

# **SNDTWU Centre for Vocational and Technical Education**

## **BACHELOR OF VOCATION (INTERIOR DESIGN) 3 YEAR FULL TIME DEGREE COURSE STRUCTURE**

# **BACHELOR OF VOCATION (INTERIOR DESIGN)**

## **(3 YEAR FULL TIME DEGREE COURSE)**

### **INTRODUCTION**

The B.Voc. Programme is focused on providing undergraduate studies which would also incorporate specific job roles and their NOSs along with broad based general education. This would enable the graduates completing B.Voc to make a meaningful participation in accelerating India's economy by gaining appropriate employment, becoming entrepreneurs and creating appropriate knowledge.

Bachelor of Vocation (B.Voc.) is a degree with multiple entry and exit points.

### **OBJECTIVES**

Interior Design addresses the importance of human habitat and the built environment that supports human activities and values. It generates order to the space occupied by people, by making one aware of how the space influences our identity, productivity and wellness.

As an interior designer one has the vital task to create intentional spatial interactions that can have a positive effect on human beings in whichever space they may inhabit – working, living or recreational.

The Interior Design program is built to initiate a thoughtful and reactive design process. It facilitates the students to understand and create human habitation spaces through varied understandings of theory, studio, practical skills, live projects, case studies, field trips and encounters with industries and professionals. It also aims at inculcating an environmental awareness within the student for the benefit of human health, well being and productivity.

The students are trained in representative skills through regular studios and a team of specialized Design Faculty that focus on freehand drawing, technical drawing and model making. These skills are further supplemented through elective subjects such as Interior Lighting, Interior Landscape, Sustainable Interior, Set Design, Interior Project Management, Furniture Design and Product Design. The program aims at promoting a holistic approach to the designing process by simultaneously involving inputs from theory, allied subjects and electives into design.

The program enables the student to become an independent and effective learner and opens up a range of prospects on completion of the course. The industry offers

opportunities to young designers in large set ups of architecture, interior design, kitchen design and exhibition design practices. Graduates are equipped to begin their own practice or further their education by applying to study in post-graduate programs ranging from furniture, exhibition, product and interaction design to craft & technology, history- theory- criticism and Energy efficiency & green design.

➤ **Duration: 3 Years**

➤ **Eligibility for Admission**

● **For First Year**

- A candidate must have obtained at least 50% marks in H.S.C. or its equivalent (Any stream) from recognized Board or University OR NSQF level 3 certificate in Interior Design or equivalent.
- A candidate should also pass interview conducted by the institute. H.S.C. marks and interview will carry equal weightages.

● **For Lateral entry (Second Year )**

- Diploma Course in Interior Design (Completed minimum 3 years full time course from recognised institute) from AICTE/DTE approved institute or its equivalent.
- NSQF level 5 certificate in Interior Design or equivalent.

➤ **The total no. of seats allotted is 30.**

## **Attendance requirement**

- a) A student shall be required to attend at least 75% of the number of lectures and 75% of the number of practicals / tutorials, separately from actual number of classes conducted in each subject during each semester.
- b) The principal of the college shall have the discretion to condone 10% of the attendance in theory and / or practicals of any one subject or subjects (overall) if she is fully convinced of the student's absence on grounds of ill-health or for reasons beyond her control. Such intimation with relevant supporting documents must be submitted while student is absenting herself. A delayed submission will not be considered.
- c) The Vice-chancellor however, reserves the right to condone the additional absence up to 5% if fully represented by the student and submitted through the principal. Pending the decision of the Vice-chancellor on the above matter, the student may be permitted to appear for the examination provisionally. The student shall have to give an undertaking in writing that the decision of the Vice-chancellor will be final and binding on her and that in case the decision is adverse, the examination result will stand cancelled and the examination fees will not be refunded.
- d) A student must remain present on 1<sup>st</sup> day of each semester. Failing it, the admission will be cancelled.

## **Evaluation:**

### **Internal assessment**

#### ***Theory***

(A) There shall be one written mid-term test of 25 marks in theory papers (Duration: 1 hour). For theory papers the question paper will be comprised of – multiple choice questions, line diagrams, definitions, short notes, give reasons, match the column, fill in the blanks and other types of questions

(B) For every subject one small project of 25 marks will be submitted by the students.

The evaluation criteria for the projects are as follows:

Presentation of project: Marks: 6, Knowledge of subject matter: 6, Ability to answer questions: Marks 5, Hard copy: Marks: 8.

Internal assessment total marks: 50

#### ***Studios***

There shall be one mid-term practical test of 50 marks (Duration: two hours) in practical subjects. The evaluation criterion for practical examination is as follows: Viva voce: 20 marks, Planning of work: 5 marks, Practical work: 25 marks.

Internal assessment total marks: 50

### **Semester examination:**

#### ***Theory***

There shall be written test of 50 marks in theory papers (Duration: 2 hours).

#### ***Studios***

There shall be practical test of 50 marks (Duration: two hours) in Practical Subjects. The evaluation criterion for practical examination is as follows:  
Viva voce: 20 marks, Planning of work: 5 marks, Practical work: 25 marks.

#### ***Pattern of Semester examinations***

- \* College examination at the end of –
  - I Semester (Theory & Practical)
  - II Semester (Theory & Practical)
  - III Semester (Theory & Practical)
  - IV Semester (Theory & Practical)
- \* University examination at the end of -
  - V Semester (Theory, Practical)
  - VI Semester (Theory, Practical)

*Note: Semester VI is meant for Internship*

#### ***Evaluation scheme***

##### **Heads of Passing**

Each subject in a semester, where separate credits are shown, is a separate head of passing. This means there shall be separate passing in theory and practicals of the same subject if shown as separate heads.

##### **Weightage to internal assessment and semester examination**

Internal assessment as well as semester examination have 40% weightage in each head of passing respectively for theory and practicals.

##### **Final grade in each head of passing**

Marks for internal assessment and also for the semester examination, are finally to be converted into marks out of 50 each and then combined to make a total of 100.

The conversion of the total marks of a subject into a grade shall be made according to the predetermined special mark-grade conversion table, which may be different for different heads of passing. The same can be obtained from the office.

### **Standard of Passing**

The student shall be required to get minimum 'D' grade in Internal Assessment to qualify for the Semester examination to be conducted by College or University. A minimum of 'D' grade is also required at the semester examination.

### **Grace Marks**

Maximum 2 Grace Marks may be given either for Internal assessment or at Semester Examination/University Examination for each subject. In other words, if 2 Grace marks are given at Internal Assessment, nil can be given at Semester/University Examination. If none is given at internal assessment level 2 may be given at Semester/University examination OR 1 each may be given at Internal Assessment and Semester/University Examination.

### **Promotion to the next Semester**

- 1) A student must secure a minimum of 'D' grade in Internal + External Assessment for each head of passing. If she does not pass in internal Assessment she will have to repeat the subject as and when it is offered.
- 2) A student is given a chance to proceed to 2<sup>nd</sup>, 4<sup>th</sup>, or 6<sup>th</sup> Semester irrespective of her performance in Semesters 1<sup>st</sup>, 3<sup>rd</sup>, and 5<sup>th</sup>. However, at the end of the academic year if she has failed in *MORE THAN NINE CREDITS*, combining both the semesters of the given academic year, she is not allowed to proceed to next semester i.e. next academic year.
- 3) A STUDENT WILL BE ALLOWED A MAXIMUM OF 4 CHANCES TO PASS AN EXAMINATION INCLUDING THE FIRST APPEARANCE. FAILING IT THE STUDENT WILL HAVE TO DISCONTINUE HER STUDIES.

