

LINGAYA'S VIDYAPEETH SCHEME OF STUDIES SESSION: 2021-22

| Sch | School: School of Architecture and Planning | | | | | | | | | | | Batch: 2021 | | | | | | |
|-----|---|-------------|-----------------------------------|---------|---|-----|--------|----|---------|-------------|---------|-------------|-------------------|--|--|--|--|--|
| Dep | artmen | t: | | | | | | | Y | Year: I | | | | | | | | |
| Cou | rse: B.A | (H) Interio | r Design | | | | | | S | eme | ster: I | | | | | | | |
| | | | | Periods | | | | | Evalua | atior | Schem | ne | Subject | | | | | |
| | Cate- | Course | | - | | u.j | Credit | Т | heory | | Prac | tical | Total Marks | | | | | |
| SN | gory | Code | Course Name | L | т | Ρ | S | CE | MS E | E S E | IP | EXP | (CE+IP+EXP) /2 | | | | | |
| 1 | PC | BNT-151 | Theory of Design-I | 0 | 0 | 4 | 2 | - | - | - | 100 | 100 | 100 | | | | | |
| 2 | PC | BNT-153 | Basic Design-I | 0 | 0 | 8 | 4 | - | - | - | 100 | 100 | 100 | | | | | |
| 3 | РС | BNT-155 | Anthropometrics and Ergonomics | 0 | 0 | 6 | 3 | - | - | - | 100 | 100 | 100 | | | | | |
| 4 | PC | BNT-157 | History of Design | 0 | 0 | 4 | 2 | - | - | - | 100 | 100 | 100 | | | | | |
| 5 | PC | BNT-159 | Graphic Design | 0 | 0 | 4 | 2 | - | - | - | 100 | 100 | 100 | | | | | |
| 6 | PC | BNT-161 | Drawing & Rendering-I | 0 | 0 | 4 | 2 | - | - | - | 100 | 100 | 100 | | | | | |
| 7 | BS AE | BNT-163 | Workshop & Model Making | 0 | 0 | 4 | 2 | - | - | - | 100 | 100 | 100 | | | | | |
| 8 | SEC | BNT-165 | Presentation Skills | 0 | 0 | 2 | 1 | - | - | - | 100 | 100 | 100 | | | | | |
| | Total> 0 0 36 18 - | | | | | | | | | - | 800 | 800 | 800 | | | | | |

Abbreviations:

| PC: | Programme Core Courses | CE: | Continuous Evaluation |
|----------|--|------|--------------------------|
| PE: | Professional Elective Courses | MSE: | Mid Semester Examination |
| BS – AE: | Building sciences and applied engineering | ESE: | End Semester Examination |
| SEC: | Skill enhancement | IP: | Internal Practical |
| L: | Lecture | EXP: | External Practical |
| T: | Tutorial | | |

P: Practical



LINGAYA'S VIDYAPEETH SCHEME OF STUDIES SESSION: 2021-22

| Scho | ool: Sch | nitecture and Planning | Batch: 2021 | | | | | | | | | | |
|------|----------|------------------------|---|---|------|----|---------|-----|---------|---------|------|-------|---------------|
| Dep | artmen | t: | | | | | | | Year: | I | | | |
| Cou | rse B.A | (H) Interio | r Design | | | | | | Seme | ster: I | | | |
| | Cate- | Course | | D | erio | de | | | Evaluat | ion So | heme | | Subject Total |
| SN | gory | Code | Course Name | F | eno | us | Credits | - | Theory | | Prac | tical | Marks |
| | gory | Code | | L | Т | Ρ | | CE | MSE | ESE | IP | EXP | (CE+IP+EXP)/2 |
| 1 | PC | BNT-102 | Theory of Design-II | 1 | 0 | 2 | 2 | 20 | - | - | 80 | 100 | 100 |
| 2 | SEC | BNT-104 | Value and Ethics | 1 | 0 | 2 | 2 | 20 | - | - | 80 | 100 | 100 |
| 3 | PC | BNT-106 | Creative Thinking | 1 | 0 | 2 | 2 | 20 | - | - | 80 | 100 | 100 |
| 4 | PC | BNT-108 | History of Design-II | 1 | 0 | 2 | 2 | 20 | - | - | 80 | 100 | 100 |
| 5 | BS AE | BNT-110 | Construction Techniques and Representations - I | 1 | 0 | 4 | 3 | 20 | - | - | 80 | 100 | 100 |
| 6 | BS AE | BNT-112 | Environmental Science | 1 | 0 | 2 | 2 | 20 | - | - | 80 | 100 | 100 |
| 7 | SEC | BNT-152 | Computer Design and Digital Fabrication-I | 0 | 0 | 4 | 2 | - | - | - | 100 | 100 | 100 |
| 8 | PC | BNT-154 | Basic Design – II | 0 | 0 | 6 | 3 | - | - | - | 100 | 100 | 100 |
| | | | Total> | 6 | 0 | 24 | 18 | 120 | - | - | 680 | 800 | 800 |

Abbreviations:

| PC: | Programme Core Courses |
|----------|-------------------------------|
| BS – AE: | Building sciences and applied |
| DJ = AL. | engineering |
| IP: | Internal Practical |
| EXP: | External Practical |
| SEC: | Skill enhancement |
| L: | Lecture |
| Т: | Tutorial |
| P: | Practical |

CE: Continuous Evaluation

MSE: Mid Semester Examination



LINGAYA'S VIDYAPEETH SCHEME OF STUDIES SESSION: 2022-23

| Sch | ool: Sch | Batch: 2021 | | | | | | | | | | | | |
|-----|-----------|--|--|----------|------|---------|---------|----|---------------|----------------------------|-------|-------|---------|--|
| Dep | partmen | t: | | | | | | | Year: II | | | | | |
| Cοι | irse: B.A | (H) Interior De | sign | | | | | | Semester: III | | | | | |
| | | | | P | erio | de | | | Evalua | tion S | cheme | 9 | Subject | |
| S | Cate- | e- y Course Code Course Name L T P | | | | u5 | Cre | - | Theory | / | Prac | tical | Total | |
| N | gory | | Р | dit s | CE | MS E | ES E | IP | EX P | Marks (CE+IP+E XP)/2 | | | | |
| | | | Construction | | | | | | | | | | | |
| 1 | | | Techniques and | 1 | 0 | 6 | 4 | 20 | - | - | 80 | 100 | 100 | |
| | BS AE | BHI-201 | Representation-II | | 6 | | | | | | | | | |
| 2 | PC | BHI-203 | Furniture Design-I | 1 | 0 | 6 | 4 | 20 | - | - | 80 | 100 | 100 | |
| 3 | PC | BHI-205 | History of Design -III | 1 | 0 | 4 | 3 | 20 | - | - | 80 | 100 | 100 | |
| 4 | OE | BHI-207 | Interior Photography | 1 | 0 | 2 | 2 | 20 | - | - | 80 | 100 | 100 | |
| 5 | SEC | BHI-251 | Computer Design & Digital Fabrication - II | 0 | 0 | 4 | 2 | - | - | - | 100 | 100 | 100 | |
| 6 | PC | BHI-253 | Interior Design -I | 0 | 0 | 6 | 3 | - | - | - | 100 | 100 | 100 | |
| | | | Total> | 4 | 0 | 28 | 18 | 80 | - | - | 520 | 600 | 600 | |

Abbreviations:

- PC: Programme Core Courses
- BS AE: Building sciences and applied engineering OE: Open Elective
- SEC: Skill
- enhancement
- L: Lecture
- T: Tutorial
- P: Practical

- CE: Continuous Evaluation
- MSE : Mid Semester Examination
- ESE: End Semester Examination
- IP: Internal Practical
- EXP: External Practical



LINGAYA'S VIDYAPEETH SCHEME OF STUDIES SESSION: 2022-23

| Scho | ool: Sch | ool of Arch | itecture and Planning | Batch: 2021 | | | | | | | | | |
|------|----------|-------------|--|-------------|------|-----|---------|-----|-------------------|--------------|-----|-----|---------------|
| Dep | artmen | t: | | | | | | | Year: | II | | | |
| Cou | rse: B.A | (H) Interio | or Design | | | | | | Seme | ster: I | V | | 1 |
| | Cate- | Course | | Р | erio | ds | | l | Evaluation Scheme | | | | Subject Total |
| SN | gory | Code | Course Name | • | | | Credits | • | Theory | eory Practic | | | Marks |
| | 5019 | couc | | L | Т | Ρ | | CE | MSE | ESE | IP | EXP | (CE+IP+EXP)/2 |
| 1 | PC | BHI-202 | Furniture Design-II | 1 | 0 | 6 | 4 | 20 | - | - | 80 | 100 | 100 |
| 2 | PC | BHI-204 | History of Design-IV | 1 | 0 | 2 | 2 | 20 | - | - | 80 | 100 | 100 |
| 3 | BS AE | BHI-206 | Interior Services-I | 1 | 0 | 2 | 2 | 20 | - | - | 80 | 100 | 100 |
| 4 | PE | BHI-208A | Vernacular Architecture & Interiors Works of famous | 1 | 0 | 2 | 2 | 20 | - | - | 80 | 100 | 100 |
| | | BHI-208B | designers | | | | | | | | | | |
| 5 | BS AE | BHI-252 | Layout Drawing & Display Techniques | 0 | 0 | 4 | 2 | - | - | - | 100 | 100 | 100 |
| 6 | PC | BHI-254 | Interior Design-II | 0 | 0 | 12 | 6 | - | - | - | 100 | 100 | 100 |
| | | | Total> | - | - | 520 | 600 | 600 | | | | | |

Abbreviations:

| ; |
|---|
| |

PE: Professional Elective Courses

- BS AE: Building sciences and applied
- engineering Internal
- IP: Practical
- EXP: External Practical
- L: Lecture
- T: Tutorial
- P: Practical

- CE: Continuous Evaluation
- MSE: Mid Semester Examination
- ESE: End Semester Examination



LINGAYA'S VIDYAPEETH SCHEME OF STUDIES SESSION: 2023-24

| Scho | ool: Scl | hool of Arch | nitecture and Planning | Batch: 2021 | | | | | | | | | |
|------|---------------------|---------------|-----------------------------|-------------|-------|----|---------|--------|---------|--------|------|-------|----------------------------|
| Dep | artme | nt: | | | | | | | Year: | III | | | |
| Cou | rse: B. | A (H) Interio | or Design | Semester: V | | | | | | | | | |
| | | | | D | Perio | de | | [| Evaluat | ion So | heme | | Subject |
| | Cat | Course | | | | | • | Theory | - | | _ | Total | |
| SN | e- gory | Code | Course Name | L | т | Ρ | Credits | CE | MSE | ESE | IP | EXP | Marks (CE+IP+EX P)/2 |
| 1 | PC | BHI-301 | Interior Landscape | 1 | 0 | 6 | 4 | 20 | - | - | 80 | 100 | 100 |
| 2 | BS AE | BHI-303 | Interior Services-II | 1 | 0 | 2 | 2 | 20 | - | - | 80 | 100 | 100 |
| 3 | OE | Open Electi | ve - II | 1 | 0 | 2 | 2 | 20 | - | - | 80 | 100 | 100 |
| 4 | BS AE | BHI-351 | Working Drawing & Detailing | 0 | 0 | 8 | 4 | - | - | - | 100 | 100 | 100 |
| 5 | PC | BHI-353 | Interior Design-III | 0 | 0 | 12 | 6 | - | - | - | 100 | 100 | 100 |
| | Total> 3 0 30 18 60 | | | | | | | | | - | 440 | 500 | 500 |

Abbreviations:

- PC: Programme Core Courses
- BS AE:Building sciences and applied
engineeringOE:Open ElectiveIP:Internal
PracticalEXP:External PracticalL:LectureT:Tutorial
 - P: Practical

CE: Continuous Evaluation

MSE: Mid Semester Examination

ESE: End Semester Examination



LINGAYA'S VIDYAPEETH SCHEME OF STUDIES SESSION: 2023-24

| Sch | School: School of Architecture and Planning | | | | | | | | | | Batch: 2021 | | | | | | |
|-------------|---|---------------|--|---------|-------|-----|------|----|--------------|-----------|-------------|--------|----------------------------|--|--|--|--|
| De | partmer | nt: | | | | | | | Year | Year: III | | | | | | | |
| Co ι | urse: B. | A(H)- Interio | r Design | | | | | | Semester: VI | | | | | | | | |
| | | | | P | erio | hds | | | Evalua | ation | Schem | ne | Subject | | | | |
| S | Cate- | Course | | Terious | | | Cre | - | Theory | / | Pra | ctical | Total | | | | |
| N | gory | Code | Course Name | L | L T P | | dits | CE | MS E | ES E | IP | EXP | Marks (CE+IP+ EXP)/2 | | | | |
| 1 | PC | BHI-302 | Lighting Colors & Interiors | 1 | 0 | 2 | 2 | 20 | - | - | 80 | 100 | 100 | | | | |
| 2 | PC | BHI-304 | Estimation & Costing | 1 | 0 | 2 | 2 | 20 | - | - | 80 | 100 | 100 | | | | |
| 2 | 55 | BHI-306A | Interior Accessories and Product Design | 1 | 0 | 4 | 3 | 20 | | | | 100 | 100 | | | | |
| 3 | PE | BHI-306B | Revitalization of Art and Craft | 1 | / | | | 20 | - | - | 80 | 100 | 100 | | | | |
| 4 | OE | Open Electiv | e - III | 1 | 0 | 2 | 2 | 20 | - | - | 80 | 100 | 100 | | | | |
| 5 | PC | BHI-352 | Interior Design - IV | 0 | 0 | 12 | 6 | - | - | - | 100 | 100 | 100 | | | | |
| 6 | PAEC C | BHI-354 | Dissertation | 0 | 0 | 6 | 3 | - | - | - | 100 | 100 | 100 | | | | |
| | | | Total> | 4 | 0 | 28 | 18 | 80 | - | - | 520 | 600 | 600 | | | | |

