



INDIA'S FIRST UNIVERSITY FOR STARTUP

Swarnnim Institute of Design & Planning
Batchlor of Architecture
5 Years/ 10 Semesters

Semester: I Subject: Humanities

Course Code	Credit	Course Hours	Internal				External			
33010103	2	--	Theory	Passing	Practical	Passing	Theory	Passing	Practical	Passing
			50	25	--	--	50	25	--	--

Objective:

Study of man and his culture to form derivation in the contemporary world, study the formalization of a civilized state through a long collective human experience.

Content:

1. Study the Ancient World through its History, Art, Religion, Culture, anthropology, philosophy, etc. To earmark culture landmark responsible for shaping our surrounding.
2. Introduction of society, basic concept of society-group, community (rural and urban), association, institution.
3. Study of Medieval and Modern times to understand the culture development through the ages.

Methodology:

1. Concepts through lectures, various digital mediums, demonstrations etc.
2. Studio/workshop hands on
3. Experimentation with various mediums
4. Practical assignments both at an individual and group level.
5. Group presentations, discussions, debates and critiques.

Book Recommended:

1. Glimpse of world history
2. Ascent of man- J.Bronoski
3. Humanities through eras- Philip Soergel
4. An introduction to sociology- Vidhya Bhushan and D. R. Sachdeva
5. Indian Society and Culture – Continuity and change by Nadeem Husain
6. House, Form and Culture – Amos Rappoport



Semester: II

Subject: History of Architecture I

Course Code	Credit	Course Hours	Internal				External			
33010206	2	--	Theory	Passing	Practical	Passing	Theory	Passing	Practical	Passing
			50	25	--	--	50	25	--	--

Objective:

1. To understand the Architectural Elements, Stylistic features, Symbolism, and Concepts of
2. Space in the Indian Architecture.
3. To Study ancient civilizations and their development.

Content:

1. Development of various architectural styles with reference to the influencing factors such as
 1. Geographical, climatic, religious social and political conditions.
 2. Prehistoric Architecture
 3. Egyptian Architecture
 4. Mesopotamian, Chinese, Japanese, Roman, Greek
 5. Indus valley , south east civilization, African civilizations

2. History of architecture to be studied as history of development of building forms, ornamentation, structural solutions, construction methods, plans and building façades.

To understand the trade route in Indian subcontinent and its influence in Indian architecture. To observe and understand the influence of non-physical parameters such as politics, culture, religion, tradition etc. in architecture.

3. Sacred Architecture of Indian Subcontinent (Hindu, Buddhist and Jain).
4. The Buddhist Period in India and its Monuments including Rock cut Buddhist Chaitya Halls, Viharas and Stupas built in masonry.
5. Early temple forms derived after the decline of the Mauryan dynasty in India.

Methodology:

1. Concepts through lectures, various digital mediums, demonstrations etc.
2. Studio/workshop hands on
3. Experimentation with various mediums
4. Practical assignments both at an individual and group level.
5. Group presentations, discussions, debates and critiques.



Book Recommended:

1. Glimpse of world history
2. Ascent of man- J.Bronoski
3. Humanities through eras- Philip Soergel
4. An introduction to sociology- Vidhya Bhushan and D. R. Sachdeva
5. Indian Society and Culture – Continuity and change by Nadeem Husain
6. House, Form and Culture – Amos Rappoport
7. History of Architecture, Banister Fletcher
8. Civilizations by Sir Kenneth Clark, Publisher: Hodder And Stoughton (15 August 2005)



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Subject: Environment Science & Services – I

Course Code	Credit	Course Hours	Internal				External			
33030305	2	--	Theory	Passing	Practical	Passing	Theory	Passing	Practical	Passing
			50	25	--	--	50	25	--	--

Objective:

To understand the correlation between built environment and climate

Content:

1. Climate – Constituent elements, classification of tropical climatic zones
2. Effect of climate on man, shelter and environment
3. Human comfort conditions – comfort chart, comfort zone, effective temperature
4. Macro Climate & Micro Climate

Methodology:

Lecture based on theory and class assignments, making presentations, sketches and models.

The students will be encouraged to do case studies and industrial site visits for the same.

Learning Outcome:

The students shall be able to understand the importance of different climatic conditions on different geographical situation along with the importance of human comfort level in a particular built environment. The students shall also be able to understand the macro climate and micro climate.



Subject: History of Architecture – II

Course Code	Credit	Course Hours	Internal				External			
33010305	2	--	Theory	Passing	Practical	Passing	Theory	Passing	Practical	Passing
			50	25	--	--	50	25	--	--

Objective:

1. Study of Temple architecture and its development.
2. Study of what defines the vernacular built forms and its aspects.
3. To Study Development of Western Art and Architecture

Content:

1. Development of various architectural styles with reference to the influencing factors such as
2. Geographical, climatic, religious social and political conditions.
3. Regional monuments of Gujarat and Rajasthan: Step-wells (Vav) and Reservoirs (Kund).
4. Architecture in Maratha Period: Pols - Khadkis, Terraced Temples.
5. Study of Sassanian architecture and its adaptation in Early Islamic Architecture (Spain, Turkey and North-Africa).
6. Development of Western Art and Architecture: Early Christian, Byzantine.

Methodology:

1. Concepts through lectures, various digital mediums, demonstrations etc.
2. Studio/workshop hands on
3. Experimentation with various mediums
4. Practical assignments both at an individual and group level.
5. Group presentations, discussions, debates and critiques.

Book Recommended:

1. Glimpse of world history
2. Ascent of man- J.Bronoski
3. Humanities through eras- Philip Soergel
4. An introduction to sociology- Vidhya Bhushan and D. R. Sachdeva
5. Indian Society and Culture – Continuity and change by Nadeem Husain
6. House, Form and Culture – Amos Rappoport
7. History of Architecture, Banister Fletcher
8. Civilizations by Sir Kenneth Clark, Publisher: Hodder And Stoughton (15 August 2005)



Subject: Environment Science & Services II

Course Code	Credit	Course Hours	Internal				External			
33010404	2	--	Theory	Passing	Practical	Passing	Theory	Passing	Practical	Passing
			50	25	--	--	50	25	--	--

Objective:

Built Environment & Climate.

Content:

1. Ventilation – Air movement & fenestration, solar orientation, Sun path pattern & shading Devices.
2. Traditional House Form & Settlement pattern in various tropical climates.
3. Design Tools – Mahoney Tables, Sun Path diagrams, etc
4. Day lighting – components, architectural methods of borrowing day light; control of glare.

Methodology:

Lecture based on theory and class assignments, making presentations, sketches and models.

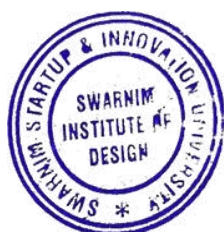
The students will be encouraged to do case studies and industrial site visits for the same.

Learning Outcome:

Understanding of climatic conditions and its resultant effects in the built environment of architectural design.

Book Recommended:

1. Manual of Tropical Housing by Otto. Koenigsberger
2. Design primer for hot climate by Allan Konya
3. Design with climate by Victor Olgyay
4. Man, Climate and Architecture by B. Givoni
5. Climatic Building Design by Donald Watson



Subject: Environment Science & Services – III

Course Code	Credit	Course Hours	Internal				External			
33010504	2	--	Theory	Passing	Practical	Passing	Theory	Passing	Practical	Passing
			50	25	--	--	50	25	--	--

Objective:

To learn the fundamentals and utility of solid waste and water management and a basic understanding of green architecture and conventional system of generation of electricity.

Content:

1. Solid and Hazardous Waste Management- types and sources, generation rates, solid waste components, Solid waste collection and transportation: container systems, layout of collection routes, transfer stations and transportation. Recycling and composting, disposal of solid waste sanitary land filling, incineration of solid waste.
2. Electrical Services: Conduit, piping, Cases, Capping, Distribution/ Junction box; Wires/ Cables; Lighting fixtures/ non-lighting fixtures; Switch boards.
3. Conventional system of electricity generation: Hydro, Solar, Wind.
4. Green Building System – I: Introduction to GRIHA, IGBC, and LEED

Methodology:

1. Lectures will be based on theory, presentations
2. Presentations based on case studies and literature studies will be done to understand the concepts.
3. Site visits and industrial visits will be encouraged for better understanding and application of these concepts.

Learning Outcome:

To develop basic understanding of building services and conventional ways to manage it.

Book Recommended:

1. Bhavikatti, S.S. Building Construction. Vikas Publishing House Pvt.Ltd, 2012.
2. McKay, W.B. Building Construction Volume-II. 4th ed., Logman Group Pvt.Ltd, 1970.
3. McKay, J.K. Building Construction Volume-IV. 4th ed., Longman Group Limited, 1993.



