Course Title: **Architectural Design-1**  
Semester: I  
Course Code: AD 1

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**PROPOSED THEME: SPATIAL EXPLORATION -I**

**Course Objectives:** Introduction to the basic principles of design and architecture, and space articulation.

**Anticipated Learning Outcomes:** By the end of the course students will gain a fundamental knowledge of architecture and its principles.

**Content:** An insight into concepts of architecture: space, form, enclosure and quality of space, principles of design like harmony, symmetry etc. and their application.

Exercises related to elements of design, and perception of space.

Parameters of design, anthropometrics, human activity and the use of space,

Interrelationship of architectural space to form, structure, and materials to help students develop a visual and tacit structural understanding through models and installations.

Understanding nature as a contextual setting.

Design of a simple architectural form based on an understanding of anthropometrics.

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Course Title: **Architectural Design -II**  
Semester: II  
Course Code: AD 2

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**PROPOSED THEME: SPATIAL EXPLORATION- II**

**Course Objectives:** Study of the built environment and to develop a basic understanding of space and form.

**Anticipated Learning Outcomes:** By the end of the course students should have skills of drawing and representation; assimilate learnings of graphics, construction, structures and computers to apply to basic design.

**Content:** Looking at the immediate built environment and understanding its fundamental components and their impact on the surroundings.

Exercises relating personal experiences to behavioral needs and translating them into documented information that can be used as a basis for design. Problems aimed at drafting and presentation skills in the 2-D format.

Systematic introduction to issues related to design, its components and space standards; design of a basic shelter; an architectural form with a specific function.
Course Title: **Architectural Design**  
Semester: III

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**PROPOSED THEME: RESIDENTIAL & VERNACULAR**

**Course Objectives:** Systematic introduction to issues related with the design of human habitat, its components and space standards. The objective of the studio will be on understanding residential spaces in both the urban and traditional contexts.

**Anticipated Learning Outcomes:** An understanding of user needs and how they translate into program and manifestation in design in terms of space, materials and construction methodology in both the urban and traditional contexts.

**Content:** Design of a simple building for residential use in the immediate or observable environment with a focus on program and use. Exercises relating personal experiences to behavioral needs and translating them into architectural program requirements.

Study of vernacular architecture, emerging out of the traditional way of life of the people in a given climatic context and region. Understanding how the social and physical environment, climate of the place, materials and methods of construction impact vernacular architecture.

This study could be part of a village or part of a small town and would involve measuring buildings and a topographic survey.

The study will be followed by the design of a simple building / adaptive reuse in the context of the study.

Problems aimed at drafting and presentation skills in 2-D and 3D in both manual and electronic format.

Course Title: **Architectural Design**  
Semester: IV

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**PROPOSED THEME: SITE AND CONTEXT**

**Course Objectives:** The objective of the studio is to introduce students to the site and context as prime generators of design decisions.

**Anticipated Learning Outcomes:**

Ability to interpret site information as a decision-making aid.

**Content:** Focus will be on the site and context and their relationship to the built environment.

Activities, services and construction methods, phenomena of social utilizations, growth and change shall also be studied and analysed. Introduction to element of site-planning and landscaping.

Design of a group of buildings set in the context of the study with a focus on site and context.

The design of the environment outside the building.
Course Title: **Architectural Design**  
Course Code: AD 5  
Semester: V

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PROPOSED THEME: SOLAR RESPONSIVE DESIGN

**Course Objectives:** The objective of the studio is to introduce students to passive solar design concepts and techniques and their design application in a given climatic zone.

**Anticipated Learning Outcomes:** Students are expected to demonstrate an understanding and application of appropriate passive design strategies in the given studio exercise.

**Content:** Study of an urban environment in use and the design of a multifunctional public building set in that context. Understanding the urban activities, social utilization, provision of services, construction methods and possibility for change, shall be the intent of the urban study. The design problem in this context should seek to build comprehension of program development and design methodology. It should engage with the articulation of a multi-use and user program focusing on programmatic relationships, interactions with site and surroundings, and the built form as a moderator of the urban space. Introduction to urban development, controls, codes and by-laws. Introduction and application of shading and energy simulation softwares.

The building project should be of low services complexity largely relying on passive design strategies and natural systems of lighting and ventilation.

Course Title: **Architectural Design**  
Course Code: AD 6  
Semester: VI

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PROPOSED THEME: ENERGY EFFICIENT DESIGN

**Course Objectives:** The objective of the course is to focus on energy efficiency as an important design determinant.

**Anticipated Learning Outcomes:** Students should be able to demonstrate through their design their understanding of energy efficient systems, structural systems, services and construction systems in the design of a modern medium to high rise building in the urban context.

