emotion. | **Final Stage-**Final outcome of the model derived by the students to represent mass and volume. | | 20 | express their ideas without the use of words by utilising 2d and 3d representaions. (Development of Volumetric Forms) |
| | **Studio 2** | **Lecture-2** | **Unlearning and Learning-**Understanding the volumes and punctures in relation to emotions and abstract ideas. | | | **Total= 60** | |
| 6 | **WEEK 06** | **Basic Aspects of Building Form and Space-Principles of Design** | | Studio Exercise- Students to select 6 elements of Principles of Design from the given lecture and explain the same, using graphics and images and a small narrative, to corroborate the chosen elements of Principles of Design. | 2 A2 Cartridge Sheet. | | Application of design principles in nature and architecture for analysis of built-forms. |
| | **Studio 1** | **Lecture-1** | **Principles of Design-**Finding principles of design through nature with examples for concepts such as form,harmony,rhythm,emphasis,symmetry etc. | | | | |
| | **Studio 2** | **Lecture-2** | **Unlearning and Learning-**understanding the difference in the design process as compared to traditional forms of learning using the understanding of principles of design to explain and analyse architecture. | | | 10 | |
| 7 | **WEEK 07** | **Understanding of Built Objects and Space in Relation to Human Scale** | | a)**Anthropometrics-**Students to study the dimensions of 5-10 objects of daily use and assess associated human scale.b)**Ergonomics-**To make freehand drawings of human figures using any 2 utility spaces and associated furniture (for eg-kitchens, toilets,bedroom etc.) | Human Scale Drawing-1:10 on A2 Cartridge Sheets | | Basic conceptualisation of Human Body and its activities |
| | **Studio 1** | **Lecture-1** | Introduction of terms **Ergonomics** and **Anthropometrics-**Importance of Human body in Design | | | | |
| | **Studio 2** | **Lecture-2** | Introduction of Standards in Library Publications and comparative analysis with respect to the students Physiognomy.(Orientation Lecture by SS) | | | 10 | |
| 8 | **WEEK 08** | **Understanding of Built Objects and Space** | | Studio Exercise - Students to measure the canteen and adjacent area draft it on A2 sheet and start doing anthropometric and literature study of functions related to the design problem.<br>Students will identify and work on the case study (1 primary and 1 secondary) abd cime up with their design concepts in the next studio | Mode of Presentation-A2 Cartridge sheets, scale 1: 20 | | Basic conceptualisation and modulation of space and understanding of segregation of space with the help of ongoing activity |
| | **Studio 1** | **Lecture-1** | Measured Drawings-canteen and surrounding area of our college campus Plan,Elevation and Sections | | | | |
| | **Studio 2** | **Lecture-2** | Introduction to Design Problem-**Food truck** | | | 10 | |
| 9 | **WEEK 09** | **Test Week** | | NA | NA | | NA |
| | **Studio 1** | **Lecture-1** | NA | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 10 | **WEEK 10** | **Design Exercise** | | Discussion of case studies | Mode of Presentation-A2 Cartridge sheets | | Introduction to design problem. Anthropometrics and ergonomics of human figure. Design Development 1 of the design problem |
| | **Studio 1** | **Lecture-1** | Design Development Stage-1 | | | | |
| | **Studio 2** | **Lecture-2** | Design Development Stage-1cont.. | | | | |
| 11 | **WEEK 10** | **Design Exercise** | | Discussion and maeking of case studies | Mode of Presentation-A2 Cartridge sheets | | Anthropometrics and ergonomics of human figure. Design Development 1 of the design problem |
| | **Studio 1** | **Lecture-1** | Design Development Stage-1 | | | | |
| | **Studio 2** | **Lecture-2** | Design Development Stage-1cont.. | | | 10 | |
| 12 | **WEEK 12** | **Design Exercise** | | Students to present and discuss the design (plans, sections, elevations) | Mode of Presentation-A2 Cartridge sheets and Block Model on 1: 20 | | Design Development 2 of the design problem |
| | **Studio 1** | **Lecture-1** | Design Development Stage-2 | | | | |
| | **Studio 2** | **Lecture-2** | Design Development Stage-cont.. | | | 20 | |
| 13 | **WEEK 13** | **Design Exercise** | | Students to present and discuss the improved design (plans, sections, elevations) | Mode of Presentation-A2 Cartridge sheets and Block Model on 1: 20 | | Design Development 2 of the design problem |
| | **Studio 1** | **Lecture-1** | Design Development Stage-cont.. | | | | |

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|---|---|---|---|---|---|---|---|
| | **Studio 2** | **Lecture-2** | Design Development Stage-cont.. | | | | |
| 14 | **WEEK 14** | **Prefinal Design Problem Submission** | | Students to present and discuss the improved design along with rendering (plans, sections, elevations) | Mode of Presentation-A2 Cartridge sheets and Model on 1:20 | | Predinal design submission |
| | **Studio 1** | **Lecture-1** | Design Development Stage-cont..(Prefinal submission) | | | | |
| | **Studio 2** | **Lecture-1** | marking on pending sheets/ models | | | 20 | |
| 15 | **WEEK 15-16** | **Final Portfolio Submission** | | | | | |
| | **Studio 1** | **Lecture-1** | Funal portfolio marking... | | | 20 | |

**Suggested Readings:-**


1.Ching, F.D.K.; Architecture Form, Space and Order, Van Nostrand Reinhold Staff, NewYork, 1996

2.Rudofsky,Bernard; Architecture without Architects,University of New Mexico Press, New Mexico

3.Rasmussen, Steen Eiler; Experiencing Architecture, The MIT Press, Cambridge,Massachusetts, 1977

4.Watson, Donald / Crosbie,Michael J.; Time Savers Standards for Architectural Design,Mc Graw Hill,New York, 2005

5.Chiara, Joseph De / Panero, Julius / Zelink Martin; Time Savers Standards for Interior design and Space Planning, Mc Graw Hill, New York, 2001

6.Harris, Charles W. / Dines, Nicholas T.; Time Savers Standards for Landscape Architecture, Mc Graw Hill, USA, 1998

7.Gideon, Siegfried; Space, time & Architecture, Harvard University Press

8.Robert Powell, “Tropical Asian House”, Select Books, 1999

9.Gill, Robert W.; Manual of Rendering with Pen and Ink, Thames and Hudson, London,1997

10. Alexander Christopher/Ishikawa Sara/Silverstein Murray;A Patter Language,Oxford University Press,New York,1977

11.Kennon,Paul;Pena,William;Wayne William,Architecture and You,Whitney Library of Design,NY,1981

12.DeBono Edward,"The Use of Lateral Thinking",Penguin Books Ltd,Harmondsworth,England,1967

**No.of Teaching Weeks: 16**
**Contact Hours: per week : L : 0 S: 6**
**Contact Hours: per sem : L : 0 S: 96**
**Credit: 06**
**Total Marks:100 (E=60 I=40)**

**Course Title: Architectural Design**
**Course Code: AP-102**
**Ist Year – 2023-24, Semester II**
**Course Coordinator: Saima Shakil**
**Studio Team: Saima Shakil, Saumya Kohli, Akash Sharma**

**Objectives:**

It is intended to introduce students to the process of design development through design of a small building by addressing all fundamental factors like orientation,anthropoemetrics, area calculations,circulation,structure and form etc.at an elementary level.

**Pedagogy:**

It will focus to equip the students to utilise visual images,through presentations (PPT) and via lectures. It will also encourage discussions,critiques and interactive sessions between students and teachers.The students will be empowered to develop skills for presentation and communication. They will be encouraged to read books, resulting in book reviews and to also attempt 3D-2D exercises, for improving visual stimulation.

**Expected Outcomes:**

The students are expected to develop senstivity towards design, and also technical understanding, as an aid to design. It is an endeavour to make students be able to relate to architecture as an extension of life and environment. The students will also be guided to use the relevant architectural drawing equipment, to be used with full knowledge of their capacity.

| S NO. | WEEK/ DATE | LECTURE /DISCUSSION | ACTIVITY | SUBMISSION | MARKS | EXPECTED OUTCOME |
|---|---|---|---|---|---|---|
| 1 | **WEEK 01** | **Orientation** | Warmup exercise- design my space. Students to design a space of about 100sqm and make a proposal for any pavilliom/ enclosure considering that it will be a part of their house (concept only) | A2 Cartridge sheet, Scale- 1:20 | | understand scale and propotion |
| | **Studio 1** | **Lecture-1** **Review of 1st Semester/Review on Anthropoemetrics** | | | | |
| | **Studio 2** | **Lecture-2** | | | 10 | |
| 2 | **WEEK 02** | **Visualisation & Analytical Skills** | Students to make the model of the proposed enclosure in the studio | 1:20 scale model submission | | Understanding the fundamentals of anthropoemetrics and scale |
| | **Studio 1** | **Lecture-1** **Review on Anthropoemetrics** | | | | |
| | **Studio 2** | **Lecture-2** | | | 10 | |
| 3 | **WEEK 03** | **Representaion of Ideas and Emotions Through Surveys and Interviews** | Students to be divided into groups (4 students each) and choose a profession out of the given professions. Psinter, vlogger/ influencer, photographer, Journalist Students to interview the chosen professionals and find out the activities and requirements of that professional | Questionire and outcomes of the interview om A3 sheet | | Understand how to find out the requirements of individsual while designing |
| | **Studio 1** | **Lecture-1** **Introduction to the design problem (Basic)** | | | | |
| | **Studio 2** | **Lecture-2** | | | 20 | |
| 4 | **WEEK 04** | **Design Exercise- Introduction** | Introduction of the House Problem-The objective wil be to introduce the students the process of design development through design of a small building for addressing all fundamental factors like Orientation,Anthropoemetrics,Area Calculations,circulation,form and structure.The Design Problem will be a residence which will be inhabited by a family of 3,to include 2 adults and a 16 year old boy with need to accomodate guests and considration for pandemic. | A3 sheet submission. | | Introduction of the Design Problem |
| | **Studio 1** | **Lecture-1** **Introduction to Design Problem-**House for an artist | | | | |
| | **Studio 2** | **Lecture-2** | | | Grade | |
| 5 | **WEEK 05** | **Representaion of Ideas and Emotions using 2D and 3D Techniques** | The site for the residence will be shared with the students.The area of the plot will be 7000sqm.The students will be required to study the site and will be | Site Analysis on A2 sheet and Case study presentaion on A3 | | Introduction to the site and site analysis and study of literature |

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| | **Studio 1** | **Lecture-1** | **Site Analysis and Area Programming/Introduction to Case Study-** Introduction to the site and discussion on design brief | guided to how to do basic site analysis and draw inferences to progress to the further stage.Students to do literature case-study in a group of 2 of a residence done by the list of master architects shared by the faculty in the studio. | | | Case-study |
| | **Studio 2** | **Lecture-2** | | | | 10+5=15 Marks | |
| 6 | **WEEK 06** | **Basic Aspects of Building Form and Space-Principles of Design** | | The students will be asked to make an A3 sheet comprising a digital or physical collage of ideas which will serve as the fundamental transition between an initial thought and a first thought. | Mood/Vision Board on an A3 sheet | | Introduction to conceptualisation and ideation. Learning how to prepare a mood/vision board for a project. |
| | **Studio 1** | **Lecture-1** | **Ideation and Conceptualisation-**Introduction to Mood Board to help establish a clear vision | | | | |
| | **Studio 2** | **Lecture-2** | | | | 10 | |
| 7 | **WEEK 07** | **Understanding of Built Objects and Space in Relation to Human Scale** | | Lecture on concept and design development processes in order to develop sensibility towards various design approaches. Students will explore deriving area programme through graphical representation. Students will generate ideas and concepts based on the research study conducted by them. | A2 sheet showing Site Analysis and Conceptual Derivation | | Concept Derivation |
| | **Studio 1** | **Lecture-1** | **Ideation and Conceptualisation-**Discussion on overall vision,understand the fundamentals through Case Studies | | | 10 | |
| | **Studio 2** | **Lecture-2** | | | | Total=15 | |
| 8 | **WEEK 08** | **Understanding of Built Objects and Space** | | Understand the fundamentals-Area Program and Circulation.Students will explore deriving area programme through graphical representation. Students will generate idea for overall planning based on their predesign studies and analysis. | A2 Cartrige Sheet | | Fundamentals of Zoning and Area Program |
| | **Studio 1** | **Lecture-1** | **Zoning and Area Programming-**Understand the fundamentals with the help of bubble diagrams | | | | |
| | **Studio 2** | **Lecture-2** | | | | Grade | |
| 9 | **WEEK 09** | **Test Week** | | N/A | N/A | | N/A |
| | **Studio 1** | **Lecture-1** | N/A | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 10 | **WEEK 10** | **Design Exercise** | | Design Development-Form and structure. Students will present their first design draft based on the understanding of various predesign studies and analysis and also by incorperating all the requirements based on the area program. | A2 Cartrige Sheet, floor plans on 1:50 | | DD-1 |
| | **Studio 1** | **Lecture-1** | **Design Development 1-**First draft with site zoning and floor plans along with elevations and sections | | | | |
| | **Studio 2** | **Lecture-2** | | | | Grade | |
| 11 | **WEEK 11** | **Design Exercise** | | Design Developmen-Services and Anthropometrics/Areas.Students will take crits from the faculty and review their design. | A2 Cartrige Sheet , floor plans on 1:50 | | DD-1 |
| | **Studio 1** | **Lecture-1** | **Design Development 1** | | | | |
| | **Studio 2** | **Lecture-2** | | | | 15 | |
| 12 | **WEEK 12** | **Design Exercise** | | Design Development-Site,Placement, Orientation. Students to present their design development based on the crits received and will integrate their detailed ground floor plans to the site plan and integarte all open and landscaped areas. | A2 Submission of sheets along with the block model on 1:100 | | DD-2 |
| | **Studio 1** | **Lecture-1** | **Design Development 2-**3D views, detailed site plans, site sections and landscape for complete site plan | | | | |
| | **Studio 2** | **Lecture-2** | | | | Grade | |
| 13 | **WEEK 13** | **Design Exercise** | | The student in DD-2 stage will detail their building roofs, elevations, landscape sections and justify all design parametres. | A2 Submission of sheets along with the block model on 1:100 | | DD-2 |

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|---|---|---|---|---|---|---|---|
| | **Studio 1** | **Lecture-1** | **Design Development 2-**3D views, detailed site plans, site sections and landscape for complete site plan | | | | |
| | **Studio 2** | **Lecture-2** | | | | 20 | |
| 14 | **WEEK 14** | **Review** | | Drawing Requirements:-Design Concept,Site Plan,Floor Plans, Elevations,Sections,views and other necessary details along with the model | A2 Submission of sheets along with the block model on 1:100 | 30 | Prefinal Submission |
| | **Studio 1** | **Lecture-1** | **Prefinal Submission-**Final changes to be incorperated and Pending submissions, Back log Reviews | | | 20 | |
| | **Studio 2** | **Lecture-2** | | | | Total=50 | |
| 15-16 | **WEEK 15-16** | **Final Submission** | | Drawing Requirements:-Design Concept,Site Plan,Floor Plans, Elevations,Sections,views and other necessary details along with the model | A2 Submission of sheets along with the model on 1:100 | 70 | Final Submission |
| | **Studio 1** | **Lecture-1** | **Final Submission with final Sheets (Presentation) and Model** | | | 30 | |
| | **Studio 2** | **Lecture-2** | | | | Total= 100 | |

**Suggested Readings:-**


1.Ching, F.D.K.; Architecture Form, Space and Order, Van Nostrand Reinhold Staff, NewYork, 1996

2.Rudofsky,Bernard; Architecture without Architects,University of New Mexico Press, New Mexico

3.Rasmussen, Steen Eiler; Experiencing Architecture, The MIT Press, Cambridge,Massachusetts, 1977

4.Watson, Donald / Crosbie,Michael J.; Time Savers Standards for Architectural Design,Mc Graw Hill, New York, 2005

5.Chiara, Joseph De / Panero, Julius / Zelink Martin; Time Savers Standards for Interior design and Space Planning, Mc Graw Hill, New York, 2001

6.Harris, Charles W. / Dines, Nicholas T.; Time Savers Standards for Landscape Architecture, Mc Graw Hill, USA, 1998

7.Gideon, Siegfried; Space, time & Architecture, Harvard University Press

8.Robert Powell, “Tropical Asian House”, Select Books, 1999

9.Gill, Robert W.; Manual of Rendering with Pen and Ink, Thames and Hudson, London,1997

10. Alexander Christopher/Ishikawa Sara/Silverstein Murray;A Patter Language,Oxford University Press,New York,1977

11.Kennon,Paul;Pena,William;Wayne William,Architecture and You,Whitney Library of Design,NY,1981

**No.of Teaching Weeks: 16**

**Contact Hours: per week : L : 2 S: 0**

**Contact Hours: per sem : L : 32 S: 0**

**Credit: 02**

**Total Marks:100 (E=60 I=40)**

**Course Title: History of Architecture**

**Course Code: AP-124**

**Ist Year – 2023-24, Semester II**

**Course Cordinator :Akash Sharma**

**Studio Team:Akash Sharma**

### Objectives:

To understand various building typologies and landscape emerging out of different ideologies and cultural practices in historical periods in India. To understand, primarily, the Essential, Conceptual Typological similarities in spite of stylistic variations.

### Pedagogy:

Lecture - Audio Visual, On board teaching, Presentation, Handouts, Interactive session, seminars etc… Tutorial -Presentation, Discussion, Case study, Live examples, Assignments Presentation by subject expert

### Expected Outcomes:

To give an overall understanding of the architecture, built/ unbuilt in Inida and sequential productions rising from the cumulative effect of forces operating and intersecting in the regions. To inform about specific and prominent modes of architecture in terms of evolution, function, morphology and character. To give exposure to works that are architecturally exemplary and/or representative. To appreciate architecture as giver of particular and universal meaning.