*If a student fails in the subject, which is a prerequisite to another subject, she will not be allowed to offer the higher-level subject.*

### **Internship Programme:**

- a) Eligibility for Internship
  - \* Semesters to be cleared fully - I, II, III and IV
  - \* All Exams should be cleared.
- b) If the internship placement does not work out for a student inspite of willingness of the management with whom she is placed, the student may

be given one more chance for her placement. In any event the student has to complete Internship Training within two years after the University Examinations.

### Calculation of the grade point average

Each grade has grade point & qualitative interpretation as follows:

Grade	Grade point	G.P.A.	Qualitative interpretation
O	6	6	Outstanding
A	5	5 – 5.99	Very Good
B	4	4 – 4.99	Good
C	3	3 – 3.99	Average
D	2	2 – 2.99	Pass
E	1	1 – 1.99	Poor
F	0	0 – 0.99	Very Poor

To calculate G.P.A. in letter as well as figure for each semester the following formula be implemented.

- i) Assign grade point to grade of each subject offered in the semester
- ii) Total the Grade Points
- iii) Total the credits assigned to each subject offered in the semester
- iv) Divide Total no. Of grade points by Total no. of credits.
- v) The result arrived at in the figures is again converted into letter grade as per the above table.

G.P.A. for Semester:  $\frac{\text{Total of Grade point of all the Subjects offered in the Semester}}{\text{Total No. Of Credits of all the Subjects offered in the Semester}}$

G.P.A. for Diploma:  $\frac{\text{Total of G.P.A.S. of all the semesters}}{\text{Total No. of semester of the Diploma}}$

### Submission of results to the University

The college will be required to send the record of Internal assessment at least one week before the university exam commences for the subjects for which the university is conducting the exams.

The college shall also prepare a statement for each student indicating her letter grade and Grade Point Average for all the semester examinations conducted by the college.

### **The mode of declaring results**

The college shall prepare the result sheet of all the students for the exams conducted by the college. The university shall then supplement the result of the examinations conducted by the university and declare the result as follows:

- 1) List of courses for the semester examinations conducted by the college and/or university.
- 2) Grade obtained in each head of passing
- 3) Credits for each head of passing
- 4) Semester wise G. P.A.
- 5) Final aggregate grade and Grade Point Average of all the semesters.

**Number of academic working day per Semester 90 Days/ Semester or 16 weeks/ Semester**



Level	Code	Educational Component	Credit	Marks
<b>4 Semester I</b>		<b>Theory</b>		
	1.GE.01	EVS	2	50
	1.GE.02	History of Design-I	2	50
	1.GE.03	Construction, materials and services -I	4	100
	1.GE.04	Basic and Interior Design -I	4	100
		<b>Lab/Practical</b>		
	1.GP.01	Drawing Skills -I	3	75
<b>On-Job-Training (OJT)/Qualification Packs</b>				
Assistant Furniture Designer FFS/Q0106			15	375
Lead Interior Designer FFS/Q9102				

Level	Code	Educational Component	Credit	Marks	
<b>5 Semester II</b>		<b>Theory</b>			
	2.GE.01	Language	2	50	
	2.GE.02	History of Design -II	2	50	
	2.GE.03	Construction, materials and services -II	4	100	
	2.GE.04	Basic and Interior Design -II	4	100	
		<b>Lab/Practical</b>			
	2.GP.01	Drawing Skills -II	3	75	
<b>On-Job-Training (OJT)/Qualification Packs</b>					
Design Supervisor -Wooden/modular Furniture FFS/Q0108			(Any one)	15	375
Supervisor Interior Designer FFS/Q9103					

Level	Code	Educational Component	Credit	Marks	
<b>6 Semester III</b>		<b>Theory</b>			
	3.GE.01	Communication skills –II	2	50	
	3.GE.02	Professional Practice	2	50	
	3.GE.03	Construction, materials and services –III	4	100	
	3.GE.04	Basic and Interior Design -III	4	100	
		<b>Lab/Practical</b>			
	3.GP.01	Furniture and Accessory design-I	3	75	
<b>On-Job-Training (OJT)/Qualification Packs</b>					
Lead Furniture Designer*			(Any one)	15	375
Assistant Interior Designer FFS/Q9101					

Level	Code	Educational Component	Credit	Marks	
<b>6 Semester IV</b>		<b>Theory</b>			
	4.GE.01	Communication skills –III	2	50	
	4.GE.02	Business Management	2	50	
	4.GE.03	Working drawing-I and services –III	4	100	
	4.GE.04	Basic and Interior Design -IV	4	100	
		<b>Lab/Practical</b>			
	4.GP.01	Furniture and Accessory design – II	3	75	
<b>On-Job-Training (OJT)/Qualification Packs</b>					
Senior Furniture Designer*			(Any one)	15	375
Senior Interior Designer FFS/Q9104					

Level	Code	Educational Component	Credit	Marks	
7 Semester V		<b>Theory</b>			
	5.GE.01	Research methodology and presentation skills	2	50	
	5.GE.02	Entrepreneurship	4	100	
	5.GE.03	Working drawing-II and services -V	3	75	
	5.GE.04	Elective	3	75	
		<b>Lab/Practical</b>			
	5.GP.01	Interior Design Dissertation	3	75	
<b>On-Job-Training (OJT)/Qualification Packs</b>					
Exhibition space designer*			(Any one)	15	375
Design Manager*					

Level	Code	Educational Component	Credit	Marks	
7 Semester VI		<b>Theory</b>			
	6.GE.01	Research paper writing and presentation	12	300	
		<b>Lab/Practical</b>			
	6.GP.01	Interior professional practice/Internship	3	75	
<b>On-Job-Training (OJT)/Qualification Packs</b>					
Set designer*			(Any one)	15	375
Design Entrepreneur*					

**BACHELOR OF VOCATION (INTERIOR DESIGN)**  
**(3 YEAR DEGREE COURSE WITH MULTIPLE EXIT POINTS)**  
**Syllabus (Course Content)**

**Semester-I (LEVEL 4)**

**1. GE.01**

**E.V.S**

**30 Hours**

**Hr/week: - 2**

**Credit:-2**

**Marks: - 50**

**Objective**

- To create awareness about physical environment and its components.
- To acquire Knowledge of natural resources and their types.
- To develop the concept of ecology and its components.
- To understand the impact of human activities on ecology and need to conserve the resources

**Contents**

**MODULE-I**

**15 Hours**

**The Multidisciplinary Nature of Environmental Studies**

Unit 1- Definition, Scope and Importance, Need for public awareness

Unit 1- Renewable and Non- Renewable Resources

Unit 2- Natural Resources and Associated Problems- a) Forest Resources: Use and Over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people.

b) Water Resources: Use and Over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems

c) Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.

d) Food Resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilization-pesticide problems, water logging, salinity, case studies

e) Energy Resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources, case studies

f) Land Resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification.