Abbreviations:

- PC: Programme Core Courses
- PE: Professional Elective Courses
- Open OE:
- Elective Professional Ability Enhancement
- PAECC: Compulsory course
- L: Lecture
- T: Tutorial
- P: Practical

- CE: Continuous Evaluation
- MSE: Mid Semester Examination
- ESE: End Semester Examination
- IP: Internal Practical EXP: External Practical

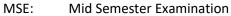


LINGAYA'S VIDYAPEETH **SCHEME OF STUDIES** SESSION: 2024-25

| Scł | nool: Sch | Ba | Batch: 2021 | | | | | | | | | | | | | |
|-----|--------------------------------|-------------|-------------|------|-------|---|-----|--------|-------|---------------|----------|---------|----------|--|--|--|
| De | Department: | | | | | | | | | | Year: IV | | | | | |
| Со | ourse: B.A(H)- Interior Design | | | | | | | | | Semester: VII | | | | | | |
| | | | Pa | erio | dc | | | Evalu | uatio | n Schei | ne | Subject | | | | |
| s | Cate- | | | | enous | | Cr | Theory | | | Prac | tical | Total | | | |
| N | gory | Course Code | Course Name | | | | ed | с | MS | Ε | | | Marks | | | |
| | 0, | | | L | Т | P | its | E | E | S | IP | EXP | (CE+IP+E | | | |
| - | | | | | | | | | | Ε | | | XP)/2 | | | |
| 1 | PAECC | BHI-451 | Training | 0 | 0 | 0 | 16 | - | - | - | 100 | 100 | 100 | | | |
| | | | Total> | 0 | 0 | 0 | 16 | - | - | - | 100 | 100 | 100 | | | |

Abbreviations:

| Abbr | eviations: | |
|--------|---|--|
| PAECC: | Professional Ability Enhancement Compulsory course | |
| L: | Lecture | |
| T: | Tutorial | |
| Ρ: | Practical | |
| CE: | Continuous Evaluation | |



- End Semester ESE:
- Examination
- IP: **Internal Practical**
- EXP: **External Practical**



LINGAYA'S VIDYAPEETH SCHEME OF STUDIES SESSION: 2024-25

| School: School of Architecture and Planning | | | | | | | | | | Batch: 2021 | | | | | | | |
|---|---------------------------------|----------------------------------|---|---|---------|----|-------------|----|---------|-------------|----------------|---------|----------------------------|--|--|--|--|
| De | Department: | | | | | | | | | | Year: IV | | | | | | |
| Со | Course: B.A(H)- Interior Design | | | | | | | | | | Semester: VIII | | | | | | |
| | | | | | Periods | | | | Evalua | tion So | cheme | 9 | Subject | | | | |
| S | Cate | | | • | Ferious | | | | Theor | у | Prac | tical | Total | | | | |
| N | - gory | Course Code | Course Name | L | т | Р | Cre dits | CE | MS E | ESE | IP | EX P | Marks (CE+IP+EX P)/2 | | | | |
| 1 | PC | BHI-402 | Thesis | 1 | 0 | 24 | 13 | 20 | - | - | 80 | 100 | 100 | | | | |
| 2 | PAEC C | BHI-404 | Professional Practice | 1 | 0 | 4 | 3 | 20 | - | - | 80 | 100 | 100 | | | | |
| 3 | PE | BHI-406A BHI-406B BHI-406C | Entrepreneurship Development Applied Ergonomics Portfolio Development | 1 | 0 | 2 | 2 | 20 | - | - | 80 | 100 | 100 | | | | |
| 4 | OE | Open Elective | - IV | 1 | 0 | 2 | 2 | 20 | - | - | 80 | 100 | 100 | | | | |
| | | | Total> | 4 | 0 | 32 | 20 | 80 | - | - | 320 | 400 | 400 | | | | |

Abbreviations:

| PC: | Programme Core Courses | CE: | Continuous Evaluation |
|--------|----------------------------------|--------|--------------------------|
| PE: | Professional Elective Courses | MSE: | Mid Semester Examination |
| OE: | Open Elective | ESE: | End Semester Examination |
| PAECC: | Professional Ability Enhancement | IP: | Internal |
| FALCE. | Compulsory course | 16. | Practical |
| L: | Lecture | EXP: | External |
| L. | | L/(I . | Practical |
| T: | Tutorial | | |
| | | | |

P: Practical

PROGRAMME OUTCOMES

| PO1 | Demonstrate a comprehensive knowledge of historical and contemporary design |
|------|---|
| | practice and theory. |
| PO2 | Understand contemporary and historical art and design issues, appropriate theory and |
| | the development of skills in critical analysis for their own sake or for their application to |
| | art and design practice |
| PO3 | Demonstrate an advanced level of practical understanding and technical competence - |
| | whether in traditional or digital technology - in design to enable them to practice |
| | successfully in the profession |
| PO4 | Demonstrate a critical understanding of the relationship between theory and practice |
| | in art and design as it relates to the subje <mark>c</mark> t. |
| PO5 | Possess a professional level of individual creativity, vision, personal expression and |
| | intellectual ability to enable students to practice successfully in design. |
| PO6 | Demonstrate an advanced understanding of new and future methods, materials, |
| | processes and technologies approp <mark>riate to three</mark> -dimensional design. |
| PO7 | Express an understanding of the national and international contexts of art and design |
| | practice. |
| PO8 | Demonstrate the ability to recognize the cultural, conceptual and professional contexts |
| | relevant to the evaluation and understanding of their work. |
| PO9 | Demonstrate individual creativity, personal expression and technical competence, |
| | using the practical skills necessary to critically evaluate, realize and coherently |
| | communicate three dimensional ideas in appropriate media suitable for portfolio. |
| PO10 | Demonstrate the development of problem-solving skills through research, critical |
| | analysis and the subsequent development of creative solutions within a professional, |
| | contextual and ethical framework. |
| PO11 | Demonstrate a critical understanding of design practice impact on culture, society and |
| | the environment, including an appropriate knowledge of the application of materials |
| | and processes. |
| | |

B.A (H) Interior Design (2021 Batch)

SYLLABUS

1st Semester

NM1: Ideate

| Module 1 | | |
|--------------|--------------------------------|-------------|
| | | NM1: Ideate |
| Subject Code | Subject Name | Max Marks |
| BNT-151 | Theory of Design-I | 30 |
| BNT-153 | Basic Design-I | 25 |
| BNT-155 | Anthropometrics and Ergonomics | 20 |
| BNT-157 | History of Design | 50 |
| BNT-159 | Graphic Design | 25 |
| BNT-161 | Drawing & Rendering-I | 25 |
| BNT-163 | Workshop & Model Making | 25 |
| BNT-165 | Presentation Skills | 25 |

COURSE OUTCOMES

| Desig | ner will be able to: |
|-------|---|
| 1 | Investigate the fundamental aspects of the design process |
| 2 | Underlying principles of design methodologies utilized in the industry |
| 3 | To generate a variety of design ideas that lead to high quality design outcomes |

Project: Compositions with patterns, textures etc.

COURSE CONTENT

| BNT-151 | Theory of Design - 1 |
|---------|----------------------|
| LINIT I | |

UNIT –I

INTRODUCTION TO DESIGN

Definitions and meaning of design, importance of design, examples of design from nature. Fundamental elements of design in 2-D and their definitions; point, line, shape, form, space, texture, value, colour and material. Introduction to the principles of design in 2-D and 3D - unity, balance, symmetry, proportion, scale, hierarchy, rhythm, contrast, harmony, focus, etc.; use of grids, creating repetitive patterns.

UNIT – II

PRINCIPLES OF COMPOSITION

Principles of composition using grids, symmetrical/ asymmetrical, Rule Of Thirds, Center Of Interest, Gestalts Theory of Visual Composition.

| BNT-153 | Basic Design-I |
|---------|----------------|
| | |

UNIT – I

INTRODUCTION TO BASIC DESIGN

Definitions of creativity, understanding components of creativity, definitions of problem solving, theories of creativity, goals and objectives, value judgments, defining problems, information gathering, creative incubation, creative thinking and creative process.

| BNT-155 | Anthropometrics and Ergonomics |
|---------|--------------------------------|
|---------|--------------------------------|

UNIT –I

NEED FOR STUDY

Introduction to Ergonomics, Need for study of anthropometric and ergonomics. , Design today- Human aid to lifestyle.

BNT-157 History of Design

UNIT –I

PURPOSE AND RELEVANCE OF ART DEVELOPMENT

A survey of history of art forms: pre historic times to present times: changing nature of art through time in terms of content: form and material.

UNIT – II

EXPLORATION OF ART FORMS

Study of traditional and contemporary art forms – painting, sculpture, architecture, decorative arts, design arts, digital art. Relationship between art and design from the earliest time.

BNT-159 Graphic Design

UNIT – I INTRODUCTION TO FREE HAND DRAWING

Basic exercises, Still life, Basic forms, effect of lines to represent textures - Understanding of different types of perspective views using vanishing points, Shading exercises etc.

types of perspective views using vanishing points, Shading

UNIT – II SKETCHING

Outdoor sketching including Lawns, bushes, Water Bodies, Plants & trees in different media. Indoor sketching – furnitures, lights, corridor, lobby, class room etc.

BNT-161 Drawing & Rendering-I

UNIT I

GEOMETRICAL CONSTRUCTIONS

SCALES : Construction of plain scale and diagonal scale

CONIC SECTIONS : Construction of conic sections given the distance of focus from the directrix and eccentricity. Construction of ellipse – concentric circle method, rectangular method and intersecting arc method. Construction of parabola by rectangular method and by tangent method. Construction of hyperbola– given the asymptotes and a point on the curve SPIRALS : Construction of Archimedean spiral and Logarithmic spiral

HELIX : Construction of cylindrical helix ,conical helix and square helical spring

BNT-163 Workshop & Model Making

UNIT I

INTRODUCTION TO MODEL MAKING

Need; role of scale models in design: general practices: Essentials of model making: understanding of various tools and machines employed, best practices involved in operating the tools and the techniques.

Introduction to the Mount Board/Paper/Boards for model making – types, properties etc. Hand building techniques on different planes - making rigid forms like, cubic, spherical, pyramidal shaped forms, depiction of steps, free forms, sculptures, etc.

BNT-165 Presentation Skills Unit 1 Basic Communication Theory

Importance of Communication – Stages of communication, Modes of Communication – Barriers to Communication, Strategies for Effective Communication – Listening: Importance, Types, and Barriers, Developing Effective Listening Skills.

NM2: Communicate

| Module 2 | | NM2: Communicate |
|--------------|-----------------------------------|------------------|
| Subject Code | Subject Name | Max Marks |
| BNT-151 | Theory of Design-I | 25 |
| BNT-153 | Basic Design-I | 25 |
| BNT-155 | Anthropometrics and Ergonomics | 25 |
| BNT-157 | History of Design | 20 |
| BNT-159 | Graphic Design | 30 |
| BNT-161 | Drawing & Rendering-I | 20 |
| BNT-163 | Workshop & Model Making | 25 |
| BNT-165 | Presentation Skills | 50 |

COURSE OUTCOMES

| Desig | ner will be able to: | |
|-------|--|--|
| 1 | Ability to draw and communicate design intent clearly | |
| 2 | Effective manipulation of materials, mediums and software | |
| 3 | To easily realize and communicate design ideas, both in a 2d and 3d format | |
| 4 | Conventions in drawings used within the wider design industry. | |
| | | |

Project: Basic Shapes models and compositions

Theory of Design - 1

COURSE CONTENT

| BNT | -151 | |
|-----|------|--|
| | | |

UNIT – III

CONCEPTS OF GEOMETRY

Introduction to different 3-D forms and primitive forms, shapes and understanding the behavior when combined. Transformation of 2-D to 3-D.

| BNT-153 | Basic Design-I |
|---------|----------------|
|---------|----------------|

UNIT- II

THINKING TECHNIQUES

Principles in generative, convergent, lateral, interactive, graphical thinking, check lists, analysis and synthesis simulation, action ability and implementations of intentions. Blocks in creative thinking.

UNIT- III

TOOLS AND TECHNIQUES OF CREATIVITY

Mind mapping, brain storming with related stimuli and unrelated stimuli, positive techniques for creativity, creative pause, Focus, Challenge, alternatives, concepts, sensitizing techniques, group or individual techniques.

| BNT-155 | Anthropometrics and Ergonomics | |
|-----------|--------------------------------|--|
| UNIT – II | | |

ERGONOMICS IN INDIA

Environmental factors influencing human performance, Ergonomics in India. Ergonomics/ human Factors fundamentals, Physiology (work physiology) and stress

BNT-157 History of Design

UNIT – III

STUDY OF ORNAMENTS & ACCESSORIES

Ornaments & Accessories in Interior Design. Different types of Ornamentation & Accessories in the interiors. Study and evaluation of artefacts, historic examples and their applicability.

UNIT – IV

INTRODUCTION TO HERITAGE INTERIORS

Heritage Interiors Buddhist, Islamic and Hindu: Evolution of Interiors in different regions of India with examples. Heritage and identity at different spatial scales.