**TEACHING PLAN FOR SEMESTER II (Session 2021-22)**

| S NO. | WEEK/ DATE | LECTURE /DISCUSSION | | ACTIVITY | SUBMISSION | MARKS | EXPECTED OUTCOME |
|---|---|---|---|---|---|---|---|
| 1 | **WEEK 01** | **Sketchfile/Research** | | | | | |
| | **Studio 1** | **Lecture-1** | Introduction to the Syllabus<br>Discussion on History of Architecture in India in respective time periods. | Discussion on Indian History & Architecture | | | Students get an overview of syllabus |
| | **Studio 2** | **Lecture-2** | | | | | |
| 2 | **WEEK 02** | **Sketchfile/Research** | | | | | |
| | **Studio 1** | **Lecture-1** | Budhdhist Culture and practices, Timeline of Budhdhism and Its origin<br>Different Phases of development in India | Assignment<br>Assigned topics for the presentation | | 10 | Students get to understand Buddhist Culture |
| | **Studio 2** | **Lecture-2** | | | | | |
| 3 | **WEEK 03** | **Sketchfile/Research** | | | | | |
| | **Studio 1** | **Lecture-1** | Budhdhist Architecture and different typologies | Presentation on Typology<br>Focus on various case studies like sanchi, karli, ajanta, sarnath, etc | | | Students get to understand Buddhist Architecture |
| | **Studio 2** | **Lecture-2** | | | | | |
| 4 | **WEEK 04** | **Sketchfile/Research** | | | | | |
| | **Studio 1** | **Lecture-1** | Hindu Culture, rituals and practices, Hindu Temple architecture, | Presentation & discussion | Regular assessment of class work and Sketch Book | 10 | Students get to know about Hindu culture. practices. |
| | **Studio 2** | **Lecture-2** | Meaning and purpose of temple, forces and reason behind temple complexes | | | | |
| 5 | **WEEK 05** | **Topic of Study** | | | | | |
| | **Studio 1** | **Lecture-1** | North Indian Temple Architecture, explaination with various literature and live case studies | Presentation & discussion | | | Students are exposed to beauty of Indian Architectute |
| | **Studio 2** | **Lecture-2** | | | | | |
| 6 | **WEEK 06** | **Topic of Study** | | | | | |
| | **Studio 1** | **Lecture-1** | South Indian Temple Architecture, explaination with various literature and live case studies | Presentation & discussion | | | Students get an overview South Indian architecture |

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| | Studio 2 | Lecture-2 | | | | | |
| 7 | WEEK 07 | Topic of Study | | | | | |
| | Studio 1 | Lecture-1 | Discussion on Pilgrimage centres/ sites in India, relevance and purpose | Presentation & discussion | | | Students are aware of old heritage sites and pilgrimage centers |
| | Studio 2 | Lecture-2 | | | | | |
| 8 | WEEK 08 | Topic of Study | | | | | |
| | Studio 1 | Lecture-1 | Evolution of Islamic architecture in India, Timeline discussion as well as different regions, | Group Work<br>Assigned topics for the presentation | | 15 | Students get an overview of syllabus |
| | Studio 2 | Lecture-2 | Discussion on Indo- Islamic Architecture | | | | |
| 9 | WEEK 09 | Test Week | | | | | |
| | Studio 1 | Lecture-1 | MINOR TEST | | | 20 | |
| | Studio 2 | Lecture-2 | | | | | |
| 10 | WEEK 10 | Topic of Study | | | | | |
| | Studio 1 | Lecture-1 | Discussion on Case Studies related to the topics | Presentation & discussion | Individual Assignment Each student identify one or more buildings related to the topic | 10 | Enhances Students Curiosity |
| | Studio 2 | Lecture-2 | | | | | |
| 11 | WEEK 11 | Topic of Study | | | | | |
| | Studio 1 | Lecture-1 | Islamic Culture and practices<br>Different Architecture typologies in relation with various actvities | Presentation & discussion | Regular assessment of class work | | Students get an overview Islamic Arch |
| | Studio 2 | Lecture-2 | | | | | |
| 12 | WEEK 12 | Topic of Study | | | | | |
| | Studio 1 | Lecture-1 | Islamic Architecture region wise, North and South India | Presentation & discussion | Individual Case Study | 10 | Students get an overview Islamic Arch |
| | Studio 2 | Lecture-2 | | | | | |
| 13 | WEEK 13 | Review | | | | | |
| | Studio 1 | Lecture-1 | Mughal Architecture in specfic periods and areas, | Presentation & discussion | Regular assessment of class work | 10 | Students get an overview Mughal Arch |
| | Studio 2 | Lecture-2 | Focus on different typolgies and purpose of specifc areas | | | | |
| 14 | WEEK 14 | Review | | | | | |
| | Studio 1 | Lecture-1 | Presentation on assigned topics | | Presentation on assigned topics | 20 | |
| | Studio 2 | Lecture-2 | | | | | |

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|---|---|---|---|---|---|---|---|
| 15-16 | **WEEK 15-16** | **Review** | | | Continue...<br>Presentation on assigned topics<br>Assignments | | |
| | **Studio 1** | **Lecture-1** | Final Submission<br>Continue...<br>Presentation on assigned topics | | | 50 | |
| | **Studio 2** | **Lecture-1** | Question and Answer Session | | | | |

**Suggested Readings:-**


1 Brown, Percy, Indian Architecture, Buddhist and Hindu
2 Brown, Percy, Indian Architecture (Islamic Period)
3 Volwhasen Andreas, Architecture of the World: Indian & Islamic
4 Raeburn, Michael, Architecture of the Western World
5 Grover, Satish , History Indian of Architecture
6 Kostoff, Spiro, History of Architecture in India, Oxford University Press, New York, 1995
7 Tadgell, Christopher, The History of Architecture in India Paperback – 6 Jul 1994
8 Bannister Fletcher, History of Architecture
9 Nader Ardalan and Laleh Bakhtiyar, Sense of Unity,
10 Watkin, David, History of Architecture
11 Wittkower, Roger, Architecture of Humanism

**No.of Teaching Weeks: 16**
**Contact Hours: per week : L : 2 S: 0**
**Contact Hours: per sem : L : 32 S: 0**
**Credit: 02**
**Total Marks:100 (E=60 I=40)**

**Course Title: Environmental Studies**
**Course Code: AP-127**
**Ist YEAR – 2023-24, Semester I**
**Course Cordinator: Binita Tamboli**

**Objectives:**

The course provides a background on issues of built environment related to environment sustainability.the systematic relationship between buildings and settlements with natural ecosystems and natural resources are sought to be understood.

**Pedagogy:**

The study of this subject contains different data where reading and writing is important and assignments related to different topics are to be studied with the help of written notes produced during lectures in the class through presentations.Various DOCUMETRY-MOVIE-TALKS-NEWS STORIES will be shown keeping current envionmnetal issues in perspective.

**Expected Outcomes:**

Understanding the seriousness and values of our ecology and how a small negligence/ignorance can cost us everything. Understanding the interdependency of the man made and natural environment. Understanding the acts related to water air and the environment, to avoid man made disasters in future.

| S NO. | WEEK/DATE | LECTURE /DISCUSSION | | ACTIVITY | SUBMISSION | MARKS | EXPECTED OUTCOMES |
|---|---|---|---|---|---|---|---|
| 1 | **WEEK 01** | **Subject introduction** | | Word game play. general disscussion on envionmenatl issues and their knowledge of the same. **Vedio:Greta thunberg speech at COP 24** | Watch Movie :**The boy who harnes the wind** Movie based on true story | NA | Basic idea about the subject and its relevance in the field of achitecture |
| | **Studio 1** | **Lecture-1** | Introduction to concept of environment/ ecology and its components.Global warming, climate change isses and challenges-Loss of bio diversity, deforestation and desrtification. Disscusion on sustaiable deveolpment goles of UN and its importants | | | | |
| 2 | **WEEK 02** | **Ecosystem** | | Discussion on importance of biodiversity. discussing answers to what is eco system and its importance to our environment, how deforestation is becoming a curse to our growth of humans in terms of good health good air quality and other factors which are beneficial for human sustanence **Vedio: In consversation with Vandana shiva and cheepko movement** | Watch documentry : **Takeout :** Amazon forest deforestation **Wonded hills :** Envionmental issues on western ghat india | NA | Understand our Bio diversity and other related terms and its impact on out environment built and unbuilt. |
| | **Studio 1** | **Lecture-1** | Ecosystem- its structure,its development, function. Disscusion on eco system servises,bio-geo chemical cycls-Food chain and Importance of biodiversity | | | | |
| 3 | **WEEK 03** | **Climate change and Crabon cycle** | | Understading the eart atmosphere and its importatance. Disscussing the cyclick nature of all human activities and adverst effects of explotative uses of resourses. **Vedio:This country isn't just carbon neutral — it's carbon negative \| Tshering Tobgay** | Watch documentry : **Before the floods :** discuss the dangers of climate change and possible solutions. **What is carbon treading:**Talks about carbon market and trading Watch movie:**The core** | NA | |
| | **Studio 1** | **Lecture-1** | Energy cycles, ecological succession, climax concept, interrelation between natural and built environment in urban and rural settlement. Impact of Climate change and green house gas | | | | |
| 4 | **WEEK 04** | **Lethosphere and Terrestrial eco system** | | Understading the eart lethosphere and its importatance What are forest resources. how they are getting exploited through timber extraction, mining, etc.what are the complexity of such activities and how they impact the tribal and forest people. **Vedio:Eco India: Meet the barefoot hydro-geologists bringing dying Himalayan springs back to life** | Assignment 1 **Write essay on given topics** Vedio: **बढ़ते प्रदूषण के खिलाफ़ ग्रीन बिल्डिंग मूवमेंट Eco India: How the pattern of a beehive inspired the design for an affordable, natural air cooler** | 10 | Learning the demerits of overexploitation of our environment for our personal benefits. Unerstanding how architecture study can help improve the condition |
| | **Studio 1** | **Lecture-1** | Forest resources-use, over exploitation, deforestation, timber extraction, mining, dams( effects on forest & tribal people) | | | | |
| 5 | **WEEK 05** | **Relationship and importance of all terrestrial ecosystems** | | Discussing soil, its formation, its types and properties.how the specific soil is different in terms of uses in built environment. Understandin the nitrogen,sulfur and phosperas cycle **Vedio:Sand mining in Yamuna impacts the environment and livelihood Soil Erosion Round the World - Causes and Solutions \| Global 3000** | Vedio: **What are 'just transitions' for people and environment affected by mining in India?** Documnetry **Kiss The Ground** Movie: **Even almight** | NA | Basic understanding of the soil, its formation, its typology and how & where to make use of them for the betterment of our built environment. |
| | **Studio 1** | **Lecture-1** | SOIL- its formation, types, properties and importance in built environment. | | | | |
| 6 | **WEEK 06** | **Hydrosphere and aquatic eco system** | | **Vedio: The water Wives** Lectures on water as a resouces it sources and typology. impact of water pollution and its prevention & control. what is storm water? what are the measures to control storm water, storm water management. **Vedio: The story of Dhun-1 This man changed the fortunes of a barren land using traditional water wisdom.** | Vedio: **CPG Insights: What is Biophilic** Design? | NA | Understanding importance of Water in general and in the field of construction.to understand that envionmental issues creat social problems too. |
| | **Studio 1** | **Lecture-1** | WATER-sources, water cycle, resources, surface & ground water. Prevention and control of water pollution | | | | |

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| 7 | **WEEK 07** | **Urbanization and Envionmental degradation** | | Lectures on the finding of questions in relation to what are natural environment and what are built environment in the context of rural and urban.Effect of rapid urbanization on th envionment settlement.<br>Vedio: **The Story of a Red Dot: A film on urban biodiversity by TERI** | Assignment 2 : Uploading class notes Reading two articles individualy Article 1 on environmental issue/solution Article 2 on sustainable architecture practice | 10 | Understanding the interrelationship between the urban and rural environment |
| | **Studio 1** | **Lecture-1** | Rural -Urban context,Industrialization and dependence on rural resourseswatershed management, sustainable developemt- urban problems related to energy. | | | | |
| 8 | **WEEK 08** | **Natural resourses and disastre** | | Lecture on natural resourse, renewable resourse and Naturaal disastre and its worsoning situatun dew to climate change<br>Vedio: **Chennai becomes latest city to be hit by India's growing water crisis**<br>**The irony of living next to one of India's largest solar parks: Power cuts in Pavagada** | Vedio:**India's Renewable Energy Journey**<br>Documentry **: PBS Design e2 The Green Apple** Movie: **The day aftter tomorrow,Volcano, 2012** | NA | Undestang the indian scenario |
| | **Studio 1** | **Lecture-1** | Abiotic and biotic natural reourses and natural and man made disastre | | | | |
| 9 | **WEEK 09** | **Test Week** | | | | | |
| 10 | **WEEK 10** | **Pollution** | | Learning about pollution and its causes, and how its could be controled through proper measures and control strategies in the field of construction Vedio:**What is the cost of India's deadly air pollution? How We Can Keep Plastics Out of Our Ocean \| National Geographic Wash your hands, but what if the water is contaminated? The Story of the Village with Yellow Water.** | Assignment 3 Make 2 A3 size postre Article 1 on environmental issue/solution Article 2 on sustainable architecture practice<br>Movie: **Wall E, Erin brockovich** | 20 | Undestang the indian scenario |
| | **Studio 1** | **Lecture-1** | What is pollution what are its causes and impacts on environment. Discussion on types of pollutions | | | | |
| 11 | **WEEK 11** | **Case study disscusion** | | Review of indivisual postar and disscussion on all above session with case study example. Disscioson on embodied energy manufracturing energy life cycyle cost and operational energy | Vedio:**What is EIA and why is India's new EIA draft problematic?**<br>Vedio:**The tradeoffs of building green** | NA | Undestang the indian scenario |
| | **Studio 1** | **Lecture-1** | Dissussion on read article through potser | | | | |
| 12 | **WEEK 12** | **Case study disscusion** | | Review of indivisual postar and disscussion on all above session with case study example<br>vedio:**Can India Save The 'Dying' Ganga River?**<br>**Birds in Delhi ponds remind us why we should not ignore small urban wetlands** | vedio:**How to shade your windows for a cool home: Ep-0 1 New Vastu with Ashok B Lall** | NA | Undestang the indian scenario |
| | **Studio 1** | **Lecture-1** | Dissussion on read article through potser | | | | |
| 13 | **WEEK 13** | **Environment management measure** | | Play game where students are asked to be the authority and what could be their action against nay kingd of envionmental degradadtion Discussion on importance of EPA, forest act, wild life protection act, AIR act, WATER act Vedio:<br>**Narmada Bachao Andolan: How a 33-Year Old Movement Is Still Far From Over**<br>**1991 Right Livelihood Award Laureate Medha Patkar and the Sardar Sarovar Dam** | vedio:**Eco India: How viable is it to design and build an energy efficient 'green' home in India?**<br>**Rain water harvesting** | NA | Learning about the different acts and importance. Undestanding the social cost to development |
| | **Studio 1** | **Lecture-1** | Disscussing different institutional bodies and act for mangement porpouse. | | | | |
| 14 | **WEEK 14** | **Holiday** | | | | | |
| 15 | **WEEK 15-16** | **Sustaiable development** | | Disscussion on 3 stages where sustabinity can introduce in architecture.Design,Constrctution and opreation<br>Vedio:**Together for Clean Kochi - Source Segregation for SWM, Kochi, Kerala**<br>**Eco India: Treating sewage water to make it drinkable could hold the answer to Delhi's water woes**<br>**ilivesimply movement: CALLING FOR PARTNERS** | Vedio: **How Indore Is Becoming Garbage-Free \| Cleanest City In India Massive ! Fully automatic wastewater treatment plant in Delhi** | NA | learning about sustainable development pracitse in architecture |
| | **Studio 1** | **Lecture-1** | Reuse ,reduse , recycle in architecture Life style change that required for sustainable development overall | | | | |

**Suggested Readings:-**

The World Without Us (Hardcover) by Alan Weisman

The Death of Nature: Women, Ecology, and the Scientific Revolution (Paperback) By Carolyn Merchant

**No.of Teaching Weeks: 16**
**Contact Hours: per week : L : 0 S: 8**
**Contact Hours: per sem : L : 0 S: 128**
**Credit: 08**
**Total Marks:100 (E=50 I=50)**

**Course Title: Architectural Design**
**Course Code: AP-202**
**IInd YEAR – 2023-24, Semester IV**
**Course Cordinator : Sarika**
**Studio Team:Sarika, Saima, Saumya**

## Objectives:

To learn designing with explicit respect or reference to a larger socio cultural or environmental setting with context- urban or rural, traditional or contemporary and to identify the various cultural activities and identities of the city in order to deal with them through new emerging ideas without disturbing the fabric of the city. Eco Tourism: The deisgn program will specially sensitise students to a niche and demanding category of tourism that promotes responsible travel & natural conservation

## Pedagogy:

The studio would begin with interactive sessions and discussions on sensitive apprach of the design program. This would be achieved through technical and analytical reaserch of various literature studies, topographical and contoure analysis, Guest lectures and audio visual presentations by the faculty. Predesign studies in the form of literature and case studies will enable the students with essential knowledge and tools to venture into conceptualising the building. Three dimensional modelling to understand the volume and scale of the proposed building will help students visualise spaces and go through various design development to eventually furnish various presentation drawings including concept drawings, plans, elevations, sections, 3-D views, architectural details and so on. The whole process of design development will be interspersed with time problems whenever feasible.