Subject: History of Architecture – IV

Course Code	Credit	Course Hours	Internal				External			
33010505	2	--	Theory	Passing	Practical	Passing	Theory	Passing	Practical	Passing
			50	25	--	--	50	25	--	--

Objective:

1. Study of the genesis and development of Islamic Architecture under the Delhi Sultanate and Mughals, and how Islamic architecture of India corresponded with the architecture in Iran and Central Asia.
2. Study of the development of the Renaissance era, its achievements and the impacts on architecture across Italy.

Content:

1. Study of the genesis and development of Islamic Architecture in India (Sultanate and Mughal).
2. Provincial Islamic Architecture in India, with a focus on the Islamic Architecture of Gujarat.
3. Study of Late Islamic Architecture in Central Asia and Iran.
4. Renaissance architecture in Italy and rest of Europe (Early and High Renaissance).
5. Developments in Europe after the medieval period: The Renaissance (Early and High), Baroque and Rococo.

Methodology:

1. Concepts through lectures, various digital mediums, demonstrations etc.
2. Studio/workshop hands on
3. Experimentation with various mediums
4. Practical assignments both at an individual and group level.
5. Group presentations, discussions, debates and critiques.

Book Recommended:

1. Global History of Architecture by Francis Ching
2. A history of Architecture by Sir Bannister Fletcher
3. Encyclopedia of Architecture by Joseph Gwilt
4. Introduction to Indian Architecture by Brinda Thapar



Subject: Environment Science & Services – IV

Course Code	Credit	Course Hours	Internal				External			
33010604	2	--	Theory	Passing	Practical	Passing	Theory	Passing	Practical	Passing
			50	25	--	--	50	25	--	--

Objective:

Understanding green buildings, acoustics and different mechanical based services used in a building indetail.

Content:

1. Acoustics – sound and its behavior, auditorium/theater, sound insulation and materials used for it, different types of sound according to amplitude and human range, impact of acoustics on a building
2. HVAC- types, mechanized ventilation, air conditioning process, types of insulation.
3. Firefighting – different types of buildings, norms, precaution in different types of fire, mechanism for fire exhaustion.
4. Mechanical services: lifts, escalators, elevators.
5. Green Building Systems- II: practices- local/national and global, application of various materials in green buildings, planning aspects to achieve sustainable architecture.

Methodology:

Lectures based on theory and making presentations for different mechanical services. The students will be encouraged to do case studies and site visits for the same and application of concepts in their designproject.

Learning Outcome:

To enrich students' understanding on green buildings along with acoustics and application of mechanicalbased services in a building.

Book Recommended:

1. Doelle, Leslie L. Acoustics in Architectural Design. U.S. Department Of Health Education & WelfareOf Education, 1965, Accessed 6 Aug 2019.
2. Kleiner, Mendel. Acoustics of Small Rooms. CRC Press Taylor & Francis Group, 2014, Accessed 6Aug 2019.
3. Koeningsberger, O. H. Manual of Tropical Housing and Building. Longman, 1974.
4. GRIHA Manual. Ministry of New and Renewable Energy, Govt. Of India and the Energy andResources Institute, 2011.



Subject: History of Architecture – V

Course Code	Credit	Course Hours	Internal				External			
33010605	2	--	Theory	Passing	Practical	Passing	Theory	Passing	Practical	Passing
			50	25	--	--	50	25	--	--

Objective:

1. Study of colonial architecture in India, and the evolution of Indo-Saracenic architecture.
2. Study of how industrialization changed with global scenario of architecture, and how it pavedway of modernist architecture.
3. Study of the contemporary and global trends in architecture in India and the world.

Content:

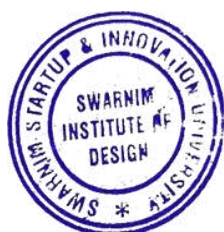
1. Study of the British Colonial Architecture and advent of new cities
2. How the other Colonies built in India (Dutch, French and Portuguese)
3. Impact of Industrialization in Europe and Rise of Modernism.
4. Advent of Modernism and Skyscrapers in US.
5. Architecture in India post-independence
6. Globalization and Contemporary Architecture across the globe

Methodology:

1. Concepts through lectures, various digital mediums, demonstrations etc.
2. Studio/workshop hands on
3. Experimentation with various mediums
4. Practical assignments both at an individual and group level.
5. Group presentations, discussions, debates and critiques.

Book Recommended:

1. History of Modern Art: Painting, Sculpture, Architecture by H. H. Arnason
2. Global History of Architecture by Francis Ching
3. Encyclopaedia of Architecture by Joseph Gwilt
4. Introduction to Indian Architecture by Brinda Thapar



Subject: Theory of Architecture

Course Code	Credit	Course Hours	Internal				External			
			Theory	Passing	Practical	Passing	Theory	Passing	Practical	Passing
33010802	4	--	50	25	--	--	50	25	--	--

Objective:

1. To introduce the various facts of architecture and it's influencing factors.
2. To introduce the formal vocabulary of architecture as one of the ways to experience the built environment.
3. To understand and appreciate the universals of architectural form and space in terms of elements and principles within particular historical, cultural and geographic contexts.

Content:

1. Definitions of Architecture – Origin of Architecture – architecture as a discipline – context for architecture as satisfying human needs: functional, aesthetic and psychological-outline of components and aspects of architectural form-site, structure, skin, materials, services, use, circulation, expression, character, experience – Introduction to the formal vocabulary of architecture and Gestalt ideas of visual perception.
2. Understanding perceptual effects of specific configuration of architectural spaces – Enclosure –Internal and External, Continuous spaces – Spatial relationship and its types, spatial organization: Centralized, Linear, Radial Clustered, Grid –built form and open space relationships.
3. Understanding fundamental principles such as proportion, scale, balance, symmetry/asymmetry, rhythm, axis, hierarchy, datum, unity, harmony, dominance, climax – Movement with reference to the architectural form and space –detailed study of relationship between architectural form and circulation – Types of circulation – Building approach and entrance, path configuration and form, path space relationship, orientation.
4. Classical, Neoclassical, Post Modernism
5. Modern Style in Architecture



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Subject: Elective - Construction Management

Course Code	Credit	Course Hours	Internal				External			
33010805	2	--	Theory	Passing	Practical	Passing	Theory	Passing	Practical	Passing
			--	--	50	25	--	--	50	25

Objective:

To understand different management techniques suitable for planning and constructional Projects and to understand the management system for accomplishing the task efficiently in terms of both time and cost.

Content:

1. Project management concepts -objectives, planning, scheduling Controlling and role of decision in Project management. Traditional management system, Gantt's approach, Load chart, Progress Chart, Development of bar chart, Merits and Demerits
2. Project Network -Events Activity, Network Rules, Graphical Guidelines for Network, Umpiring the events, Cycles, Development of Network -planning for Network Construction, Models of Network construction, steps in development of Network. Work Break down Structure, hierarchies. Concepts: critical path method -process, activity time estimate, Earliest Event time, latest allowable Occurrence time, starts / finishes time of activity, float, and critical activity and path problems.
3. Cost model - Project cost, direct cost, indirect cost, slope curve, Total project cost, optimum duration contracting the network for cost optimization. Steps in cost optimization, updating, resource allocation-resource smoothing, and resource levelling.
4. PERT network, introduction to the theory of probability and statistics. Probabilistic time estimation for the activities for the activities of PERT Network.
5. Introduction: Creating a new project, building task. Creating resources and assessing costs, refining your project. Project Tracking-Understanding tracking, recording actual. Reporting on progress. Analyzing financial progress.

Methodology:

The lectures will be based on theory, presentations and class assignments, and sketches. The students will be encouraged to do case studies and construction site visits for the same.



Learning Outcome:

The students will by the end of the semester will have known phases of construction project, Indian construction industry need of construction management, stakeholders and organization for construction project management. They will also know about construction equipment management, construction material management: material management functions, construction project cost and cost and value managements and construction quality and safety management.

Book Recommended:

1. Dr. B.C. Punmia and K.K. Khandelwal -Project planning and control with PERT/CPM, Laxmi publications, New Delhi, 1987.
2. Elaine Marmel, Microsoft office Project 2003 Bible, Wiley Dreamtect (P) Ltd., New Delhi, 2004.
3. Sam Kubba, "Green Construction Project Management and Cost Oversight", Elsevier, 2010.
4. S.P. Mukhopadyay, "Project Management for architects and Civil Engineers", IIT, Kharagpur 1974.
5. Jerome D. Wiest and Ferdinand K. Levy, "A Management guide to PERT/CPM", prentice hall of Indian pub. Ltd. New Delhi 1982.
6. SR.A. Burgess and G. White, "Building production and project management", the Construction press, London 1979



Subject: Office Training

Course Code	Credit	Course Hours	Internal				External			
			Theory	Passing	Practical	Passing	Theory	Passing	Practical	Passing
33010701	30	--	--	--	50	25	--	--	50	25

Objective:

To train the students in varied aspects of design focused on Architecture and provide adequate knowledge of the industry to improve them on a holistic level.