Unit 3- Role of individual in conservation of natural resources

Unit 4- Equitable use of resources for sustainable lifestyles

**Ecosystems**

Unit 1- Concept of ecosystem

Unit 2- Structure and function of ecosystem

Unit 3- Producers, consumers and Decomposers

Unit 4- Energy flow in the ecosystem  
Unit 5- Ecological succession  
Unit 6- Food chains, food webs and ecological pyramids.  
Unit 7- Introduction , types, characteristics features, structure and function of the following ecosystem- a) Forest ecosystem b) Grassland Ecosystem c) Desert ecosystem d) Aquatic ecosystem (ponds, streams, lakes, rivers, oceans, estuaries)

**□ Biodiversity and its conservation**

Unit 1- Introduction- Definition: genetic, species and ecosystem diversity.  
Unit 2- Bio-geographical classification of India  
Unit 3- Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values  
Unit 4- India as a mega-diversity nation  
Unit 5- Hot-spots of biodiversity  
Unit 6- Threats to bio-diversity: habitat loss, poaching of wildlife, man-wildlife conflicts  
Unit 7- Endangered and endemic species of India  
Unit 8- Conservation of bio-diversity: In-Situ and Ex-situ conservation of biodiversity

**MODULE-II**

15 Hours

**□ Environmental Pollution**

Unit 1- Definition, Causes, effects and control measures of – a) Air pollution b) Water pollution c) Soil pollution d) Marine pollution e) Noise pollution f) Thermal pollution g) Nuclear hazards  
Unit 2- Solid waste management: Causes, effects and control measures of urban and industrial waste  
Unit 3- Role of individual in prevention of pollution  
Unit 4- Pollution case studies  
Unit 5- Disaster Management: floods, earthquake, cyclone and landslides

**□ Social Issues and the Environment**

Unit 1- From Unsustainable to Sustainable development  
Unit 2- Urban problems related to energy  
Unit 3- Water conservation, rain water harvesting , watershed management  
Unit 4- Re-settlement and rehabilitation of people; its problems and concerns. Case studies  
Unit 5- Environmental ethics: Issues and possible solutions  
Unit 6- Climate changes, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies  
Unit 7- Wasteland reclamation  
Unit 8- Consumerism and waste products  
Unit 9- Environment Protection Act  
Unit 10- Air ( Prevention and Control of Pollution) Act  
Unit 11- Water ( Prevention and Control of Pollution) Act  
Unit 12- Wildlife Protection Act  
Unit 13- Forest Conservation Act  
Unit 14- Issues involved in enforcement of environmental legislation  
Unit 15- Public awareness

**□ Human Population and the Environment**

Unit 1- Population growth, variation among nation  
Unit 2- Population explosion- Family Welfare Programme

Unit 3- Environment and Human Health  
Unit 4- Human Rights  
Unit 5- Value Education  
Unit 6- HIV/AIDS  
Unit 7- Women and Child Welfare  
Unit 8- Role of Information Technology in Environment and Human health  
Unit 9- Case Studies

- Visit** to local area to document environmental assets-a) rivers/forest/grassland/hill/mountain.
- b) Local Pollution site- Urban/Rural/Industrial/ Agricultural
- c) Study of common plants/insects/birds
- d) Study of simple ecosystems- ponds, rivers, hill slope etc

Faculty ratio: One teacher per fifteen students

Reference Books: 1. The Biodiversity of India by Bharucha Erach, Mapin Publishing Pvt.Ltd, Ahmedabad-380013, India, Email: [mapin@icenet.net](mailto:mapin@icenet.net). 2. Environmental Biology by Agarwal, K.C, Nidi Publi.Ltd.Bikaner2001, 3. Hazardous Waste Incineration by Brunner R.C, McGraw Hill Inc.480p, 1989, 4. Marine Pollution by Clark R.S, Clarendon Press Oxford (TP), 5. Environmental Encyclopedia by Cunningham, W.P.Cooper, Jaico Publ. House, Mumbai, 1196p M.T.2001, 6. Environmental Chemistry by De A.K, Wiley Eastem Ltd.

## 1.GE.02

## History of Design-I

30 Hours

Hr/week:-2

Credit:-2

Marks: - 50

Objective

To create awareness of History as an aid to design process

Contents

### MODULE-I

15 Hours

- Introduction to furniture history.
- Evolution of furniture over a period based on climate, social factors, life style, technical and stylistic development availability of materials and various movements in design.
- Introduction to furniture terminology based on methods of joinery techniques such as parquetry, marquetry gilding, turning, pierced and chip carving, ormolu mounts.

MODULE-II 15 Hours Ancient civilization, art, architecture of Egypt. Furniture

- preserved in ancient pyramids.
- Ancient classical orders developed by them and various methods to overcome optical illusion. Furniture developed by Greeks and Romans by 3rd century A.D.

- Medieval era in Europe, utilitarian furniture developed from Romanesque till Gothic times. Gothic cathedrals preserving art, manuscripts, furniture, paintings, sculptures, stain glass.
- Beginning of Renaissance-second golden era in Europe, age of discovery. Renaissance furniture of Italy and France.
- Baroque and Rococo furniture of 17th century Europe.
- Neoclassical and Regency period in history of furniture-18th century
- Prominent names in the field of Architecture, sculptures, paintings international and Indian Evaluation Continuous assessment of sessional work may consist of project work, sketch books, power point presentations etc.

Faculty ratio: One teacher per batch.

Reference Books: 1. Joseph Aronson, The Encyclopedia of Furniture: Third Edition ,1961 2. Bradley Quinn, Mid-Century Modern: Interiors, Furniture, Design Details, Conran Octopus Interiors, 2006. 3. Jim Postell, Furniture Design, Wiley publishers, 2007. 4. Edward Lucie-Smith , Furniture: A Concise History (World of Art) , Thames and Hudson, 1985 5. Robbie. G. Blakemore, History of Interior Design and Furniture: From Ancient Egypt to Nineteenth-Century Europe, Wiley publishers, 2005. 6. John.F. Pile, Interior Design, 2nd edition, illustrated, H.N.Abrams, 1995.

### **1.GE.03**

### **Construction, materials and services-I**

**120 Hours**

**Hr/week:-8**

**Credit:-4**

**Marks: - 100**

#### Objective

To introduce basic materials used in construction, basic components of a building and method of construction and representation of the same.

To give an overview of the basic materials those are used in Interior and Architecture with reference to the material properties, feasibility, availability, durability and sustenance to climatic conditions.

To study the principles of water supply, sanitation and drainage system and various types of sanitary fittings and fixtures to enable learner design appropriate service layout.

#### Contents

##### MODULE-I

15 Hours

- Structural components: Introduction to structural components and elements of built structure.
- Walling Systems: Brick walls for interior division of spaces and other uses (half brick and one brick thickness). Light weight concrete blocks, hollow blocks, aerated concrete blocks.
- Joinery: Introduction to joinery and joints, limitations and applications.

MODULE-II 15 Hours Openings: Doors, windows, ventilators with focus on different

modes of operation

and their jamb linings. Types of Lintels and Arches based on structure and materials.

Structural glazing

Doors and Windows: Types based on mode of operation, material and positioning.

Evaluation

Continuous assessment of sessional work should consist of scaled drawing plates for topics Doors, Windows, Lintels and Arches.

Assessment of topics-Structural glazings, Structural components, Walling systems and joinery to be assessed in form of sketches ,visit reports, power point presentations.

### MODULE-III

15 Hours

Contents for Materials

Natural stones. Bricks, light weight concrete blocks, Cement, concrete,

Ceramics Commercial forms of wood, Timber, Bamboo

Glass For all the above mentioned materials a basic understanding of the market research and current trend analysis will be cumulated through Market Research and Presentations by students there upon. Evaluation Continuous assessment of sessional work may consist of project work, sketch books, power point presentations, market surveys, research work

### MODULE-IV

15 Hours

Cold and hot water distribution systems, types of water supply pipes and joints, fixtures and fittings.

Soil and waste water disposal systems, types of sanitary pipes and joints.

Plumbing works for Kitchens, toilets, baths, washing machines, dishwasher, refrigerator, loft tanks etc.

Detail for bath Tubs, Rain Shower, Shower system, Jacuzzis.

Distribution and disposal layout. Evaluation Continuous assessment of sessional work may consist of project work, sketch books, power point presentations etc.

Faculty ratio: One teacher per fifteen students.

REFERENCES: 1. Bindra, S.P. and Arora, S.P. Building Construction: Planning Techniques and methods of Construction, 19th ed. Dhanpat Rai Pub., New Delhi, 2000.

2. Moxley, R. Mitchell's Elementary Building Construction, Technical Press Ltd.

Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House Anand, 2004. 3.

Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2003.