BNT-159 Graphic Design

UNIT – III MEASURED DRAWING

Lettering - types, Scale, measured drawing of furniture, Wall paneling, flooring pattern, ceiling pattern, doors and windows.

| | BNT-161 | Drawing & Rendering-I |
|--|---------|-----------------------|
|--|---------|-----------------------|

UNIT II

PROJECTIONS

First angle projection Points and Lines : Orthographic projection of lines for any given condition, determination of true length ,traces and inclinations to the planes of projection of any given line Planes : Traces of planes , plane figure inclined to one or both the reference planes

UNIT III

SOLIDS

Solids : Simple solids in simple position , prisms, regular pyramids, tetrahedron, octahedron, cone, spheres and their combinations placed in different positions. Auxiliary projections of simple solids and their combinations. Change of position and auxiliary plane method.

| BNT-163 | Workshop & Model Making | 1 | / | |
|----------|-------------------------|---|---|--|
| UNIT -II | l. | | 1 | |

MATERIALS AND TECHNIQUES (CLAY)

Ceramics - clay/ plaster of Paris : Introduction to model making, Need; role of scale models in design: general

practices - The potter's wheel – kneading the clay, function of hands in throwing. Learning basic techniques in making different objects like bowl, plate, cylinder, vase, etc. Essentials of model making: understanding of various tools and machines employed, best practices involved in operating the tools and the techniques. Introduction to the Ceramic materials used for model making – clay, types and mixtures, properties etc. Hand building techniques- coiling, hand building with clay strips- making a small sculpture in Relief work – addition - making a mural, scooping – tile work.

| | - | - | - | - | - | - |
|---------|---|---|---|---------------------|---|-------|
| BNT-165 | | | | Presentation Skills | | |
| | | | | | | |

Unit 2 Comprehension and Analysis

Comprehension of Technical and NonTechnical Material – Skimming, Scanning, Inferring-Note Making and extension of Vocabulary, Predicting and Responding to Context- Intensive Reading and Reviewing.

Unit 3 Writing

Effective Sentences, Cohesive Writing, Clarity and Conciseness in Writing – Introduction to Technical Writing– Better Paragraphs, Definitions, Practice in Summary Writing, four modes of writing, use of dictionaries, Indices, library References, Making Bibliographical Entries with Regard to Sources from Books, Journals, Internet, etc.

NM3: Contextualize

| Module 3 | | NM3: Contextualize |
|--------------|-----------------------------------|--------------------|
| Subject Code | Subject Name | Max Marks |
| BNT-151 | Theory of Design-I | 25 |
| BNT-153 | Basic Design-I | 25 |
| BNT-155 | Anthropometrics and Ergonomics | 30 |
| BNT-157 | History of Design | 30 |
| BNT-159 | Graphic Design | 25 |
| BNT-161 | Drawing & Rendering-I | 25 |
| BNT-163 | Workshop & Model Making | 25 |
| BNT-165 | Presentation Skills | 25 |

COURSE OUTCOMES

| Desi | Designer will be able to: | | | | |
|------|--|--|--|--|--|
| 1 | To see critical and cultural studies as a vital tool for innovative and well-informed practice | | | | |
| 2 | To explore a range of theoretical positions that inform recent and contemporary practice. | | | | |
| 3 | To reflect critically upon their own work and to locate their practice within the context of historical, social, political, cultural, environmental and theoretical perspectives | | | | |

Project: Human figures (Sketches and Models)

COURSE CONTENT

BNT-151

Theory of Design - 1

UNIT- IV

THEORY OF COLOURS

Introduction –visible spectrum, coloured light, colour temperature, colour interaction, colour blindness. Color wheel – primary, secondary, tertiary colors, color wheel, color schemes color value, intensity, and modification of color hues – tints, shades, neutralization. Color charts – types, making and using. Color harmony, use of color harmony.

| BNT-153 | Basic Design-I | |
|-----------|----------------|--|
| UNIT – IV | | |

PROBLEM STATEMENTS

Brain writing with unrelated stimuli, idea mapping, random input, story boarding exercises, problem solving techniques – brain storming, lateral thinking of De Bono

BNT-155 Anthropometrics and Ergonomics

UNIT – III

HUMAN PHYSICAL DIMENSION

Human physical dimension concern: Human body- structure and function, anthropometrics,

Anthropometry: body growth and somatotypes, Static and dynamic anthropometry, Stand Postureerect, Anthropometry landmark: Sitting postures, Anthropometry: squatting and cross-legged

postures, Anthropometric measuring techniques, Statistical treatment of data and percentile calculations.

UNIT- IV

HUMAN BODY STRUCTURE AND FUNCTION

Posture and job relation, Posture and body supportive devices, Chair characteristics, Vertical work surface, Horizontal work surface , movement , work Counter.

| BNT-157 | History of Design |
|----------|-------------------|
| UNIT – V | |

NEW DIRECTIONS IN ART

Context for new directions in art in the late 19th and early 20thcentury - Impressionism - post

Impressionism – Fauvism - Expressionism - Cubism – Dadaism – Surrealism - abstract art – Futurism -Constructivism – Suprematism – De-Stijl -Abstract Expressionism - Pop art - Op art - new forms and media of art. Study of famous and influential Artists, Craftsmen and people who pioneered innovations in their own fields and their influence on design and other fields. Works of Van Gogh, Dali, William Morris,Piccaso,Da Vinci

BNT-159 Graphic Design

UNIT – III GEOMETRICAL DRAWING

Orthographic projections - Projection of lines, planes and solids, section of primary solids such as pyramids, cones, cylinder, prism, sphere, cuboid, etc.

BNT-161 Drawing & Rendering-I

UNIT IV

SECTIONS & DEVELOPMENTS OF SOLIDS

Intersection of surfaces : Line of intersection of two prisms , two cylinders and cone Section of solids : Section of simple solids by planes inclined. True shape of sections. Development of surfaces: Development of surfaces of simple solids, prisms, cylinders, pyramids, cones , spheres and truncated solids.

BNT-163 Workshop & Model Making

UNIT - III

MATERIALS AND TECHNIQUES (WOOD)

Wood : Working with wood and wood derivatives to understand material parameters. Wooden joinery and its strength, Wood polishes and other finishes – colour and surface quality. Making of elements of various scales in the built form, such as, interior space making elements, furniture forms, various products, Art & Artifacts by using wood. Understanding the material and tools by making objects which allow students to explore the forms, surfaces, textures and patterns. Explore different joinery, support conditions, and woven surfaces.

UNIT - IV

MATERIALS AND TECHNIQUES (METAL)

Metal : Types of metals, properties of metals, definitions of terms with reference to properties and uses of metals, various methods of working with metals, fixing and joinery in metals, finishing and treatment of metals., finishes on metals. Standard specifications. Metals in built form activity – horizontal, vertical and inclined surfaces – in interior environment elements- products and furniture forms - doors, windows, grilles, railing, stair etc. Metals and other materials – form and joinery.

| BNT-165 | Presentation Skills |
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Unit 4

Business Writing/Correspondence

Report Writing, Memoranda, Notice, Instruction Letters.

Unit 5

Oral Communication

Presentation skills, Group Discussions, Dialogue Writing, Short Extempore, Debates, Role Plays, Conversation Practice for interviews.

NM4: Illustrate

| Module 4 | | NM4: Illustrate |
|--------------|-----------------------------------|-----------------|
| Subject Code | Subject Name | Max Marks |
| BNT-151 | Theory of Design-I | 20 |
| BNT-153 | Basic Design-I | 25 |
| BNT-155 | Anthropometrics and Ergonomics | 25 |
| BNT-159 | Graphic Design | 20 |
| BNT-161 | Drawing & Rendering-I | 30 |
| BNT-163 | Workshop & Model Making | 25 |

COURSE OUTCOMES

| Desi | Designer will be able to: | | | | | |
|------|--|--|--|--|--|--|
| 1 | To see critical and cultural studies as a vital tool for innovative and well-informed practice | | | | | |
| 2 | To explore a range of theoretical positions that inform recent and contemporary practice. | | | | | |
| 3 | To reflect critically upon their own work and to locate their practice within the context of historical, social, political, cultural, environmental and theoretical perspectives | | | | | |

Project: Technical View Drawings

COURSE CONTENT

| BNT-151 | Theory of Design - 1 | | | / | |
|----------|----------------------|---|---|---|--|
| UNIT – V | | 1 | / | | |

USE OF COLOURS

Psychological impact of color – warm, cool and neutral colors, impact of specific hues, meanings of color, color and form, color and light, color and surface qualities, color and distances and scales.

Problems with color. Use of colors in various functional contexts - e.g. Residential interiors, Non Residential interiors. Use of color in special situations - out door/indoor spaces, accessories, art works etc.

| BNT-153 | Basic Design-I |
|---------|----------------|

UNIT – V

CREATIVE SOLUTIONS

Applicable to designs – Design, Invention, opportunity, problems, improvement, planning, projects, conflicts. Simple Design exercises. Creative Design process – conceptual design, embodiment design, detail design, Iterations

| BNT-155 | Anthropometrics and Ergonomics |
|---------|--------------------------------|
|---------|--------------------------------|

UNIT- IV

HUMAN BODY STRUCTURE AND FUNCTION

Posture and job relation, Posture and body supportive devices, Chair characteristics, Vertical work surface, Horizontal work surface , movement , work Counter.

UNIT – V

BEHAVIOUR AND PERCEPTION

Communication and cognitive issues, Psychosocial behavior aspects, behavior and stereotype, Information processing and perception, Cognitive aspects and mental workload, Human error and risk perception

BNT-159 Graphic Design

UNIT – IV ISOMETRIC DRAWING

Isometric projection of all platonic solids such as cube, cuboid, hexagonal prism, pyramids, cone and sphere etc -

UNIT – V ISOMETRIC SURFACES

isometric projection of singly and doubly curve surfaces.

| BNT-161 | Drawing & Rendering-I |
|---------|-----------------------|
|---------|-----------------------|

UNIT V MATERIAL PROJECTIONS

Isometric Projection : Isometric scale, isometric view of planes, simple solids, truncated solids, combination of objects Perspective projection : Perspective projection of simple solids and their combinations by visual ray method and vanishing point method

BNT-163 Workshop & Model Making

UNIT -V

MATERIALS AND TECHNIQUES (TEXTILES)

Textiles – Weaving &printing : Introduction to fibers and yarns, table loom and floor loom, preparing warp,

setting up loom for weaving. Basic weaves and their variations. Variation weaves and design quality, weaves as light controlling device, weaves and its quality for upholstery, curtains and floor coverings, Rugs and durries – motifs design, patterns and color variations. Development of textile design in different cultures from primitive art to contemporary designs. Criteria of design of the elements and principles of textile design. Analysis of a motif, developing repeat as a basic unit of design in textile printing. Printing – developing block, understanding the material used, colors, types and their mixing process, various color printing. Screen printing – design evolution for wall hangings, preparing screen and understanding the technique, printing on paper and printing on fabric.



2nd Semester

NM5: Establishing Design

| Module 5 | | NM5: Establishing Design |
|--------------|--|--------------------------|
| Subject Code | Subject Name | Max Marks |
| BNT-102 | Theory of Design-II | 25 |
| BNT-104 | Value and Ethics | 50 |
| BNT-106 | Creative Thinking | 25 |
| BNT-108 | History of Design-II | 50 |
| BNT-110 | Construction Techniques and Representations - I | 25 |
| BNT-152 | Computer Design and Digital Fabrication-I | 25 |
| BNT-154 | Basic Design – II | 25 |
| BNT-112 | Environmental Science | 25 |

Course Outcome

| 1To extend individual and collective practice in response to local and/or global issues2To further develop an understanding interdisciplinary mode of enquiry3To demonstrate or disseminate innovative artistic and design work4To encourage responses to themes from broad disciplinary boundaries, human experiences and values | Designer will be able to: | | |
|---|---------------------------|---|--|
| 3 To demonstrate or disseminate innovative artistic and design work | 1 | To extend individual and collective practice in response to local and/or global issues | |
| , | 2 | To further develop an understanding interdisciplinary mode of enquiry | |
| 4 To encourage responses to themes from broad disciplinary boundaries, human experiences and values | 3 | To demonstrate or disseminate innovative artistic and design work | |
| | 4 | To encourage responses to themes from broad disciplinary boundaries, human experiences and values | |

Project -

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|---------|---------------------|--|
| BNT-102 | Theory of Design-II | |
| UNIT- I | | |

PRINCIPLES OF DESIGN

Exploration of the basic principles of composition such as Proportion, Scale, Balance, Rhythm, Unity, Contrast, Character with garment examples. Ordering Principles such as Axis, Symmetry, Hierarchy, Datum, Rhythm & Repetition..

| BNT-104 | Value and Ethics | |
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UNIT I

NEED FOR STUDY

Value Education—Introduction – Definition of values – Why values? – Need for Inculcation of values – Object of Value Education – Sources of Values – Types of Values: i) Personal values ii) Social values iii) Professional values iv) Moral and spiritual values) Behavioral (common) values

UNIT II

PERSONAL VALUES

Personal values – Definition of person – Self- confidence – Relative and absolute confidence, being self- determined, swatantrata (loosely equivalent to freedom). Self- discipline – Self Assessment – Self- restraint –Self motivation – Determination – Ambition – Contentment Self- respect and respect to others; expression of respect

UNIT III

SOCIAL VALUES

Social values – Units of Society - Individual, family, different groups – Community – Social consciousness – Equality and Brotherhood – Dialogue – Tolerance – Sharing – Honesty Responsibility – Cooperation; Freedom – Repentance and Magnanimity. Peer Pressure – Ragging - examples - making one's own choices

| BNT-106 | Creative Thinking | |
|------------|-------------------|--|
| UNIT I | | |
| CREATIVITY | | |

Explanation on creativity, Icebreaker: Thinking Outside the Box, Combining Ideas: How to combine ideas for creative thinking breakthroughs, Combining ideas is one of the fundamental exercises in creative thinking.