## Expected Outcomes:

1. The students are expected to learn both matter and mind of the program, and derive architectural solution for Natural conservation & community based deisgn problem. 2. Ability to apply specific elements of architecture to give desired character and identity to the building considering context and sustainabilty in mind. 3. Understanding and applying the characteristics of circulation within and between different functions in buildings for public use and develop site plans accordingly. 4. To understand government policies and initiatives taken for the development of such centres. 5. To Aspire to create a strong functional program for creating a model Community Primary School of self reliance and envrionmental nurturing.

| S NO. | WEEK/DATE | LECTURE /DISCUSSION | | ACTIVITY | SUBMISSION/ DELIVERABLE | MARKS | EXPECTED OUTCOME |
|---|---|---|---|---|---|---|---|
| 1 | **WEEK 01** | **Predesign Stage** | | Students are engaged in a dialogue based on their understanding of site with respect to various context . socio-cultural environment, nature related stories, food, biodiversity and aventure experinces. The students draw sketches and mind mapping or idea Generation step. | online study,sketches & photographs | | They express their emotions, imaginations, memories through a series of sketches, write ups and photographs. We condition thier minds about site contours |
| | **Studio 1** | **Lecture-1** | Introduction of Design Problem on SOCIO-CULTURAL-CENTRE AT Near @ Amer Rd, Jal Mahal, Amer, Jaipur, Rajasthan<br>A Center for Community & Culture<br>. Lecture: Design Vision, Introduction of site & Detailed design Problem | | | Grade | |
| | **Studio 2** | **Lecture-2** | Introduction of Design Problem SITE CONTEXT, contours site,Areas and FACILITIES.Give Instructions on Design Requirements and Challenges. | | | | |
| 2 | **WEEK 02** | **Predesign Stage<br>Literature Study+case study+site study<br>Contextual Interpretation** | | SOCIO- CULTURAL-CENTRE : Students will be introduced to different aspects of slope and contour study. They will analyse and question sketches, sectional analysis introduced by the faculty. Group Study - ( Design Group )- Site Analysis- short hill sections ( multiple) ( propose building block), contour analysis, climate & wind, material pallete-SWOT-literature study | | | Questionare-discussion- Analysis after presentations. Converting faculty input into their site study exercises. |
| | **Studio 1** | **Lecture-2** | Lecture on - Study of Slope & Construction techinque Analysis - Introduction of model Making ( site Model)- Scale of Model & sheets ( Discussion on case studies) | | | | |
| | **Studio 2** | **Lecture-2** | Group Study - ( Design Group )- Site Analysis- short hill sections ( multiple) ( propose building block), contour analysis, climate & wind, material pallete-SWOT-literature study | | | | |
| 3 | **WEEK 03** | **Predesign Stage** | | Literature research topics like : Rural villages of himachal - village study, topographical study of mountains/terracin study, local build heritage & construction techniques, local flora & fauna ( ecological impact), water conservation initiative in hills etc. Students divided into groups will present their literature studies through the week, which would be composed on A1 sheets. | A1 Sheets composed with graphical analysis, flowchards, sketches, sections and images. | | Creating a thick in depth analysis through all ten topics of lietature anaylis. |
| | **Studio 1** | **Lecture-1** | Discussion of Analysis & Submission of Literature Studies. | | | 10 | |
| | **Studio 2** | **Lecture-2** | Discussion of Analysis & Submission of Literature Studies. | | | | |
| 4 | **WEEK 04** | **Predesign Stage** | | Students will discuss their regional & international case studies and discuss their learning. The Group Design Team will each elaborate on their derivate Design Program and outline their fat vision for the site. | A1 Sheets composed with graphical analysis, flowchards, sketches, sections and images. | | Students will document the inspired projects and create a vision board for their projects. |
| | **Studio 1** | **Lecture-1** | SOCIO- CULTURAL-CENTRE :Submission of Case studies , Area Program study & Analysis- Group Design Vision based on case studies | | | 10 | |
| | **Studio 2** | **Lecture-2** | Submission of Case studies , Area Program study & Analysis- Group Design Vision based on case studies | | | | |
| 5 | **WEEK 05** | **Design Development-1** | | Lecture on concept and design development processes. Students will explore deriving area programme through graphical representation. Students will generate idea sections, block models, sketchup 3d interventions for overlall massing. | | | Students will learn to freeze master plan blocks,orientation, site USP, slope development, volumetric development and integarted landscape design. |
| | **Studio 1** | **Lecture-1** | Concept & Master Plan zonning- Over all vision, Block model, sketches | | | | |
| | **Studio 2** | **Lecture-2** | Concept & Master Plan zonning- Over all vision, Block model, sketches | | | | |

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|---|---|---|---|---|---|---|---|
| 6 | **WEEK 06** | | **Design Development-1<br>Conceptual Articulation** | The site plan will be detailed with final critical building forms, landscape connections, nallah development ideas and overall planning scheme.<br>Philosophical Concept, Morphological Concept WITH AREAS<br>Translation into Form and Functional configuration. (Sketches, Forms, site plan , Models,<br>Block Model) | A1 Sheets with Detailed site plan and supporting model/3d views | | Students will learn to freeze master plan blocks,orientation, site USP, slope development, volumetric development and integarted landscape design. |
| | **Studio 1** | **Lecture-1** | Site plan with Landscape development with contours study,levels and site context | | | 15 | |
| | **Studio 2** | **Lecture-2** | 25/3/21-Site plan with Landscape development with block model | | | | |
| 7 | **WEEK 07** | | **Design Development-2** | sketches of the master planning including all contour development. The student in DD-2 stage will detail their building roofs, elevations, landscape sections and justify all eco tourism parametres. | | | Students will develop the architectural master plan through levels considerations. |
| | **Studio 1** | **Lecture-1** | detailed site plans, site sections and landscape for complete site plan (scale 1:250) | | | | |
| | **Studio 2** | **Lecture-2** | detailed site plans, site sections and landscape for complete site plan (scale 1:250) | | | | |
| 8 | **WEEK 08** | | **Design Development-2** | Students will begin exploring individually their approved dedicated part site area and building blocks through detailed floor plans, sections and landscaoe details. | A1 Sheets with Detailed site plan and supporting model/3d views | | Students will individually explore and grow their own part site plans and building blocks showcasing their individual growth as a designer. |
| | **Studio 1** | **Lecture-1** | Individual block details, sections , elevations (scale 1:100) | | | 15 | |
| | **Studio 2** | **Lecture-2** | Individual block details, sections , elevations (scale 1:100) | | | | |
| 9 | **WEEK 09** | | **Design Development-3** | Students will integrate their detailed ground floor plans to the master plan and integarte all open and landscaped areas.<br>Drawings: Site Plan, Plans,<br>and Details. (Use SINGLE Line, Furniture Layout,<br>Labelling, Dimensions, Hatching, Annotation Etc)<br>Photoshop Rendering Not permitted | | | Students will revisit the master plan with their individual block design details and finish it for the final presentation |
| | **Studio 1** | **Lecture-1** | Integration of all detailed blocks in the final site plan. Final changes to be incorporated | | | | |
| | **Studio 2** | **Lecture-2** | Integration of all detailed blocks in the final site plan. Final changes to be incorporated | | | | |
| 10 | **WEEK 10** | | **Design Development-3** | Students will integrate their detailed ground floor plans to the master plan and integarte all open and landscaped areas.The students will begin creating presentation sheets supported through revised 3d- views, walkthroughs, rendered floor plans, rendered sections & elevations. | A1 Sheets with Detailed site plan and supporting model/3d views | | Students will revisit the master plan with their individual design details and finish it for the final presentation |
| | **Studio 1** | **Lecture-1** | All floor plans with building sections, detailed individual models, final site plan, landscape details including levels | | | 15 | |
| | **Studio 2** | **Lecture-2** | All floor plans with building sections, detailed individual models, final site plan, landscape details, 3d views/sketches | | | | |
| 11 | **WEEK 11** | | **Review** | Students will do a pinned up studio presentation with all process sheets, models and 3d views/sketches | Studio submissions | | Students will concentrate on the presentation drawings and describing the entire project through their group and indiviudal studies and interventions. |
| | **Studio 1** | **Lecture-1** | Architectural Design Development Portfolio with building model | | | 15 | |
| | **Studio 2** | **Lecture-2** | Architectural Design Development Portfolio with building model | | | | |
| 12 | **WEEK 12** | | **Test Week** | NA | NA | | |
| | **,Studio 1** | **Lecture-1** | NA | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 13 | **WEEK 13** | | **Review** | All unmarked submission if any would be reviewed in this week. Students will get the final chance to clear their back log submisisons. | | | Revisiting all work lags and individual doubts will help student observe their project in new light and resolve the issues. |
| | **Studio 1** | **Lecture-1** | Pending submissions, Back log Reviews | | | | |
| | **Studio 2** | **Lecture-2** | Pending submissions, Back log Reviews | | | | |
| 14 | **WEEK 14** | | **Review** | All unmarked submission if any would be reviewed in this week. Students will get the final chance to clear their back log submisisons. | | | Revisiting all work lags and individual doubts will help student observe their project in new light and resolve the issues. |
| | **Studio 1** | **Lecture-1** | Pending submissions, Back log Reviews | | | | |
| | **Studio 2** | **Lecture-2** | Pending submissions, Back log Reviews | | | | |
| 15 | **WEEK 15** | | **PRE-FINAL** | Students will do a pinned up studio presentation with all process sheets, models and 3D views/sketches | Studio submissions | | Students will concentrate on the presentation drawings and describing the entire project through their group and indiviudal studies and |
| | **Studio 1** | **Lecture-1** | Architectural Design Development Portfolio with building model | | | 20 | |

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| | **Studio 2** | **Lecture-2** | Architectural Design Development Portfolio with building model | | | | interventions. |
| 16 | **WEEK 16** | **Final Submission** | | Students will do a pinned up studio presentation with all process sheets, models and 3D views.<br>Final Detailed Drawings<br>Detailed Models<br>Final portfolio<br>(hand made or digital Rendering, Views, sketches,3d views etc allowed) | Studio submissions | | Students will concentrate on the presentation drawings and describing the entire project through their group and indiviudal studies and interventions. |
| | **Studio 1** | **Lecture-1** | Architectural Design Development Portfolio with building model | | | 20 | |
| | **Studio 2** | **Lecture-2** | Architectural Design Development Portfolio with building model | | | | |

**Suggested Readings:-**


1 https://www.greeneconomycoalition.org/news-analysis/sikkims-eco-tourism-evolution
2 http://www.sikkimforest.gov.in/reports%20and%20publications/100years/100%20years%204.pdf
3 Importance of Ecotourism in India- Research Gate
4 Ching, F., Architecture, form, space and order, New York, Van Nostrand Reinhold staff 1996
5 Haris, C.W., Time savers standards for landscapeArchitecture, USA., Mc Graw hill, 1998
6 Rasniussen, S.E.,(1077), Experiencing Architecture, Cambridge,Massachusetts: The MIT press 1997
7 Watson, D.I., Time savers standards for Architecturall Design, New York: Mc Graw Hill 2005

**No.of Teaching Weeks: 16**
**Contact Hours: per week : L : 0 S: 5**
**Contact Hours: per sem : L : 0 S: 80**
**Credit: 05**
**Total Marks:100 (E=50 I=50)**

**Course Title: Building Construction**
**Course Code: AP-203**
**IInd YEAR – 2023-24, Semester III**
**Course Cordinator: Sheily Shrivastav**
**Studio Team: Sheily, Jyoti, Sarika**

## Objectives:

Learning the process and techniques of RCC Construction from the sub struture to the super structure for a G+1 building with a basement and terrace details."Learning the process and techniques of RCC Construction for a single storey building including basement and all the necessary details of substructure and superstructure.

## Pedagogy:

The studio would begin with interactive sessions and discussions on various construction materials and techniques that are used nowadays and why RCC is so widely used in construction. The students would visit sites regularly and maintain an A3 size sketch book containing information about sitevisits and with all other details and learnings.
The students would be encouraged to understand Indian standard codes for RCC works and learn how are these applied for different scales of projects. All the students would be divided into groups (3 students in each group) and make PPT on the topics that would be covered in the studio followed by the lecture from the faculty.

## Expected Outcomes:

1. The students are expected to learn and understand about RCC; its properties, advantages/ disadvantages and the construction techniques involved.
2. To learn the details involved in RCC construction from foundation level to the terrace level.
3. To learn to corelate and convert an onsite RCC detail to a drawing
4. The students will be aquinted with the various types of waterproofing systems,retaining wall,types of floorings with construction details in the form of reports and drawing sheets at the end of the semester.

| S NO. | WEEK/DATE | LECTURE /DISCUSSION | | ACTIVITY | SUBMISSION | MARKS | EXPECTED OUTCOME |
|---|---|---|---|---|---|---|---|
| 1 | **WEEK 01** | **Sketchfile/Research** | | Recap of previous semester, Presentation on RCC Building components and step by step construction methods by faculty.The class will be divideded into groups of 4 along with the dessimination of the topics.They would be expected to research and prepare a presentation over the semester on the same. | | | Enabling the students with the coursework along with the introduction to RCC Building Components.<br><br>understanding on RCC framed structure |
| | **Studio 1** | **Lecture-1** | Introduction to the syllabus and the methodology of the coursework to be conducted and the expected deliverables. | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 2 | **WEEK 02** | **Sketchfile/Research** | | The students will be briefed about the general layout plan of a single storey building with basement.They will sketch the layouts in the sketchbook on a scale showing structural components along with other construction details and get their respective work approved within the studio hours. | Layout in the form of sketches to be done in the sketchbook. Studio Marking will be done on the basis of discussion and quality of work. | Grade | Floor Plans including basement, Grid-lines, columns placement (sketches) |
| | **Studio 1** | **Lecture-1** | Lecture on Structural component of RCC showing basic framing plan,gridlines,column sizes and marking of beams,demarkation of structural component | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 3 | **WEEK 03** | **Sketchfile/Research** | | **Deliverable -1**-Drafted floor plans showing RCC components and schematic elevation and section.<br>Students to sketch foundation details at plan level.Type of RCC Foundations in framed structure – stepped, isolated, combined and cantilevered footing, RCC footing and raft, pile foundation; Selection foundation type; Safe bearing capacity of soils and methods of improvements; Depth and width of foundations; Causes and failure and remedies . | A1 Cartridge sheet submission (2-3 sheets) | 20 | Layout plans-basement, ground-floor,first floor and terrace plans:<br>To familiarize the students with methods of detailing different parts of building in RCC. |
| | **Studio 1** | **Lecture-1** | RCC-Basic properties and its abilities to get moulded into unconventional objects and Introduction on Types of Foundations. | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 4 | **WEEK 04** | **Sketchfile/Research** | | Students to sketch types of foundation details(spread,eccentric,combined and raft footings) showing connection details, sectional details at various levels in the studio hours.<br>Students to discuss their drafted sheets. | Sketches to be uploaded in their respective shared folders for studio marking. | Grade | Foundation plans and section details,Formwork for column and beams & Shuttering for slab and cantilever |
| | **Studio 1** | **Lecture-1** | Lecture on Construction details of Substructure level (by expert) and formwork:development of RCC, frame construction and its impact on architecture | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 5 | **WEEK 05** | **Topic of Study** | | **Deliverable 2-**Foundation plan of the proposed layout plan with sections and details.<br>Students to sketch and integrate basement details on the proposed layouts based on the lecture delivered in the class. | A1 Cartridge sheet submission (2-3 sheets) | 20 | Basement and Retaining wall, sunken areas and waterproofing details |
| | **Studio 1** | **Lecture-1** | Lecture on Basements including retaining walls, sunken areas,waterproofing,sections and details | | | | |

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| | **Studio 2** | **Lecture-2** | | | | | |
| 6 | **WEEK 06** | | **Topic of Study** | Students to sketch construction details and integrate all the new details learned during the lecture in the layout plans and sections.<br>Preliminary discussion on the given presentation topics.<br>Construction Machinery & Equipments: To study the availability, constituents, properties, manufacturing processes, storage, transportation and applications of above mentioned materials. | Sketches to be uploaded in their respective shared folders for studio marking. | Grade | Construction details at various levels: Construction Machinery & Equipments: various construction equipments required for speedy and effective construction |
| | **Studio 1** | **Lecture-1** | Lecture on Construction details of Superstructure level -Plinth beam,colums, beams,slab,(drop slab and sunken slab) sections and details | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 7 | **WEEK 07** | | **Topic of Study** | **Deliverable 3**-Sectional details along with blow-up details from foundation to terrace level including elevation sectional details.<br>Students to sketch and integrate all the new learnings in the form of details from the lecture in the sketchbook. | A1 Cartridge sheet submission (2-3 sheets) | 20 | RCC Staircase sections and construction details:Detailed Drawings and construction details to be made for any RCC Stairs. |
| | **Studio 1** | **Lecture-1** | Lecture on RCC Staircase sections and construction details at foundation level and floor level,Types of Staircase | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 8 | **WEEK 08** | | **Topic of Study** | Mid-semster review work with stage 02 ppt discussions with students, discussions on various details at terrace level.Guidance on sheets till that stage. Give them instructions for market survey for other details. | Sketches to be uploaded in their respective shared folders for studio marking. | Grade | Terrace Sectional details and other related construction details:Expansion joints.Special Construction joints. Seismic joints. |
| | **Studio 1** | **Lecture-1** | Lecture on Construction details of Terrace-projection detail,shaft,parapet and elevation details/introduction on basic waterproofing details | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 9 | **WEEK 09** | | **Topic of Study** | **Deliverable 4**-Group presentation through online platform to express various construction activities and processes.discussion on flooring types Brick, Cement Concrete, Stone, Terrazzo, Chequered Tile, Ceramic Tile, Vitrified Tiles, Wooden | A1 Cartridge sheet submission (2-3 sheets) | 20 | Flooring and sub-flooring sections and details: Market Surveys, Seminars & Report |
| | **Studio 1** | **Lecture-1** | Lecture on Flooring and Sub-flooring details Classification, Availability, Characteristics and Uses | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 10 | **WEEK 10** | | **Topic of Study** | **Deliverable 5**-Sectional details along with blow-up details of staircase,terrace, toilets,flooring,projection,shafts,parapet level including elevation sectional details. Review of all the sheets for improvement if any for final portfolio submission. | Sketches to be uploaded in their respective shared folders for studio marking. | Grade | Waterproofing types and details & advanced waterproofing detailing: Basements, Toilets, Kitchens, Terrace gardens |
| | **Studio 1** | **Lecture-1** | Guest lecture on conventional and new age waterproofing methods in construction | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 11 | **WEEK 11** | | **Prefinal** | Discussion through ppt on intergration methods of varous services in RCC buildings from design and construction stages. | A1 Cartridge sheet submission (2-3 sheets) | 20 | Services in RCC buildings:virtual study tour to construction sites or similar projects |
| | **Studio 1** | **Lecture-1** | Lecture on Integration of services in RCC structures/building through various examples & causes and remedies of various defects in new construction. | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 12 | **WEEK 12** | | **Review** | Lecture and demonstrations on scale model making process for construction studios.Give them some exmaple for part constructions model majorly types of foundations and RCC building components connections at various levels. | Sketches to be uploaded in their respective shared folders for studio marking. | Grade | Model making to understand construction steps and details |
| | **Studio 1** | **Lecture-1** | Introduction to model making exercise showing structural components (group work) | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 13 | **WEEK 13** | | **Review** | **Deliverable 6**-Students to make a model of footing to terrace level section including raft footing, plinth beam, sunken slab etc. and submit it.<br>The emphasis will be construction details as applicable to Indian conditions. | A1 Cartridge sheet submission (2-3 sheets) | 20 | Model Review and its understanding in context with learning out comes of constructions model and its applications |
| | **Studio 1** | **Lecture-1** | Lecture on Live Ongoing RCC projects: Exposure to construction site through online portal & building construction practices on site. | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |

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| 14 | **WEEK 14** | **Review** | | Students work assesment by taking foundation to terrace construction details.<br>Give them instructions and crits on various heads under deliverable 1 to 6. | Sketches to be uploaded in their respective shared folders for studio marking. | 30 | Review of sheets and model for the final submission along with all sketche |
| | **Studio 1** | **Lecture-1** | Portfolio review + Comments to be implemented + revised/ improved sheets + discussion on all the work | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 15 | **WEEK 15-16** | **Final Submission** | | **Deliverable 8**-Students to submit their final portfolios for marking and review. | A1 Cartridge sheet submission<br>Studio marking | 50 | Final Portfolio |
| | **Studio 1** | **Lecture-1** | Portfolio submission-Review and comments | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |

**Suggested Readings:-**


1. Berry, R., The Construction of Buildings Barry, R. Construction of Buildings, East West Press Pvt.Ltd., New Delhi, 1999
2. Mckay, W.B.; Building Construction (Vol. I, II, III & IV), Orient Longman, London,1988
3. Allen, Edward., Fundamentals of Building Construction : Materials and Methods, John Wiely & Sons, New York, 1999
4. Punamia B.C., Building Construction, Laxmi Publications (P) Ltd, New Delhi, 1993
5. Chudley, R.; Building Construction Handbook, Butterworth Heinemann, Oxford, 1988
6. Published material from HUDCO, CBRI (Roorkee), Development Alternatives, etc

**No.of Teaching Weeks: 16**
**Contact Hours: per week : L : 2 S: 0**
**Contact Hours: per sem : L : 32 S: 0**
**Credit: 02**
**Total Marks:100 (E=75 I=25)**

**Course Title: History Of Architecture III**
**Course Code: AP-223**
**IInd YEAR – 2023-24, Semester III**
**Course Cordinator: Saumya Kohli**

## Objectives:

The objective is to recognize the most important categories of Pre-Industrial Architecture of Europe during Medieval Period and Renaissance and to understand the process of history in its making, and the markers it leaves behind and their subsequent interpretations.The course aims to develops critical tools for the analysis and appreciation of architecture, for its role in the intellectual environment in which we conduct our lives and will also enable students to do a comparitative evaluation of developments in a chronological manner along the timeline and across different geographies.

## Pedagogy:

Lecture - Audio Visual, Online teaching, Presentation, Handouts, Interactive session, seminars etc. along with Tutorial,Presentation, Discussion, Case study, Live examples, Assignments Presentation by subject expert.An effort will be undertaken to enable the students to appreciate tangible and intangible aspects of heritage associated with history and to provide an understanding of the Architecture in its various stylistic modes, characterized by technology,ornamentation and settlement planning practices. An attempt will be made to integrate History of Architecture with Art and appreciation studio.

## Expected Outcomes:

The students are expected to have an overall understanding of the European architecture and sequential productions rising from the cumulative effect of forces operating and intersecting in the regions along with being informed about specific and prominent modes of architecture in terms of evolution, function, morphology and character. They will have exposure to works that are architecturally exemplary and/or representative and must be enabled to appreciate architecture as giver of particular and universal meaning by the end of the semester.

| S NO. | WEEK/DATE | LECTURE /DISCUSSION | | ACTIVITY | SUBMISSION | MARKS | EXPECTED OUTCOME |
|---|---|---|---|---|---|---|---|
| 1 | **WEEK 01** | **Sketchfile/Research** | | Introduction to the syllabus, course delivery plan,requirements of the subject and evaluation system.Time-line of Pre-Industrial Architecture of Europe during Medivial Period and Rennaissance-Introductory discussion on European Counteries and its Architecture. | 1.Seminar by students to be conducted on the given topics 2.Sketchbook/ scrapbook of A4 size to be maintained having sketches, articles, photoes of the Medivial European Architecture. | | Understanding of Pre-Industrial Architecture in Europe |
| | **Studio 1** | **Lecture-1** | Introduction to Pre-Industrial Architecture of Europe-Early Christian Romanesque Architecture | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 2 | **WEEK 02** | **Sketchfile/Research** | | Presentation on development of Early Christian Architecture. Discussion on History and its imperatives,evolutions, adaptation of basilica form, Orthodox Christian, Byzantine &, Venice, Constantinople. Christian Architecture and its deveopment. | Students to be divided into groups and prepare a presentation on given topics of Byzantine architecture for the next class. | | Understanding of Pre-Christian Architecture, salient features, architectural characterstics and typical examples |
| | **Studio 1** | **Lecture-1** | Pre-Christian Architecture and Baslican church types and introduction to byzantine architecture | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 3 | **WEEK 03** | **Sketchfile/Research** | | Presentation on Byzantine Architecture by students on the following:- Construction technology,typical examples in Revenna,Venice and Constantinople and discussion on the main architectural features | Students to be divided into groups and prepare a presentation on given topics of Romanesque architecture for the next class. | Grade | Understanding of Byzantine Architecture, salient features, architectural characterstics and typical examples |
| | **Studio 1** | **Lecture-1** | Byzantine Architecture at Contantinople and Venice,Introduction to Romanesque Architecture | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 4 | **WEEK 04** | **Sketchfile/Research** | | Lecture and discussion on Romanesque Architecture and its components with typical examples like Leaning Tower of Pisa,Durham Cathedral. | | | Understanding of Romanesque Architecture, salient features, architectural characterstics and typical examples |
| | **Studio 1** | **Lecture-1** | Romanesque Architecture and its components | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 5 | **WEEK 05** | **Topic of Study** | | Lecture and interactive session on Gothic Architecture and its evolution. Ecclesiastical Gothic Architecture in Continental Europe and | **Assignment-01** Answer the questions based on the topic undertaken and | 20 | Understanding of Gothic Architecture, salient features, |

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| | **Studio 1** | **Lecture-1** | Gothic Architecture in Continental Europe and England | England.Presentation by students on Romanesque architecture. | submit sketches related to the same on an A4 sheets | Grade | architectural characterstics and typical examples |
| | **Studio 2** | **Lecture-2** | | | | | |
| 6 | **WEEK 06** | **Topic of Study** | | Students to discuss on Ecclesiastical Gothic Architecture in Continental Europe and England based on lecture received. Reasearch on Great Cathedrals - Notre Dam, Canterbury, etc.Development of Churches,Cathedrals, etc. | Students to be divided into groups and prepare a presentation on given topics of Gothic architecture typical examples for the next class. | | Understanding of Gothic Architecture, salient features, architectural characterstics and typical examples |
| | **Studio 1** | **Lecture-1** | Great Cathedrals at Notre Dame in Paris, Cantebury Cathedral in Cantebury,Kent | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 7 | **WEEK 07** | **Topic of Study** | | Discussion on advent of Renaissance in Europe and impact on Architecture. Importance of Renaissance Architecture | | | Introduction to Renaissance Architecture |
| | **Studio 1** | **Lecture-1** | Advent of Early Rennaissance Architecture | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 8 | **WEEK 08** | **Topic of Study** | | Group-work on Early to High Renaissance, St.Maria Del Fiore,Florence, Late Renaissance, Michelangelo, Palladio, St. Peters (Rome). St. Paul's (London). Discussion on various famous artists and their work. | The class will be divided into 8 groups (4 groups). All the groups will give the presentation on the given topic | Grade | Famous works and acheivements of Early Renaissance Period. |
| | **Studio 1** | **Lecture-1** | Early Rennaissance Period with example of Cathedral of St.Maria Del Fiore at Florence | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 9 | **WEEK 09** | **Topic of Study** | | Research-Work and discussion to be done in groups on Late Rennaissance Period | **Assignment-02** Answer the questions based on the topic undertaken and submit sketches related to the same on an A4 sheets | 20 | Famous works and acheivements of Late Renaissance Period. |
| | **Studio 1** | **Lecture-1** | Late Rennaissance Period-Architecture of St. Peters in Rome,famous artists,architects and their famous works of this style | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 10 | **WEEK 10** | **Topic of Study** | | Presentation to be done on Baroque-Early, High, Late, Rococo by the students based on their respective topics of research-work Discuss St.Pauls London, Neo-Classical | Powerpoint Presentation in groups showing famous works of various artists of renaissance period | 30 | Famous works and acheivements of Late Rennaissance , Baroque and Rococco Period. |
| | **Studio 1** | **Lecture-1** | Late Rennaissance Period-Famous artists of the style,Michelangelo,Palladio and their famous works | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 11 | **WEEK 11** | **Topic of Study** | | Research Work on European Architecture in Colonial India -I Goa Portuguese French Pondicherry Focus: Forts Church | | | Famous works and acheivemnts of Baroque and Rococo Period. Comparitive analysis of all the undertaken movements. |
| | **Studio 1** | **Lecture-1** | Baroque style,St.Pauls London,Rococco style, Neo-Classical movement and its famous works | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 12 | **WEEK 12** | **Prefinal** | | Class Discussion on European Architecture in Colonial India-II Madras, Calcutta, Bombay Cantonments Hill Stations Focus: Port Fort Church, Institutions, Bungalows, Barracks. | **Assignment-03** Answer the questions based on the topic undertaken and submit sketches related to the same on an A4 sheets | 20 | Architecture in Colonial India |
| | **Studio 1** | **Lecture-1** | European Architecture in Colonial India-I- Goa, Portuguese,French,Pondicherry, Focus-Fort and Church | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 13 | **WEEK 13** | **Review** | | Discussion on Forts and Churches constructed in Colonial Era | | | Architecture in Colonial India and typical examples. |
| | **Studio 1** | **Lecture-1** | European Architecture in Colonial India-I- Goa, Portuguese,French,Pondicherry, Focus-Fort and Church | | | | |

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| | **Studio 2** | **Lecture-2** | | | | | |
| 14 | **WEEK 14** | **Review** | | European Architecture in Colonial India-II-Madras,Calcutta,Bombay Contonements Hill Stations | **Assignment-04** Answer the questions based on the topic undertaken and submit sketches related to the same on an A4 sheets | 20 | Architecture in Colonial India and typical examples. |
| | **Studio 1** | **Lecture-1** | European Architecture in Colonial India-II-Madras,Calcutta,Bombay Contonements Hill Stations | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 15 | **WEEK 15** | **Review** | | European Architecture in Colonial India-II-Madras,Calcutta,Bombay Contonements Hill Stations | | | |
| | **Studio 1** | **Lecture-1** | European Architecture in Colonial India-II-Madras,Calcutta,Bombay Contonements Hill Stations | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 16 | **WEEK 16** | **Final Submission** | | Group Discussions on important questions for the exam. | **Assignment-05** Answer the questions based on the topic undertaken and submit sketches | 20 | Review of the semester |
| | **Studio 1** | **Lecture-1** | European Architecture in Colonial India-II-Port, Fort,Church,Institutions, Bunglows,Barracks | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |

**Suggested Readings:-**


1. Lang & Desai Architecture and Independence- The Search for Identity – India
2. 1880 to 1980. Oxford University Press, India, 1997
3. Watkin, D., “A History of Western Architecture”, Thames and Hudson,1986
4. Fletcher, B., “A History of Architecture”, 20th Ed., Butterworth Heinemann,1996
5. Moffet, M., Fazio, M. and Wodehouse, L., “A World History of Architecture”, McGraw-Hill,2008

**No.of Teaching Weeks: 16**
**Contact Hours: per week : L : 2 S: 0**
**Contact Hours: per sem : L : 32 S: 0**
**Credit: 02**
**Total Marks:100 (E=75 I=25)**

**Course Title: History Of Architecture III**
**Course Code: AP-224**
**IInd YEAR – 2023-24, Semester IV**
**Course Cordinator :Saumya kohli**
**Studio Team: Saumya kohli**

**Objectives:**

To understand the background of present day practice of architecture with respect to significant developments in recent history- Development and diffusion of concepts and practice of Modern Architecture. Contemporary trends of architecture in India in relation to other parts of the world.The objective of the coursework is to recognize the characteristics and historical significance of Modern Movement in architecture,to also recognize the modern movements and Western Masters.It will also focus to undertsand the the so called universal nature of modern international architecture along with Late and Post Modernism.

**Pedagogy:**

"To utilise visual images,through presentations (PPT) and via lectures. It will also encourage discussions, critiques and interactive sessions between students and teachers. Live sketching of a famous architect's building in Delhi. The students will be empowered to develop skills for presentation and communication. They will be encouraged to read books, resulting in book reviews and by sketching, to improve student's visual stimulation."

**Expected Outcomes:**

The students should relate to the subject like a research study in order to understand the significxance of modern movement in Architrecture and its form today.The students are expected to develop senstivity towards the history of architectural design, and also technical understanding, as an aid to developing their own design. It is an endeavour to make students be able to relate to architecture as an extension of life and environment.

| S NO. | WEEK/DATE | LECTURE /DISCUSSION | | ACTIVITY | SUBMISSION | MARKS | EXPECTED OUTCOME | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 1 | **WEEK 01** | **Sketchfile/Research** | | Introduction to the coursework and Recap of the previous semester to form a narrative.Introduction to industrial revolution and advent of modernisation. | | | Introduction to the coursework of this semester | |
| | **Studio 1** | **Lecture-1** | Introduction to History of Architecture Course. Brief overview of this semester and submission timelines and expectation | | | | | |
| | **Studio 2** | **Lecture-2** | | | | | | |
| 2 | **WEEK 02** | **Sketchfile/Research** | | Formation of 4 Groups on the class and distribution of topics of Unit-1.Students to do the research on the given topic and make a powerpoint presentation after discussing the relevant content. | | | Undertsand the role of Industrial Revolution and related transformations | |
| | **Studio 1** | **Lecture-1** | Introduction to the concept of Modernisation. Discussion about Advent of Modern Architecture and the role of Industrial revolution and modern materials. | | | | | |
| | **Studio 2** | **Lecture-2** | | | | | | |
| 3 | **WEEK 03** | **Sketchfile/Research** | | Discussion on the terms Modernity, Modernisation and Modernisim,role of Industrial Revolution and modern materials like Concrete,Iron,Steel and Glass. | Power point presentation by the subject Group 1 and Group 2 | | Understanding the role of modern materials. | |
| | **Studio 1** | **Lecture-1** | Lecture continued with respect to student ppt. Discussion on Kenneth Framptons theory on Cultural,Technical and Territorial transformations | | | | | |
| | **Studio 2** | **Lecture-2** | | | | | | |
| 4 | **WEEK 04** | **Sketchfile/Research** | | Discussion to understand the modern movement in architecture and typical examples marking the advent of this univeral movement. | Power point presentation by the subject Group 3 and Group 4 | | Understanding the advent of modern movement in architecture | |
| | **Studio 1** | **Lecture-1** | Lecture continued with respect to student ppt. Discussion on Crystal palace, Eiffel Tower-Paris etc. | | | | | |
| | **Studio 2** | **Lecture-2** | | | | 10 | | |
| 5 | **WEEK 05** | **Topic of Study** | | Formation of 4 Groups on the class and distribution of topics of Unit-2.Students to do the research on the given topic and make a powerpoint presentation after discussing the relevant content. | **Assignment-01** Students will attempt all the questions in an A4Sheet and submit it on the completion of Unit-1 and Unit-2 | | Introduction to Art Movements and Architectural styles | |
| | **Studio 1** | **Lecture-1** | Introduction to the different Art movements and evolved architectural styles like NeoClassical, Chicago school, Art Nuevo Art Deco, Frank Lloyd Wright | | | | | |
| | **Studio 2** | **Lecture-2** | | | | 20 | | |
| 6 | **WEEK 06** | **Topic of Study** | | Discussion on the characterstics and typical examples of Neo-Classical and Art Nuevo and Art Deco Movements | Power point presentation by the subject Group 1 and Group 2 | | Understanding the contribution of various art movements. | |