4. Chowdary, K.P. Engineering Materials used in India, 7th ed. Oxford and IBH, New Delhi,1990. 5. Rangwala, S.C. Building Construction: Materials and types of Construction, 3rd ed. John Wiley and Sons, Inc., New York, 1963. 6. Francis D. Ching, Building Construction Illustrated, Wiley publishers, 2008. 7. Rangawala, S.C Engineering Materials, Charter publishing house, Anand 1963. 8. Rangawala, S.C, Building construction, Charter publishing house, Anand 1963 9. Rangawala .S.C., Water supply and sanitary Engineering, publishing house, Roorkee. 10. Pratap R.M



(1988) Interior Design Principles and practice, Standard publisher's distribution, Delhi.  
5. F. Hall, Plumbing technology, British Library Cataloguing in Publication Data.

## **1.GE.04**

## **Basic and Interior design-I**

**60 Hours**

**Hr/week: - 4**

**Credit:-4**

**Marks: - 100**

### Objective

To give the overview of design aspects, in terms of design elements and principles that are generically applicable to any design stream including interior design. The subject aims at developing observational and creative skills that would enhance the visual perception of students and evolve aesthetic sensitivity.

In this semester the learner is expected to apply the basic design acumen and anthropometric observations in the designing of Residential interior spaces such as Individual rooms (Living/ Dining not less than 25.00 Sq.mts & Kitchen not less than 12.00 Sq.mts.) of an apartment and are expected to present the study through detailed measured drawings and sketches. All specified areas are Carpet Areas.

### Contents

#### MODULE-I

30 Hours

Introduction to parameters of design, anthropometrics and ergonomics, human activity and use of interior spaces and furniture.

Analysis of design to perceive elements which define the character of the environment.

Analysis of design process.

#### MODULE-II

30 Hours

Concept formation for design. Evaluation self Study and Continuous assessment of sessional work in form of sketches, scaled drawings, study models in various materials, case studies, visit reports, power point presentations etc.

#### MODULE-III

30 Hours

Prepare detailed specifications including drawing and dimensions of the layout along with the furniture and other fittings and space planning

Prepare procurement plan of all material and related subcontracting for fabrication and installation work

#### MODULE-IV

30 Hours

Self Study and Continuous assessment of sessional work in form of sketches, scaled drawings, study models in various materials, case studies, visit reports, power point presentations etc.

Design portfolio should consist of Project Brief, Client profile, Measurement Plan, Furniture Layout Plan/ Flooring Layout/ Sectional Elevations.

Faculty ratio : One teacher per fifteen students.

Note- Eight hours studio shall not be at a stretch.

REFERENCES: 1. Ahmed Kasu, Interior Design, TWAIN Pub. Bombay 2. Sudhir Diwan, Sanskruti a manual of Interior DesignVol-1, Interior Affairs, Mumbai 3. Karlen Mark, Space planning Basics, Van Nostrand Reinhold, New York, 1992. 4. Joseph D Chiara, Julius Panero, & Martin Zelnick, Time Saver standards for Interior Design & space planning, 2nd edition, Mc-Graw Hill professional, 2001. 5. Francis.D. Ching & Corky Bingelli, Interior Design Illustrated, 2nd edition, Wiley publishers, 2004. 6. Julius Panero & Martin Zelnick, Human Dimension & Interior Space : A source book of Design Reference standards, Watson – Guptill, 1979. 7. Karlen 7. Barner, R.M., (1980), Motion and Time Study, Design and Measurement of work, John Wiley, New York. 8. Ahmed Kasu, Interior Design, TWAIN Pub. Bombay 9. Sudhir Diwan, Sanskruti a manual of Interior DesignVol-1, Interior Affairs, Mumbai 10. Karlen Mark, Space planning Basics, Van Nostrand Reinhold, New York, 1992. 11. Joseph D Chiara, Julius Panero, & Martin Zelnick, Time Saver standards for Interior Design & space planning, 2nd edition, Mc-Graw Hill professional, 2001.

### **1.GP.01                      Drawing Skills-I (Manual and Computer aided)**

**90 Hours**

**Hr/week: - 6**

**Credit:-3**

**Marks: - 75**

#### Objective

Introduction to graphical language and representation techniques in form of technical drawings to enable learner to visualize the design in effective manner.

#### Contents

MODULE-I 30 Hours COMPUTER SOFTWARES- Introduction to fundamentals of

computer systems, hardware, peripheral devices, operating systems, application software etc in interior practice, understanding and application of MS-Word, Power point, sketch up software etc.

MODULE-II

15 Hours

- Drafting techniques, graphic codes, symbols and architectural lettering
- Architectural scales
- Solid geometry
- Orthographic projections of simple , complex solids and hollow objects, Sections

### MODULE-III

15 Hours

- Isometric and axonometric projections.
- Rendering techniques

### MODULE-IV

30 Hours

- Evaluation Continuous assessment of sessional work should consist of and scaled drawings for geometrical objects, solid geometry and orthographic projections Reports/ presentation and analytical work: Microsoft Word/ Power Point/ Excel. Drawing tools: 2D CAD/ Sketch up basics. Evaluation Continuous assessment of sessional work consists of sketches and scaled drawings etc.

Faculty ratio: One teacher per fifteen students.

Note: The students are expected to acquire necessary skills by pursuing a course in the vacation to enhance skill development in handling softwares.

Reference Books: 1. Stephen Kliment, Architectural Sketching and Rendering: Techniques for Designers and Artists, Watson Guptill, 1984. 2. Ivo.D. Drpic, Sketching and Rendering of Interior Space, Watson- Guptill, 1988. 3. Maureen Mitton, Interior Design Visual Presentation: A Guide to graphics, models and presentation techniques, 3rd edition, wiley publishers, 2007 4. Mogali Delgade Yanes and Ernest Redondo Dominquez, Freehand drawing for Architects and Interior Designers, ww.Norton & co., 2005 5. Francis D.Ching, Design Drawing, Wiley publishers 6. Atkin William W. Corbellent, Raniero and Firore. R. Vincent, Pencil Techniques in Modern Design. 4th ed. Reinhold pub Corporation. New York, 1962. 7. Bately, Claude. Design Development of India Architecture. 8. Bellings, Lance Bowen. Perspective space and Design. 9. Burden, Ernest, Architectural Delineation: A photographic approach to presentation, 2nd ed, McGraw Hill, Inc., New York, 1982. 10. Conli, Claudius. Drawings by Architects.

## Semester-II (LEVEL 5)

### 2.GE.01

### Language

30 Hours

Hr/week:- 2

Credit:-2

Marks: - 50

#### Contents

#### Objective

To enhance verbal and non verbal communication skills of students with an intension to improve the skills of reading and writing, language and conversational ability in various mediums such as presentation (written - graphics and audio) face to face etc. To enable the student to ultimately explain / defend his/her design to single person or panel.

#### Contents

#### MODULE-I

15 Hours

- Verbal and non verbal communication
- Body language and vocalic
- Interpersonal skills
- Analytical writing skills
- Business writing skills
- Technical writing skills

#### MODULE-II

15 Hours

- Presentation skills
- Personal grooming and confidence building
- Debates, Skits, Group discussions

Evaluation Continuous assessment of sessional work may consist of evaluation of individual's writing and presentation skills, project work, power point presentations etc.

Faculty ratio: One teacher per batch.

Reference Books: 1. K K Nelson, F Dubors, Learning to learn, Allyn & Bacon 2. E. H. McGrath, Basic Managerial Skills for all, Prentice hall of India 3. P D Kulkarni & B B Sharma, Independent Study Techniques, TTTI, Chandigarh 4. Elizabeth Hierney, 101 Ways to Better Communication, Kogan Page 5. Malvika Nagarkar, Communication Skills, MSBTE 6. Wren & Martin, English Grammar, Chand Books 7. Burgoon Michael, Human Communication, London: Sage Pub. 8. G Leech & Jan Svartvik, A Communicative grammar of English, ELBS 9. R K Bansal & J B Harrison, Spoken English for India, New York: Mcgraw Hill 10. J D O'Conner, Better English Pronunciation, N Delhi: Orient Longman 11. Technical Communication : A Reader Centered Approach, by Anderson, Thomson Learning 12. Geetha Jajivan, Kiranmai: Course in listening and speaking Skills part I, Foundation Books Pvt Ltd. 13. Lorven: Enrich your communication in English Web Sites: [www.mindtools.com](http://www.mindtools.com)

## 2.GE.02

## History of Design-II

30 Hours

Hr/week:-2

Credit:-2

Marks: - 50

### Objective

To create awareness of History as an aid to design process.