Content:

The Office Training of sixteen-week duration envisages varied experience in order to ensure exposure to the student to various tasks in an office. It is up to the student to choose the office and get consent letter by the employer and their details.

The student will be issued a set of log sheets, which has to be filled weekly and authenticate the information with the employer after every four weeks.

The student will submit the log sheet, copies of the drawings prepared, photographs of the work executed on site and the covering letter by the employer at the time of viva date declared by the university.

At the end of the training period, student will have to procure a certificate of training and satisfactory performance from the concerned office in the prescribed format. Certificate of satisfactory completion of training same shall be submitted to the institute.

Learning Outcome:

During the training, the students will gain an adequate knowledge of working in an office to gain experience in varied aspects of design, industry, site works and other miscellaneous work of an office. This will help the students prepare holistically for future design works.



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Subject: Urban Planning

Course Code	Credit	Course Hours	Internal				External			
33010902	2	--	Theory	Passing	Practical	Passing	Theory	Passing	Practical	Passing
			50	25	--	--	50	25	--	--

Objective:

Architecture, community/neighborhood design, urban design and urban planning are connected hence architecture, is not an isolated private statement. Rather, it is at once a public (urban) act and a reflection of our understanding of the world at any given moment: i.e., what it might be. It will operate on the premise that public spaces are important to the livability of a city. The public realm quite literally provides the platform for its arts and culture to exist and adds to the desirability of its inhabitants.

Developing an understanding of urban context with its schematic abstraction and contemporary manifestations

Content:

1. Evolution of human settlements & Interpretation of urban forms – historic determinants and settlement types; an overview of landmark developments in conceptual theories related to settlement patterns and the resulting dynamics of changing urban forms and interpretation of urban form as manifested in literature, arts, technology and politics during different stages of time.
2. Understanding the term Urban: Definitions and Approaches, looking at how various theorists have defined / understood the “urban” or the “city” as an object of investigation.
3. Urbanism & New Urbanism
4. Understanding the term Urban Design and inter-relation of Architecture and Urban Design
5. 'Urban Design' as a focus on physical improvement of the public environment.
6. Public Realm, definition and understanding the design of Public realm
7. City Scape / Town Scape, understanding and analysis
8. Understanding of Terminologies such as Tissue, Block, Grains, Porosity, Typology, District, Landmarks.
9. Contemporary Planning Process & Mechanisms –significance of land use planning, Development Plan & various methods of managing land as TP Schemes etc.

Methodology:

The lectures will be based on theory, presentations and class assignments, and sketches. The students will be encouraged to do case studies and construction site visits for the same.



Learning Outcome:

The student will be able to propose an appropriate design of urban fabric refer different theories & approaches. The students will also be able to analyse the physical, cultural and socio-economic factors also familiar with different terminologies related to Urban planning.

Books Recommended:

1. Garden Cities: Theory & Practice of Agrarian Urbanism By Andrés Duany and Duany Plater-Zyberk
2. By the City, For the City: An Atlas of Possibility for the Future of New York by The Institute for Urban Design Multi-Story Books
3. Pocket Neighborhoods: Creating Small-Scale Community in a Large-Scale World by Ross Chapin Taunton Press.



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Semester: I

Subject: Interior Material and Construction - I

Course Code: 32010101

Credits: 4

Teaching Scheme per Week							
Theoretical		Tutorial		Practical		Total	
2		2		2		6	
Examination Pattern							
Internal				External			
Theoretical 25	Passing 12.5	Practical 25	Passing 12.5	Theoretical 50	Passing 25	Practical 0	Passing 0

Relevance:

An important part of interior design is the specification of suitable materials for the various components that make up a particular interior space. Using environmentally preferable interior materials is an important issue, to reduce the flow of non-renewable resources into interior materials and pollutants from interior materials throughout life cycle of interior materials.

Objective:

- 1 To get acquainted with basic building materials
- . To understand basic building materials and construction techniques
- 2 To learn regarding various natural building materials, its origins, manufacturing, construction
- .

Content:

1. Introduction of materials – their physical and behavioural properties, methods, tools of application, different construction technique and criteria for selection of material based on design etc.
2. Understanding of construction fundamentals of all natural building construction materials: Eg. Mud, Brick, Stone, and Bamboo.
 - a. Visual quality of all the materials in terms of texture, colour and patterns.
 - b. Material strength, longevity, maintenance
 - c. Material processing
3. Construction Techniques based on the material (learning through doing)
4. Rational choice for material selection – parameters of design aspects of using various materials in construction of different elements of construction system in relation to the properties of materials.
5. Study of different building elements, structure and their behaviour.



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Methodology:

1. Concepts through lectures, various digital mediums, demonstrations etc.
2. Studio/workshop hands on
3. Experimentation with various mediums
4. Practical assignments both at an individual and group level.
5. Case Studies
6. Industrial Visits
7. Market Surveys

Book Recommended:

1. Building Construction, W.B. McKay
2. Building Material and Construction, B.C. Punamia
3. Building Materials, S.K. Duggal
4. The Art of Earth Architecture: Past, Present, Future, Jean Dethier
5. Building with Bamboo: A Handbook: Janssen, Jules J.A.
6. The Art of Natural Building: Design, Construction, Resource by Joseph E. Kennedy (Editor),
7. Michael G. Smith (Editor), Catherine Wanek (Editor)'
8. House of Earth: A complete handbook for earthen construction, Conrad Rouge
9. House, Form and Culture, Amos Rappoport

E-Sources key words:



A handwritten signature in black ink, appearing to read 'Pradeep'.

Semester: I

Subject: Humanities

Course Code: 32010103

Credits: 2

Teaching Scheme per Week							
Theoretical		Tutorial		Practical		Total	
2		0		0		2	
Examination Pattern							
Internal				External			
Theoretical	Passing	Practical	Passing	Theoretical	Passing	Practical	Passing
50	25	0	0	50	25	0	0

Relevance:

To expose the students to the relationship between man and environment world history and to familiarize the students with basic concepts, theories and issues of culture. Understanding of humanity, its culture to form derivation for design-physical manifestation in the contemporary world.

Objective:

Study of Man and his culture to form derivation in the contemporary world, study the formalization of a civilized state through a long collective human experience.

Content:

1. Study the Ancient World through its History, Art, Religion, Culture, anthropology, philosophy, etc. To earmark culture landmark responsible for shaping our surrounding.
2. Introduction of society, basic concept of society-group, community (rural and urban), association, institution.
3. Study of Medieval and Modern times to understand the culture development through the ages.

Methodology:

Concepts through lectures, various digital mediums, demonstrations etc.

Studio/workshop hands on

Experimentation with various mediums

Practical assignments both at an individual and group level.

Group presentations, discussions, debates and critiques.



Book Recommended:

Glimpse of World History

Ascent of Man, J.Bronowski

Humanities through Eras- Philip Soergel

An introduction to Sociology, Vidhya Bhushan and D. R. Sachdeva

Indian Society and Culture, Continuity and change by Nadeem Hussain

House, Form and Culture, Amos Rappoport

E-Sources key words:



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Semester: II

Subject: Interior Material and Construction – II

Course Code: 32010202

Credits: 6

Teaching Scheme per Week							
Theoretical		Tutorial		Practical		Total	
2		2		2		6	
Examination Pattern							
Internal				External			
Theoretical 25	Passing 12.5	Practical 15	Passing 12.5	Theoretical 50	Passing 25	Practical 0	Passing 0

Objective:

To understand basic building and materials and construction techniques for building and composite architecture and to acquaint with brick as a building material.

Content:

1. Introduction to brick – its physical and behavioural properties, methods, tools of application, types of construction technique
2. Understanding of brick as construction fundamentals (as mentioned below) of construction material
 - a. Visual quality of all the materials w.r.t. texture, colour and patterns
 - b. Material strength, longevity and maintenance
 - c. Material processing
3. Construction techniques based on the material (learning through doing).
4. Masonry bonds and construction – their types

Methodology:

Lecture based on theory and class assignments, making drawings, sketches and models. The students will be encouraged to do case studies and industrial site visits for the same.

Learning Outcome:

The students will acquaint themselves with the understanding of brick as a material, its behavioural properties, and different methods and construction techniques.