UNIT II

CREATIVE THINKING TOOLS

Thinking tool no. 1: Kick Cards, 2: The Inverse, 3: Double Six Good Bad Interesting: Get creative thinking with the G.B.I. exercise – Dr Edward de Bono. Brainstorming,

| BNT-108 | History of Design-II |
|---------|----------------------|

UNIT I

ELEMENTS OF STYLE

Elements of style and determinants of Interior environments in Ancient Civilization, Classical world & the Middle ages : emphasis shall be on Architectural elements, furniture, decorative arts, colours& materials. Egyptian - Indus Valley Civilization - The ancient Near East - Samarians, Babylonians, Assyrians, Persians

UNIT II

CLASSICAL WORLD

Greek, Roman architecture and Eastern influences - China and Japan.

UNIT III

THE MIDDLE AGES

Early Christian and Byzantine, Romanesque and Gothic, Renaissance in Italy, Spain, France and England, Baroque, Rococo, Neoclassicism-Boulle,Ledoux.

| BNT-110 | Construction Techniques & Representations-I |
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UNIT I

HARDARE

Hardware &Accessories : all hardware required for residences, offices, other public & private spaces, etc., including all types of hinges, drawer slides, handles, locks, wire managers, etc., accessories for toilet, kitchen, office, glass patch fittings, profiles, etc.,

SUGGESTED BOOKS

- Bindra, S.P. and Arora, S.P. Building Construction: Planning Technique and Methods of Construction, 19th ed. Dhanpat Rai Pub., New-Delhi, 2000
- Moxley, R. Mitchell's Elementary Building Construction, Technical Press Ltd.
- Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House Anand, 2004.
- Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2003.
- Francis D. Ching, Building Construction Illustrated, Wiley publishers, 2008

BNT-152 Computer Design & Digital Fabrication-I

UNIT I

MS OFFICE

Computer Orientation, Microsoft word, Microsoft excel, Microsoft presentation software, scanning and MS Paint UNIT II

BASIC OUTLINE , AXIS POINTS

Introduction to the menu, starting drawings from scratch. Creating and using templates- starting drawings with setup wizards. Saving and closing a file.Introduction to the menu, starting drawings from scratch. Creating and using templates- starting drawings with setup wizards. Saving and closing a file.

- Auto Desk, Revit 2017 for Architecture, Sybex, 2016.
- Auto Desk, 3DS MAX comprehensive tutorial resources Wiley 2014.

- Sketch up for interior Design . 3D visualising designing & space planning by Lidya Sloan, Wiley Publisher 2014.
- Computer Design & Digital Fab
- Auto Desk Auto cad 2017 for Architecture, Sybex , 2016

BNT-154 Basic Design-II

UNIT I

Busic Besi

BASIC ANTHROPOMETRICS

Average measurements of human body in different postures – its proportion and graphic representation, application in the design of simple household and furniture.

UNIT II

SPATIAL PARAMETER

Role of mannequins in defining spatial parameter of design. Basic human functions and their implications for spatial planning. Minimum and optimum areas for various functions. SUGGESTED BOOKS

- Karlen Mark, Space planning Basics, Van Nostrand Reinhold, New York, 3rd edition 2009.
- Joseph D Chiara, Julius Panero, & Martin Zelnick, Time Saver standards for Interior Design & space planning, 2nd edition, Mc-Graw Hill professional, 2001.
- Francis.D. Ching & Corky Bingelli, Interior Design Illustrared, 2nd edition, Wiley publishers, 2004
- Karlen Mark, Kate Ruggeri & Peter Hahn, Space Planning Basics, Wiley publishers, 2003.

BNT-112 Environmental Science

UNIT I

INTRODUCTION TO WORLD ART & CULTURES

Definition, scope and importance, of environmental studies, Need for public awareness. Renewable and non- renewable resources: Natural resources and associated problems. Forest resources: Water resources: Mineral \ resources : Food resources : Energy resources: Land resources :

- Cunningham, W.P. Cooper T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopedia, Jaico Publ. House, Mumbai, 1196p
- Text Book for environmental Studies For UGC, ErachBharucha

NM6: Applications

| Module 6 | | NM6: Applications |
|--------------|--|-------------------|
| Subject Code | Subject Name | Max Marks |
| BNT-102 | Theory of Design-II | 25 |
| BNT-104 | Value and Ethics | 25 |
| BNT-106 | Creative Thinking | 25 |
| BNT-108 | History of Design-II | 25 |
| BNT-110 | Construction Techniques and Representations - I | 25 |
| BNT-152 | Computer Design and Digital Fabrication-I | 25 |
| BNT-154 | Basic Design – II | 25 |
| BNT-112 | Environmental Science | 25 |

Course Outcome

| Desig | ner will be able to: | |
|-------|---|--|
| 1 | To provide the skills and knowledge to communicate art and design skills creatively | |
| 2 | To introduce a range of technical skills appropriate to future learning | |
| 3 | To establish strong and supportive peer networks | |
| 4 | To develop research, design and communication skills | |

Project -

| BNT-102 | Theory of Design-II | |
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UNIT- II

ORGANISATION OF FORMS

Spatial Relationships: i) Space within space, ii) Interlocking spaces, iii) Adjacent spaces, iv) Space linked by a common space b) Spatial Organization: influencing factors and their types i) Centralized, ii) Linear, iii) Radial, iv) Clustered, v) Grid c) Articulation of forms and spaces types: i) Edges and corners, ii) Surface. A Project on Creation of forms & spaces using the principles learnt.

| BNT-104 | Value and Ethics |
|---------|------------------|
| UNIT IV | |

PROFESSIONAL VALUES

Professional values – Definition – Competence – Confidence – Devotion to duty –Efficiency – Accountability – Respect for learning /learned – Willingness to Learn- Open and balanced mind – Team spirit – Professional Ethics –

Willingness for Discussion; Difference between understanding and assuming Time Management: Issues of planning, as well as concentration (and aligning with self- goals) Expectations from yourself. Excellence and competition, coping with stress, Identifying one's interests as well as strengths.

| BNT-106 | Creative Thinking |
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UNIT III

PRINCIPLES OF CREATIVITY

Creative Problems: Defining creative problems and solutions. Diffusion: Spreading ideas through social networks.Divergence and convergence: Staying open and staying focused. Exploration: Going where no one has gone before.Forced association: Banging things together to create new things. Ground Rules: Shared rules that enable safe creativity.Jumping: Jumping to new idea domains. Practice: Build your 'creative muscle' with regular practice. Questioning: Asking things to get the mind going.

BNT-108 History of Design-II

UNIT IV

INDIAN ARCHITECTURE AND INTERIORS

Hindu, Islamic and Buddhist architecture, Secular architecture of the princely states like Rajasthan, etc.

| BNT-110 | Construction Techniques & Representations-I |
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| | |

UNIT II

STONES

Stones : Igneous, metamorphic & sedimentary - classifications, types, properties, availability, applications

SUGGESTED BOOKS

- Bindra, S.P. and Arora, S.P. Building Construction: Planning Technique and Methods of Construction, 19th ed. Dhanpat Rai Pub., New-Delhi, 2000
- Moxley, R. Mitchell's Elementary Building Construction, Technical Press Ltd.
- Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House Anand, 2004.
- Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2003.
- Francis D. Ching, Building Construction Illustrated, Wiley publishers, 2008

BNT-152 Computer Design & Digital Fabrication-I

UNIT III

UNITS, LIMITS AND LAYERS

Setting up the drawing environment – setting the paper size, setting units, grid limits, drawing limits, snap controls. Use of paper space and model space. Basic commands dealing with drawing properties: Layer control, change properties, line weight control, etc.

SUGGESTED BOOKS

- Auto Desk, Revit 2017 for Architecture, Sybex, 2016.
- Auto Desk, 3DS MAX comprehensive tutorial resources Wiley 2014.
- Sketch up for interior Design . 3D visualising designing & space planning by Lidya Sloan, Wiley Publisher 2014.
- Computer Design & Digital Fab
- Auto Desk Auto cad 2017 for Architecture, Sybex , 2016

| | BNT-154 | Basic Design-II |
|--|---------|-----------------|
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UNIT III

INTRODUCTION TO DESIGN METHODOLOGY

Detailed study of residential spaces: such as, living, dining, bedrooms, kitchen, toilet etc. including the furniture layout, circulation, clearances, etc. Case study of existing residential spaces and the analysis of the spaces therein, to be taken up. Preparing user profile, bubble and circulation diagrams.

- Karlen Mark, Space planning Basics, Van Nostrand Reinhold, New York, 3rd edition 2009.
- Joseph D Chiara, Julius Panero, & Martin Zelnick, Time Saver standards for Interior Design & space planning, 2nd edition, Mc-Graw Hill professional, 2001.
- Francis.D. Ching & Corky Bingelli, Interior Design Illustrared, 2nd edition, Wiley publishers, 2004
- Karlen Mark, Kate Ruggeri & Peter Hahn, Space Planning Basics, Wiley publishers, 2003.

BNT-112 Environmental Science

UNIT II ECO SYSTEMS

Structure and function of an ecosystem, Concept of an ecosystem, Producers, consumers and decomposers, Energy flow in the ecosystem, Ecological succession, Food chains, food webs and ecological pyramids, Types of Ecosystem SUGGESTED BOOKS

- Cunningham, W.P. Cooper T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopedia, Jaico Publ. House, Mumbai, 1196p
- Text Book for environmental Studies For UGC, ErachBharucha, 2004

NM7: Design Domains

| Module 7 | | NM7: Design Domains |
|--------------|--|---------------------|
| Subject Code | Subject Name | Max Marks |
| BNT-102 | Theory of Design-II | 25 |
| BNT-104 | Value and Ethics | 25 |
| BNT-106 | Creative Thinking | 25 |
| BNT-108 | History of Design-II | 25 |
| BNT-110 | Construction Techniques and Representations - I | 25 |
| BNT-152 | Computer Design and Digital Fabrication-I | 25 |
| BNT-154 | Basic Design – II | 25 |
| BNT-112 | Environmental Science | 50 |

Course Outcome

| Designer will be able to: | | |
|---------------------------|--|--|
| 1 | To understand the various domains and their philosophies | |
| 2 | To develop basic understanding of the requirements, purpose and need of various design domains | |
| 3 | To relate the design process and demands of various domains | |
| 4 | To illustrate design skills for various domains | |

Project -

| BNT-102 | Theory of Design-II |
|---------|---------------------|
| | |

UNIT – III PRINCIPLES OF COMPOSITION

Unity, harmony and specific qualities of design to include dominance, punctuating effect, dramatic effect, fluidity,

UNIT – IV TYPOGRAPHY & GEOMETRY

climax, accentuation and contrast with garment examples.Basics of Calligraphy and typography, Understanding structure and proportion of types of (Roman Serif and San Serif). Basic solid Geometry

BNT-104 Value and Ethics

UNIT V

BEHAVIOURAL VALUES

Behavioral values – Individual values and group values. Anger: Investigation of reasons, watching one's own anger; Understanding anger as: a sign of power or helplessness, distinction between response and reaction. Right utilization of physical facilities. Determining one's needs, needs of the self and of the body, cycle of nature. Relationship with teachers. Inside the class, and outside the class, interacting with teachers. Complimentary nature of skills and values.

Distinction between information & knowledge Goals: Short term goals and long term goals; How to set goals; How to handle responsibilities which have to be fulfilled while working for goals

BNT-106 Creative Thinking

UNIT IV

TOOLS FOR DEFINING THE PROBLEM

CATWOE, Challenge, Chunking, Context Map, A Day in the Life of., Is – Is not, how to: The Kipling method (5W1H), Positives, Negatives, Problem Statement: achieve. Purposing: Reversal: Storyboarding: Visioning: Assumption Busting: Brainstorming: Brain mapping. Essence: Forced Conflict: Lotus Blossom: PSI: Problem + Stimulus = Idea, Random Words: Modeling: Morphological Analysis, Post-Up: Provocation: Role-play:

Reverse Brainstorming: , SCAMPER: , Storyboarding: , Visioning: , Wishing

| BNT-108 | History of Design-II | |
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| UNIT V | | |

STUDY OF VERNACULAR ARCHITECTURE AND INTERIORS

Jammu and Kashmir, Southern India, Gujarat, , Himachal Pradesh , states of North & eastern India, Maharashtra, Uttar Pradesh, Orissa etc.

| BNT-110 | Construction Techniques & Representations-I |
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UNIT III

RUBBER

Rubber - Natural rubber, latex, coagulation, vulcanizing and synthetic rubber- properties and application

SUGGESTED BOOKS

- Bindra, S.P. and Arora, S.P. Building Construction: Planning Technique and Methods of Construction, 19th ed. Dhanpat Rai Pub., New-Delhi, 2000
- Moxley, R. Mitchell's Elementary Building Construction, Technical Press Ltd.
- Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House Anand, 2004.
- Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2003.
- Francis D. Ching, Building Construction Illustrated, Wiley publishers, 2008

BNT-152 Computer Design & Digital Fabrication-I

UNIT IV

DIMENSIONS, CALCULATIONS AND GROUPING

Inquiry methods: Using data base information for objects, calculating distance, angle, areas etc. Dimensioning commands and blocks: Dimensioning the objects in linear, angular fashions along with quick time dimensioning etc. Creating and working with blocks, creating symbols, use of blocks in creating a layout, of a residential area- one exercise to be done as lab assignment.

- Auto Desk, Revit 2017 for Architecture, Sybex, 2016 .
- Auto Desk, 3DS MAX comprehensive tutorial resources Wiley 2014.
- Sketch up for interior Design . 3D visualising designing & space planning by Lidya Sloan, Wiley Publisher 2014.
- Computer Design & Digital Fab
- Auto Desk Auto cad 2017 for Architecture, Sybex , 2016

BNT-154 Basic Design-II

UNIT IV

VISUAL ANALYSIS

Visual analysis designed spaces of noted for comfort and spatial quality; analysis of solid and void relations, positive and negative spaces.