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| | Studio 1 | Lecture-1 | Lecture continued with respect to student ppt | | | | | |
| | Studio 2 | Lecture-2 | | | | 10 | | |
| 7 | WEEK 07 | Topic of Study | | Discussion on the contributions of Chicago School and works of Master Architect-Frank Lloyd Wright-The Falling Waters,Solomon R. Guggenheim Museum etc. | Power point presentation by the subject Group 3 and Group 4 | | Works of Frank Llyod Wright-The Falling Waters and Guggenheim Museum | |
| | Studio 1 | Lecture-1 | Lecture continued with respect to student ppt | | | | | |
| | Studio 2 | Lecture-2 | | | | | | |
| 8 | WEEK 08 | Topic of Study | | Formation of 4 Groups on the class and distribution of topics of Unit-3.Students to do the research on the given topic and make a powerpoint presentation after discussing the relevant content. | Final Submission of the given assignment | | Works of Modern Architects-The Western Masters | |
| | Studio 1 | Lecture-1 | Introduction to the first generation of Modern Architects like Corbusier, Walter Gropius, Mies Van der Rohe, Tadao Ando, Kenzo etc. | | | | | |
| | Studio 2 | Lecture-2 | | | | | | |
| 9 | WEEK 09 | Topic of Study | | Discussion on the contributions of the Modern Architects and their famous works | **Assignment-02** Students will attempt all the questions in an A4Sheet and submit it on the completion of Unit-3 and Unit-4. Power point presentation by the subject Group 1 and Group 2 | | Modern Architects and their famous works | |
| | Studio 1 | Lecture-1 | Lecture continued with respect to student ppt | | | 20 | | |
| | Studio 2 | Lecture-2 | | | | | | |
| 10 | WEEK 10 | Test Week | | N/A | N/A | | N/A | |
| | Studio 1 | Lecture-1 | N/A | | | | | |
| | Studio 2 | Lecture-2 | | | | | | |
| 11 | WEEK 11 | Topic of Study | | Discussion on the contributions of the Modern Architects and their famous works | Power point presentation by the subject Group 3 and Group 4 | | Modern Architects and their famous works | |
| | Studio 1 | Lecture-1 | Lecture continued with respect to student ppt | | | | | |
| | Studio 2 | Lecture-2 | | | | 20 | | |
| 12 | WEEK 12 | Prefinal | | Formation of 4 Groups on the class and distribution of topics of Unit-4.Students to do the research on the given topic and make a powerpoint presentation after discussing the relevant content. | Power point presentation by the subject Group 1 and Group 2 | | Post-Modernism and works of Late Modern Architects | |
| | Studio 1 | Lecture-1 | Introduction to Post Modernism and Late Modern Architects-Venturi James Sterling,Aldo Rossi,Zaha Hadid,Peter Eisenman,Rem Koolhaas etc. | | | | | |
| | Studio 2 | Lecture-2 | | | | | | |
| 13 | WEEK 13 | Review | | Discussion on the contributions of the Late Modern Architects and their famous works along with the characterstic features of the Post Modern Period. Discussion on Neo-Rational focus, Deconstructivism etc. | Power point presentation by the subject Group 3 and Group 4 | | Works of Late Modern Architects | |
| | Studio 1 | Lecture-1 | Lecture continued with respect to student ppt | | | | | |
| | Studio 2 | Lecture-2 | | | | 20 | | |
| 14 | WEEK 14 | Review | | Discussion on the contributions of the Late Modern Architects and their famous works along with the characterstic features of the Post Modern Period | Final Submission of the given assignment | | Summerisation of Unit-4 | |
| | Studio 1 | Lecture-1 | Lecture continued with respect to student ppt | | | | | |
| | Studio 2 | Lecture-2 | | | | | | |
| 15 | WEEK 15 | Final Submission | | Discussion on the contributions of the Late Modern Architects Zaha Hadid,Aldo Rossi etc. and their famous works along with the characterstic features of the Post Modern Period | | | Summerisation of Unit-4 | |
| | Studio 1 | Lecture-1 | Lecture continued with respect to student ppt | | | | | |

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| | **Studio 2** | **Lecture-2** | | | | | | |
| 16 | **WEEK 16** | **Final Submission** | | Doubt clarification. | | | Summerisation of the coursework | |
| | **Studio 1** | **Lecture-1** | Revision. Previous year question papers review and exam preparation. | | | | | |
| | **Studio 2** | **Lecture-2** | | | | | | |

**Suggested Readings:-**


1. Lang & Desai (1997). Architecture and Independence- The Search for Identity – India 1880 to 1980. Oxford University Press, India.
2. Frampton K (2007) Modern Architecture: critical history. 4th ed. Thames & Hudson, USA.
3. Jencks (1991). The language of post-modern architecture. Academy Editions, London.
4. Schulz CN (1980). Meaning in Western Architecture. Rizzoli, New York.
5. Correa, CM (1985) The New Landscape by C M Correa, Bombay Strand Books, India, 1985.
6. Bhatia, G (1994) Punjabi Baroque and other Memories of Architecture, Penguin Books, New Delhi.
7. Bhatia, G (1994) Silent Spaces and other Stories of Architecture. Penguin Books, New Delhi. 8.

**No.of Teaching Weeks: 16**
**Contact Hours: per week : L : 0 S: 10**
**Contact Hours: per sem : L : 0 S: 160**
**Credit: 10**
**Total Marks:100 (E=50 I=50)**

**Course Title: Architectural Design V**
**Course Code: AP-301**
**IIIrd YEAR – 2023-24, Semester V**
**Course Cordinator: Shoeb Alam**
**Studio Team: Shoeb, Sarika, Vidushi**

## Objectives:

The objective of the course is develop an understanding of spatial design of large scale mixed use projects with emphasis on building design, volumes,building bye laws, structural building systems and energy efficiency. This will be addressed through various lectures and a studio design problem based in Delhi NCR.

## Pedagogy:

With primary focus on pedagogy that will help reach out to students in an online mode of studios, following are some of the methods and procedures adopted:

- All studios of the 16 weeks of the complete semester run online on Google Meet.
- Knowledge sharing by the faculty through regular lectures on topics related to the project at hand.
- Lectures supported with audio-visual content in the form of PowerPoint presentations, and Screen sharing of sketches and text done simultaneously on Whiteboard along with run-through of selected documents.
- Students will be asked to submit notes at the end of every lecture & studio to ensure their active participation.
- Students to be encouraged for peer review in rotating groups so that each student gets feedback from a number of classmates. The review will have an evaluation component by the students themselves.
- Excel sheets will be made for recording the peer review comments and marks.

## Expected Outcomes:

- Studio faculty team review of individual student's designs at various stages – ensuring that all students get a review at least once every week.
- Most of the times the review done collectively by the faculty and other students encouraged to participate in all reviews so they learn from each other too.
- Toward the pre-final submission, sometimes the students divided in groups to be addressed by one of the faculty to accommodate the paucity of time.
- Faculty sharing online with students all design corrections in the form of sketches along with verbal support to explain the same.
- Photographs of freehand sketches made by faculty to suggest corrections in design drawings shared by faculty on Google Meet screen or on Whatsapp group of the class created especially for informal interaction between students and faculty.

| S NO. | WEEK/DATE | LECTURE /DISCUSSION | | ACTIVITY | SUBMISSION | MARKS | EXPECTED OUTCOME |
|---|---|---|---|---|---|---|---|
| 1 | **WEEK 01** | **Predesign Stage** | | Group alotment based on topics decided for Literature Review. Literature review search | None | | An outline of the information that needs to be provided as also learning the best way to present the information so collected |
| Aug 16-21 | **Studio 1** | **Lecture-1** | i) Introduction to the design program- Sheily Shristav<br>ii) Literature review – Sheily Shrivastav, Siddhartha and Jyoti Luthra | | | | |
| | **Studio 2** | **Lecture-2** | Holiday - Muharram | | | | |
| 2 | **WEEK 02** | **Predesign Stage** | | Review of information collected by all the student groups for Literature Review. Next Studio all submissions on literature review to be evaluated. | Literature Review | | Submission of document by fourteen groups with two topics each group, all relevant information regarding development regulations and different standards. |
| Aug 23-28 | **Studio 1** | **Lecture-1** | Case Study - Primary and secondary, focus, aspects and takeaways - Siddhartha Mishra; Area Program - Jyoti Luthra | | | | |
| | **Studio 2** | **Lecture-2** | Literature review presentation by students | | | 5 | |
| 3 | **WEEK 03** | **Predesign Stage** | | | Case Studies | | Submission of document by Fourteen groups with two Case Studies- one Indian and one International |
| ug 30-Sep | **Studio 1** | **Lecture-1** | Case study selection discussion. Site analysis/ Site Surroundings Lecture- Jyoti Luthra | | | | |
| | **Studio 2** | **Lecture-2** | Case Study Presentation | | | 5 | |
| 4 | **WEEK 04** | **Predesign Stage** | | | Site Analysis & Area Program | | A-1 sheets with Site Plan & all related information - 1: 200 scale and Table of Area Program |
| Sep6-10 | **Studio 1** | **Lecture-1** | Area Program and Analysis by Siddhartha Mishra<br>/ Sheily Shrivastav | | | | |
| | **Studio 2** | **Lecture-2** | User interface(as regards spatial configuration responding to various types of users) - Siddhartha Mishra | | | 5 | |
| 5 | **WEEK 05** | **Concept submission** | | | Zoning & Design Concept | | Depostition of various buildings/functional components within the site will be shown. A block model showing the |
| Sep13-17 | **Studio 1** | **Lecture-1** | Spatial Complexity & Function-wise requirements - Chetna | | | | |

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|---|---|---|---|---|---|---|---|
| | **Studio 2** | **Lecture-2** | Sustainability Measures/ Climate responsive considerations- Jyoti Luthra | | | 5 | volumetric distribution on the site. |
| 6 | **WEEK 06** | | **Review** | | | | Revised site plan + A-1 Sheets with single line internal plans of various functional spaces on 1:100 scale |
| Sep20-24 | **Studio 1** | **Lecture-1** | Site services & Landscaping - Chetna.Time Problem | | | | |
| | **Studio 2** | **Lecture-2** | Spaces and Structures - Siddhartha Mishra. Time Problem | | | Grade | |
| 7 | **WEEK 07** | | **Design Development-1** | | DD - 1 | | Revised site plan + A-1 Sheets with single line internal plans of various functional spaces on 1:100 scale |
| Sep27-Oct1 | **Studio 1** | **Lecture-1** | Basement Services & Fire Safety - Sheily Shrivastav | | | | |
| | **Studio 2** | **Lecture-2** | To be based on students' performance and area of deficiency | | | 15 | |
| 8 | **WEEK 08** | | **Review** | | | | Revised site plan+A-1 Sheets with internal building plans of various functional spaces on 1:100 scale. Openings, levels etc, included in drawings |
| Oct4-9 | **Studio 1** | **Lecture-1** | To be based on students' performance and area of deficiency | | | | |
| | **Studio 2** | **Lecture-2** | | | | Grade | |
| 9 | **WEEK 09** | | **Design Development-2** | | DD-2 | | Site Plan – 1:200 (including landscaping) All Floor Plans Scale - 1:100 Building Sections – 2 No.s Scale- 1: 100 Building Elevations _ 2 No.s Scale- 1:100 Architectural |
| Oct11-16 | **Studio 1** | **Lecture-1** | O | | | | |
| | **Studio 2** | **Lecture-2** | | | | 15 | |
| 10 | **WEEK 10** | | **Review** | | | | Site Plan – 1:200 (including site services and landscape plans) All Floor Plans Scale - 1:100 |
| Oct18-23 | **Studio 1** | **Lecture-1** | To be based on students' performance and area of deficiency | | | | |
| | **Studio 2** | **Lecture-2** | | | | Grade | |
| 11 | **WEEK 11** | | **Design Development-3** | | DD-3 | | Project brief along with area requirements Design concept Case studies and design inferences Site analysis with program and zoning |
| Oct25-30 | **Studio 1** | **Lecture-1** | To be based on students' performance and area of deficiency | | | | |
| | **Studio 2** | **Lecture-2** | | | | 15 | |
| 12 | **WEEK 12** | | **Review** | | | | Project brief along with area requirements Design concept Case studies and design inferences Site analysis with program and zoning |
| Nov1-6 | **Studio 1** | **Lecture-1** | To be based on students' performance and area of deficiency | | | | |
| | **Studio 2** | **Lecture-2** | | | | Grade | |
| 13 | **WEEK 13** | | **Test Week** | | | | |
| Nov8-13 | **Studio 1** | **Lecture-1** | None | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |

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|---|---|---|---|---|---|---|
| 14 | **WEEK 14** | **Prefinal Design** | | Prefinal | | Project brief along with area requirements Design concept Case studies and design inferences Site analysis with program and zoning |
| Nov15-20 | **Studio 1** | **Lecture-1** | To be based on students' performance and area of deficiency | | | |
| | **Studio 2** | **Lecture-2** | | | 15 | |
| 15 | **WEEK 15** | **Review** | | | | |
| Nov22-27 | **Studio 1** | **Lecture-1** | None | | | |
| | **Studio 2** | **Lecture-2** | | | 20 | |
| 16 | **WEEK 16** | **Final Submission** | | Final Submission | | All drawings and Models |
| Nov30-Ded4 | **Studio 1** | **Lecture-1** | None | | | |
| | **Studio 2** | **Lecture-2** | | | 20 | |

Suggested Readings:-


1. Ching, F., Architecture, form, space and order, New York, Van Nostrand Reinhold staff 1996

2. Haris, C.W., Time savers standards for landscapeArchitecture, USA., Mc Graw hill, 1998

3. Rasniussen, S.E.,(1077), Experiencing Architecture, Cambridge,Massachusetts: The MIT press 1997

4. Watson, D.I., Time savers standards for Architecturall Design, New York: Mc Graw Hill 2005

**No.of Teaching Weeks: 16**
**Contact Hours: per week : L : 0 S: 10**
**Contact Hours: per sem : L : 0 S: 160**
**Credit: 10**
**Total Marks:100 (E=50 I=50)**

**Course Title: Architectural Design VI**
**Course Code: AP-302**
**IIIrd YEAR – 2023-24, Semester VI**
**Course Coordinator : Sheily Shrivastav**
**StudioTeam: Jyoti, Sheily, Shoeb**

## Objectives:

To design Spiritual Retreat with the following objectives:
To learn site planning of large campus with emphasis on planning of open spaces for various purposes along with building clusters.
To design a spiritual center keeping in mind the environment, social behavior and aesthetics in a built form.
To explore innovative built form suitable for enhancing spiritual health as a means for achieving general community health

## Pedagogy:

With primary focus on pedagogy that will help knowledge sharing and enhancement amongst students and faculty both in an online and offline mode of studios, following are some of the methods and procedures adopted: • About 8 studios of the 16 weeks of the complete semester were run online on Google Meet.
• Knowledge sharing by the faculty through regular lectures on topics related to the project at hand.
- Lectures were supported with audio-visual content in the form of PowerPoint presentations, and Screen sharing of sketches and text done simultaneously on Whiteboard along with run-through of selected documents.
• Students encouraged for peer review so that each student got feedback from a number of classmates.
• Studio faculty team review of individual student's designs at various stages – ensuring that all students get a review at least once every week.
- Most of the times the review done collectively by the faculty and other students encouraged to participate in all reviews so they learn from each other too.
- Toward the pre-final submission, sometimes the students divided in groups to be addressed by one of the faculty to accommodate the paucity of time.
• Faculty sharing online with students all design corrections in the form of sketches along with verbal support to explain the same.
- Freehand sketches made by faculty to suggest corrections in design drawings shared by faculty on Prints/Google Meet screen or on Whatsapp group of the class created especially for informal interaction between students and faculty.
- Digital pens or other built in sketching methods on the Google Meet platform also used to suggest design corrections

## Expected Outcomes:

- To learn how the spaces plays an important role in enhancing spiritual well-being of a person
- Incorporating daylight in a building during different times according to functional requirements
- Application of appropriate structural and construction methods for achieving unique built forms

| S NO. | WEEK/DATE | LECTURE /DISCUSSION | | ACTIVITY | SUBMISSION | MARKS | EXPECTED OUTCOME |
|---|---|---|---|---|---|---|---|
| 1 | **WEEK 01** | **Predesign Stage** | | Group alotment based on topics decided for Literature Review. Literature review search | None | | An outline of the information that needs to be provided as also learning the best way to present the information so collected |
| Jan 20 | **Studio 1** | **Lecture-1** | i) Introduction to the design program- Sheily Shristav<br>ii) Literature review – Sheily, Jyoti, Vidushi, Garima | | | | |
| | **Studio 2** | **Lecture-2** | Holiday - Muharram | | | | |
| 2 | **WEEK 02** | **Predesign Stage** | | Review of information collected by all the student groups for Literature Review. Next Studio all submissions on literature review to be evaluated. | None | | Discussion of document by 13 groups with one topics each group, all relevant information regarding development regulations, different standards and case studies of |
| Jan 24 | **Studio 1** | **Lecture-1** | Lecture/ Talk - Qualities of Spaces in Spirirual Retreat: Examples and Experiencses(Case Study) - Jyoti Luthra. | | | | |
| Jan 27 | **Studio 2** | **Lecture-2** | Discussion on various aspects of Spiritual Retreat ( Vernacular Architecture and Concept formulation) | | | | |
| 3 | **WEEK 03** | **Predesign Stage** | | Presentation by students : 13 groups with one topics each group, all relevant information regarding development regulations, different standards and case studies of individual alloted spaces. | Literature Review and Case Studies | | Submission of document by Thirteen groups with one Case Studies- one Indian and one International |
| Jan 31 | **Studio 1** | **Lecture-1** | | | | | |
| Feb 3 | **Studio 2** | **Lecture-2** | Lecture: Site Planning (Sheily) | | | 5 | |
| 4 | **WEEK 04** | **Predesign Stage** | | Discussion on Data Collection: Spiritual Retreat Case Study | Spiritual Retreat Case study | | Report and presentation on case study |
| Feb 7 | **Studio 1** | **Lecture-1** | | | | | |
| Feb 10 | **Studio 2** | **Lecture-2** | Lecture: User interface(as regards spatial configuration responding to various types of users) - Garima | | | 5 | |
| 5 | **WEEK 05** | **Site Plan Concept** | | Discussion on site plan and concepts prepared by groups | | | Learning about varous aspects of site planning and concept development |
| Feb 14 | **Studio 1** | **Lecture-1** | | | | | |