Book Recommended:

1. Ching, D.K. Illustration of Building and Construction
2. Rangwala S.C. Building Construction
3. Bindra S.P. Building Construction
4. Mackay W.B. Building Construction

E-Sources key words:



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Semester: II

Subject: History of Interior and Furniture Design – I

Course Code: 32010205

Credits: 2

Teaching Scheme per Week							
Theoretical		Tutorial		Practical		Total	
2		0		0		2	
Examination Pattern							
Internal				External			
Theoretical	Passing	Practical	Passing	Theoretical	Passing	Practical	Passing
0	0	50	25	50	25	0	0

Objective:

To provide students an overview of the history and development of the interior design in the ancient worlds, including the critical social, religion and political events that influenced the field and learning the working vocabulary used to describe interiors, furniture, and decorative arts. Focus Area: Traditional and Vernacular interiors in India.

Content:

- 1 Introduction and evolution of interior design as a discipline.
 1. Understanding the contextual reference (climate, social, religion and political events etc.) in the ancient worlds.
- 2 etc.) in the ancient worlds.
3. Traditional and vernacular notions of space making.
4. Concept of space making craft and the integration with interior design.
5. Applications of space making crafts in traditional and vernacular built forms.
6. Traditional and vernacular elements for space making in the context of India.

Methodology:

Theoretical presentation and group discussions, classwork, assignments and presentations.

Learning Outcome:

The students will understand the history and development of the interior design in the ancient worlds and the space making in the traditional and vernacular built forms in global and Indian context.



Book Recommended:

- i. Ching and Bingel. Interior Design Illustrated
- ii. Ching, D.K. Form, Space and Order
- iii. Ching, D.K. A Global History of Architecture.
- iv. Fletcher, Bannister. History of Architecture. CBS Publisher and Distributors, New Delhi.
- v. Jain, Rishav. Crafts in Interior Architecture: India. 1990 Onwards

E-Sources key words:



Prasad

Semester: III

Subject: Interior Material and Construction – III

Course Code: 32010302

Credits: 6

Teaching Scheme per Week							
Theoretical		Tutorial		Practical		Total	
2		2		2		6	
Examination Pattern							
Internal				External			
Theoretical 25	Passing 12.5	Practical 25	Passing 12.5	Theoretical 80	Passing 40	Practical 0	Passing 0

Objective:

To understand basic building and materials and construction techniques for building and composite architecture and to acquaint with basic building materials such as Timber, Bamboo, Reconstituted wood etc.

Content:

1. Material –timber – classification of trees, characteristics of good timber, sawing methods, tools and techniques of basic timber joinery.
2. Application of timber to openings like doors and windows, Timber panelled, partly panelled and partly glazed and fully glazed doors including hardware, design standards and criteria of opening. Application of timber to partition and panelling.
3. Material –Reconstituted wood, plywood, block boards, particle boards, fibre boards, cement fibre boards etc.- their properties, process of manufacturing, tools and techniques of joinery. Surface finishes to reconstituted wood like laminates, veneer, and other proprietary material.
4. Wall Systems: Brick walls for interior division of spaces and other uses (half brick and one brick thickness). Light weight concrete blocks, hollow blocks, aerated concrete blocks
5. Openings: Teak wood door and window frames, metal composite frames, stone jamb linings, Arches in brick and stone, Lintels
6. Trusses (bamboo & timber) – Types of trusses, components, joinery details & construction methodologies
7. Staircase - Types, components, joinery details & construction methodologies



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Methodology:

Lecture based on theory and class assignments, making drawings, sketches and models. The students will be encouraged to do case studies and site visits for the same.

Learning Outcome:

The students will learn the physical and behavioural properties, methods, application and different techniques of timber as a construction and interior material. For all the above mentioned materials a basic understanding of the market research and current trend analysis will be cumulated through case studies.

Book Recommended:

Ching, D.K. *Form, Space and Order*
Fredrick, Matthew. *101 Thing I Learnt In Architecture*
Ching, D.K. *Illustration of Building and Construction*
Rangwala S.C. *Building Construction*
Bindra S.P. *Building Construction*
Mackay W.B. *Building Construction*

E-Sources key words:



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Semester: III

Subject: History of Interior & Furniture Design II

Course Code: 32010306

Credits: 2

Teaching Scheme per Week							
Theoretical		Tutorial		Practical		Total	
2		0		0		2	
Examination Pattern							
Internal				External			
Theoretical	Passing	Practical	Passing	Theoretical	Passing	Practical	Passing
0	0	50	25	50	25	0	0

Objective:

To provide students an overview of the history and development of the interior design, including the critical social and political events that influenced the field & learning the working vocabulary used to describe interiors, furniture, and decorative arts. – Focus Area: Historic Interior Design and Furniture (18th century to 20th century)

Content:

1. France in the 18th Century
 - a. Louis XIV
 - b. Interiors in Rococo Style
 - c. The Luxury Market in France in the 18th Century Introduction to the concept and its techniques
2. Neoclassicism, French Empire, and English Georgian Styles
 - a. Marie Antoinette, Late Neoclassicism, and the fall of the Monarchy
 - b. Transitional Style: Post-Revolutionary France & the Directoire
 - c. England in the 18th Century
3. The Industrial Revolution and Victorian Style
 - a. The Crystal Palace Exhibition
 - b. John Lockwood Kipling
 - c. The Aesthetic Movement (1860s-1890s)
4. Design Reform in the 19th Century
 - a. Lord Leighton House
 - b. English Arts and Crafts Movement
5. Fin-de-siècle and Early 20th Century Design
 - a. Art Nouveau in France
 - b. Art Nouveau in Belgium



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- c. Other European Expressions of Art Nouveau
- 6. Colonisation and changing form of Interior Design in India

Methodology:

Lecture based on theory and class assignments, making drawings, sketches and models. The students will be encouraged to do case studies and industrial site visits for the same.

Learning Outcome:

Students will learn about later stage of 20th century art movements and also explore different traditions such as Non- European, Scandinavian and Indian Tradition in detail and also learn about influence of art and culture in all the art movements.

Book Recommended:

- 1 Interior Design Illustrated – Ching and Bingel
- . History of Architecture, Sir Banister Fletcher, CBS Publisher & Distributors, New Delhi.
- 2
- .

E-Sources key words:



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Semester: IV

Subject: Interior Material and Construction – IV

Course Code: 32010402

Credits: 6

Teaching Scheme per Week							
Theoretical		Tutorial		Practical		Total	
2		2		2		6	
Examination Pattern							
Internal				External			
Theoretical	Passing	Practical	Passing	Theoretical	Passing	Practical	Passing
25	12.5	25	12.5	50	25	0	0

Objective:

In this semester students will learn detail study of all the materials and advanced techniques of the same. And also students will learn in detail about different interior materials like composite materials, glass, engineered wood, aluminum, fabrics etc. The focus of the semester is learning different types of system uses in ceilings, partitions, wall treatment, flooring, upholstery etc.

Content:

1. Partition Systems: Wooden frame fixed partition with single/double skin, Aluminum frame Partition, Dry wall partition systems
2. Wall treatment: Finishes to walls, wall cladding, design considerations, materials and working. Wet and Dry wall cladding in different materials, Wall panelling in different materials
3. Thermal and acoustical insulation materials, their properties and application. Introduction to PVC, fiber glass and acrylic.
4. Sliding folding partition in metal and glass. Thermal/Acoustical partition and panelling in metal frame finished in various materials.
5. Suspended Ceiling Systems: Introduction to ceiling materials like PoP, gypsum board, PVC, fiber board. Modular ceiling systems in various materials. Integration of different types of services in ceiling design.
6. Raised flooring Systems: Raised floor for commercial spaces and I.T. rooms.
7. Cabinets: Different types of cabinets (modular kitchen, wardrobe etc.)
8. Upholstery – detailing and applications in interior spaces.



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Methodology:

Lecture based on theory and class assignments, making drawings, sketches and models. The students will be encouraged to do case studies and site visits for the same.

Learning Outcome:

By the end of this semester students will have a knowledge of all the construction materials in detail and also learn about various construction systems used in contemporary interior design practices.