UNIT V

DESIGNED SPACES

Integration of spaces and function in the design of kiosk for – traffic police, ATM center, etc; stalls inside a shopping mall, - jewellery stall, flower stall, ice cream stall, etc; booths – bus ticketing booth, smokers' booths, etc.

SUGGESTED BOOKS

- Karlen Mark, Space planning Basics, Van Nostrand Reinhold, New York, 3rd edition 2009.
- Joseph D Chiara, Julius Panero, & Martin Zelnick, Time Saver standards for Interior Design & space planning, 2nd edition, Mc-Graw Hill professional, 2001.
- Francis.D. Ching & Corky Bingelli, Interior Design Illustrared, 2nd edition, Wiley publishers, 2004
- Karlen Mark, Kate Ruggeri & Peter Hahn, Space Planning Basics, Wiley publishers, 2003.

| | BNT-112 | Environmental Science | |
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UNIT III

BIODIVERSITY AND ITS CONSERVATION

Bio- geographical classification of India, Value of biodiversity: lconsumptive use, productive use, social, ethical, aesthetic and option values, Hot- sports of biodiversity. Threats to biodiversity. Endangered and endemic species of India. Conservation of biodiversity

UNIT IV

ENVIRONMENTAL POLLUTION

Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, nuclear hazards, Solid waste Management, Disaster management: floods, earthquake, cyclone and landslides.

UNIT V

SOCIAL ISSUES AND THE ENVIRONMENT

Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case Studies. Wasteland reclamation. Consumerism and waste products. Environment Protection Act. Air (Prevention and Control of Pollution) Act. Water (Prevention and control of Pollution) Act, Wildlife Protection Act, Forest Conservation Act, Issues involved in enforcement of environmental legislation. Public awareness

- Cunningham, W.P. Cooper T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopedia, Jaico Publ. House, Mumbai, 1196p
- Text Book for environmental Studies For UGC, ErachBharucha, 2004

NM8: Design Collectives

| Module 8 | | NM8: Design Collectives |
|--------------|--|-------------------------|
| Subject Code | Subject Name | Max Marks |
| BNT-102 | Theory of Design-II | 25 |
| BNT-106 | Creative Thinking | 25 |
| BNT-110 | Construction Techniques and Representations - I | 25 |
| BNT-152 | Computer Design and Digital Fabrication-I | 25 |
| BNT-154 | Basic Design – II | 25 |

Course Outcome

| Desig | ner will be able to: |
|-------|--|
| 1 | To use creativity, conceptual skills and judgement to identify human needs and requirements and to invent appropriate solutions to design problems |
| 2 | To analyse, criticise and reflect on your own practice and the practice of others |
| 3 | To communicate your ideas and though processes through verbal, written and visual representations |
| 4 | To be flexible and adaptable in approaches in the development of design projects. |

Project -

| BNT-102 | Theory of Design-II | |
|----------|---------------------|--|
| UNIT – V | | |
| | | |

CIRCULATION

Function of building circulation components of building circulation - The building approach, The building entrance, configuration of the path, path space relationship, form of circulation space with examples. Simple circulation diagram for buildings

| BNT-106 | Creative Thinking |
|---------|-------------------|
| UNIT V | |

TOOLS FOR SELECTING IDEAS

Concept Screening: , The Hundred Dollar Test: , Negative Selection: , NUF Test: Check idea is New, Useful and Feasible., PINC Filter: , Swap sort:

| BNT-110 | Construction Techniques & Representations-I |
|---------|---|

UNIT IV

PLASTIC

Plastics – Types, thermosetting and thermo plastics, resins, common types of moldings, fabrication of plastics, polymerization and condensation. Plastic coatings reinforced plastic, plastic laminates – properties, uses and applications. **UNIT V**

GLASS

Types of glass (plate, tinted, heat absorbing etc); structural glass bricks and glasscrete; fiber glass and glass wool etc; properties, varieties and uses.

- Bindra, S.P. and Arora, S.P. Building Construction: Planning Technique and Methods of Construction, 19th ed. Dhanpat Rai Pub., New-Delhi, 2000
- Moxley, R. Mitchell's Elementary Building Construction, Technical Press Ltd.
- Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House Anand, 2004.
- Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2003.
- Francis D. Ching, Building Construction Illustrated, Wiley publishers, 2008

BNT-152 Computer Design & Digital Fabrication-I

UNIT V

BASICS OF ADOBE PHOTOSHOP

Tool box (Moving, marque tool), Magic ward selection, Crop tool, Paint Brush, Opacity, Tent Styles, Blue tool, Sharpening Tool, Colour correction, Layers, moving Tool, Masking Tooll

- Auto Desk, Revit 2017 for Architecture, Sybex, 2016. ٠
- Auto Desk, 3DS MAX comprehensive tutorial resources Wiley 2014. •
- Sketch up for interior Design . 3D visualising designing & space planning by Lidya Sloan, Wiley Publisher -٠ 2014.
- Computer Design & Digital Fab
- Auto Desk Auto cad 2017 for Architecture, Sybex, 2016

| BNT-154 | Basic Design-II | |
|-------------------------|-----------------|--|
| Final design generation | | |
| SUGGESTED BOOKS | | |

- Karlen Mark, Space planning Basics, Van Nostrand Reinhold, New York, 3rd edition 2009.
- Joseph D Chiara, Julius Panero, & Martin Zelnick, Time Saver standards for Interior Design & space planning, 2nd edition, Mc-Graw Hill professional, 2001.
- Francis.D. Ching & Corky Bingelli, Interior Design Illustrared, 2nd edition, Wiley publishers, 2004
- Karlen Mark, Kate Ruggeri & Peter Hahn, Space Planning Basics, Wiley publishers, 2003.

3rd Semester

IM9: Design Investigation

| Subject Code | Subject Name | MI Design Investigation 6MI |
|--------------|---|-----------------------------------|
| BHI-201 | Construction Techniques and Representation-II | 25 |
| BHI-203 | Furniture Design-I | 25 |
| BHI-205 | History of Design -III | 50 |
| BHI-251 | Computer Design & Digital Fabrication -II | 25 |
| BHI-253 | Interior Design -I | 50 |

COURSE OUTCOMES

| Desi | igner will be able to: |
|------|---|
| 1 | To provide an educational and creative framework that enables you to become a designer. |
| 2 | To explore existing and new building contexts where you will design for potential users in an array of timescales |
| 3 | To learn many types of analogue and digital representation techniques as well as a theoretical and historical context |

Course Content

Construction Techniques and Representation-II

UNIT I

HARDARE

Hardware &Accessories : all hardware required for residences, offices, other public & private spaces, etc., including all types of hinges, drawer slides, handles, locks, wire managers, etc., accessories for toilet, kitchen, office, glass patch fittings, profiles, etc.,

| U 1 | | |
|------------|---------|--------------------|
| | BHI-203 | Furniture Design-I |
| | | |

UNIT I

FUNCTIONAL AND FORMAL ISSUES IN DESIGN

Study and evaluation of popular dictums such as "Form follows function", Form and function are one", "God is in Details", "Less is more" or "Less is bore" etc.

Evaluation of visual design: study of Gestalt theory of design - law of closure, law of proximity, law of continuity etc. Typology of furniture with respect to the different states in India.

| BHI-205 | History of Design -III |
|------------------------------|------------------------|
| UNIT I INDUSTRIAL REVOLUTION | |

Reviewing Industrialisation :- Industrial revolution and its influence on social, economic conditions of that period, Scientific and technological progress, invention of new materials. –Joseph Paxton – Gustav Eiffel etc An overview of Art and Crafts movement in Europe and America.

UNIT II ANCIENT HISTORY

Indian Colonial Architecture-Portuguese, French and British : The styles and trends of architecture and design brought to India and their evolution – Their impact on architecture and design in India – The characteristics of Colonial Architecture with examples from Goa-Bom Jesus Cathedral Complex-Old Goa- Fountainahs , Puducherry, Mahe and Edwin Lutyenetc.,

| BHI-251 Computer Design & Digital Fabrication -II | BHI-251 | Computer Design & Digital Fabrication -II |
|---|---------|---|
|---|---------|---|

UNIT I SKETCH UP

Orientation towards 3D : 2D to 3D conversion, perspective view, walk through the layout

| BHI-253 | Interior Design -I |
|---------|--------------------|
|---------|--------------------|

The primary focus should be on

- Anthropometry
- Design methodology
- Conceptual exploration and representation.
- Creativity

IM10: Technical Studies & Representation

| Subject Code | Subject Name | Technical Studies & Representation |
|-----------------|---|--|
| BHI-201 | Construction Techniques and Representation-II | 25 |
| BHI-203 | Furniture Design-I | 25 |
| BHI-205 | History of Design -III | |
| BHI-251 | Computer Design & Digital Fabrication -II | 25 |
| BHI-253 | Interior Design -I | 25 |

COURSE OUTCOMES

| Des | esigner will be able to: | | | | |
|-------|--|--|--|--|--|
| 1 | To get familiar with the fundamental techniques of concept sketches, design development sketches | | | | |
| 2 | To get knowledge of presentation sketches, presentation renderings and architectural drawing | | | | |
| 3 | To develop the appropriate skills for visualization and representation | | | | |
| ourse | urse Content | | | | |

Course Content

| BHI-201 | Construction Techniques and Representation-II |
|---|--|
| UNIT II | |
| STONES Stones : Igneous, metamorphi | c & sedimentary – classifications, types, properties, availability, applications |
| UNIT III | |
| RUBBER | |
| Rubber - Natural rubber, latex, coagula | tion, vulcanizing and synthetic rubber- properties and application |
| BHI-203 | Furniture Design-I |
| UNIT II | |
| ERGONOMICS AND HUMAN FACT | ORS |
| Human factors, engineering and ergono | mic considerations: Principles of Universal Design and their application in |
| furniture design, | |
| | |

| BHI-251 | Computer Design & Digital Fabrication -II |
|---------|---|
|---------|---|

UNIT II 3D MAX

Understanding 3D, theory behind 3D modeling. Preparing for construction of 3D models. Construction of 3D surface modelsextrusion, wire frame, creation of a shell, elaborate surfaces

| - , | |
|---------|--------------------|
| BHI-253 | Interior Design -I |

- Scale/proportion
- Documenting space •
- Graphic design (page layout and composition) •
- Concepts sketching •
- Application of design principles and elements •
- Portfolio development •

IM11: Material Integration

| Subject Code | Subject Name | IIII Integration |
|--------------|---|---------------------|
| BHI-201 | Construction Techniques and Representation-II | 25 |
| BHI-203 | Furniture Design-I | 25 |
| BHI-205 | History of Design -III | |
| BHI-251 | Computer Design & Digital Fabrication -II | 25 |
| BHI-253 | Interior Design -I | 25 |

COURSE OUTCOMES

| Desigr | Designer will be able to: | | | |
|--------|--|--|--|--|
| 1 | Understand the appropriate application of a comprehensive range of current and emerging tools, materials | | | |
| 2 | Promote the exploration of experiential material and technological capabilities. | | | |
| 3 | To understand effective manipulation of materials | | | |

Course Content

| BHI-201 | Construction Techniques and Representation-II |
|---------|---|
| | |

UNIT IV

PLASTIC

Plastics - Types, thermosetting and thermo plastics, resins, common types of moldings, fabrication of plastics, polymerization and condensation. Plastic coatings reinforced plastic, plastic laminates – properties, uses and applications.

| | BHI-203 | Furniture Design-I |
|-----|---------|--------------------|
| TIN | IT III | |

UNIT III

EVOLUTION OF FURNITURES

Evolution of furniture from Ancient to present: Various stylistic transformations. Furniture designers and movements for various types of furniture.

| | BHI-251 | Computer Design & Digital Fabrication -II |
|----|----------------------------------|---|
| TN | UT III DEVIT (2D - 2D IN CAME DI | |

UNIT III REVIT (2D + 3D IN SAME PLATFORM)

Introduction to REVIT ,Learning to use basic tools such as wall,roof floor ,staircases,dimensioning, plotting etc.

| | BHI-253 | | -253 | Interior Design -I |
|--------|----------|--------|-------------------|---|
| The | list | of | suggested | topicstobecoveredasdesignproblemsshallbeasinglespacelike:Singleroom |
| reside | ence,Do | ctor's | linic,kinderga | artenclassroom, Crèche, Architect'sstudio, Lawyer'soffice, small cafeteria, |
| bank | extensio | on cou | nter, florist sho | nops, medical outlets, clothing |
| store | shoe sto | ore ac | cessory store | book shop waiting lounges for – hospitals corporates hotels etc. |

store, shoe store, accessory store, book shop, waiting lounges for – hospitals, corporates, hotels, etc.

IM12: Design Culture

| Subject Code | Subject Name | Design Cultures |
|--------------------|---|--------------------|
| BHI-201 | Construction Techniques and Representation-II | IM12 25 |
| BHI-201 BHI-203 | Furniture Design-I | 25 |
| BHI-205 | History of Design -III | 50 |
| BHI-251 | Computer Design & Digital Fabrication -II | 25 |
| BHI-253 | Interior Design -I | |

COURSE OUTCOMES

| Designe | Designer will be able to: | | | |
|---------|---|--|--|--|
| 1 | To examine of current and historical design | | | |
| 2 | To explore cultural socio-economic concerns, styles and artefacts and considers their importance within and influence upon the visual and material culture of society | | | |
| 3 | To develop academic critical appraisal, analysis, evaluation and reflection upon identified issues which are deemed important and relevant to design | | | |

Course Content

| | BHI-201 | Construction Techniques and Representation-II |
|----|---------|---|
| UN | IT V | |

PARTITIONS AND FALSE CEILING

Partition walls : all types of partitions – full height, half & dwarf, double skinned, single skinned, frameless glass, etc., Wall paneling : plywood, leather, acoustic boards, etc., False Ceiling : all types, with full system, insulation, acoustical, etc.,

| | BHI-203 | Furniture Design-I | |
|----|-------------------------|--------------------|--|
| UN | IT IV ROLE OF FURNITURE | | |

Furniture categories – role of furniture in interior design, exploration of the idea of furniture as elements of living units, education institutes, health facilities, street elements office, educational institutes, banks, stores, street furniture, etc.