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|---|---|---|---|---|---|---|---|
| Feb 17 | **Studio 2** | **Lecture-2** | Lecture: Spiritual Environment of Spaces. Vidushi | | | Grade | |
| 6 | **WEEK 06** | | | Discussion on submission of site plan and concepts prepared by groups | Zoning & Design Concept | | Depostition of various buildings/functional components within the site will be shown. A block model showing the volumetric distribution on the site. |
| Feb 21 | **Studio 1** | **Lecture-1** | | | | | |
| Feb 24 | **Studio 2** | **Lecture-2** | Lecture: Daylighting Strategies: Jyoti | | | 10 | |
| 7 | **WEEK 07** | **Design Development-1** | | Concept Submission of Individually Selected Buildings ( 2 buildings selected individually) | DD - 1 | | A-1 Sheets with single line internal plans of various functional spaces on 1:100 scale |
| Feb 28 | **Studio 1** | **Lecture-1** | | | | | |
| Mar 3 | **Studio 2** | **Lecture-2** | Lecture: Auditorium Spaces - Sheily | | | 15 | |
| 8 | **WEEK 08** | | | Discussion on DD1 of individual building plans | | | Revised internal building plans of various functional spaces on 1:100 scale. Openings, levels etc, included in drawings |
| Mar 7 | **Studio 1** | **Lecture-1** | Discussion based on students' performance and area of deficiency | | | | |
| Mar 10 | **Studio 2** | **Lecture-2** | Lecture: Site services & Landscaping - Garima | | | Grade | |
| 9 | **WEEK 09** | **Design Development-2** | | Discussion on DD2 submissions of individual building plans | DD-2 | | All Floor Plans Scale - 1:100 Building Sections – 2 No.s Scale- 1: 100 Building Elevations _ 2 No.s Scale- 1:100 Architectural Details- Suitable scale (including |
| Mar 14 | **Studio 1** | **Lecture-1** | Discussion based on students' performance and area of deficiency | | | | |
| Mar 17 | **Studio 2** | **Lecture-2** | Discussion based on students' performance and area of deficiency | | | 15 | |
| 10 | **WEEK 10** | | | Discussion on DD2 submissions of individual building plans | | | |
| Mar 21 | **Studio 1** | **Lecture-1** | To be based on students' performance and area of deficiency | | | | |
| Mar 24 | **Studio 2** | **Lecture-2** | To be based on students' performance and area of deficiency | | | Grade | |
| 11 | **WEEK 11** | **Design Development-3** | | Discussion on DD3 submissions of individual building plans | DD-3 | | All Floor Plans Scale - 1:100 Building Sections – 2 No.s Scale- 1: 100 Building Elevations _ 2 No.s Scale- 1:100 Architectural Details- Suitable scale (including sustainability |
| Mar 28 | **Studio 1** | **Lecture-1** | To be based on students' performance and area of deficiency | | | | |
| Mar 31 | **Studio 2** | **Lecture-2** | To be based on students' performance and area of deficiency | | | 15 | |
| 12 | **WEEK 12** | **Test Week** | | **TEST WEEK** | | | NA |
| Apr 4 | **Studio 1** | **Lecture-1** | NA | | | | |
| Apr 7 | **Studio 2** | **Lecture-2** | NA | | | | |
| 13 | **WEEK 13** | **Students' Activity** | | Discussion on improvements on DD3 submissions | | | |
| Apr 11 | **Studio 1** | **Lecture-1** | NA | | | | |
| Apr 14 | **Studio 2** | **Lecture-2** | **HOLIDAY** | | | | |

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|---|---|---|---|---|---|---|---|
| 14 | **WEEK 14** | **Review** | | **PRE - FINAL SUBMISSION** | Prefinal | | Project brief along with area requirements Design concept Case studies and design inferences Site analysis with program and zoning |
| Apr 18 | **Studio 1** | **Lecture-1** | To be based on students' performance and area of deficiency | | | | |
| Apr 21 | **Studio 2** | **Lecture-2** | | | | 15 | |
| 15 | **WEEK 15** | **Review** | | | None | | |
| Apr 25 | **Studio 1** | **Lecture-1** | None | | | | |
| Apr 28 | **Studio 2** | **Lecture-2** | None | | | | |
| 16 | **WEEK 16** | **Final Submission** | | **FINAL SUBMISSION** | Final Submission | | All drawings and Models |
| May 2 | **Studio 1** | **Lecture-1** | None | | | | |
| May 5 | **Studio 2** | **Lecture-2** | None | | | 20 | |

Suggested Readings:-


1. Neufert, P., "Architects" Data", 3rd Ed., Blackwell Science, 2000

2 Watson, D.(Editor), "Time-saver Standards for Urban Design", McGraw-Hill, 2003 3. Watson, D.(Editor), "Time-saver Standards for Architectural Design: Technical

4. Lynch Kevin, Site Planning, MIT Press; 2nd Revised edition edition (29 October 1971)

5. Kanvinde Achyut, Campus design in India;: Experience of a developing nation, Jostens/American Yearbook Co (1969)

**No.of Teaching Weeks: 16**
**Contact Hours: per week : L : 4 S: 0**
**Contact Hours: per sem : L : 64 S: 0**
**Credit: 04**
**Total Marks:100 (E=75 I=25)**

**Course Title: Theory of Structures**
**Course Code: AP-322**
**IIInd YEAR – 2023-24, Semester VI**
**Course Coordinator: Kavita Revo**
**Faculty Team: Kavita Revo**

## Objectives:

The objective of this course is to introduce students to structural analysis of simple building frames . In this semester students would be taught about approximate/manual methods of analysis along with software based Analysis by STAAD Pro software. The course aims at exposing students to various structural systems that can be used to make their dsigns workable without compromising with the safety and stability of structure and in accordance with codes of practice.

## Pedagogy:

The course would be delivered through Lectures, Power point presentations and videos in onine mode **during pandemic.** Site visits and case studies are conducted to get exposure and understand the construction related issues. . Numerical /Design problem exercise with relevant IS codes is practiced to get a hold over the concepts learnt.

## Expected Outcomes:

At the end of course the students can fulfil their architectural expression and designs by adopting the most suitable structural system.

| S NO. | WEEK/DATE | LECTURE /DISCUSSION | | ACTIVITY | SUBMISSION | MARKS | EXPECTED OUTCOME |
|---|---|---|---|---|---|---|---|
| 1 | **WEEK 01** | **Sketchfile/Research** | | Lecture on structural systems & Functions Horizontal & Vertical support systems.<br><br>Introduction to Floor systems.<br>Components and behaviour.<br>Failure Modes | NA | NA | Students get an overview of types of structural systems in buildings |
| | **Studio 1** | **Lecture-1** | Introductory class, course delivery plan, prerequisits of the subject and evaluation system would be discussed. | | | | |
| | **Studio 2** | **Lecture-2** | Structural systems in buildings. Horizontal support systems. | | | | |
| 2 | **WEEK 02** | **Sketchfile/Research** | | Study floor systems like<br>Beam & Slab system<br>waffle slab System<br>Flat slab<br>Flat Plate system<br><br>Merits, demerits and application | GROUP PRESENTATION Merits, Demerits and application of different floor systems. | | Students can adopt a suitable floor system in their design |
| | **Studio 1** | **Lecture-1** | Types of Floor Systems. | | | 10 | |
| | **Studio 2** | **Lecture-2** | Types of Floor Systems. | | | | |
| 3 | **WEEK 03** | **Sketchfile/Research** | | Lecture on principles of high rise structures . Governning forces in design.<br><br>Effect of lateral loads on tall buildings,<br>Ways to enhance lateral stiffness. | NA | | Students understand the essence of lateral loads in the design of tall buildings |
| | **Studio 1** | **Lecture-1** | Introduction to High Rise buildings | | | | |
| | **Studio 2** | **Lecture-2** | High Rise buildings contd | | | | |
| 4 | **WEEK 04** | **Sketchfile/Research** | | Lecture on increasing earth quake resistance of buildings.<br><br>Effect on lateral stiffness with or without shear walls,types and their location for best performance.<br><br>Different type of bracing systems adopted to increase lateral stiffness | Students to conduct case study on tall building of their choice and prepare a report on horizontal & vertical support systems adopted. Source: Technical papers from CTBUH | | Students understand the application of shear walls & bracings |
| | **Studio 1** | **Lecture-1** | Vertical Support Systems- Shear walls & Bracing system | | | 15 | |
| | **Studio 2** | **Lecture-2** | Structural Wall-Frame Systems (Shear walls) contd | | | | |
| 5 | **WEEK 05** | **Topic of Study** | | Tubes, Bundled tubes, outrigger structures, Diaagrids for tall buildings.<br><br>Study of prominent tall structures<br>Like Burj Khalifa, Kingdom Tower, Petronas Towers, Taipai 101 . | NA | | Students get exposure to super tall structure design and different structural systems |
| | **Studio 1** | **Lecture-1** | Structural system for super tall structures | | | | |
| | **Studio 2** | **Lecture-2** | Structural system for super tall structures | | | | |
| 6 | **WEEK 06** | **Topic of Study** | | Presentation by individual student on their case study- Super tall structures | Individual PPT | | Students understand construction issues and difficulties in the design of tall structures |
| | **Studio 1** | **Lecture-1** | Structural systems in Tall buildings | | | 10 | |
| | **Studio 2** | **Lecture-2** | Structural systems in Tall buildings | | | | |
| 7 | **WEEK 07** | **Topic of Study** | | Presentation by individual student on their case study- Super tall structures | Individual PPT | | Students understand construction issues and technical difficulties in the design of tall structures |
| | **Studio 1** | **Lecture-1** | Tall Buildings contd | | | 10 | |

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|---|---|---|---|---|---|---|---|
| | **Studio 2** | **Lecture-2** | Tall Buildings contd | | | | |
| 8 | **WEEK 08** | | **Topic of Study** | Manual mehtods to analyse simple portal frame.<br>Numericals based on same | NA | | Students learn steps to analyse simple portal frames |
| | **Studio 1** | **Lecture-1** | Analysis of Portal frames | | | | |
| | **Studio 2** | **Lecture-2** | Analysis of Portal frames | | | | |
| 9 | **WEEK 09** | | **TEST WEEK** | | 20 MARKS | | |
| | **Studio 1** | **Lecture-1** | MINOR TEST | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 10 | **WEEK 10** | | **Topic of Study** | Numerical Practice and drawing BMD . Interpreting results | NA | | Students can analyse simple portal frames and also interpret stress diagrams |
| | **Studio 1** | **Lecture-1** | Portal Frames Contd | | | | |
| | **Studio 2** | **Lecture-2** | Portal Frames Contd | | | | |
| 11 | **WEEK 11** | | **Topic Of Study** | Lecture on comparison of Manual method to software based analysis.<br>Introducing STAAD Pro | NA | | Students learn about the quick ways of software based analysis. |
| | **Studio 1** | **Lecture-1** | Introduction to Computer Based Analysis of building frames | | | | |
| | **Studio 2** | **Lecture-2** | Introduction to softwares for analysis | | | | |
| 12 | **WEEK 12** | | **Topic Of Study** | Demonstration of STAAD Pro software and generation of input and output files for simple frames.<br>Students to practice commands and generate output /input files | Students to submit input/ouput files for given problems in class | 5 | Students learn the basic commands of STAAD pro software |
| | **Studio 1** | **Lecture-1** | Guest Lecture | | | | |
| | **Studio 2** | **Lecture-2** | Guest Lecture | | | | |
| 13 | **WEEK 13** | | **Topic of study** | Students to practice STAAD Pro | NA | | Students can interpret output files from analysis of frames using STAAD Pro |
| | **Studio 1** | **Lecture-1** | Software based Analysis | | | | |
| | **Studio 2** | **Lecture-2** | Software based Analysis | | | | |
| 14 | **WEEK 14** | | **Topic of study** | STAAD PRO continued | NA | | Students can interpret output files from analysis of frames using STAAD Pro |
| | **Studio 1** | **Lecture-1** | Software based Analysis | | | | |
| | **Studio 2** | **Lecture-2** | Software based Analysis | | | | |
| 15 | **WEEK 15** | | **Review** | Sharing question Banks, Doubt clarification | NA | | Students are prepared for univ exam |
| | **Studio 1** | **Lecture-1** | Revision | | | | |
| | **Studio 2** | **Lecture-2** | Revision | | | | |
| 16 | **WEEK 16** | | **Final Submission** | Practicing questions and doubt clarification | NA | | Students are prepared for univ exam |
| | **Studio 1** | **Lecture-1** | Discussing old univ question papers | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |

**Suggested Readings**

1. IS 875( part 1 to 5), IS 1893. IS 4326, IS 456, SP34,IS 13920
2.Theory of Structures by RS Khurmi
3.Design of RCC structures by S .Ramamrutham
4.Earthquake Resistant design of structures by P Aggarwal & M. Shrikhande
5.Masonry & Timber Structures by A.S. Arya

**No.of Teaching Weeks: 16**
**Contact Hours: per week : L : 2 S: 0**
**Contact Hours: per sem : L : 32 S: 0**
**Credit: 2**
**Total Marks:100 (E=75 I=25)**

**Course Title: Building Material Science V**
**Course Code: AP-325**
**IIIrd YEAR – 2023-24, Semester V**
**Course Cordinator: Ankita Bajpai**

## Objectives:

UNIT-1 ,UNIT 2 UNIT-3 & UNIT 4
**ALUMINUM & PLASTIC MATERIALS**
To study the availability, constituents, properties, manufacturing processes, storage, transportation and applications of above mentioned materials.
**ACOUSTICS & WATERPROOFING MATERIALS**
To develop the knowledge and skill required for understanding acoustics in buildings and its integration with architectural design.
To Understand present practices and materials for damp & water proofing including in basements, swimming pools, terraces etc.

## Pedagogy:

Engage the student in class with in Demonstration ,discussion diagrammatic representation of materials.
Oral presentation and live study, report ,ppts by the students.
Explore the simple physical mechanism,market survey and conducting some site visits
Architectural application through Design Studio (intergration method)
Site visits and market surveys will be an integral part of ppt.Market Surveys, Seminars & Report

## Expected Outcomes:

Understanding of Building Material,materials-classification and Science.
Understanding of Modern building materials, ready to use modular material.
They aware of the progressive achievements of plastics,, aluminium , its application in construction industry and present developments.
To familiarize the students with methods of detailing different parts of building through different materials.
To inculcate awareness
The students would be familiarized with market rates of materials and applications

| S NO. | WEEK/DATE | LECTURE /DISCUSSION | | ACTIVITY | SUBMISSION | MARKS | EXPECTED OUTCOME |
|---|---|---|---|---|---|---|---|
| 1 | **WEEK 01** | **Sketchfile/Research** | | Lecture on Aluminium, with PPt Presentation & interactive discussion. Topics related to understanding of various aspects of Aluminium as a building material will be assigned to students. Based on the research of these topics, the students will be required to submit an A-3 size document. | | | |
| | **Studio 1** | **Lecture-1** | Introduction to Aluminium as a building material - types, components, uses. | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 2 | **WEEK 02** | **Sketchfile/Research** | | Review of students' research on various topics related to study of Aluminium as a building material. The students will be given the feedback to modify and improve the exitsting information to compile in a document as directed in the next class. | **(Stage submission) HAND WRITTEN A4 SCANNED SHEET** | | |
| | **Studio 1** | **Lecture-1** | Discussion based on assignment-1. Composite aluminium based building materials | | | **5** | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 3 | **WEEK 03** | **Sketchfile/Research** | | Group exercise in class to engage students with each other for producing a solution to a given problem related to the material being studied, i.e. Aluminium | **Assignment - 1** A-3 documents on various topics distributed aboit Aluminium as a builiding material **Assignment - 2**: Submission of Class Exercise | **10** | |
| | **Studio 1** | **Lecture-1** | Comparison of Aluminium with other substitutes in various situations for sustainability criteria | | | **10** | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 4 | **WEEK 04** | **Sketchfile/Research** | | Lecture and interactive discussion on Plastic as a building material, its types, properties, uses, manufactue, sustainability criteria and so on - supported with a Ppt. presentation Topics related to understanding of various aspects of Plastic as a building material will be assigned to students. Based on the research of these topics, the students will be required to submit an A-3 size document. | | | |
| | **Studio 1** | **Lecture-1** | Introduction to Plastic as a building material - types, uses based on characteristic properties, components. | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 5 | **WEEK 05** | **Topic of Study** | | Review of students' research on various topics related to study of Plastic as a building material. The students will be given the feedback to modify and improve the exitsting information to compile in a document as directed in the next class. | | **5** | |
| | **Studio 1** | **Lecture-1** | Assessment of plastic as a sustainable material. Introduction to Assignment-2 | | | | |