Book Recommended:

1. Ching, D.K. *Form, Space and Order*
2. Fredrick, Matthew. *101 Thing I Learnt In Architecture*
3. Ching, D.K. *Illustration of Building and Construction*
4. Rangwala S.C. *Building Construction*
5. Bindra S.P. *Building Construction*
6. Mackay W.B. *Building Construction*

E-Sources key words:



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Semester: IV

Subject: History of Interior & Furniture Design – III

Course Code: 32010405

Credits: 2

Teaching Scheme per Week							
Theoretical		Tutorial		Practical		Total	
2		0		0		2	
Examination Pattern							
Internal				External			
Theoretical	Passing	Practical	Passing	Theoretical	Passing	Practical	Passing
0	0	50	25	50	25	0	0

Objective:

1. To provide students an overview of the history and development of the interior design, including the critical social and political events that influenced the field and learning the working vocabulary used to describe interiors, furniture, and decorative arts.
2. Focus Area: Advent of Modernism in Interior Design practice

Content:

1. Modernism & the Emergence of Interior Design as a Profession
 - a. The Chicago School
 - b. The Bauhaus (1919-1934)
 - c. Marcel Breuer's House in the Museum Garden at MoMA Neoclassicism, French Empire, and English Georgian Styles
2. Art Deco, and Art Brut
3. The Industrial Revolution and Victorian Style
 - a. The Crystal Palace Exhibition
 - b. John Lockwood Kipling
 - c. The Aesthetic Movement (1860s-1890s)
4. Architects and the Chairs
 - a. Le Corbusier
 - b. Frank Lloyd Wright
 - c. Mies van der Rohe
 - d. Rem Koolhaas
 - e. Frank Gehry
 - f. Eero Saarinen (etc.)
5. Mid-20th Century Design & Design Today
6. Hans Wegner and Scandinavian Modern



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7. Mid-Century Modern Charles and Ray Eames
8. Design Today
9. Changing Scenario of Interior Design in India – 1947 and onwards
10. Crafts – Contemporary orientations in Interior Design

Methodology:

Lecture based on theory, presentations and class assignments, making drawings, and sketches. The students will be encouraged to do case studies and make presentations for the same.

Learning Outcome:

Students will learn about later stage of 20th century art movements and also explore different traditions such as Non-European, Scandinavian and Indian Tradition in detail and also learn about influence of art and culture in all the art movements.

Book Recommended:

- 1 Interior Design Illustrated – Ching and Bingel
- . History of Architecture, Sir Banister Fletcher, CBS Publisher & Distributors, New Delhi.
- 2
- .

E-Sources key words:



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Semester: V

Subject: Interior Material and Construction – V

Course Code: 32010502

Credits: 6

Teaching Scheme per Week							
Theoretical		Tutorial		Practical		Total	
2		2		2		6	
Examination Pattern							
Internal				External			
Theoretical 40	Passing 20	Practical 180	Passing 90	Theoretical 80	Passing 40	Practical 0	Passing 0

Objective:

Understanding of glass as an interior material and other advanced construction details and techniques.

Content:

1. RCC as structure material: Technical terms, fundamentals, IS codes, proportions, types, thumb rules, applications
2. Steel as structure material: Technical terms, fundamentals, IS codes, proportions, types, thumb rules, applications
3. Systems RCC & Steel construction details for staircase, walls, beams, columns, foundation, roofing systems
4. Glass as structure material: Technical terms, fundamentals, IS codes, proportions, types, thumb rules, applications
5. Curtain Wall: Components of the Curtain Wall Systems, Support Constructions and Cladding
6. Adhesives classification and types, method of application, bond strength, material and workmanship specifications.

Methodology:

Lecture based on theory and class assignments, making drawings, sketches and models. The students will be encouraged to do case studies and industrial site visits for the same.



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Learning Outcome:

Students will learn advance materials used in present development, their technical drawings and possible usages and details. It will also be a platform for students for doing working drawings in the next semester.

Book Recommended:

1. Ching, D.K. *Illustration of Building and Construction*
2. Rangwala S.C. *Building Construction*
3. Rangwala S.C. *Engineering Materials*
4. Bindra, S.P. *Building Construction*
5. McKay, W.B. *Building Construction*

E-Sources key words:



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Semester: V

Subject: Landscape in Interior Design

Course Code: 32010505

Credits: 2

Teaching Scheme per Week							
Theoretical		Tutorial		Practical		Total	
2		0		0		2	
Examination Pattern							
Internal				External			
Theoretical	Passing	Practical	Passing	Theoretical	Passing	Practical	Passing
0	0	50	25	0	0	50	25

Objective:

- 1 To understand the principles of landscape design, types, techniques and application.
 - . To understand the ecology, ecosystem, and environmental conservation and the ability of
- 2 landscape in transformation of the spatial characteristics and make them aesthetically appealing.

Content:

1. Idea and understanding of landscape design: Introduction to the importance of landscape, principles of landscape design and understanding elements of landscape design (interior-exterior and the envelope, characteristics of landscape design elements).
- 2 Habitation with respect to landscape
 - . Components of Landscape:
- 3 a. Natural Landscape
4. Ecology and systems.
 - a. Ecology, environment, components, ecosystem at various scales.
5. Land-forms and interdependence (geography-geology)
6. Relation of climate and landscape (natural cycles which shape landscape)
1. Historical and contemporary attitudes to interior landscape
 - a. Cultural Landscape
 - b. Introduction to Cultural Landscape
 - c. Relation of Landscape - Man (Man as a shaper of landscape)
2. Structures in landscapes, water bodies (fountains and ponds etc.), their built form, construction details. Landscape foundations, grading, drainage, paved and unpaved surfaces, roads and paths, their types, natural landforms, retaining walls and slope retention



3. Study of different types of plants, their characteristics, classification soil suitability, climate, growth, foliage, maturity, diseases and maintenance issues in in various climate type and environment.
4. Services in landscapes and their integration in landscape design viz. water supply, drainage, lighting etc. in interiors, their issues, details and considerations.

Methodology:

- 1 Lecture series in the form of seminar, presentations.
 - . Group studies for identification of plants. Case studies, nursery visits and site visits of the
- 2 executed projects.
- .3. Studio design project exercise for application of landscape in desired space.



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Semester: VI

Subject: Interior Material and Construction – VI

Course Code: 32010602

Credits: 6

Teaching Scheme per Week							
Theoretical		Tutorial		Practical		Total	
2		2		2		6	
Examination Pattern							
Internal				External			
Theoretical 40	Passing 20	Practical 180	Passing 90	Theoretical 80	Passing 40	Practical 0	Passing 0

Objective:

Understanding of advanced construction details and smart interior materials.

Content:

1. Restoration and Retrofitting Techniques
2. Waste Management Systems
3. Advanced interior materials
4. Smart interiors

Methodology:

Lecture based on theory and class assignments, presentations, making drawings, sketches and models. The students will be encouraged to do case studies and industrial site visits for the same.

Learning Outcome:

Students will learn advance materials used in present development, their technical drawings and possible usages and details.

Book Recommended:

1. Ching, D.K. *Illustration of Building and Construction*
2. Rangwala S.C. *Building Construction*
3. Rangwala S.C. *Engineering Materials*
4. Bindra, S.P. *Building Construction*
5. McKay, W.B. *Building Construction*



Semester: VI

Subject: Estimation & Costing

Course Code: 32010604

Credits: 2

Teaching Scheme per Week							
Theoretical		Tutorial		Practical		Total	
2		0		0		2	
Examination Pattern							
Internal				External			
Theoretical	Passing	Practical	Passing	Theoretical	Passing	Practical	Passing
50	25	0	0	50	25	0	0

Objective:

To enable the students to be equipped with knowledge and skills needed such as estimating, costing, analyzing rates and processes of tendering for practicing profession of Interior Architecture.

Content:

1. Introduction to concept of estimation, costing and rate analysis. Need for estimating, costing and rate analysis.
2. Components of estimation, costing and analyzing rates (drawings and specifications, units and modes of measurements, work output, material and labour cost, contingencies, profit margins, indirect costs etc.
3. Methods of estimating (lump-sum, work specific, item rate etc.); costing (percentage basis, item rate basis etc.) and rate analysis (item rate basis). Types of estimates; methods of taking out quantities; financial implications accompaniments of an estimate, Uses of an estimate.
4. Market survey for rates of materials in interior. Current schedule of rates (CSR) of local PWD, mode and units of measurement, General rules for measurement, degree of accuracy.
5. Preparation of schedule of quantities and estimates for basic civil works of brickwork and plaster of buildings.
6. Preparation of schedule of quantities and estimates for plumbing systems and electrical fittings.

Tenders & Tendering Procedures: Introduction, definitions and Tender types. Contents of Tender Document: Undertaking from contractor, prequalification of tender, general and special conditions of tender, bill of quantities, general specifications, material specification, special specification, set of working drawings. Contractual Procedures: Work order letter and acceptance letter, Interim bills and final bills, bills certification



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Methodology:

Lectures based on theory and presentations, and class assignments. The students will be given a project for them to calculate the quantity and costing of a project.

Learning Outcome:

The students will develop the necessary skills in understanding quantities and costs for estimation of basic civil works of buildings and interior works.