UNIT V SEATING

Seating Design: Different types of seating with Functionality, Aesthetics, Style, Human factors and ergonomics

| | BHI-205 | History of Design -III |
|--------------------|---------|------------------------|
| UNIT III MODERNISM | | |

UNIT III MODEKNISM

Impressionism - Expressionism - Cubism - Neoclassicism - Neoplasticism Suprematicism - Art Noveau Constructivism - Futurism - Post modernism- Post- Post Modernism- Deconstructivism Antonio Gaudi, Victor Horta, Charles Renee Mackintosh, LeCorbusier.

UNIT IV AFTER MODERNISM

Critical regionalism, Bauhaus, International style, Post Modernism.-Walter Gropius.

UNIT V WORKS OF ARCHITECTS

Works of Foreign Architects /Artisans in India and their influence - Edwin Lutyens, Le Corbusier, Louis Khan, Philip Johnson. Works of Indian Architects - Laurie Baker, Charles Correa, B.V. Doshi, A.P. Kanvinde, Raj Rewal, , Joseph Allen Stein

| BHI-251 Computer Design & Digital Fabrication -II |
|---|
|---|

UNIT IV SOLID MODELING (TRANSFORMING SPACES)

Solid modeling : concepts behind solid modeling, composite solids creation and modification, solids display and inquiry. (Rhino and Grasshopper).

UNIT V RENDERING & PRESENTATION TECHNIQUES

Rendering and presentation. Printing and plotting.(Vray,Indesign,Illustrator,Lumion)

| BHI-253 | Interior Design -I |
|---------|--------------------|
| | |

Note: At least three major exercises and four minor design/time problems should be given. Internal marking shall be done in stages project wise:

- Schematiclayouts
- Finallayout
- Sectionalelevations
- Typicaldetails
- Complete project with all details
- 3D drawings with colourrendering

| | BHI-207 | Interior Photography (Open Elective) | |
|----|------------------------------------|--------------------------------------|--|
| UN | UNIT – I PRINCIPLES OF COMPOSITION | | |

Rule of thirds, perspective-worm's eye view, normal eye view, bird's eye view, one-point perspective, two-point perspective, exercises in composition

UNIT – II PRINCIPLES OF PHOTOGRAPHY

Technical definitions, understanding a camera, anatomy of a SLR camera, technical setting in a SLR camera, different types of lenses

UNIT – III PRINCIPLES OF INTERIOR LIGHTING

Technical definitions, lighting sources, types of lighting fixtures, types of lamps, calculating lighting levels, flash photography, types of flashes, controlling lighting levels with flash photography Exercise in interior lighting photography with artificial light and black and white photos

UNIT – IV PRINCIPLES OF COLOUR

Color rendering in photographic medium, color rendering in photographs under different lighting condition, lighting colors and its effect on a photograph, color filters in a camera Exercise on color photography of interiors

UNIT - V INTEGRATION

Project work/exercise in integrating all prior units

4th Semester

IM13: Design: Spatial Investigation

| Subject Code | Subject Name | Design: Spatial Investigation |
|--------------|-------------------------------------|-------------------------------------|
| | | |
| BHI-202 | Furniture Design-II | 25 |
| BHI-204 | History of Design-IV | 50 |
| BHI-206 | Interior Services-I | 25 |
| BHI-252 | Layout Drawing & Display Techniques | 25 |
| BHI-254 | Interior Design-II | 25 |
| BHI-208A | Vernacular Architecture & Interiors | 50 |
| BHI-208B | Works of famous designers | 50 |

COURSE OUTCOMES

| Designer will be able to: | | | |
|---------------------------|---|--|--|
| 1 | To introduce to the context and scope of the generic subject of Interior Architecture and Spatial Design | | |
| 2 | To develop an awareness of both historic and contemporary design | | |
| 3 | To encourage and develop the skill of critical appraisal | | |
| 4 | To develop an understanding of the impact of culture, heritage and ethical considerations when analysing design and the built environment | | |
| | | | |

Course Content

| BHI-202 | Furniture Design-II | |
|----------|---------------------|--|
| UNIT – I | | |

STORAGE SYSTEM -KITCHEN

Storage systems: Functional analysis of storage systems and thereby deriving types of cabinets needed for interior spaces – kitchen cabinets, wardrobes closets & respective hardware for modular kitchen. Assignment: Exercise to design kitchen cabinets for a given kitchen in details.

| BHI-204 | History of Design-IV |
|-------------------------|----------------------|
| UNIT I MODERN MOVEMENT: | |

Return to the fundamentals and origins in nature and geometry; new inventions of iron and glass; horizontal and vertical expansions; responses to the vernacular. Social intentions and the search for the 'ideal' world; simplicity, abstraction, non-objective, nonrepresentative and neglect of content and ornament; new notions of technology; importance and precedence of function; De Stijl, etc. – an overview of the works of Louis Sullivan, C. R. Mackintosh, Edwin Lutyens, Antoni Gaudi, Walter Gropius, Frank Llyod Wright, Le Corbusier, Mies van der Rohe.

UNIT II THE INTERNATIONAL STYLE:

Simplification of the Modern architecture into steel and glass cubes - an overview of the works of Philip Johnson.

BHI-206 Interior Services-I

UNIT - I WATER SUPPLY General idea of sources of water supply. Standards for quality of water. Domestic water systems, suction and storage tanks and their capacity. Pipes and their sizes and jointing. Consumption of water. Down take supply to various fittings.

| BHI-252 Layout Drawing & Display Techniques | |
|---|-----|
| UNIT I COLORING ST | UDY |

Introduction of colors, Usage of water colors, poster colors, pen & ink, rendering techniques, etc.

UNIT II DRAWING AND SKETCHING INTERIOR ENVIRONMENTS

Drawing and sketching interior environments, one point interior perspective, two point interior perspective, refined linear perspective methods, two point plan projection method, and perspective traced from photographs.

| BH | I-254 | Interior Design-II | | |
|-----------|--|--|--|--|
| The prima | The primary focus should be on – | | | |
| i. Docu | i. Documenting space (sketch and photodocumentation) | | | |
| ii. | Space planning | ng process (block diagram, conceptstatement) | | |
| iii. | Conceptsketc | hing | | |
| | | | | |
| | | | | |

| BHI-208A Vernacular Architecture & Interiors | | Vernacular Architecture & Interiors |
|--|-----------------------|--|
| | UNIT I ETYMOLOGY | |
| | Etymology Definitions | Vernecular and the erchitect Regional influences on vernecular Architecture Hymeniterian |

Etymology, Definitions, Vernacular and the architect, Regional influences on vernacular Architecture, Humanitarian response, Urban and rural vernacular architecture, role of sustainability in vernacular architecture, Environment &

Resource Management

UNIT II MATERIAL AND TECHNIQUES

Building materials and traditions, Vernacular building materials- Recognize the different ways in which these materials were used at different times and in different parts of the country, Documenting vernacular traditions, and knowledge systems.

| BHI-208B | Works of famous designers | |
|----------|---------------------------|--|
|----------|---------------------------|--|

Works of Foreign Architects /Artisans in India and their influence – Edwin Lutyens, Le Corbusier, Louis Khan, Philip Johnson. Works of Indian Architects – Laurie Baker, Charles Correa, B.V. Doshi, A.P. Kanvinde, Raj Rewal, , Joseph Allen Stein

IM14: Design : Inhabitation

| Subject Code | Subject Name | Design: Inhabitation |
|--------------|-------------------------------------|-------------------------|
| BHI-202 | Furniture Design-II | 25 |
| BHI-204 | History of Design-IV | |
| BHI-206 | Interior Services-I | 25 |
| BHI-252 | Layout Drawing & Display Techniques | 25 |
| BHI-254 | Interior Design-II | 25 |
| BHI-208A | Vernacular Architecture & Interiors | 50 |
| BHI-208B | Works of famous designers | 50 |

COURSE OUTCOMES

| De | Designer will be able to: | | |
|----|---------------------------|--|--|
| 1 | | To understand the dynamic process of analysis in design thinking | |
| 2 | | To build skills and consolidating techniques in design | |
| 3 | | To introduce and apply survey techniques in design schemes | |
| 4 | | To develop and test design process through multiple iterations | |
| | ~ | | |

Course Content

| BHI-202 | Furniture Design-II |
|-----------|---------------------|
| UNIT – II | |

STORAGE SYSTEMS – BOOK CASES & SHOWCASE

Storage systems: Functional analysis book cases, show cases, display systems, compactors, mechanical storage, etc. and respective hardware for these. Survey of several modular systems available for different functions in the market.

| BHI-204 | History of Design-IV |
|---------|----------------------|
| | |

| BHI-206 |
|---------|
|---------|

UNIT - II SANITARY FITTINGS Types of fittings like taps, ball valves, hot water supply systems, bathtubs, showers, jets, cocks, valves etc. Faucets for kitchens, bathrooms and toilets. Check valves, foot valves, sump pump check valves etc.

BHI-252 Layout Drawing & Display Techniques

UNIT III RENDERING WITH PEN AND INK

Introduction to pen and ink rendering, materials, media and tools, rendering orthographic projection drawings, rendering perspective drawings.

| BHI-254 | Interior Design-II | | |
|--|------------------------|--|--|
| iv. Application of design principles and | | | |
| elementsv. | Creativity/originality | | |
| vi. Design | | | |
| | | | |

BHI-208A Vernacular Architecture & Interiors

UNIT III DECORATIVE FEATURES

Assess the likely sources of stylistic and decorative features of vernacular buildings and employ these to assist in dating analyzing their role and application in the present context.

UNIT IV DOCUMENTATION

Recording vernacular buildings- Why record buildings? Recording basics (measuring and recording historic buildings) Drawing up; conventions and equipment Documentary sources and what they can tell us Briefing for recording day(s) Recording the chosen building(s) Reviewing the results; and role of photography in documenting vernacular buildings.

UNIT V VERNACULAR TOWNS

Vernacular Towns – evolution process, character, morphology, growth and decay. Case studies of Vernacular towns within Tamil Nadu. Knowledge of vernacular architecture in contemporary regional designs. Traditionalism and Vernacular.

| BHI-208B | Works of famous designers |
|----------|---------------------------|
| | |

Works of Foreign Architects /Artisans in India and their influence – Edwin Lutyens, Le Corbusier, Louis Khan, Philip Johnson. Works of Indian Architects – Laurie Baker, Charles Correa, B.V. Doshi, A.P. Kanvinde, Raj Rewal, , Joseph Allen Stein

IM15: Experiencing Interiors

| Subject Code | Subject Name | Experiencing Interiors |
|--------------|-------------------------------------|---------------------------|
| | | IM15 |
| BHI-202 | Furniture Design-II | 25 |
| BHI-204 | History of Design-IV | 25 |
| BHI-206 | Interior Services-I | 50 |
| BHI-252 | Layout Drawing & Display Techniques | 25 |
| BHI-254 | Interior Design-II | 25 |
| BHI-208A | Vernacular Architecture & Interiors | |
| BHI-208B | Works of famous designers | |

COURSE OUTCOMES

| Desigr | Designer will be able to: | |
|--------|--|--|
| 1 | To develop a deep understanding of the poetic and practical qualities of different interiors through history | |
| 2 | To contextualize history of interior design | |
| 3 | To develop understanding of the profession of interior design | |
| | | |

Course Content

| BHI-202 | Furniture Design-II |
|---------|---------------------|
|---------|---------------------|

UNIT – III

MODULAR APPROACH TO FURNITURE DESIGN

Various materials, combination of materials, their hardware and applications. Cost criteria of furniture design. Assignments: Survey of several modular systems available for different functions in the market.

BHI-204 History of Design-IV

UNIT III POST MODERNISM OF REACTION:

Architecture entrenched in place and history; sarcastic approval of expression, ornament, symbolism and context – an overview of the works of James Stirling, Michael Graves, Charles Moore. Post modernism of Resistance: Disregard for historical imagery; revival of the ideals of the Modern Architecture of the 20's; exaggerated and sophisticated revival of the grid and Corbusier's geometry – an overview of the works of Richard Rogers, Norman Foster, Richard Meier.

BHI-206 Interior Services-I

UNIT – III SANITATION Basic principles of sanitations and disposal of waste materials from buildings. Connection to outdoor drainage system, size requirements, types of pipes available in the market. Water carriage systems, standard sanitary fittings, traps, pipes and their jointing. Flushing systems. Bathroom interior layouts, extensive market survey of products available, economies of products available, fixing of the products with other finishing materials.

UNIT – IV SOLID WASTE Wastemanagement : Refuse, different forms of refuse garbage, house refuse ,refuse chutes , rain water harvestingetc.