**Content:** Design of a medium to high-rise building in a dense urban setting. The problem should attempt to bring out a comprehension of the framework that outlines a building interior, the structural system and the services core, and the relation of this interior with the exterior environment through the building skin. The project should be of high services complexity with mechanical systems for space conditioning, parking and other services, and include the integration of active energy systems.

The project should be seen as a culmination of understandings for conceptualization and realization of individual building design including structural and construction systems.
Course Title: **Architectural Design**  
Course Code: AD 7  
Semester: VII

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**PROPOSED THEME: SERVICES AND STRUCTURES (CHOICE BASEDUDIO)**

**Course Objectives:** The objective of the course is the application of an understanding of structures and services in the design of a complex building in the urban context.

**Anticipated Learning Outcomes:** The students should be able to demonstrate their understanding of structures and services and coordination of the same through their design project.

**Content:**
- Design problem of a complex building involving a high level of services and advanced structural systems e.g. a hospital, hotel, sports facility building, long span structure and so on.
- Exercises in simulation and conceptual modeling shall be conducted.
- The studio will also focus on sustainable design principles, including waste recycling, rain water harvesting, site planning principles and landscaping.

This will be a choice based studio, with students opting for a studio of their interest.

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Course Title: **Architectural Design**  
Course Code: AD 8  
Semester: VIII

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**PROPOSED: TRAINING SEMESTER**

**Course Objectives:** The aim of the training semester is to provide:
- Structured work based learning in industry in order to enhance learning and employability skills.
- Assimilation and application of theoretical knowledge in the practical world.
- Exposure to Office Management and Site Management practices.
- Learning interpersonal relations with consultants, service providers, industry representative, clients, contractors and co-workers.

**Anticipated Learning Outcomes:**
- Students must demonstrate an understanding of:
  - the design philosophy, or vision of the architectural office and its implementation in the project/s that the student has been associated with.
  - how the architectural design process evolves when structural and service issues are integrated to create the final product based on the projects handled by the student.
  - how drawings are used at site and an insight into the relationship between the site and the office based on the projects handled by the student.

**Content:** Architectural training to be taken in the office of an experienced architect registered with COA with minimum five years experience post COA registration, and working in the field of architecture and allied disciplines. In case the student chooses to work in a firm where the principal is not an architect, he/she must be mentored by an employee of the firm registered with COA and with the necessary experience. All aspects of training will also be certified by the trainer. Training anywhere in the world is permitted subject to the above conditions.
# Architectural Design

**Course Title:** Architectural Design  
**Course Code:** AD 9  
**Semester:** IX

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**PROPOSED THEME:** Urban Interventions

**Course Objectives:** To understand the city under study, read the issues in a given area after a methodical analysis and propose housing/urban design/campus design solutions.

**Anticipated Learning Outcomes:** Students will demonstrate through design their understanding of urban issues relating to the built environment.

**Content:**
Issues related to the growing problems of urban areas in third world countries and their future development shall be explored.
Emphasis shall be on the design with relation to the contextual environment, heritage, traffic, planning controls and impact analysis.
An understanding of the architectural implications of such development scheme should lead to insights in the formulation of urban design controls and urban planning policy.
The studio exercise could involve the design of a group of buildings in the urban context. This could be a greenfield/brownfield development, redevelopment or revitalization project in the context of the city under study.

**Suggested Pedagogical Approach:**
This will be a choice based studio, with students opting for a studio of their interest

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# Architectural Design Thesis

**Course Title:** Architectural Design Thesis  
**Course Code:** AD 10  
**Semester:** X

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**PROPOSED: THESIS**

**Course Objectives:**
To demonstrate the students’ capability of synthesizing architecture, engineering systems, social sciences and humanities through a capstone project which showcases creative and critical thinking abilities and skills developed through the course.

**Anticipated Learning Outcomes:**

**Content:**
The Architectural Thesis is the culmination of the development of the student’s knowledge, attitudes and skills over the course of studies in architecture.
It is an occasion for exercising conscious choices in the field based on the student’s personal abilities and inclinations, and for testing out his commitment.
The student, in consultation with the faculty, is expected to demonstrate through an imaginative approach, his expertise in effecting positive changes in our built environment.
This will be a choice based studio, with students opting for a project in an area of their interest.