Book Recommended:

1. Estimating & Costing in Civil Engineering Theory & Practice”, B.N. Dutta, UBS Publishers” Distributors Ltd., New Delhi, 1995.

2. Elements of Estimating & Costing, Rangwaala, Publishing House.

E-Sources key words:



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Semester: VII

Subject: Internship/ Office Training

Course Code: 33030701

Credits: 30

Teaching Scheme per Week							
Theoretical		Tutorial		Practical		Total	
0		0		30		30	
Examination Pattern							
Internal				External			
Theoretical	Passing	Practical	Passing	Theoretical	Passing	Practical	Passing
0	0	50	25	0	0	50	25

Objective:

To train the students in varied aspects of design focused on interior spaces and provide adequate knowledge of the industry to improve them on a holistic level.

Content:

The Office Training of sixteen week duration envisages varied experience in order to ensure exposure to the student to various tasks in an office. It is up to the student to choose the office and get consent letter by the employer and their details.

The student will be issued a set of log sheets, which has to be filled weekly and authenticate the information with the employer after every four weeks.

The student will submit the log sheet, copies of the drawings prepared, photographs of the work executed on site and the covering letter by the employer at the time of viva date declared by the university.

At the end of the training period, student will have to procure a certificate of training and satisfactory performance from the concerned office in the prescribed format. Certificate of satisfactory completion of training same shall be submitted to the institute.



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Learning Outcome:

During the training, the students will gain an adequate knowledge of working in an office to gain experience in varied aspects of design, industry, site works and other miscellaneous work of an office. This will help the students prepare holistically for future design works.



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Semester: VIII

Subject: Interiors in Contemporary Practices

Course Code: 33030803

Credits: 2

Teaching Scheme per Week							
Theoretical		Tutorial		Practical		Total	
2		0		0		2	
Examination Pattern							
Internal				External			
Theoretical	Passing	Practical	Passing	Theoretical	Passing	Practical	Passing
50	25	0	0	50	25	0	0

Objective:

To introduce the various facts of architecture and it's influencing factors. To introduce the formal vocabulary of architecture as one of the ways to experience the built environment, To understand and appreciate the universals of architectural form and space in terms of elements and principles within particular historical, cultural and geographic contexts

Content:

1. Origin of Interior Design – Interior Design as a discipline – Definitions of Contemporary Interior Design
2. Contemporary Interior Design: Innovations and Materials
3. Interior Designers of contemporary world
4. Reinterpreting Traditions and vernacular approach to Interior Design
5. Ready- to – assemble furniture
6. Connecting interior design with other design fields

Methodology:

The theory lectures will be based on presentations, class assignments, case studies, analysis and interpretation of interior spaces through works of contemporary designers.

Learning Outcome:

The students will apprehend the contemporary International and Indian practices in the field of interior design. Through this, they will have an understanding of the wide variety of interior works globally.



Book Recommended:

1. Parmar V.S., "Design Fundamentals in Architecture", Somaiya Publications Private Ltd., New Delhi, 1973.
2. Helen Marie Evans and Carla David Dunneshil, "An invitation to design", Macmillan Publishing Co. Inc., New York, 1982.
3. Yatin Pandya, "Elements of Space making", Mapin 2007.

E-Sources key words:



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INDIA'S FIRST UNIVERSITY FOR STARTUP

Swarnnim Institute of Design & Planning
Masters in Planning (M.PLAN)
2 Years/ 4 Semesters



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M. Plan (Planning) - Integrated First Semester

In. C.1.1 : **PLANNING HISTORY AND THEORY**

Lecture Hours Per Week Credits	(L) 2+ (T) 1* 2
End Semester Examination	50
Internal Assessment	50
Total Marks	100

Module 1: Evolution of City Building

Relevance of the study of evolution of settlements; Hunter, gatherer, farmer and formation of organized society; Cosmological and other influences, origins and growth of cities, effects of cultural influence on physical form; Human settlements as an expression of civilizations; Basic elements of the city; Concepts of space, time, scale of cities.

Module 2: **Planning History Town planning in ancient India;**

Medieval, renaissance, industrial and post industrial cities; City as a living spatial entity; Concepts of landmark, axis, orientation; City form as a living space; City as a political statement: New Delhi, Chandigarh, Washington D.C. Brasilia etc; Contribution of individuals to city planning: Lewis Mumford, Patrick Geddes, Peter Hall, etc; Dynamics of the growing city, impact of industrialization and urbanization, metropolis and megalopolis.

Module 3: Definitions and Objectives of Planning Definitions of town and country planning;

Orthodoxies of planning; Goal formulation, objective, scope, limitations; Sustainability and rationality in planning; Components of sustainable urban and regional development.

Module 4: **Theories of City Development and Planning Theories**

Theories of city development including Concentric Zone Theory, Sector Theory, Multiple Nuclei Theory and other latest theories; Land use and land value theory of William Alonso; Ebenezer Howard's Garden City Concept; and Green Belt Concept; City as an organism: a physical, social, economic and political entity; Emerging Concepts: global city, inclusive city, safe city, etc.; City of the future and future of the city; Shadow cities, divided cities; Models of planning: Advocacy and Pluralism in Planning; Systems approach to planning: rationalistic and incremental approaches, mixed scanning and middle range planning; Equity planning; Political Economy Model; Types of development plans, plan making process.



Text Books and References:

1. Allmendinger, P. (2017) Planning Theory, Macmillan, London. Third Edition.
2. Fainstein, S.S. and DeFilippis, J. (Eds.) (2016) Readings in Planning Theory, Wiley, London. Fourth Edition.
3. Gooptu, N. (2001) The Politics of the Urban Poor in Early Twentieth - Century India, Cambridge University Press, Cambridge.
4. Healey, P. (2010) Making Better Places: Palgrave Macmillan, London.
5. Kumar, A., Sanjeev, V., and Prakash, P. (2020) City Planning in India, 1947-2017, Routledge, New York.



Prakash

In. C.1.2 : SOCIO - ECONOMIC BASIS FOR PLANNING

Lecture Hours Per Week Credits	(L) 2+ (T) 1* 2
End Semester Examination	50
Internal Assessment	50
Total Marks	100

Module 1: Nature and Scope of Sociology Sociological concepts and methods,

man and environment relationships; Socio-cultural profile of Indian society and urban transformation; Tradition and modernity in the context of urban and rural settlements; Issues related to caste, age, sex, gender, health safety, and marginalized groups; Displacement, resettlement and rehabilitation due to compulsory land acquisition.

Module 2: Community and Settlements Social problems of slums and squatters

communities, urban and rural social transformation and their impact on social life, safety, security; Crimes in urban areas and their spatial planning implications, social structure and spatial planning; Role of socio-cultural aspects on growth patterns of city and neighborhood communities; Social planning and policy, and community participation; Marginalization and concepts of inclusive planning, and gender concerns in planning. Settlement Policy: National Commission on Urbanization, Rural Habitat Policy and experiences from developing countries regarding settlement structure, growth and spatial distribution.

Module 3: Elements of Micro and Macro Economics

Concepts of demand, supply, elasticity and consumer markets; concept of revenue costs; Economies of scale, economic and social costs, production and factor market; Different market structures and price determination; market failures, cost-benefit analysis, public sector pricing; Determinants of national income, consumption, investment, inflation, unemployment, capital budgeting, risk and uncertainty, and long-term investment planning.

Module 4: Development Economics and Lessons

From Indian Experiences Economic growth and development, quality of life; Human development index, poverty and income distribution, employment and livelihood; Economic principles in land use planning; Policies and strategies in economic planning, balanced versus unbalanced growth, public sector dominance; changing economic policies, implications on land.



In.C.1.5 : HOUSING AND ENVIRONMENTAL PLANNING

Lecture Hours Per Week Credits	(L) 2+ (T) 1* 2
End Semester Examination	50
Internal Assessment	50
Total Marks	100

Module 1: Concepts and Definitions Shelter as a basic requirement, determinant of housing form,

Census of India definitions, Introduction to policies, housing need, demand and supply, dilapidation, structural conditions, materials of constructions, housing age, occupancy rate, crowding, housing shortage, income and affordability, poverty and slums, house-less population .Various housing typologies viz. traditional houses, plotted development, group housing, multi- storied housing, villas, chawls, etc., slums and squatters, night shelters, public health issues related to housing, various theories of housing, concept of green housing, green rating of housing projects.

Module 2: Social and Economic Dimensions Housing as social security,

role of housing in development of family and community well being, status and prestige related to housing, safety, crime and insecurity, deprivation and social vulnerability, ghetto-ism, gender issues, housing for the elderly.

Contribution of housing to micro and macro economy, contribution to national wealth and GDP, housing taxation, national budgets, fiscal concessions, forward and backward linkages.