UNIT – V ELECTRICITY Electrical Installations : Building wiring system. Service wires, metering distribution boards, circuits, MCB cutouts. Conductors, wiring methods, switch boards, electrical devices in the buildings, light and powercircuits. Indianelectricityrules, relevantprovisionsofNBC. Preparationofelectricallayoutscheme for ainterior using standard electricalsymbols

BHI-252Layout Drawing & Display TechniquesUNIT IV RENDERING WITH COLOUR PENCILS AND SKETCH PENS

Rendering of interior perspectives with colour pencils and sketch pens – stroke effects, smudge effects – use of schoeller and kent sheets – leather cartridge etc.

| | BHI-254 | Interior Design -II |
|--------|--|---------------------|
| Proces | ss/methodology | vii. |
| Struct | uralintegration | |
| viii. | Style | |
| ix. | ColorRender | ing |
| x. | Anthropometry and ergonomics | |
| xi. | Furniture Design xii. Materialselection | |
| xii. | Graphic design (page layout and composition) | |
| xiii. | Portfoliodeve | lopment |

IM16: Situating Interiors

| Subject Code | Subject Name | Situating Interiors |
|--------------|-------------------------------------|------------------------|
| | | IM16 |
| BHI-202 | Furniture Design-II | 25 |
| BHI-204 | History of Design-IV | 25 |
| BHI-206 | Interior Services-I | |
| BHI-252 | Layout Drawing & Display Techniques | 25 |
| BHI-254 | Interior Design -II | 25 |
| BHI-208A | Vernacular Architecture & Interiors | |
| BHI-208B | Works of famous designers | |

COURSE OUTCOMES

| Desig | ner will be able to: | |
|---------|--|--|
| 1 | To explore a thematic history of designed spaces, situating in particular the emergence of the interior in modernity | |
| 2 | To address particular ideas and practices of contemporary design of spaces | |
| 3 | To examine the relationship between theory and practice. | |
| 4 | To develop an understanding of how spaces, emerge and are situated as cultural responses to modernity | |
| Contant | | |

Course Content

BHI-202 Furniture Design-II

$\mathbf{UNIT} - \mathbf{IV}$

DESIGN APPROACHES IN FURNITURE DESIGN

An introduction of various manufacturing processes most frequently adopted in furniture design such as Injection Molding, investment casting, sheet metal work, die casting, vacuum - forming etc.

Assignments : Survey of different types of moulded or casted furniture available for different functions in the market. UNIT - V

FAMOUS DESIGNERS

Charles & Ray Eames, EeroSaarinen, JeanProuve, PaulMccobb, EttoreSottass, Knoll, JensRisom etc.

| BHI-204 | History of Design-IV |
|--------------------------|----------------------|
| UNIT IV HI-TECH A | AND HISTORICISM: |

Synthesis of the Hi-Tech and Historicism - an overview of the works of Cesar Pelli, Aldo Rossi

UNIT V DECONSTRUCTION:

Deconstruction as a reaction to the Post Modern; non-perfection as important as perfection, narrative and representational; traditional purity of form, geometry and structure in question – an overview of the works of Frank O. Gehry, Peter Eisenman, Bernard Tschumi, Rem Koolhas, Zaha Hadid.

| BHI-206 | Interior Services-I | |
|--|-------------------------------------|--|
| | | |
| BHI-252 | Layout Drawing & Display Techniques | |
| UNIT V RENDERING WITH POSTER/WATER COLOURS | | |

Use of kent/ cartridgde sheets for poster colours and waterman/cartridge sheets for water colours – transparency effects in water colours – block effects in poster colours.

| BHI-254 | Interior Design -II |
|---------|---------------------|
|---------|---------------------|

Design portfolio to include designs in response to today's situation of urban society, i.e., contemporary spaces required in modern society – needs, realities, value system etc.. The spaces to be considered shall be : home, office, bank, school, college, public level spaces - restaurant, lounge (hotel), etc. The

list of suggested topics to be covered as design problems:

- Thematic space making with Art and craft forms of our own culture in India East, West, North, Central and so on.
- Design of built units of various geographical locations and culture by involving historical periods, styles and use of craft in its inherent quality and form integrating craft and living environment.



5th Semester

IM17: Design Exploration

| 0 F | | |
|--------------|-----------------------------|-----------------------|
| Subject Code | Subject Name | Design Exploration |
| | | IM17 |
| BHI-301 | Interior Landscape | 25 |
| BHI-303 | Interior Services-II | 25 |
| BHI-351 | Working Drawing & Detailing | 25 |
| BHI-353 | Interior Design - III | 25 |

Course Outcome

| Designer will be able to: | | |
|---------------------------|--|--|
| 1 | to develop an understanding and explorative approach to the production of spatial design proposals | |
| 2 | to integrate design process, creative experimentation and visual communication techniques | |
| 3 | the development of organisational, creative and CAD competencies | |

Course Content

BHI-301 Interior Landscape

UNIT I LANDSCAPE AND BUILT ENVIRONMENT

Introduction and role of landscape design in the built environment. Types of natural elements – stones, rocks, pebbles, water forms, plants and vegetation. Introduction to the study of plants in relation to landscape design and interiors. Types of indoor plants, visual characteristics: i.e., color, texture, foliage.

| r | | | |
|-----|----------------------------|--|--|
| | BHI-303 | Interior Services-II | |
| UN | IT I | | |
| ΗV | AC | | |
| Hea | ating Ventilation & Air Co | onditioning (HVAC) systems : Air conditioning, Mechanical ventilation – mechanical inlet a | |

Heating Ventilation & Air Conditioning (HVAC) systems : Air conditioning, Mechanical ventilation – mechanical inlet and extraction systems. Functions of air conditioning, Principles of AC, capacity of AC, Types of AC systems – window AC, split, ductable, central AC and their details. Air distribution systems – ducts, air inlets.

| BHI-351 Working Drawing & Detailing | |
|-------------------------------------|--|
|-------------------------------------|--|

UNIT I

BUILDING COMPONENTS

Working drawing of different types of doors and windows.

BHI-353 Interior Design-III

The design of Health care spaces, such as hospitals, consulting, treatment rooms, Diagnostic facilities – study of special acoustics and functional materials and furniture detailing.. Interior designing for multi functional Restaurants and Banquet halls, multi level planning, design and detailing of various work spaces, interactions zones. Design of hospitality spaces such as theme based restaurants, corporate banquet venues etc

IM18: Material Innovation

| Subject Code | Subject Name | Material Innovations |
|--------------|-----------------------------|-------------------------|
| | | IM18 |
| BHI-301 | Interior Landscape | 50 |
| BHI-303 | Interior Services-II | |
| BHI-351 | Working Drawing & Detailing | 25 |
| BHI-353 | Interior Design - III | 25 |

Course Outcome

| Designe | ner will be able to: | | |
|---------|---|--|--|
| 1 | to acquire and develop a vocabulary and understanding of fundamental concepts and principles associated with the design of the built environment | | |
| 2 | identification, consideration, selection and specification of materials, products and finishes Emphasis is placed on the role of design, general arrangement and detailed drawings, appraisal of materials, products and finishes relevant to achieving and effecting well-conceived design proposals | | |
| 3 | | | |

Course Content

| | BHI-301 | Interior Landscape | |
|---|---------------------------|--------------------|--|
| U | UNIT II VISUAL PERCEPTION | | |

Flowers- its colors, texture and its visual perception in various indoor spaces and science of flower arrangement Indoor plants in Indian context. Plant biology, soil, moisture, light nutrient, atmospheric conditions, growing medium, pests & diseases. Botanical nomenclature, anatomy and physiology of plant growth. Market survey and costs.

UNIT III DESIGN WITH PLANTS

Design with plants – Basic principles of designs. The physical attribute of plants and relation to design. Appearance, functional and visual effects of plants in landscape design and built environment. Selection and management of plant material in relation to the built environment.

UNIT IV HARDSCAPE

Design concepts related to use of sculpture, lightings, garden furniture, architectural feature and grouping them into meaningful composition s for visual and functional effects.

| BHI-351 | Working Drawing & Detailing |
|---------|-----------------------------|

UNIT II

BUILDING SURFACES

Working drawing of wall murals, reflected ceiling plans and flooring patterns.

BHI-353 Interior Design - III

The design of Health care spaces, such as hospitals, consulting, treatment rooms, Diagnostic facilities – study of special acoustics and functional materials and furniture detailing.. Interior designing for multi functional Restaurants and Banquet halls, multi level planning, design and detailing of various work spaces, interactions zones. Design of hospitality spaces such as theme based restaurants, corporate banquet venues etc

IM19: Process

| Subject Code | Subject Name | Process |
|--------------|-----------------------------|---------|
| | | IM19 |
| BHI-301 | Interior Landscape | 25 |
| BHI-303 | Interior Services-II | 50 |
| BHI-351 | Working Drawing & Detailing | 25 |
| BHI-353 | Interior Design - III | 25 |

Course Outcome

| Desig | Designer will be able to: | | |
|-------|---|--|--|
| 1 | To understand the interior design process in context | | |
| 2 | To address the significance of research, observation, documentation, evaluation, idea generation, concept development | | |
| 3 | To familiarize with core interior design considerations | | |
| 4 | To develop conscious awareness and practice of all aspects of design process | | |

| | BHI-301 | Interior Landscape | |
|---|------------------------------------|--------------------|--|
| U | UNIT V LANDSCAPE DESIGN PARAMETERS | | |

Landscaping design parameters for various types of built forms- indoor and outdoor linkage to spaces. Landscaping of courtyards- residential and commercial forms. Indoor plants and their visual characteristics- . Science of maintaining and growing greenery. Automatic irrigation costing and installation of micro irrigation systems

UNIT II

FIRE SAFETY

 $\label{eq:Fire-causes} Fire-causes and spread of fire. Design considerations for fire safety, Devices for firefighting - portable, built in wet riser system, sprinkler system, fire hydrant. Class of fire and occupancy, study of fire regulations as perNBC$

UNIT III

VERTICAL TRANSPORT

Services for multi storied buildings - Vertical transportation systems – Introduction – lifts, escalatorsvertical& horizontal, definition, location, arrangement, structure, drives, traffic analysis, supervisory control, remote monitoring.

UNIT IV SAFETY & SECURITY

Security and safety systems – introduction, designing a security system – burglar alarm, CCTV, central alarm systems, intrusion sensors and space sensors. Other services – cable TV, PABX, computer labs – access flooring, server rooms.

| BHI-351 | Working Drawing & Detailing |
|---------|-----------------------------|
|---------|-----------------------------|

UNIT III

FURNITURE

Working drawing of work station, living room furniture, bedroom furniture and dining tables.

BHI-353 Interior Design - III

The design of Health care spaces, such as hospitals, consulting, treatment rooms, Diagnostic facilities – study of special acoustics and functional materials and furniture detailing. Interior designing for multi functional Restaurants and Banquet halls, multi level planning, design and detailing of various work spaces, interactions zones. Design of hospitality spaces such as theme based restaurants, corporate banquet venues etc

IM20: Design Alternatives

| Subject Code | Subject Name | Design Alternatives IM50 |
|--------------|-----------------------------|--------------------------------|
| BHI-301 | Interior Landscape | |
| BHI-303 | Interior Services-II | 25 |
| BHI-351 | Working Drawing & Detailing | 25 |
| BHI-353 | Interior Design - III | 25 |

Course Outcome

| Design | Designer will be able to: | |
|--------|---|--|
| 1 | To recommend alternatives of design | |
| 2 | To check the feasibility of a project and compare on the basis of the chosen indicators | |
| 3 | To develop conscious awareness and practice of all aspects of design process | |

Course Content

| BHI-301 | Interior Landscape |
|---------|--------------------|
| | |

| | BHI-303 | Interior Services-II |
|--------|---------|----------------------|
| UNIT V | | |

BUILDING AUTOMATION AND ENERGY MANAGEMENT

Building automation and energy management–Introduction, History of development of BAS, typical BAS, criteria for choosing the right BAS, open system architecture. Information technology, communications & artificial intelligence in intelligent buildings. Design in computer age, engineering intelligence through nature

| BHI-351 | Working Drawing & Detailing |
|---------|-----------------------------|
|---------|-----------------------------|

UNIT IV

DETAILING OF SPECIAL AREAS

Working drawing for toilets with plumbing diagram - working drawing of kitchen with detailing of shelves and cupboards

UNITV

DETAILING OF STORAGE AREAS

 Working drawing o wardrobes, TV cabinet and showcase, crockery shelves, cadenza, chest of drawers, dressing table, etc.

 BHI-353
 Interior Design - III

The design of Health care spaces, such as hospitals, consulting, treatment rooms, Diagnostic facilities – study of special acoustics and functional materials and furniture detailing.. Interior designing for multi functional Restaurants and Banquet halls, multi level planning, design and detailing of various work spaces, interactions zones. Design of hospitality spaces such as theme based restaurants, corporate banquet venues etc



6th Semester

IM21: Design Realization

| Subject Code | Subject Name | Design Realization |
|--------------|---|-----------------------|
| | | IM21 |
| BHI-302 | Lighting Colors & Interiors | 25 |
| BHI-304 | Estimation & Costing | 50 |
| BHI-352 | Interior Design - IV | 25 |
| BHI-354 | Dissertation | 25 |
| BHI-306A | Interior Accessories and Product Design | 25 |
| BHI-306B | Revitalization of Art and Craft | |

Course Outcome

| Des | Designer will be able to: | |
|-----|---|--|
| 1 | To focus towards audience and client expectations and needs, competitiveness, social | |
| 2 | To apply ethical considerations in design | |
| 3 | To identify of design criteria. | |
| 4 | To understanding the importance of digital presentation and modelling techniques and related issues | |
| | in the design process. | |

COURSE CONTENT

| BHI-302 Lighting Colors & Inter |
|---------------------------------|
|---------------------------------|

UNIT - I INTRODUCTION TO DAY LIGHTING

Nature of light – Wavelength, Photometric quantities – intensity, Flux, illumination and luminence, visual efficiency, sources of light, day light factor concept, design sky concept, day lighting requirements.

BHI-304 Estimation & Costing

UNIT – I INTRODUCTION TO ESTIMATION

Estimation – definition, purpose, types of estimate, and procedure for Estimating the cost of work in order to implement an interior design project or to make products related to interior design like furniture, artifacts etc.