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|---|---|---|---|---|---|---|---|
| | **Studio 2** | **Lecture-2** | | | | | |
| 6 | **WEEK 06** | | **Topic of Study** | Group exercise in class to engage students with each other for producing a solution to a given problem related to the material being studied, i.e. Plastic | **ASSIGNMENT 3** A-3 documents on various topics distributed about Plastic as a builiding material **Assignment - 4**: Submission of Class Exercise | **10** | |
| | **Studio 1** | **Lecture-1** | Discussion based on assignment-2. Methods of recycling of plastic products in building construction | | | **10** | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 7 | **WEEK 07** | | **Topic of Study** | Interactive discussion in class with presentation of various examples | | | |
| | **Studio 1** | **Lecture-1** | Comparison of Plastic and Aluminium with each other and with other substitutes in various situations | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 8 | **WEEK 08** | | **Topic of Study** | Lecture & discussion Through PPt Presentation:SOUND TRANSMISSION, ABSORPTION, INSULATION Definition of sound and noise Reverberation time echo ,sound, Acoustics insulation: porous, baffle and perforated materials such as Acoustic plastic, Acoustic tiles, wood, partition board, fiber board, cook, quilts and mats. STUDENTS:Note taking,Questions & Discussions Based on Lecture | STUDENTS :need to upload notes | | Students Have To Understand About the basics of Accoustics insulation, applications their properties and uses with respect to current developments in buildinds though various examples |
| | **Studio 1** | **Lecture-1** | Lecture on Introduction to Architectural Acoustics and Building Physics: Knowledge about the behavior of sound in the built environment. | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 9 | **WEEK 09** | | **Topic of Study** | Lecture & discussion Through PPt Presentation: Sound amplification systems, speaker's high frequency, and moderation, special studies of cinema. Theatres, open-air theatres. Design of shape, volume per seat etc. STUDENTS:Note taking,Questions & Discussions Based on Lecture | STUDENTS :need to upload notes | | students know about the Noise Control And Sound Reinforcement and Applications of the accoustics insulations methods for various buildings. |
| | **Studio 1** | **Lecture-1** | Lecture on Propagation of noise of mechanical operation and impact noise, sound transmission through wall and partition. | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 10 | **WEEK 10** | | **Topic of Study** | Lecture & discussion Through PPt Presentation: Acoustical design of rooms for speech, music studios. Noise control in specific types of buildings like-auditoriums, residential buildings, hotels, schools, hospitals, offices and libraries. STUDENTS:Note taking,Questions & Discussions Based on Lecture | **(ASSIGNMENT 2) HAND WRITTEN A4 SCANNED SHEET** STUDENTS :need to upload notes | | To train the students in the field of architectural Acoustics for various Buildings from Design And Construction point of view. |
| | **Studio 1** | **Lecture-1** | Lecture on Acoustical Criteria of Space Design: Principle of geometrical acoustics | | | **10** | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 11 | **WEEK 11** | | **Prefinal** | Lecture & discussion Through PPt Presentation: Causes of dampness and reasons for damp- & water-proofing Damp Proofing ,Water Proofing & water proofing membranes including prefabricated membranes sheet STUDENTS:Note taking,Questions & Discussions Based on Lecture | STUDENTS :need to upload notes | | Developing the students understanding of material properties and construction techniques of water proofing in buildings and learn about application methods in basement floor, swimming pool, and terraces. |
| | **Studio 1** | **Lecture-1** | Lecture on types of waterproofing materials, applications and methods at foundation to roof including joints (unit-4) | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 12 | **WEEK 12** | | **Review** | Lecture & discussion Through PPt Presentation: Water Proofing – different types of water proofingtechniques and material used, their compositions and application (stone cladding, powders, asphalt, bitumen, asbestos, bituminous felts caulking compounds etc.) STUDENTS:Note taking,Questions & Discussions Based on Lecture | STUDENTS :need to upload notes | | students focus on the different water proofing, damp proofing materials& technology available & their application. |
| | **Studio 1** | **Lecture-1** | lecture and discussion on admixturex,additive, acrylics,sealants,adhesives and glues used in building industry. | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 13 | **WEEK 13** | | **Test Week** | Lecture & discussion Through PPt Presentation: Water Proofing STUDENTS:Note taking,Questions & Discussions Based on Lecture | **Drawings & Market survey Report (Accoustics & water proofing materials)** STUDENTS :need to upload notes | | Developing understanding applications of vrious methods and process. |
| | **Studio 1** | **Lecture-1** | Lecture through some live example of various process under waterproofing methods of building | | | | |

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| | **Studio 2** | **Lecture-2** | | | | | |
| 14 | **WEEK 14** | **Review** | | Lecture & discussion Through PPt Presentation:<br>Fundamental concepts to understand environmental processes.Building materials their properties applications, and their intrinsic relationship to structural systems and environmental performance<br>STUDENTS:Note taking,Questions & Discussions Based on Lecture | **Presentation By students (conduct market survey in groups for report)**<br><br>**(Accoustics & water proofing materials)** | | A critical body of knowledge in the theoretical domain of environment impact study of various activities and students will conduct and present oral PPT. |
| | **Studio 1** | **Lecture-1** | environmental impact study with respect to manufaturing and use of ACCOUSTICS AND waterproofing material . | | | **10** | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 15 | **WEEK 15** | **Final Submission** | | Lecture & discussion Through PPt Presentation:Doubt-clearing classes<br><br>STUDENTS:Note taking,Questions & Discussions Based on Lecture | | | |
| | **Studio 1** | **Lecture-1** | submission of Final Semester end Marks | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 16 | **WEEK 16** | **Final Submission** | | Lecture & discussion Through PPt Presentation:Doubt-clearing classes<br><br>STUDENTS:Note taking,Questions & Discussions Based on Lecture | | | |
| | **Studio 1** | **Lecture-1** | submission of Final Semester end Marks | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |

**Suggested Readings:-**


1. SoniKumar Saurabh, Building Materials &Construction , S.K.Kataria and Sons
2. DuggalS.K.BuildingMaterials (third revised edition), New age international (p) limited publishers, 2008
3. Kumar S.K. “Building Construction”, 19th Ed, Standard Publishers Distributors, 2001
4. Merit S. Frederick, Building design and construction handbook. MC Graw hill 2000
5. Allen e and lanoJ fundamentals fo building construction. Materials and methods wiley 2004
6. Mehta MSearbourogh, W and ArmpriestDiane building construction principles, materials and systems Pearson prentice hall 2004
7. Berry, R the Construction of Buildings Barry RConstruction of Buildings, East West Press PvtLtd, New Delhi 1999
8. Mckay, W B building Construction (Vol I, II, III & IV), Orient Longman London 1988
9. Chudley R A building construction handbook united Kingdom Butterworth Heineman 1998

**No.of Teaching Weeks: 16**
**Contact Hours: per week : L : 0 S: 5**
**Contact Hours: per sem : L : 0 S: 80**
**Credit: 5**
**Total Marks:100 (E=50 I=50)**

**Course Title: Building Construction VIII**
**Course Code: AP-404**
**IVth YEAR – 2022, Semester VIII**
**Cousre Coordinator: Sanjay**
**Studio Team: Sanjay, Vidushi, Binita**

**Objectives:**

To provide basic understanding of pre-stressing,post-tentioning,prefabrication and pre-cast systems in buildings and to develop an understanding of jointing, tolerances and modular coordination in construction industry and to explore the application of these systems in large-span roofing using light weight roofing materials.

**Pedagogy:**

Seminar Based Approach (Lecture and Discussion Method), Time Problem, Report Submission
Guest Lecture/s by Industry Expert.
4 Members in a Group. Each Group Takes A material and Studies In Depth.through its History- technology used - construction system requirements- detailing limits Each material is studies along with its appropriate construction technlogy to demonstrate the use.Oral Presentation,.
Part 1 - Four stages are covered through drawings and construction details to demonstrate the use of meterial and its appropriateness
Studio Method- Deliverable 1and 2 Foundation system and Walling
Deliverable 3 and 4 - Roofing system and Flooring with external wall section
Part 2. --Case study of one building with all four stages including drawings to demonstrate the learning , Part 3 -- Time problem

**Expected Outcomes:**

To acquaint the students with construction systems and detailing of Advanced technologies with Respect to applications and methods
The make students familiar with the concepts and developments in advanced technology trends.
To work on hybrid systems
To explore various advantages and issues related to advanced technologies.

| S NO. | WEEK/ DATE | LECTURE /DISCUSSION | | ACTIVITY | SUBMISSION | MARKS | EXPECTED OUTCOME |
|---|---|---|---|---|---|---|---|
| 1 | **WEEK 01** | **Sketchfile/Research** | | Lecture, demonstration & discussion<br><br>(Session-1 lecture 1 hr and rest of the studio time for discussions.<br><br>session 2 majorly discussion and presentation by students online/offline mode. | | | Introduction and distribution of topics |
| | **Studio 1** | **Lecture-1** | Introduction To Entire Course, & Methodoloy of Advanced Construction technology content | | | | |
| | **Studio 2** | **Lecture-2** | Group vise topic and research for report. | | | | |
| 2 | **WEEK 02** | **Sketchfile/Research** | | Lecture, demonstration & discussion<br>Group Presentation (History part) | ppt Presentation by students and report submission | | Undertsanding various advanced materials |
| | **Studio 1** | **Lecture-1** | Advanced materials and technologies, constructions systems: hybrid construction | | | | |
| | **Studio 2** | **Lecture-2** | PPT By students (Group Assignment) | | | | |
| 3 | **WEEK 03** | **Sketchfile/Research** | | Lecture, demonstration & discussion | | | Various foundation systems |
| | **Studio 1** | **Lecture-1** | Foundation Systems- Types (pile foundations) | | | | |
| | **Studio 2** | **Lecture-2** | PPT By students (Group Assignment) | | | 25 | |
| 4 | **WEEK 04** | **Sketchfile/Research** | | Lecture, demonstration & discussion<br><br>Group Presentation (Technology part) | ppt Presentation by students and report submission | | |
| | **Studio 1** | **Lecture-1** | Walling Sytems - Types | | | | |
| | **Studio 2** | **Lecture-2** | PPT By students (Group Assignment) | | | | |
| 5 | **WEEK 05** | **Topic of Study** | | Lecture, demonstration & discussion | | | |
| | **Studio 1** | **Lecture-1** | Roofing System - Types | | | | |

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| | **Studio 2** | **Lecture-2** | PPT By students (Group Assignment) | | | | |
| 6 | **WEEK 06** | | **Topic of Study** | Lecture, demonstration & discussion<br><br>Group Presentation (Construction part) | ppt Presentation by students and report submission | | |
| | **Studio 1** | **Lecture-1** | Complete Report - Presentation | | | | |
| | **Studio 2** | **Lecture-2** | PPT By students (Group Assignment) | | | | |
| 7 | **WEEK 07** | | **Topic of Study** | Lecture, demonstration & discussion<br><br>Group Presentation (Detail part) | ppt Presentation by students and report submission | 25 | |
| | **Studio 1** | **Lecture-1** | Time Problem 1 | | | | |
| | **Studio 2** | **Lecture-2** | Time Problem 1- Discussion | | | | |
| 8 | **WEEK 08** | | **Topic of Study** | Lecture, demonstration & discussion<br><br>Group Presentation for adopted technology for working drawings/ details<br><br>briefing of reprt content and methodology.present some example to students | alternate construction technology - final report group work | | |
| | **Studio 1** | **Lecture-1** | Case Study - Alternate Building Technology | | | | |
| | **Studio 2** | **Lecture-2** | CaseStudy - Discussion - Foundation/ Walling | | | | |
| 9 | **WEEK 09** | | **Topic of Study** | Lecture, demonstration & discussion discussion and crits on report content | Stage submission of details | | |
| | **Studio 1** | **Lecture-1** | Case Study - Alternate Building Technology | | | | |
| | **Studio 2** | **Lecture-2** | CaseStudy - Discussion - Roofing/ flooring | | | | |
| 10 | **WEEK 10** | | | Lecture, demonstration & discussion discussion and crits on drawings to students | | | |
| | **Studio 1** | **Lecture-1** | New Material and Hybrid Technologies - Foundation, walling systems | | | | |
| | **Studio 2** | **Lecture-2** | PPT By students (Group Assignment) | | | | |
| 11 | **WEEK 11** | | **Topic of Study** | Lecture, demonstration & discussion discussion and crits on drawings to students | Report Submission with Details | 25 | |
| | **Studio 1** | **Lecture-1** | New Material and Hybrid Technologies - Roofing, Flooring systems | | | | |
| | **Studio 2** | **Lecture-2** | PPT By students (Group Assignment) | | | | |
| 12 | **WEEK 12** | | **Topic of Study** | - discussion | dwgs & report submissions | | |
| | **Studio 1** | **Lecture-1** | Time Problem 2 | | | | |
| | **Studio 2** | **Lecture-2** | Time Problem 2- discussion assessment | | | | |
| 13 | **WEEK 13** | | **Review** | Lecture, demonstration & discussion | final submission report | | |
| | **Studio 1** | **Lecture-1** | Report 1 and 2 | | | | |
| | **Studio 2** | **Lecture-2** | Report 1 and 2 | | | | |

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| 14 | **WEEK 14** | **Review** | | Lecture, demonstration & discussion<br><br>Group Presentation | final submission of drawings & report | | |
| | **Studio 1** | **Lecture-1** | Report Time problem | | | | |
| | **Studio 2** | **Lecture-2** | Report Time problem | | | | |
| 15-16 | **WEEK 15-16** | **Final Submission** | | | | 25 | |
| | **Studio 1** | **Lecture-1** | overall discussion and corrections of work | | | | |
| | **Studio 2** | **Lecture-2** | Portfolio submission/final marking | | | | |

**Suggested Readings:-**

1. Barry R (1999) Construction of Buildings, East West Press Pvt. Ltd., New Delhi.

**No.of Teaching Weeks: 16**
**Contact Hours: per week : L : 0 S: 12**
**Contact Hours: per sem : L : 0 S: 192**
**Credit: 12**

**Total Marks:100 (E=50 I=50)**

**Course Title: Architectural Design VII**
**Course Code: AP-401**
**IVth YEAR – 2023-24, Semester VII**
**Studio Director :Sanjay Mehra**

**Studio Team: Sanjay Mehra,Rashmi Tandon, Satish Khanna,**

**Objectives:**

To Develop Design Prototypes for Affordable Rental Housing Schemes - MPD2041 Delhi,Understand the role of migrant population in a city and their housing needs
Study housing standards of low income group and their relevance in present context
Define minimum area requirement for living for a family in low income group
Define single living for transient population
Effectiveness of open spaces in low income housing. Multifunctional activities in open spaces
Mix use development strategies

**Pedagogy:**

Design Program
It has three components
1. Developing a program of requirements and areas of various activities. Using building areas and open spaces to develop 3D Block Models and sketches, drawings, as visualized,
2. Developing building typology for various activities that are representative of the case. These would be a complete set of drawings of building type. Some of the identifiable building typologies that may be used are listed below:
Small Apartments for Low Income Groups,
Hostels for students and young professionals,
Transit homes/ Dormitories for migrant workers,
Apartment type/s for Higher Income Groups,
Commercial Buildings for Housing Schemes
3. Develop Urban Scenarios as the new face of Affordable Rental Housing Schemes of Future.

**Expected Outcomes:**

1 Program of requirements along with housing and mix use development standards in form of drawings, sketches.
2 Complete set of drawings for five/six housing types incl. plans, sections, elevations, detail
3 Design strategies for intervention – built form and open spaces
4 Infrastructure development plan along with zoning of planned activities
5 Built area plan of two to three residential pockets along with commercial/Social Infrastructure activities with surroundings
6 Cluster plan of one pocket along with ground and first floor activities
7 Terrace floor plan and activities
8 Typical floor plans
9 Sections/ Elevations
10 External Wall Sections
11 Details
Note : The details of deliverables shall be displayed on each submission.
The entire class shall be divided into 16 groups of 3 students each. Each group shall work on a selected site. The design exercise shall be done individually.

| S NO. | WEEK/ DATE | LECTURE /DISCUSSION | | ACTIVITY | SUBMISSION | MARKS | EXPECTED OUTCOME |
|---|---|---|---|---|---|---|---|
| 1 | **WEEK 01** | **Predesign Stage** | | A combined set of 48 students of both Sections A and B shall be divided in groups of 3, making 16 groups working on four sites. Maximum of 4 groups shall be allotted on one site. The site and surrounding studies shall be done together as a set of 12 students working on a site. Four issues shall be identified to do background studies. These are as follows:<br>● Site and Surrounding Studies- Building the Context<br>● Transport and Service infrastructure around the area<br>● MPD 2041 - and Development Controls relevant for the project<br>● Open space structure, Landscape, Parking and services | | | |
| | **Studio 1** | **Lecture-1** | Case study | | | | To built understanding for housing and its requirements |
| | **Studio 2** | **Lecture-2** | Case study | | | | |
| 2 | **WEEK 02** | **Predesign Stage** | | | | | |
| | **Studio 1** | **Lecture-1** | Site study | | | | To built undertanding for site and context |
| | **Studio 2** | **Lecture-2** | Site study | | | | |
| 3 | **WEEK 03** | **Pre Design Studies, case study site analysis submission** | **Final** | | | | |
| | **Studio 1** | **Lecture-1** | Presentation | | | 40 | Derive inference for pre design study |
| | **Studio 2** | **Lecture-2** | | | | | |
| 4 | **WEEK 04** | **Zoning and Concept** | | Site Analysis, Zoning and | | | |
| | **Studio 1** | **Lecture-1** | Discussion with individual group | | | 25 | |
| | **Studio 2** | **Lecture-2** | Discussion with individual group | | | | |

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| 5 | **WEEK 05** | **Zoning and Concept** | | Concept Development<br>● Detailed site analysis and formulation of design drivers for the project<br>● Program of Requirements, Zoning and 2 Dimensional disposition of<br>FAR and Ground Coverage etc.<br>● 3 Dimensional Disposition of FAR and Concept | | | To built understanding for basic zonning and conceptulization of housing Understanding challages and issues |
| | **Studio 1** | **Lecture-1** | Discussion with individual group | | | | |
| | **Studio 2** | **Lecture-2** | Discussion with individual group | | | | |
| 6 | **WEEK 06** | **Final stage Zoning and Concept** | | | | | |
| | **Studio 1** | **Lecture-1** | Presentation | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 7 | **WEEK 07** | **Typology Studies Unit Designs DDII Joint review** | | | | 40 | |
| | **Studio 1** | **Lecture-1** | Discussion with individual group | | | | |
| | **Studio 2** | **Lecture-2** | Discussion with individual group | | | | |
| 8 | **WEEK 08** | **Typology Studies Unit Designs DDII Joint review** | | | | | |
| | **Studio 1** | **Lecture-1** | Discussion with individual group | | | | |
| | **Studio 2** | **Lecture-2** | Discussion with individual group | | | | |
| 9 | **WEEK 09** | **Test week** | | | | | |
| 10 | **WEEK 10** | **Cluster Design Details DD III** | | | | 40 | |
| | **Studio 1** | **Lecture-1** | Discussion with individual group | | | | |
| | **Studio 2** | **Lecture-2** | Presentation | | | | |
| 11 | **WEEK 11** | **Development IV** | | | | | |
| | **Studio 1** | **Lecture-1** | Discussion with individual group | | | | |
| | **Studio 2** | **Lecture-2** | Presentation | | | | |
| 12 | **WEEK 12** | **Development V** | | | | | |
| | **Studio 1** | **Lecture-1** | Discussion with individual group | | | | |
| | **Studio 2** | **Lecture-2** | Presentation | | | | |
| 13 | **WEEK 13** | **Pre Final Submission** | | Presentation | | 40 | |
| | **Studio 1** | **Lecture-1** | Pre Final - Complete Urban Form with Surrounding - Detail Design of two pockets showing unit designs, floor plans, clusters, and landscape. Open space design/s Sections, elevations etc.<br>( Detail to be furnished separately) | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 14 | **WEEK 14** | **Review** | | | | | |
| | **Studio 1** | **Lecture-1** | Discussion with individual group | | | | |
| | **Studio 2** | **Lecture-2** | Discussion with individual group | | | | |

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| 15-16 | **WEEK 15-16** | **Final Submission** | | | | | |
| | **Studio 1** | **Lecture-1** | FINAL SUBMISSION - Details to be furnished separately | | | 60+5 | |
| | **Studio 2** | **Lecture-2** | | | | | |

**No.of Teaching Weeks: 16**
**Contact Hours: per week : L : 2 S: 0**
**Contact Hours: per sem : L : 32 S: 0**
**Credit: 2**
**Total Marks:100 (E=75 I=25)**

**Course Title: Town Planning**
**Course Code: AP-422**
**4th YEAR – 2023-24, Semester VII**
**Studio Coordinator :Sheily Shrivastav**
**Studio Team: Sheily Shrivastav**

**Objectives:**

The intention is to make architecture students aware of the problems of cities and how to address the various issues. The course focus is on the physical and spatial aspects of planning of cities. How have these being affected because of out-population, housing shortage, infrastructure and related problem. The objective of this course is to study socio-economic and demographic characteristic of town and cities, their present growth trends and future needs.