Module 3: Housing and the City

Understanding housing as an important land use component of city plan / master plan,

considerations for carrying out city level housing studies, projections, land use provisions; Suitability of land for housing, housing stress identification, projecting housing requirements, calculating housing shortages, housing allocation.

Module 4: Planning for Neighborhood Approaches to neighborhood living in traditional and contemporary societies,

Elements of neighborhood structure, Planning and design criteria for modern neighborhoods, norms and criteria for area distribution, housing and area planning standards, net residential density and gross residential density, development controls and building bye-laws, UDPFI guidelines, NBC 2005 provisions and Case studies of neighborhood planning.



UP.C.3.4 : POLITICS AND PLANNING

Lecture Hours Per Week Credits	(L) 2+ (T) 1* 2
End Semester Examination	50
Internal Assessment	50
Total Marks	100

Module 1: Interface between Politics and Planning

Social and economic context; State in India political culture of the India Commissions; State Political economy, 74th

amendment act Emergence of the State in the federal set up.

Module 2: City and the State State as a manager of resources –

Property rights, norms and standards – Government market and market by Government – Regulatory State, Reforming State, and Rent Seeking State – their spatial implications; Development planning and the Indian state – Centralization, powerlessness and decentralization; spatial politics and competition; Politics of the State and bureaucracy; New State spaces, invited and contested spaces – changing role of the state

Module 3: Politics related to Planning and Development

Politics related to land, shelter, urban infrastructure, resources; Regeneration redevelopment politics; politics of provision, financing and pricing; decision-making and decision taking

Module 4: Politics and Civil Society .Politics and emergence of civil society – NGO, CBO and their role in planning, development and management, collective bargaining and collective action



ELECTIVES (SELECT ANY ONE)

UP.E.3.1 : ENVIRONMENT, DEVELOPMENT AND DISASTER MANAGEMENT

Lecture Hours Per Week Credits	(L) 2+ (T) 1* 2
End Semester Examination	50
Internal Assessment	50
Total Marks	100

Module 1: Understanding Inclusive Planning Definitions and components

Module 2: Stakeholders Profile and Needs,

Access to Shelter, Services and Livelihoods Urban Poor, Informal Sector, Gender, Children, Elderly, Disabled, Displaced people, etc.; Slums - dimensions, causative factors, determinants, location characteristics of settlements; Informal sector - characteristics, functions, economic contributions, linkages with formal sector, impact on Urban Development

Module 3: Participatory Planning Process and Policies, Programmes and Legislation

Methods, role of stakeholders (including civil society organizations), etc.; Related Acts, Five year plans, policies and programmes at various levels.

Module 4: Planning interventions Inclusive zoning, development and building regulations, Slum Improvement.



UP.C.4.2 : LEGAL ISSUES AND PROFESSIONAL PRACTICE

Lecture Hours Per Week	(L) 2+
(T) 1*	
Credits	2
End Semester Examination	50
Internal Assessment	50
Total Marks	100

Module 1: Introduction

Interface between policy and legislation pertaining to urban development.

Module 2: Understanding of Law

Concepts, sources, terminologies, significance of law and its relationship to Urban Planning benefits of statutory backing for schemes - eminent domain and police powers; Indian Constitution: concept and contents; 73rd and 74th Constitution Amendment Act, provision regarding property rights.

Module 3: Planning Legislation and Policy Formulation and Appraisal

Evolution; An over view of legal tools connected with Urban Planning and Development, Town and Country Planning Act, Improvement Trust Act, Urban Planning and Development Authorities Act – objectives, contents, procedures for preparation and implementation of Regional Plans, Master Plans and Town Planning Schemes. Various Acts related to urban governance, planning and development organizations, land resources, environment protection, and public participation in statutory planning process; Approaches of formulation of policies, appraisal of policies.

Module 4: Professional Practice

Aims and objectives of professional Institutes, sister bodies, professional role and responsibility of planning consultants, professional ethics, code of conduct and scale of professional charges; Formulation of project proposal and outlines, consultancy agreements and contracts, managerial aspects; Role in inter disciplinary groups: Appreciation of the decision-making processes and the process in relation to varied consultancy assignments of planning.



SWARNIM STARTUP & INNOVATION UNIVERSITY

FASHION DESIGN COURSE ABSTRACT PROPOSAL

Course Name : History of Design

Course Code :33050207

Semester : II

Duration : 2 Week

Category : TH

Credits 2

Relevance:

Students of design need to engage with art and design history as a way of informing design practice as well as thinking. This course will introduce students to the breadth of art and design history from Indian as well as Western perspectives.

Objective: The objective of this course is to introduce students to historical developments in a against the background of major movements, styles and periods and with relation to social, cultural, economic, scientific and philosophical developments. The course will introduce students to Indian as well as Western perspectives in history and also introduce students to resources for studying history that will enable them in their own future investigations. It will cover historical developments until the Industrial Revolution in the 19th century.

Content:

- Ancient civilization, Mesopotamian, Ancient Egypt, Indus Valley, Vedic age, Ancient Greece, Ancient Greek, Sat vahana, Kushan, Ancient Roman, Gupta.

Methodology:

- Introductory lectures on session themes, supported by films/videos.
- Visits to local museums to explore resources available for design students.
- Visits to sites of historical and cultural significance help examine Indian design in its original context.
- Group Discussions based on readings and field visits.

Book Recommended:

- Mention the list of reference material including Books, Paper, Documents, Websites etc.
- H. Kumar Vyas, *Design the International Movement with Indian Parallel*, SID, Ahmedabad, 2010.
- Henri Bergson, *Creative Evolution*, New York, Random House, 1944.
- S. Balaram, "Modern Indian Design: The Roots" in *Thinking Design*, NID, Ahmedabad, 1998, 15- 25.
- Sparke, Penny. *An Introduction to Design and Culture: 1900 to Present*. New York, Routledge.
- Tristan Tzara, "Dada Manifesto" in Eugene Weber, ed. *Movements, Currents, Trends*, Lexington, DC Heath, 1992.



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SWARNIM STARTUP & INNOVATION UNIVERSITY

FASHION DESIGN COURSE ABSTRACT PROPOSAL

Course Name : Fashion Theory and overview (looks and styling)
Course Code : 3305307
Semester : III
Duration : 2 Weeks
Category : SD
Credits 4

Relevance:

- ❑ To be able to understand trends and quick fashion tips.
- ❑ To have a portfolio of their own showcasing their personal and client style. Fashion original and evolution.
- ❑ Fashion cycle and differentiations on the basis of length of fashion cycle.
- ❑ Fashion Terminology: Fashion, Style, Fad, Classic, Boutique, Trends, Designer, Silhouette, Hi-fashion. Fashion theories: Trickle down, Trickle across and trickle up.

Objective:

- ❑ To create awareness on fashion styling and impact knowledge on apparel communication and fashion expression.
- ❑ To be able to understand the basic and general idea of fashion styling. To have a strong sense of their own personal style.
- ❑ To nurture graduate to be creative, innovate.

Content:

- ❑ Introduction to Fashion and fashion styling. Type of fashion and fashion styling.
- ❑ Fashion theory Looks and Styling
- ❑ Indian Traditional Looks. Basic of fashion Terminology. Fashion Cycle.
- ❑ Styling as per body shape. Fashion forecasting.
- ❑

Methodology:

- ❑ Discussion and lecture
- ❑ Presentation Group activity.
- ❑ Individual assignment.



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FASHION DESIGN COURSE ABSTRACT PROPOSAL

Course Name : History of Design - II

Course Code : 33050407

Semester : IV

Duration : 1 Week

Category : TH

Credits 2

Relevance:

Students of design need to engage with art and design history as a way of informing design practice as well as thinking. This course will introduce students to the breadth of art and design history from Indian as well as Western perspectives.

Objective: The objective of this course is to introduce students to historical developments in a against the background of major movements, styles and periods and with relation to social, cultural, economic, scientific and philosophical developments. The course will introduce students to Indian as well as Western perspectives in history and also introduce students to resources for studying history that will enable them in their own future investigations. It will cover historical developments until the Industrial Revolution in the 19th century.

Content:

Middle ages:

- Byzantine,
- Early Christian,
- Later middle ages (Mughal & Rajputs)

Methodology:

- Introductory lectures on session themes, supported by films/videos.
- Visits to local museums to explore resources available for design students.
- Visits to sites of historical and cultural significance help examine Indian design in its original context.
- Group Discussions based on readings and field visits.