### Contents

MODULE-I 15 Hours English furniture from 16th to 18th century. Tudor, Stuart,

Jacobean, Restoration

period, Queen Ann period, Gregorian period, Chippendale, Sheraton.

Beginning of 19th century industrialization.

Victorian Era in England, Art and Craft movement in design.

Art Nouveau movement in art and furniture. Art movements before and after world wars.

### MODULE-II

15 Hours

Cubism of Picasso, De-stijl movement.

Bauhaus school of Design and its impact on modern design.

Art Deco movement.

Oriental furniture and how it is different from western counterparts. Furniture of Japan and China.

Indian furniture, traditional and colonial.

Evaluation Continuous assessment of sessional work may consist of project work, sketch books, power point presentations etc.

Faculty ratio: One teacher per batch

REFERENCES: 1. John F. Pile, A history of interior design, 2nd edition, Laurence King Publishing, 2005. 2. Jeannie Ireland, History of Interior Design, air child publications, illustrated ed., 2009. 3. Elaine, Michael Dywer, Christopher Mackinnon, Norman A. J. Berisford Denby , A History of Interior Design, Rhodoc International, 1983. 4. Giedion Sigfried, Space, Time and Architecture: The growth of a new tradition, 4th ed. Harvard University Press, Cambridge, 1962. 5. Tadjell Cristopher, The History of Architecture in India: From the dawn of civilization to the End of the Raj , Om Book Service, New Delhi, 1990. 6. Rowl Benjamin. Art and Architecture of India.

**2.GE.03****Construction, Materials and Services- II****120 Hours****Hr/week: - 8****Credit:-4****Marks: - 50****Objective**

Introduction to the principles of Electrification and lighting to enable learner design appropriate service layout.

To equip the learner with various systems of partitioning and paneling with appropriate means of construction, assembly and joinery through detailed working drawing and to make student aware of future trends in furniture design.

**Contents****MODULE-I****15 Hours**

Partition Systems: Wooden framed fixed partition with single/double skin, Aluminium

framed Partition, Dry wall partition systems, Full glass partition with architectural hardware.

Wall Cladding and Paneling: Wet and Dry wall cladding in different materials, Wall paneling in different materials.

**MODULE-II****15 Hours**

Modular furnitures: Introduction to modular furniture, analyzing the need and criteria for selection, materials used and constructional details.

Artificial stones, semi-precious stones

Paints, polishes,

Ferrous and non-ferrous metals,

Plastics and Polycarbonates.

Floor coverings and furnishings

**MODULE-III 15 Hours** For all the above mentioned materials a basic understanding of the market research and current trend analysis will be cumulated through Market Research and Presentations by students there upon. Evaluation Continuous assessment of sessional work may consist of project work, sketch books, power point presentations, market surveys, research work etc

**MODULE-IV****15 Hours**

Introduction to electrical systems as applicable to interior spaces.

Electrical system designs including materials, specifications and types.

Basic introduction to fire fighting.

Learning electrical layouts, symbols etc.

Types residential lighting, fittings, fixtures and switches.

Introduction to automation in lighting industry.

Basic introduction to security systems.

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Faculty ratio: One teacher per fifteen students.

#### Evaluation

- Continuous assessment of sessional work should consist of scaled drawings for partitions, cladding and paneling systems.
- Assessment of topic modular furniture to be assessed in form of sketches, visit reports, journals, power point presentations etc.

Faculty ratio: One teacher per twelve students. .

#### REFERENCES:

1. Bindra, S.P. and Arora, S.P. Building Construction: Planning Techniques and methods of Construction, 19th ed. Dhanpat Rai Pub., New Delhi, 2000. 2. Moxley, R. Mitchell's Elementary Building Construction, Technical Press Ltd. Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House Anand, 2004. 3. Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2000 4. Electrical wiring and contracting (vol. 1 to vol.4), London. The New era Publishing Company. 5. Dr Frith Abnwos and others, Electrical Engineering hand book. 6. William . J. Guinness, Mechanical and Electrical Systems for Buildings, New York : Mc Graw Hill. 7. Faber, Oscar and Kell, J.R. Heating and Air conditioning of Building. Architectural Press, surrey, 1945.

## **2.GE.04**

### **Basic and Interior Design-II**

**60 Hours**

**Hr/week: - 4**

**Credit:-4**

**Marks: - 50**

#### Objective

Evolving further from course content of semester 1, the focus of study shall be based on application of the observational and creative skills to Design and planning process

#### Contents

In this semester the learner is expected to enhance their skills by application of design concept and/or theme to residential interior space and small retail space by understanding the usage of basic materials and construction.

MODULE-I 15 Hours Interplay of planning principles like balance, harmony, rhythm etc

- 
- Study and application of anthropometry and ergonomics as a tool to understand aesthetic and functional concepts of design.

#### MODULE-II

15 Hours

- Concepts of evolving technology and space modulation

□ History, styling and theme based designs Evaluation Continuous assessment of sessional work may consist of sketches, drawings, study model in various materials, journals, visit reports, power point presentations etc.

### MODULE-III

15 Hours Designing a medium

□size residential spaces (Master Bedroom not less than 18.00 sq.mts with Attached Toilet not less than 5.00 sq.mts & Childrens Bedroom not less than 18.00 sq.mts).

□ Study and application of anthropometry, ergonomics, design principles and components related to retail spaces.

MODULE-IV 15 Hours The design exercise may include small retail spaces such as Garment Boutique, mobile stores, Accessories store, small Café etc. (not exceeding 30.00 sq.mts.) All specified areas are Carpet Areas.

Evaluation Continuous assessment of sessional work may consist of sketches, scaled drawings study models in various materials, case studies, visit reports, power point presentations etc.

Design portfolio should consist of Project Brief, Client profile, Theme Sheet, Measurement Plan/, Furniture Layout Plan/ Flooring Layout/ Reflected Ceiling Layout/ Basic Electrical Layout, Sectional Elevations.

Faculty ratio: One teacher per fifteen students.

Note: Six hours studio shall not be at a stretch.

REFERENCES: 1. Karlen Mark, Space planning Basics, Van Nostrand Reinhold, New York, 1992. 2. Joseph D Chiara, Julius Panero, & Martin Zelnick, Time Saver standards for Interior Design & space planning, 2nd edition, Mc-Graw Hill professional, 2001. 3. Francis.D. Ching & Corky Bingelli, Interior Design Illustrated, 2nd edition, Wiley publishers, 2004. 4. Julius Panero & Martin Zelnick, Human Dimension & Interior Space : A source book of Design Reference standards, Watson – Guptill, 1979. 5. Karlen Mark, Kate Ruggeri & Peter Hahn, Space Planning Basics, Wiley publishers, 2003. 6. Meiss, pierre Von. Elements of Architecture: Form to place, E and FN Spon, London, 1992. 7. Pipes, Alan. Drawing for 3-Dimensional Design. Thames and Hudson Ltd., London, 1990. 8. Smithies, K.W. Principles of Design in Architecture. Chapman and Hall, 1983. 9. Wucius, Wong. Principles of two Dimensional Design. Van Nostrand Reinhold 1972.

## 2.GP.01

## Drawing Skills-II (Manual and Computer Aided)

90 Hours

Hr/week: - 6

Credit:-3

Marks: - 75

### Objective

The learner will be introduced to the basic principles of perspectives and sciography and its application to the field of interior design and drawings.