**Pedagogy:**

The objectives of the course are proposed to be met through a series of lectures interspersed with participative exercises such as Group discussions, report writing assignments, seminars, quizzes and written tests. Emphasis will be on developing students' sensitivity towards issues of cities, futuristic and sustainable solution hunting rather than learning of theories. The importance of contextuality of solutions will also be brought into discourse through exploration of relevant planning policies/ codes/standards/guidelines specifically for India. However, global efforts in the subject and writings of renowned authors will be extensively included to highlight the areas of intervention in town planning for the benefit of society from an architect's point of view.

The students are expected to come out knowledgable about broad issues related to cities, a background of origin of town planning an d its history. The statutory bodies with the different types of plans made by them for a city - their preparation and implementation will be understood. Apart from this the key learning outcome will be to visualise at the most or sense at least the factors that make or break the plans developed with great deliberation for the betterment of society.

| S NO. | WEEK/ | LECTURE /DISCUSSION | | ACTIVITY | SUBMISSION | MARKS | EXPECTED OUTCOME |
|---|---|---|---|---|---|---|---|
| 1 | **WEEK 01** | **Sketchfile/Research** | | Discussions - Introduction to Town, Development, Planning, Developmental Planning. Introduction to Assignment - 1 | | | |
| | **Studio 1** | **Lecture-1** | Introduction | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 2 | **WEEK 02** | **Sketchfile/Research** | | Lecture and presentation on Regional Planning – Meaning, need and importance, types of regions, delineation methods and definitions, Theories of regional planning. discussion on National Capital Region (NCR), need and importance with respect to capital city of Delhi, areas, jurisdiction and NCR Board – Role and formation. Census, Demography, 73rd & 74th | Submission - 1 Dream City | 1 | |
| | **Studio 1** | **Lecture-1** | Planning in India, Regional PLanning & Demography | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 3 | **WEEK 03** | **Sketchfile/Research** | | Introduction to Planning and the various stages involved. Lecture on CITY TYPES, TYPOLOGY, TYPES OF PLANS Land use planning, Master Plan preparation, standards, road-space etc Introduction to Assignment - 2 | | | |
| | **Studio 1** | **Lecture-1** | Plan types & prparation | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 4 | **WEEK 04** | **Sketchfile/Research** | | "Slums- their origin, the importance of slum inhabitants, problems and solutions " | Submission - 2 City types | 1 | |
| | **Studio 1** | **Lecture-1** | Slums | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 5 | **WEEK 05** | **Topic of Study** | | "Lecture on Adequate Housing and National Housing Policy(NHP) Elucidation of requirement of adequate housing, objectives of NHP, presentation on details of the Policy Introduction to Assignment - 3 | | | |
| | **Studio 1** | **Lecture-1** | Adequate Housing and National Housing Policy(NHP) | | | | |

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| | **Studio 2** | **Lecture-2** | NA | " | | | |
| 6 | **WEEK 06** | **Topic of Study** | | Lecture on Early planning concepts – Indus Valley, Jaipur, Garden City, Highrise city, Broadacre city, Linear city, Industrial city, and proponents Le Corbusier, F.L. Wright, Soria Y. Mata, Tony Garnier Lecture on History of human settlements – Early settlements, evolution of town, origin of planning and development, evolutionary growth of town planning in India | | | |
| | **Studio 1** | **Lecture-1** | Early Planning Concepts | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 7 | **WEEK 07** | **Topic of Study** | | Urban forms – Grid, Concentric and Radial, Linear, Multi-centredUrban Structures – Concentric Zone, Sectoral, Multiple nuclei | | | |
| | **Studio 1** | **Lecture-1** | Urban forms & structures | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 8 | **WEEK 08** | **Topic of Study** | | Transportation Planning – Discussions- Problems, Importance and components, Surveys, NUTP - Explanation on importance of transport in development of the country, vision and objectives of the policy, Details of the policy, and expected broad outcomes | Submission - 3 HIstorical concepts & Urban forms | 1 | |
| | **Studio 1** | **Lecture-1** | Transpportation Planning | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 9 | **WEEK 09** | **Test Week** | | | | | |
| | **Studio 1** | **Lecture-1** | | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 10 | **WEEK 10** | **Topic of Study** | | Planning of residential neighbourhoods<br><br>- Components, layout criteria, types of layouts | | | |
| | **Studio 1** | **Lecture-1** | Planning of residential neighbourhoods | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 11 | **WEEK 11** | **Prefinal** | | "Planning of residential neighbourhoods<br><br>- Components, layout criteria, types of layouts- Continued | | | |
| | **Studio 1** | **Lecture-1** | Residential neighbourhoods | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 12 | **WEEK 12** | **Review** | | Housing (Lecture) - Meaning, Terminology, concepts and importance of housing for national economy and community well-being, Land Acquisition Act | | | |
| | **Studio 1** | **Lecture-1** | Housing | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 13 | **WEEK 13** | **Seminar Introduction** | | Distribution of Seminar topics and explanation on the same | | | |
| | **Studio 1** | **Lecture-1** | | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|
| 14 | **WEEK 14** | **Review** | | | | | Submission -4 Seminars | | 2 | |
| | **Studio 1** | **Lecture-1** | Seminars | | | | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | | | | |
| 15 | **WEEK 15** | **Final Submission** | | | | | Submission -4 Seminars Contd. | | | |
| | **Studio 1** | **Lecture-1** | Seminars | | | | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | | | | |
| 16 | | | Standby for Holiday/Activity/miscellaneous | | | | | | | |

**Suggested Readings:-**


1. Gallion AB & Eisner S (1984) The Urban Pattern: City Planning and Design, C
Publication and Distributors, Delhi.
2. Bandopadhyay A (2000) The Text Book of Town Planning, Books and Allied
Kolkata.
3. Modak & Ambedkar (1971) Town and Country Planning & Housing, Orient
Ltd.
4. URDPFI Guidelines: Vol 1 & 2

**No.of Teaching Weeks: 16**
**Contact Hours: per week : L : 2 S: 0**
**Contact Hours: per sem : L : 32 S: 0**
**Credit: 2**
**Total Marks:100 (E=75 I=25)**

**Course Title: Town Planning**
**Course Code: AP-423**
**4th YEAR – 2023-24, Semester VII**
**Course Coordinator :Sheily Shrivastav**

**Objectives:**

The intention is to make architecture students aware of the problems of cities and how to address the various issues. The course focus is on the physical and spatial aspects of planning of cities. How have these being affected because of out-population, housing shortage, infrastructure and related problem. The objective of this course is to study socio-economic and demographic characteristic of town and cities, their present growth trends and future needs.

**Pedagogy:**

The teaching methodology planned is with a view to develop students sensitivity towards city as a living organism.Through a series of lectures, participative exercises and case-studies, the observation and analytical abilities of students will be honed to identify and address various issues in city planning - its problems, and the probable solutions.

**Expected Outcomes:**

The curriculum should enable the students to recognize the importance of town planning for a better living environment that will eventually make them more productive as part of a better society.

| S NO. | WEEK/ DATE | LECTURE /DISCUSSION | | ACTIVITY | SUBMISSION | MARKS | EXPECTED OUTCOME |
|---|---|---|---|---|---|---|---|
| 1 | **WEEK 01** | **Sketchfile/Research** | | Discussions - Introduction to Town, Development, Planning, Developmental Planning. Introduction to Assignment - 1 | | | |
| | **Studio 1** | **Lecture-1** | Introduction | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 2 | **WEEK 02** | **Sketchfile/Research** | | Theories of regional planning. discussion on National Capital Region (NCR), need and importance with respect to capital city of Delhi, areas, jurisdiction and NCR Board – Role and formation. Census, Demography, 73rd & 74th Amendment to the Constitution, Planning system in India | Submission - 1 Dream City | 1 | |
| | **Studio 1** | **Lecture-1** | Planning in India, Regional PLanning & Demography | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 3 | **WEEK 03** | **Sketchfile/Research** | | Introduction to Planning and the various stages involved. Lecture on CITY TYPES, TYPOLOGY, TYPES OF PLANS Land use planning, Master Plan preparation, standards, road-space etc Introduction to Assignment - 2 | | | |
| | **Studio 1** | **Lecture-1** | Plan types & prparation | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 4 | **WEEK 04** | **Sketchfile/Research** | | "Slums- their origin, the importance of slum inhabitants, problems and solutions " | Submission - 2 City types | 1 | |
| | **Studio 1** | **Lecture-1** | Slums | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 5 | **WEEK 05** | **Topic of Study** | | "Lecture on Adequate Housing and National Housing Policy(NHP) Elucidation of requirement of adequate housing, objectives of NHP, presentation on details of the Policy Introduction to Assignment - 3 " | | | |
| | **Studio 1** | **Lecture-1** | Adequate Housing and National Housing Policy(NHP) | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 6 | **WEEK 06** | **Topic of Study** | | Lecture on Early planning concepts – Indus Valley, Jaipur, Garden City, Highrise city, Broadacre city, Linear city, Industrial city, and proponents | | | |

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| | **Studio 1** | **Lecture-1** | Early Planning Concepts | city, industrial city, and proponents Le Corbusier, F.L. Wright, Soria Y. Mata, Tony Garnier Lecture on History of human settlements – Early settlements, evolution of town, origin of planning and development, evolutionary growth of town planning in India | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 7 | **WEEK 07** | **Topic of Study** | | Urban forms – Grid, Concentric and Radial, Linear, Multi-centredUrban Structures – Concentric Zone, Sectoral, Multiple nuclei | | | |
| | **Studio 1** | **Lecture-1** | Urban forms & structures | | | | |
| | **Studio 2** | **Lecture-2** | | | | | |
| 8 | **WEEK 08** | **Topic of Study** | | Transportation Planning – Discussions- Problems, Importance and components, Surveys, NUTP - Explanation on importance of transport in development of the country, vision and objectives of the policy, Details of the policy, and expected broad outcomes | Submission - 3 HIstorical concepts & Urban forms | 1 | |
| | **Studio 1** | **Lecture-1** | Transpportation Planning | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 9 | **WEEK 09** | **Topic of Study** | | Housing (Lecture) - Meaning, Terminology, concepts and importance of housing for national economy and community well-being, Land Acquisition Act | | | |
| | **Studio 1** | **Lecture-1** | Housing | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 10 | **WEEK 10** | **Topic of Study** | | Planning of residential neighbourhoods<br><br>- Components, layout criteria, types of layouts | | | |
| | **Studio 1** | **Lecture-1** | Planning of residential neighbourhoods | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 11 | **WEEK 11** | **Prefinal** | | "Planning of residential neighbourhoods<br><br>- Components, layout criteria, types of layouts- Continued | | | |
| | **Studio 1** | **Lecture-1** | Residential neighbourhoods | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 12 | **WEEK 12** | **Review** | | Distribution of Seminar topics and explanation on the same | | | |
| | **Studio 1** | **Lecture-1** | Seminar introduction | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 13 | **WEEK 13** | **Test Week** | | Test | | | |
| | **Studio 1** | **Lecture-1** | Test | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |
| 14 | **WEEK 14** | **Review** | | Housing (Lecture) - Meaning, Terminology, concepts and importance of housing for national economy and community well-being, Land Acquisition Act | Submission -4 Seminars | 2 | |
| | **Studio 1** | **Lecture-1** | Seminars | | | | |

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| | **Studio 2** | **Lecture-2** | NA | | | | |
| 15-16 | **WEEK 15-16** | **Final Submission** | | Housing (Lecture) - Meaning, Terminology, concepts and importance of housing for national economy and community well-being, Land Acquisition Act | Submission -4 Seminars Contd. | | |
| | **Studio 1** | **Lecture-1** | Seminars | | | | |
| | **Studio 2** | **Lecture-2** | NA | | | | |

**Course Title: Professional Practice**
**Course Code: AP-502**
**5th YEAR – 2023-24**
**Studio Coordinator: Sheily**

| WEEK/DATE | LECTURE /DISCUSSION | | ACTIVITY | SUBMISSION | MARKS | EXPECTED OUTCOME |
|---|---|---|---|---|---|---|
| **WEEK 01** | **Sketchfile/Research** | | Faculty to prepare notes on Architect and his office by faculty | Students to write notes as per their experience in office where they are under training on Architect & his office. | | |
| **Studio 1** | **Lecture-1** | Online Discussion | | | | |
| **Studio 2** | **Lecture-2** | | | | | |
| **WEEK 02** | **Sketchfile/Research** | | Faculty to send notes on Architect and his office by faculty. | Students to write notes as per their experience in office where they are under training on Architect & his office. | | |
| **Studio 1** | **Lecture-1** | Online Discussion | | | | |
| **Studio 2** | **Lecture-2** | | | | | |
| **WEEK 03** | **Sketchfile/Research** | | | Students to submit on line tutorial on Architect & his office. | 25 | To enable students to document and understand the working of an architect's office |
| **Studio 1** | **Lecture-1** | Online Discussion | | | | |
| **Studio 2** | **Lecture-2** | | | | | |
| **WEEK 04** | **Sketchfile/Research** | | Faculty to prepare notes on Architect's resposibility & office management | Students to write notes as per their experience in office where they are under training on Architect's resposibility and office management. | | |
| **Studio 1** | **Lecture-1** | Online Discussion | | | | |
| **Studio 2** | **Lecture-2** | | | | | |
| **WEEK 05** | **Topic of Study** | | Faculty to send notes on Architect's resposibility & office management | Students to write notes as per their experience in office where they are under training on Architect's resposibility and office management. | | |
| **Studio 1** | **Lecture-1** | Online Discussion | | | | |
| **Studio 2** | **Lecture-2** | | | | | |
| **WEEK 06** | **Topic of Study** | | | Submission of tutorial on Architect's responsibility & office management. | 25 | To enable students to document and understand the responsiblity of an architect and the office management |
| **Studio 1** | **Lecture-1** | Online Discussion | | | | |
| **Studio 2** | **Lecture-2** | | | | | |
| **WEEK 07** | **Topic of Study** | | Faculty to prepare notes on Project Co-ordination with consultant and project manager. | Students to write notes as per their experience in office where they are under training on Project co-ordination with consultant and project manager. | | |
| **Studio 1** | **Lecture-1** | Online Discussion | | | | |
| **Studio 2** | **Lecture-2** | | | | | |

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| **WEEK 08** | **Topic of Study** | | Faculty to send notes on Project Co-ordination with consultant and project manager. | Students to write notes as per their experience in office where they are under training on Project co-ordination with consultant and project manager. | | |
| **Studio 1** | **Lecture-1** | Online Discussion | | | | |
| **Studio 2** | **Lecture-2** | | | | | |
| **WEEK 09** | **Topic of Study** | | | Submission of tutorial on Project co-ordination with consultants and Project manager. | 25 | To enable students to document and understand the relationship and co-ordination with consultants and project manager |
| **Studio 1** | **Lecture-1** | Online Discussion | | | | |
| **Studio 2** | **Lecture-2** | | | | | |
| **WEEK 10** | **Topic of Study** | | Faculty to send notes on project co-ordination with clients. | Students to write notes as per their experience in office where they are under training on client co-ordination | | |
| **Studio 1** | **Lecture-1** | Online Discussion | | | | |
| **Studio 2** | **Lecture-2** | | | | | |
| **WEEK 11** | **Prefinal** | | | students to submit on line tutorial on project co-ordination with clients | 25 | To enable students to document and understand the relationship and co-ordination with clients |
| **Studio 1** | **Lecture-1** | Online Discussion | | | | |
| **Studio 2** | **Lecture-2** | | | | | |
| **WEEK 12** | **Review** | | Faculty to prepare notes on office accounting & billing. | Students to write notes as per their experience in office where they are under training on Office accounting & billing. | | |
| **Studio 1** | **Lecture-1** | Online Discussion | | | | |
| **Studio 2** | **Lecture-2** | | | | | |
| **WEEK 13** | **Test Week** | | Faculty to send notes on office accounting & billing. | Students to write notes as per their experience in office where they are under training on Office accounting & billing. | | |
| **Studio 1** | **Lecture-1** | Online Discussion | | | | |
| **Studio 2** | **Lecture-2** | | | | | |
| **WEEK 14** | **Review** | | | Students to submit on line tutorial on office accounting & billing. | 25 | To enable students to document and understand the accounting and billing in an architect's office |
| **Studio 1** | **Lecture-1** | Online Discussion | | | | |
| **Studio 2** | **Lecture-2** | | | | | |
| **WEEK 15** | **Review** | | | Students to submit compilation of all tutorials | 25 | |
| **Studio 1** | **Lecture-1** | Online Discussion | | | | |

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| **Studio 2** | **Lecture-2** | | | | marks / 150 | |
| **WEEK 16** | **Final Submission** | | final tutorials review, compilation submitted by students | Students to submit compilation of all tutorials | 25 | |
| **Studio 1** | **Lecture-1** | | | | | |
| **Studio 2** | **Lecture-2** | | | | marks / 150 | |