Book Recommended:

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- Henri Bergson, *Creative Evolution*, New York, Random House, 1944.
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SWARNIM STARTUP & INNOVATION UNIVERSITY

FASHION DESIGN COURSE ABSTRACT PROPOSAL

Course Name : History of Design – III

Course Code : 33050507

Semester : V

Duration : 1 Week

Category : TH

Credits : 2

Relevance:

Students of design need to engage with art and design history as a way of informing design practice as well as thinking. This course will introduce students to the breadth of art and design history from Indian as well as Western perspectives.

Objective: The objective of this course is to introduce students to historical developments in a against the background of major movements, styles and periods and with relation to social, cultural, economic, scientific and philosophical developments. The course will introduce students to Indian as well as Western perspectives in history and also introduce students to resources for studying history that will enable them in their own future investigations. It will cover historical developments until the Industrial Revolution in the 19th century.

Content:

Middle Ages:

- 15th-16th - Renaissance,
- Northern Renaissance,
- 17th Baroque,
- 18th Rococo,
- 19th Victorian period,
- Crinoline Period 1850-1870.

Methodology:

- Introductory lectures on session themes, supported by films/videos.
 - Visits to local museums to explore resources available for design students.
 - Visits to sites of historical and cultural significance help examine Indian design in its original context.
- Group Discussions based on readings and field visits.

Book Recommended:

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- S. Balaram, "Modern Indian Design: The Roots" in *Thinking Design*, NID, Ahmedabad, 1998, 15- 25.
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SWARNIM STARTUP & INNOVATION UNIVERSITY

FASHION DESIGN COURSE ABSTRACT PROPOSAL

Course Name : History of Design - IV

Course Code : 33050607

Semester : VI

Duration : 1 Week

Category : TH

Credits 2

Relevance:

Students of design need to engage with art and design history as a way of informing design practice as well as thinking. This course will introduce students to the breadth of art and design history from Indian as well as Western perspectives.

Objective: The objective of this course is to introduce students to historical developments in a against the background of major movements, styles and periods and with relation to social, cultural, economic, scientific and philosophical developments. The course will introduce students to Indian as well as Western perspectives in history and also introduce students to resources for studying history that will enable them in their own future investigations. It will cover historical developments until the Industrial Revolution in the 19th century.

Content:

Modern ages:

- 1900-1919 -Edwardian era,
- 1920-1939- 20's-30's WW-II,
- 1940-1959- the 40's & 50's,
- 1960-1979- the swinging 60's & 70's (Hippies, Punk etc.),
- 1980-1999- Style tribes (new romantics, power dressing, gothic, preppy, role of Haute Couture).

Methodology:

- Introductory lectures on session themes, supported by films/videos.
- Visits to local museums to explore resources available for design students.
- Visits to sites of historical and cultural significance help examine Indian design in its original context.

Group Discussions based on readings and field visits.

Book Recommended:

- Mention the list of reference material including Books, Paper, Documents, Websites etc.
- H. Kumar Vyas, *Design the International Movement with Indian Parallel*, SID, Ahmedabad, 2010.
- Henri Bergson, *Creative Evolution*, New York, Random House, 1944.
- S. Balaram, "Modern Indian Design: The Roots" in *Thinking Design*, NID, Ahmedabad, 1998, 15- 25.



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FASHION DESIGN COURSE ABSTRACT PROPOSAL

Course Name : Fashion Sustainability
Course Code : 33050706
Semester : VII
Duration : 1 Week
Category : TH
Credits : 2

Relevance:

A study of the Fashion Sustainability helps understand, what is sustainability, idea of sustainability within the design process & product development. How to make a sustainable product and also how to make a sustainable brand.

Objective:

- To imbibe in the students, the core concept of sustainability.
- To enable them to understand Fashion from the viewpoint of being sustainable.
- Familiarizing them with different practices that are sustainable.
- International brands & organizations that are advocating sustainability for the fashion industry.

Content:

Unit 1: Concept of Sustainability

- Understanding what is Sustainability.
- Introducing students to the idea of sustainable practices.
- Fashion and sustainability.
- Brands and sustainability.
- Global movements that advocate the sustainability.

Unit 2: Sustainable Fabrics/ Dyeing /Printing

- Fabrics and sustainability – upcycle/ Recycle.
- Sustainable Printing.
- Sustainable Dyeing.
- Sustainability in process and eco-friendliness.

Unit 3: Sustainable Patternmaking

- Subtraction method of pattern making.
- Transformational method of Pattern making.
- Methods of optimizing fabric consumption.



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Unit 4: Sustainable Construction & Finishing

- Hand Stitching vs Machine stitching.
- Water-sustaining garment finishes.
- Worldwide sustainable practices for the fashion industry.
- Embellishments – Hand vs machine.

Unit 5: Waste Management

- Use of post-production waste to re-create.
- Theories and Practices of managing industrial wastage.

Methodology:

- Introduction to sustainable practices.
- Demonstrations/workshops etc.
- Lectures from industry representatives.
- Outdoor/Industry visits.

Learning Outcome:

- A generalized understanding of what is sustainability.
- Incorporating the idea of sustainability within the process of design & product development.
- Understanding how “fashion” can be made sustainable.
- Understanding hoe to create a sustainable “brand”.

Book Recommended:

1. “Sustainability in Fashion and Apparels: Challenges and Solutions” by M. Parthiban and M. R. Srikrishnan
/Woodhead Publishing India.
2. “Fashion and Sustainability: Design for Change” by Kate Fletcher, Lynda Grose, Paul Hawken
/Laurence King Publishing.
3. “Refashioned: Cutting-Edge Clothing from Upcycled Materials” by Sass Brown /Laurence king
Publishing.
4. “Fashion Fibers: Designing for Sustainability” by Annie Gullingsrud /Fairchild Books.
“The Sustainable Fashion Handbook” by Sandy Black /Thames & Hudson



SWARNIM STARTUP & INNOVATION UNIVERSITY

Course Name	: Graduation Project (Internship)
Course Code	: 33050801
Semester	: VIII
Duration	: 16 Week
Category	: TH
Credits	: 30

Objective:

- As a real-life experience for the students to gain a macro understanding of the nature of the industry, as well as engage with the same.
- To gain a holistic understanding of the industry setup to comprehend the role of the designer as thought-leadership.
- Understanding and executing the design process in conjunction with the infrastructure in the industry.

Content:

Unit 1: Study Areas

- o In-depth study of the company profile and market positioning of the brand.
- o Overview of the target-market segment.
- o Development of Project Brief.
- o Execution of design process and product development.
- o Following through the processing of range/collection development from design idea initiation to various aspects of construction/production, quality control, marketing and costing.
- o Prototypes and Final collection/range (4-8 outfits).
- o Understanding the documentation procedures and practices.

Unit 2: Professional Portfolio

- o Collecting and composing the Final professional Portfolio and Orientation to the necessary presentation tools and techniques.
- o Communication and representation of the final body of the work to a selected Jury panel.

Unit 3: Deliverables

- o Tentative plan/schedule and synopsis/project brief for the graduation project (on the suggestions given in task schedule).
- o In-depth study and collation of information.
- o A complete documentation of the project methodology, processes and outcomes with reference to information, related documents and relevant visuals.
- o Digital presentation of the entire process of creating the collection.



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Final showcase of a graduate event, emulating an Industry-level trade event exhibition, conceived and based upon the institutional event branding.

Final outfits (4-8 garments) to be also displayed on the live models at the event, as a runway show.

Learning Outcome:

Based on the learning of the all of the previous semesters and the knowledge gained thereby; the students are to take up

one of the given pathways:

- Creating a signature clothing brand in entry (brand philosophy, image, fashion direction etc.) following the self-

identity and design -vision of an individual student.

- Design collaboration with as Apparel industry/Design House /Craft cluster/ NGO/Ministry of Textiles or Handicrafts/ Khadi and Village Industry commission or similar bodies. (*Students MUST NOT dilute this as a mere*

internship engagement)

Book Recommended:

1. "Brandstand: Strategies for retail Brand Building" by Arthur Winters, Peggy Winters, Carole Paul /Visual Reference

N Publications.

2. "The Business of Fashion" by Burns, Leslie Davis and Nancy O Bryant /New York: Fairchild Publications, 2002.

3. "Future Fashion: Innovative Materials and Technology" by San Martin, Macarena /Palermo: Promo press, 2010.

4. "The Fashion Reader" by Welters, Linda and Abby Lillethun/Oxford: Berg, 2011.

5. "Fashion Design: Process, Innovation and practice" by Kathryn McKelvey, Jannie Munslow, 2012 /2nd Edition. West

Sussex: John Wiley & Sons Publications.

6. "Sphinx of Fashion" by Mear, P, 2008 /Madane Gres: Yale University Press.

7. "Madeleine Vionnet" by Kirke, B, 1998 /San Francisco: Chronicle Books.