### Contents

#### MODULE-I

15 Hours

- Sciography of two dimensional objects in plan and elevation.
- Sciography of three dimensional objects in plan, elevation and views

#### MODULE-II

15 Hours

- Basic terms, principles, types and techniques of perspective
- One, two and three point perspective of simple interior elements (drafted and free hand)
- Presentation of interior views (drafted and free hand) with pencil and colour rendering

#### MODULE-III

30 Hours COMPUTER

- SOFTWARES- Introduction to fundamentals of computer systems, hardware, peripheral devices, operating systems, application software etc in interior practice, understanding and application of MS-Word, Power point, sketch up software etc.

Reports/ presentation and analytical work: Microsoft Word/ Power Point/ Excel.  
Drawing tools: 2D CAD/ Sketch up basics. Evaluation Continuous assessment of sessional work consists of sketches and scaled drawings etc.

MODULE-IV 30 Hours Evaluation Continuous assessment of sessional work should  
 consist of and scaled

drawings for geometrical objects, solid geometry and orthographic projections

Reports/ presentation and analytical work: Microsoft Word/ Power Point/ Excel.  
Drawing tools: 2D CAD/ Sketch up basics. Evaluation Continuous assessment of sessional work consists of sketches and scaled drawings etc.

Faculty ratio: One teacher per fifteen students

REFERENCES: 1. N.D. Bhatt, Engineering drawing- Plane & Solid Geometry, Charottar Pub. Anand, Gujrat 2. S. C. Rein Koff, Interior Graphics and Design Standards, Whitney Library, New York 3. Robert W. Gill, The Thames and Hudson Manual of Rendering with pen and ink, Thames & Hudson ltd. London 4. Graphic Shaw, Interior Perspectives to Architectural Designs 5. Shankar Mulik, A Text Book of perspectives and graphics, Allied Pub. Bombay 6. F D K Ching, Perspective Drawing

## Semester-III (LEVEL 6)

### 3.GE.01

### Communication skills -II

30 Hours

Hr/week:-2

Credit:-2

Marks: - 50

#### Objective

To develop in learner skills of critical appreciation and analysis of design, sharpen convincing skills, oratory skills and develop effective communication in context to interior design profession.

#### Contents

##### MODULE-I

15 Hours

- Voice culture, vocalic and body language
- Analysis and describe interior work carried out any professional designer.

##### MODULE-II

15 Hours

- Preparing and presenting verbal explanation of his own design and concept.
- Review of design related articles.
- Debates, discussions

The Subject in this semester teaches students about the critical analysis and appreciation of the design. This enhances the power of convincing. The student starts giving reason for his likes & dislikes. All this will ultimately result in to a good verbal explanation of the design & the concept.

Evaluation Continuous assessment of sessional work may consist of project work, power point presentations etc.

Faculty ratio One teacher per batch.

REFERENCES: 1. Write better, speak better ( Reader's digest Publication) 2. Building your Vocabulary – John G. Gilmartin 3. Instant Vocabulary – Gopal K. Puri. 4. Contemporary English Grammer, Structure & Composition. David Green (Macmillan& Co Ltd.) 5. Tiger's Eye – Alan Mc Connell Duff. (Oxford University Press) 6. J. D. O. Connor UBS Better English Pronunciation. 7. Dianna Booher – Ewriting - 21st century, Tools for effective communication pocket books. Sinon & Schuster inc. JSBN – O 7434-1258-3 8. Ashi Hi Inragi ( Marathi) Prof. N. D. Apte Rajhans Prakashan Pune. 9. Osborn Michael/ Osborn Suzane. Public Speaking, Biztantra, New Delhi. 10. Durodula Sahrolyn P. Learn Reading- Anmol Publications Pvt. Ltd., New Delhi. 11. Narula Uma, Business Communication Practices-Modern Trends, Atlantic Publishing House, Mumbai. 12. Kumar Keval. J, Mass Communication In India, Jaico Publishing House, Mumbai. 13. Information and Communication Technology by Abdul Mannan Himalaya Publishing House, Mumbai.

### 3.GE.02

### Professional Practice

**30 Hours**

**Hr/week:-2**

**Credit:-2**

**Marks: - 50**

#### Objective

In this semester the learner will be equipped with knowledge and skills needed such as estimating, costing, analyzing rates and processes of tendering for practicing profession of Interior Architecture.

#### Contents

##### MODULE-I

15 Hours

ESTIMATING, COSTING AND ANALYSING RATES (To be taught as consulting interior designer and not as a turnkey.)

- Introduction to concept of estimation, costing and rate analysis. Need for estimating, costing and rate analysis.
- Components of estimation, costing and analyzing rates (drawings and specifications, units and modes of measurements, work output, material and labour cost, contingencies, professional fees, indirect costs etc.
- Methods of estimating (lump-sum, work specific, item rate etc.); costing (percentage basis, item rate basis etc) and rate analysis (item rate basis).

Note: Students are also expected to visit exhibitions, material manufacturers units, ongoing interior sites, attend seminars and presentations of consultants and vendors related to interior profession.

##### MODULE-II

15 Hours

TENDER AND TENDERING

- Introduction, definitions and Tender types.
- Tendering Procedure: Tender document preparation, types of invitation (public notice, private invitation and negotiation), floating of tender, opening and award of tender.
- Aspects of Tender: Units of measurement and modes of measurements; specifications of raw material (introduction only), schedule writing.
- Contents of Tender Document: Undertaking from contractor, prequalification of tender, general and special conditions of tender, bill of quantities, general specifications, material specification, special specification, set of working drawings.
- Contractual Procedures: Work order letter and acceptance letter, Interim bills and final bills, bills certifications.

Faculty ratio One teacher per thirty students.

REFERENCES: 1. Roshan Namavati, Professional Practice (Estimation & Valuation), Lakhani Book depot 2. Roshan Namavati, Architectural Detailing in Residential Interiors, Lakhani Book depot 3. C M Pitrowski, Professional Practice in Interior Design, Van Nostrand Reinhold 4. Harry Siegel, CPA, Alan Sigel, A Guide to Business Principle and Practices for Interior Designers, Whitney library of design. 5. William R.

Hall, Contract Interior Finishes, Whitney library. 6. William Rupp, Construction Materials of Interior Design, Whitney Library.

### **3.GE.03 Construction, materials and services -III**

**120 Hours**

**Hr/week:-8**

**Credit:-4**

**Marks:- 100**

#### **Objective**

To equip the learner with various structural systems, Floor system, Roofing systems and means of construction, assembly and joinery through detailed working drawings. Introduction of advanced materials and products that are used in Interior and Architecture in the current day and age. Knowledge of these materials and their implementation will help in the enhancement and upliftment of projects. It will also cater to the specific use of products keeping in mind the final utilization and precautionary measures that need to be consciously considered while designing. To give an overview of concept and principles of natural and mechanical ventilation and air conditioning.

#### **Contents**

**MODULE-I 30 Hours Structural Systems: Introduction to different structural systems for**

buildings:- Load

bearing brick/stone masonry - its application in interior field. RCC frame structure with column, beam, slab, cantilevers etc. – its application in interior field. Steel framed construction with different rolled sections - its application in interior field.

Floor Systems: Single floor in wood and steel with different floor finishes. Introduction to double floor in steel.

**MODULE-II**

**30 Hours**

Stairs: Single flight wooden staircase and dog-legged RCC, metal staircase. Principles of steel spiral stairs.

Roofing Systems: Pitch roof/lean-to roof in steel with coated metal sheets, colour clay tiles and water proofing of flat terrace and toilet.

Materials and techniques used for water-proofing.

Fire retardant materials and their applications.

Thermal insulating materials and their applications.