UNIT – II RATE ANALYSIS & ESTIMATION FORMAT

Rate Analysis – definition, method of preparation, quantity &labour estimate for woodwork, steelwork, Aluminum work, glass & its rate for different, thickness & sections, finishing (enamel paint, duco paints, melamine, DU coats, Hand

polishing, veneering and laminating) for walls & ceilings. Electrical & plumbing products, wiring, ducting etc., and laying of tiles & wall paneling in the estimate format of the project.

UNIT – III DETAILED ESTIMATE

Detailed Estimate – data required, factors to be considered, methodology of preparation, abstract of Estimate, contingencies, labour charges, bill of quantities, different methods of estimate for interior design works, methods of measurement of works.

 BHI-352
 Interior Design - IV

| L | Init – 1 Spatial and environm | ental standards for various auditorium – performing arts, cinema, convention centre. | |
|---|-------------------------------|--|--|
| | BHI-354 | Dissertation | |

UNIT - I Selecting a subject establishing relevance through facts, statistics of the social, cultural economic feasibilities

BHI-306A Interior Accessories and Product Design UNIT- I NEED OF STUDY

Insight of various products and lifestyle accessories in the interiors. Role of accessories in interiors. Integration of accessories in interior design. Design approaches in product and lifestyle accessories design with a focus on

functionality, ergonomics, aesthetics, multiple usages etc.

UNIT -II STYLISTIC DEVELOPMENT

Stylistic development of decorative accessories from the past to present with insight into technological advances and the influences of social, economic and political factors on their design. Brief study of period room settings with the context of decorative accessories complementing the architecture and interior design.

BHI-306B Revitalization of Art and Craft

UNIT- I Dexterity; knowledge of materials, process, technology and products of craft forms- production of craft forms and technology.

IM22: Interior Context

| Subject Code | Subject Name | Interior Context |
|-----------------|---|---------------------|
| DUIL 202 | | IM22 25 |
| BHI-302 | Lighting Colors & Interiors | 23 |
| BHI-304 | Estimation & Costing | |
| BHI-352 | Interior Design - IV | 25 |
| BHI-354 | Dissertation | 25 |
| BHI-306A | Interior Accessories and Product Design | 25 |
| BHI-306B | Revitalization of Art and Craft | |

Course Outcome

| Desi | Designer will be able to: | |
|------|--|--|
| 1 | Understand and apply a substantial knowledge of professional practice in interior design, including; the designers' relationship with an audience; clients; users; colleagues; environments; markets and intellectual property issues. | |
| 2 | Engage with increasing effectiveness, in self and peer reflection, respond positively to critical judgement of others, with relevance to both general professional progression and specific development within contemporary practice in Interior Design. | |
| 3 | Employ a formative knowledge and understanding of the contexts, frameworks, and environments within which Interior Design operates | |

COURSE CONTENT

| BHI-302 | Lighting Colors & Interiors |
|---------|-----------------------------|
|---------|-----------------------------|

UNIT – II ARTIFICIAL LIGHTING

Electric lamps - incandescent, fluorescent, sodium vapour, mercury, halogen and neon. Different types of lights in

interior and exterior - task lighting, special purpose lighting. Calculation of artificial lighting, guidelines for lighting

| de | sign, Glare in artificial light | ing. | |
|----|---------------------------------|----------------------|--|
| | BHI-304 | Estimation & Costing | |
| | | | |
| | | | |

| | BHI-352 | Interior Design - IV |
|---|------------------------------|---|
| U | JNIT – 2 Detail schematics c | of wall paneling, false ceiling and carpeting to satisfy acoustic requirements. |

| | BHI-354 | Dissertation |
|-----|---------------------------|---|
| AUT | II Daing research by read | ng collecting information and statistics, questionnaire |

UNIT – II Doing research by reading , collecting information and statistics, questionnaire

BHI-306A

UNIT- III MATERIAL STUDY

Study of materials and processes adopted in accessories design. Basic understanding of construction principles, anthropometrics, principles of sizes and proportions, modeling, rapid prototyping, color, texture etc.withbroadorientationtosocio-culturalandhistoricalcontextofthesector.OrientationtoIndianaswellas global context of interiors, trends and market.

| | BHI-306B | Revitalization of Art and Craft |
|-------|------------------------------------|--|
| UNI | T-II Identification of priv | ate and public craft activity around the nation – various crafts and its perception in the |
| socie | ety - design issues in transf | forming old craft forms into modern context by keeping its original spirits. Assignment: |
| Selec | ct one of the art/ craft form | with the consultation of the faculty. Visit to the craft pockets. |

IM23: Resurgence

| Subject Code | Subject Name | Resurgence |
|--------------|---|------------|
| | | ⊠ IM23 |
| BHI-302 | Lighting Colors & Interiors | 25 |
| BHI-304 | Estimation & Costing | |
| BHI-352 | Interior Design - IV | 25 |
| BHI-354 | Dissertation | 50 |
| BHI-306A | Interior Accessories and Product Design | 25 |
| BHI-306B | Revitalization of Art and Craft | |

Course Outcome

| Designer will be able to: | |
|---|---|
| 1 To apply research skills and process of investigation, reflection and writing | |
| 2 | To develop a research topic specific to interest pertaining to interior design domain |
| 3 | To analyse critical and theoretical engagement of with contemporary interior issues |

COURSE CONTENT

| ſ | BHI-302 | Lighting Colors & Interiors |
|--|---------|-----------------------------|
| UNIT – III EFFECT OF COLOR IN LIGHTING | | |

Colors, color schemes - Monochromatic, analogous, complementary colour schemes, triadic and tetradic schemes, effects of color in different areas, color temperature, psycological effects of colour in interiors, factors affecting colour, Prang theory – Colour wheel, Munsell system and Oswald system.

| BHI-352 | Interior Design - IV |
|--|----------------------|
| UNIT III - Lighting study to develop ideas for foyer, auditorium and stage requirements | |
| BHI-354 | Dissertation |
| UNIT – III Learning various data collection methods. | |
| UNIT IV Coloring the related ence studies either live on healt to understand the translater | |

UNIT IV - Selecting the related case studies either live or book to understand the typology.

UNIT V - Synthesizing and documenting the data, information, findings etc , and establishing the fact by concluding to establish the feasibility of the design proposal which ultimately leads to the generation of a design opportunity

BHI-306A Interior Accessories and Product Design UNIT –IV DESIGN APPROACH

Design approach with limited constraints inherent in accessory products. Evolving the strategy of design with

integration of technical complexities and lifestyle influences. Development of the design of products and accessories to specific interiors and prevailing trends. Broad based approach towards innovative design and application to multi products and multi materials in manufacturing interior products and lifestyle accessories.

BHI-306B Revitalization of Art and Craft

UNIT- III Document people, life, culture and craft and understand the materials, tools, technology, processes and forms.

IM24: Process 2

| Subject Code | Subject Name | Locess 2 |
|--------------|---|----------|
| BHI-302 | Lighting Colors & Interiors | 25 |
| BHI-304 | Estimation & Costing | 50 |
| BHI-352 | Interior Design - IV | 25 |
| BHI-354 | Dissertation | |
| BHI-306A | Interior Accessories and Product Design | 25 |
| BHI-306B | Revitalization of Art and Craft | |

Course Outcome

| Des | Designer will be able to: | | |
|-----|---|--|--|
| 1 | To understand the interior design process in context | | |
| 2 | To address the significance of research, observation, documentation, evaluation, idea generation, concept development | | |
| 3 | To familiarize with core interior design considerations | | |
| 4 | To develop conscious awareness and practice of all aspects of design process | | |

COURSE CONTENT

| BHI-302 Lighting Colors & Interiors | | |
|-------------------------------------|---------|-----------------------------|
| | BHI-302 | Lighting Colors & Interiors |

UNIT - IV LUMINARES & FIXTURES

Definition, different luminaries for lighting, lighting control system- benefits & application, Impact of lighting, fixture types - free standing or portable, fixed, light fixture control. Lighting accessories- switches, sockets, fused connection units, lamp holders, ceiling roses etc.

UNIT - V CASESTUDY

Study of projects based on different lighting concepts used in interiors and exteriors.

| | BHI-304 | Estimation & Costing |
|--|---------|----------------------|
| UNIT – IV COSTING OF FIXTURES & FITTINGS | | |

Cost of the following items: electrical fitting like, luminaries, fan, cables, switches etc., tiles in skirting & dado, cement plaster, joinery in wood, steel & aluminum, painting to walls – cement paint, oil paints, distemper acrylic emulsion, enamel paint painting to joinery, varnishing, French polishing plumbing equipments like piping, shower panels, cubicles, tubs, Jacuzzis, taps, motors, fountains, false ceiling of 25 aluminum panels, steel & wooden frame work, thermocol etc. wall paneling of ceramic tiles & other tiles of materials suitable for the same, partitions made of materials like aluminum wood, steel etc

UNIT – V INTRODUCTION TO SPECIFICATION

Specification – Definition, purpose, procedure for writing specification for the purpose of calling tenders, types of specification. Specification for different item related to interior design project – woodwork for furniture window frames & pelmets, partitions etc also of materials like steel aluminum glass of various kind. Wall paneling & false ceiling of materials like aluminum, steel, wood, electrical, plumbing, aircontioning&fire fightingequipments.

BHI-352Interior Design - IVUNIT – IV Spatial and service standards for five star hotels – integration of interior design schemes for rooms, restaurants,

bars, health clubs, shopping arcade and other guest areas with the general theme of the hotel.

UNIT – V Special ideas for suites and banquet halls – contemporary interior schemes to integrate new concepts in lighting and materials.

| | BHI-354 | Dissertation | |
|---|---------------|---|--|
| | | | |
| | BHI-306A | Interior Accessories and Product Design | |
| Т | NUT V DETAILS | · | |

UNIT -V DETAILS

A detailed study involving all the design aspects of any of the following lifestyle accessories: luminaire design, glassware, lighting fixtures, textiles, mirrors, clocks, wall & floor coverings etc.

BHI-306B Revitalization of Art and Craft

UNIT – **IV** Suggest suitable changes in technology to improve the products so as to make it acceptable in today's context.

UNIT – **V** Design and produce a product related to interiors in contemporary design.

7th Semester

IM25 – Professional Office Training

8th Semester

| BHI-404 | Professional Practice |
|---------|------------------------------|
|---------|------------------------------|

UNIT 1: ENTREPRENEURSHIP

Social Entrepreneurship, Business Entrepreneurship, Trading Entrepreneurship, Corporate Entrepreneurship, and Agricultural Entrepreneurship

UNIT 2: BUSINESS FOUNDATION

Timmons Model of Entrepreneurship, Investment Models, Startup Business Models, Business Plans, Pitch presentations, Small Business models

UNIT 3: Legal aspects of business Contracts and Agreements, Conflict Resolution, Arbitration

UNIT 4: Running a Design Business Set up of an independent design business, Hiring processes, Project Scheduling and work delegation, Cost Estimation; Billing, salaries and taxation

UNIT 5: PROFESSIONAL ETHICS Ethics in Profession, Code of conduct

BHI-406A Entrepreneurship Development

Unit – I: Entrepreneurship – Meaning – Importance, Types – Roles of Entrepreneurs in Economic Development – Qualities of an Entrepreneur – Entrepreneurship as a career.

Unit – **II:** How to start Business – Product selection – Form of ownership – plant location – Land, Building. Water and Power – Raw Materials – Machinery – Man Power – Other – Infrastructural facilities – Licensing Registration and local byelaws.

Unit – III: Institutional arrangement for Entrepreneurship Development – D.I.C., I.T.C.O.T., S.I.D.C.O., N.S.I.C., M.S.M.E., – Institutional Finance to Entrepreneurs. T.I.I.C., S.I.D.B.I., Commercial Banks – Incentives to small scale Industries.

Unit – IV: Project Report – Meaning and Importance – Project Identification – Contents of Project Report – Formulation of a project report – Project appraisal – Market Feasibility – Technical Feasibility – Financial Feasibility and Economic Feasibility.

Unit – V: Entrepreneurship Development in India – Women Entrepreneurship in India – Sickness in Small scale industries and their remedial measures.

BHI-406B Applied Ergonomics

UNIT 1: INTRODUCTION TO ERGONOMICS

Definitions of Ergonomics and its classification, application and overview, Concept of Man Machine Environment System

UNIT 2: HUMAN BODY & ITS SYSTEM

Overview of the Human Body and it's subsystems, Understanding musculoskeletal system and its function in terms of manual activities, Understanding nervous system, human sensory organs and their limitations.

UNIT 3: ANTHROPOMETRY

Understanding and applications of anthropometry; Basic anatomy, measurement system, types; static, dynamic, posture, joint, movement; Study of work posture and its impact on human performance; Physical environment and their impact on human performance

UNIT 4: PRODUCT ERGONOMICS

Understanding of product ergonomics; Man, machine and Interaction

UNIT 5: SAFETY INJURY PREVENTION,

safety, vibration, shock, fatigue and occupational hazard; Error handling

APPLIED ERGONOMICS

Introduction to Human Function- Human being in the manmade world and importance of ergonomics, Gross human anatomy; Ergonomics and Design- Introduction to Anthropometrics: static and dynamic; Disability, Ageing and Inclusive Design- Built environment for the physically handicapped.

BHI-406C Portfolio Development

PORTFOLIO DESIGN FOR ONESELF (STUDIO) Students are expected to prepare a professional portfolio for themselves which will include their CV and works which they have been done during the course period. The portfolio should have a proper layout and design and should maintain professional standards and norms.

METHODOLOGY

- Choice of subject and detailed syllabus for the subject shall be finalized on year to year basis depending upon the expertise available.
- The experts in the field will deliver lectures and demonstrate the latest techniques for development of skills