Outdoor and infrastructural products used as substitutes in today's times.

**MODULE-III**

**30 Hours**

Introduction to HVAC.

Principles of thermal comfort parameters for humans.

Principles of natural ventilation.

Heat load calculations.

Introduction to air conditioning systems (at least few lectures should be given by AC agency), methods of air conditioning, equipment and components used in air conditioning.

#### MODULE-IV

30 Hours

- Selection criteria for air conditioning systems.
- Ducting principles, layout schemes and placement of air conditioner outlets in central air conditioning systems.
- Mechanical ventilation and its application.
- Introduction to Acoustics and its application to interiors.

Evaluation Continuous assessment of sessional work should consist of drawing plates, journals, visit reports, sketch books, power point presentations etc. Self study module.

Faculty ratio: One teacher per fifteen students.

#### References

1. Joseph De Chaira Jullius Panero Martin Zelnik, Time Saver Standard for Interior Design & Space Planning, Mcgraw Hill New York
2. John Pile, Interior Design, Harry N. Adry Publishers
3. Ahmed Kasu, Interior Design, TWAINE Pub. Bombay
4. Jullius Panero Martin Zelnik, Human Dimensions and Interior Spaces, Whitney Library New York
5. Phillis Sleen Allen, Beginning of Interior Environment, New York
6. Shirish Bapat, Basic Design of Anthropometry, Bela books Publishers
7. Shirish Bapat Living Area (Interior Space) Bela books Publishers
8. Francis D K Ching, Interior Design Illustrated, Van Norstrund, New Delhi
9. V. S. Parmar, Design Fundamental in 1st architecture, Somaiya Pub. Pvt. Ltd.
10. Francis D. Ching, Building Construction Illustrated, Wiley publishers, 2
11. Madan Mehta & James Johnson, Architectural Acoustics, Principles and Design
12. Frank and John Walk, Noise and vibration, British Library Cataloguing in Publication Data

### **3.GE.04**

### **Basic and Interior Design -III**

**135 Hours**

**Hr/week: 9**

**Credit:-4**

**Marks: - 100**

#### Objective

Evolving further from course content of semester 2, the focus of study shall be based on application of the observational and creative skills to Design and planning process.

The learner is expected to apply advanced skills to planning of residential interior spaces with clear understanding and usage of contemporary materials, construction techniques and services required for the design project. Study and application of anthropometry, ergonomics, basic design principles and components related to hospitality environment.

## Contents

### MODULE-I

30 Hours

- Interplay of planning principles like balance, harmony, rhythm etc in 3 Dimension Models / Sculptures to understand the evolution of three dimensional forms from two

dimensional shapes.

MODULE-II 15 Hours Additive model with similar forms and dissimilar forms made out of various

mediums/materials.

- Subtractive model out of a given geometric form. Models with linear members such as match sticks, reeds, etc. to understand geometric form and structure.

MODULE-III 60 Hours Design of Studio Apartment of Small or medium size not

- exceeding 50.00 sq.mts.

(Carpet Area)

- Large multilevel luxury residence such as a Penthouse, Bungalow etc. (Carpet Area between 200.00 to 300.00 sq.mts)

### MODULE-IV

30 Hours

Evaluation Continuous assessment of sessional work may consist of sketches, perspective drawings, scale drawings(, study models in various materials, case studies, visit reports, power point presentations etc.

Making Final Design portfolio, which should consist of Project Brief, Client profile, Theme Sheet, Measurement Plan/ Furniture Layout Plan/ Flooring Layout/ Reflected Ceiling Layout/ Electrical Layout/ Lighting Layout, Sectional Elevations/ Perspective Views). Self study module.

Faculty ratio: One teacher per fifteen students.

Note: Six hours studio shall not be at a stretch.

REFERENCES: 1. Karlen Mark, Space planning Basics, Van Nostrand Reinhold, New York, 1992. 2. Joseph D Chiara, Julius Panero, & Martin Zelnick, Time Saver standards for Interior Design & space planning, 2nd edition, Mc-Graw Hill professional, 2001. 3. Francis.D. Ching & Corky Bingelli, Interior Design Illustrated, 2nd edition, Wiley publishers, 2004. 4. Julius Panero & Martin Zelnick, Human Dimension & Interior Space : A source book of Design Reference standards, Watson – Gupitill, 1979. 5. Maureen Mitton, Interior Design Visual Presentation: A Guide to Graphics, Models, and Presentation Techniques. John Wiley and Sons, 2003 6. Mark.W. Lin, Drawing and Designing with Confidence: A step-by-step guide, Wiley and Sons, 1993. 7. Robert Rengel, Shaping Interior Space, Fairchild Books & Visuals ,2002 8. Marjore Elliott Bevin, "Design through Discovery", Holt Rinehart and Winton,NewYork,1977. 2. George A Covington & Bruce Hannah," Access by Design", Van Nostrand Reinhold,1996

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### 3.GP.01

## Furniture and Accessory design –I (Manual and Computer Aided)

90Hours

Hr/week: - 6

Credit:-3

Marks:- 75

#### Objective

In this semester the learner is expected to prepare working drawing and details of Residential furniture systems using various materials such as wood, plywood, block boards, artificial boards, metal, glass, stone etc in various finishes. The learner is suggested to prepare working drawing and related details of the following furniture designed by them in the previous semesters.

#### Contents

MODULE-I 30 Hours Working drawing of the following may be prepared based on the design projects done in Sem.-I & II 1. Dining Table with Chair in wood. 2. Study table

3. Shoe rack with louvers. 4. Double Bed with head board and Side Tables in plywood and wood. 5. His and Her wardrobe in plywood as basic material.

#### MODULE-II

30 Hours

6. Wall unit / Partition divider 7. Built-in Kitchen Platform / platform shutters / trolleys.

8. Staircase railing in metal or glass.

Designing and detailing of innovative accessories.

#### MODULE-III

30 Hours

Needs and tools for design and drafting.

Preparation of two dimensional interior drawings (including plans, elevations and sections), incorporating layers, line-weights, texts, scale, dimensioning

Formatting of drawings for taking prints and plots.

Note: Continuous assessment of sessional work may consist of Computer generated drawing, journals, visit reports, sketch books, power point presentations etc.

Faculty ratio: One teacher per fifteen students.

REFERENCES: 1. F D K Ching, Building Construction Illustrated, Van Nortrand 2. William P. Spence L. Duane Griffith, Furniture & Cabinet Construction, Prentice Hall Inc. New Jersey 3. Mario Dal Fabro, How To Build Modern Furniture, McGraw Hill Book Company, New York. 4. William P. Spence L. Duane Griffith, Cabinet making, design & construction, Prentice Hall Inc. New Jersey 5. D.A.C.A. Boyne, Architects' Working Detail Vol. I/ III/ IV/ V & VIII, The Arch. Press Ltd. London

## Semester-IV (LEVEL 6)

**4.GE.01**

### Communication skills -III

**30 Hours**

**Hr/week:-2**

**Credit:-2**

**Marks:- 50**

#### Objective

To develop in learner skills of critical appreciation and analysis of design, sharpen convincing skills oratory skills and develop effective communication in context to interior design profession.

#### Contents

MODULE-I 15 Hours Designing message outline – organizing ideas determining the  
 general and specific  
purpose of communication implementing principal of written communication messages ,  
analyzing the recovery of written messages , context etc .  
 Writing topic: sentences paragraph function paragraph summary, information text etc.  
 Drafting report: Shorts reports concepts and contents of long reports effective  
sentence construction, punctuation, and presentation of the text.

#### MODULE-II

15 Hours

Developing public speaking skills.

Evaluation Continuous assessment of sessional work may consist of project work, sketch books, power point presentations etc.

Faculty ratio One teacher per batch.

Reference Books: 1. Write better, speak better ( Reader’s digest Publication) 2. Building your Vocabulary – John G. Gilmartin 3. Instant Vocabulary – Gopal K. Puri. 4. Contemporary English Grammer, Structure & Composition. David Green (Macmillan & Co Ltd.) 5. Tiger’s Eye – Alan Mc Connell Duff. (Oxford University Press) 6. J. D. O. Connor UBS Better English Pronunciation. 7. Dianna Booher – Ewriting - 21st century Tools for effective communication pocket books.Sinon & Schuster inc. JSBN – O 7434-1258-3 8. Ashi Hi Inragi ( Marathi) Prof. N. D. Apte Rajhans Prakashan Pune. 9. Osborn Michael/ Osborn Suzane. Public Speaking, Biztantra, New Delhi. 10. Durodula Sahrolyn P. Learn Reading- Anmol Publications Pvt. Ltd., New Delhi. 11. Narula Uma, Business Communication Practices- Modern Trends, Atlantic Publishing, House, Mumbai. 12. Kumar Keval. J, Mass Communication In India, Jaico Publishing House, Mumbai. 13. Information and Communication Technology by Abdul Mannan Himalaya Publishing, House, Mumbai.

## 4.GE.02

## Business Management

30 Hours

Hr/week:-2

Credit:-2

Marks: - 50

### Objective

In this semester the learner will be equipped with knowledge and skills needed such as management of office along with current practices, codes of conduct required to enhance skills and techniques of managing small and large scale residential and commercial interior projects.

### Contents

#### MODULE-I

15 Hours

#### CAREER OPPORTUNITIES AND PROFESSIONAL ETHICS Avenues

|| for professional practice including advantages and limitations

|| Professional Ethics

|| Codes of conduct and responsibility towards clients, fellow professionals, profession, contractors, suppliers, other consultants and the society.

□ Entering the profession.

#### MODULE-II

15 Hours

#### OFFICE AND INTERIOR PROJECT MANAGEMENT

□ Working of interior design studio and ideal office structure, distribution of work, authority, duties and responsibilities, reporting etc.

□ Work ethics: Acts applicable, basis for professional fees and scales of fees, accounting, maintenance of books of accounts and records□ Basic principles of management and application to interior designing projects□ Introduction to Bar Charts, Gantt Chart, PERT / CPM.

Students are also expected to visit exhibitions, material manufacturers units, ongoing interior sites, attend seminars and presentations of consultants and vendors related to interior profession.

Faculty ratio One teacher per thirty students.

REFERENCES: 1. Gupta C.B, and Srinivasan N.P, Entrepreneurship development in India, Sultan Chand & Sons, New Delhi, 2004. 2. Chunawalla S.A, Sales Management, Himalayan Publishing House, New Delhi, 1991. 3. Vasant Desai, Project Management and entrepreneurship, Himalaya Publishing House, New Delhi, (2000). 4. David H.Moll, Entrepreneurship, Prentice Hall of India, New Delhi, 1999. Frank Jerkins, Advertising, Prentice Hall of India, New India, 2000.

## 4.GE.03

## Working drawing-I and services -IV

120 Hours

Hr/week:- 8

Credit:-4

Marks:- 100

### Objective

To equip the learner with various partitioning systems, false ceiling systems, false floors and means of construction, assembly and joinery through detailed working drawings. The learner will be introduced to the principles of lighting, heating, ventilation and conditioning of air as applicable interior spaces.

### Contents

MODULE-I 30 Hours Advance Partition Sliding folding partition in metal and glass.

- Thermal/Acoustical partition and Systems
- Paneling in metal frame finished in various materials, movable partitions

MODULE-II

30 Hours

- False Ceiling : Concepts Systems: Gypsum board ceiling, modular ceiling systems in various materials.
- Raised flooring Systems: Raised floor for commercial spaces and I.T. rooms.

MODULE-III 30 Hours Evaluation Continuous assessment of sessional work may consist of cad generated drawings, journals, visit reports, sketch books, power point presentations etc. Self study, Market survey, field visit etc.

MODULE-IV 30 Hours Illumination standards and artificial lighting design and

|| lighting power density. Day light integrated lighting systems, timers and sensors.

||

|| Different types of illuminations.

- Study of lighting fixtures and fittings used in interior spaces, special lighting systems for malls or displays.
- Provisions of standards and energy codes related to interior electrical services.
- Automation in lighting industry

Faculty ratio One teacher per fifteen students.

REFERENCES: 1. Joseph De Chaira Jullius Panero Martin Zelnik, Time Saver Standard for Interior Design & Space Planning, Mcgraw Hill New York 2. John Pile, Interior Design, Harry N. Adry Publishers 3. Ahmed Kasu, Interior Design, TWAINE Pub. Bombay 4. Jullius Panero Martin Zelnik, Human Dimensions and Interior Spaces, Whitney Library New York 5. Phillis Sleen Allen, Beginning of Interior Environment, New York 6. Shirish Bapat, Basic Design of Anthropometry, Bela books Publishers 7. Shirish Bapat Living Area (Interior Space) Bela books Publishers 8. Francis D K Ching, Interior Design Illustrated, Van Norstrund, New Delhi 9. V. S. Parmar, Design Fundamental in 1st architecture, Somaiya Pub. Pvt. Ltd. 10. Francis D. Ching, Building

Construction Illustrated, Wiley publishers, 2 11. John.F. Pile, Interior Design, 2nd edition, illustrated, H.N.Abrams, 1995. 12. Wanda jankowski, Lighting : In Architecture and Interior Design, pbc intl, 1995. 13. Moore Fuller, Concepts and practice of Architectural Day lighting, Van Nostrand Reinhold co., New York, 1985. 14. David Egan. M. Concepts in Architecturallighting Mcgraw Hill Book company, New York, 1983.

#### **4.GE.04**

#### **Basic and Interior Design -IV**

**135 Hours**

**Hr/week: - 9**

**Credit:-4**

**Marks: - 100**

##### Objective

In this semester the learner is expected to apply individual professional design acumen with enhanced skills of planning interior spaces related to commercial activity with use of ecofriendly materials and practices. Learner will provide due emphasis to the relationship of space to the contextual environment, achieving individual interpretations through client profiling, case studies and framing of requirements. The subject further explores application of advanced knowledge to materials used, construction techniques, modular furniture and services.

The focus of study shall be based on application of the observational and creative skills to Design and planning process

##### Contents

MODULE-I 45 Hours Interplay of planning principles like balance, harmony, rhythm etc  
|| in 3 Dimension Exercises to understand the relationship between form and function.

|| Study and

analysis of a few common household articles.

##### MODULE-II

30 Hours

□ Study and design of a few utility sculptures: Exercises on the study and application of anthropometrics information. Detail study of a single room with activity -space analysis, circulation pattern and furniture layout.

Detail study of a small building with activity - space analysis, circulation pattern and furniture layout. Reorganisation of an existing space / room for a given activity (which is different from the existing use). Design of space meant for single or multiple function

MODULE-III 30 Hours The assignment may include large commercial projects like

□ corporate office of a

Multi National corporation.

OR

□ Designing activity based small to medium sized Public spaces such as Art Gallery, Convention centers, Multiplexes etc.

OR

□ SPA/ Saloon/ Therapy Centre

OR

Theme Dine Restaurant. NOTE: The carpet area of the project should not be less than, 300.00 sq.mts.

Designing and detailing of the project chosen.

MODULE-IV 30 Hours Evaluation Continuous assessment of sessional work may consist of sketches, cad generated drawings, study models in various materials, case studies, visit reports, power point presentations etc.

Design portfolio should consist of Project Brief, Client profile, Theme Sheet, Measurement Plan/ Furniture Layout Plan/ Flooring Layout/ Reflected Ceiling Layout/ Electrical Layout/ Lighting Layout, Sectional Elevations/ Perspective Views). Computer Aided Drawings are expected in this Semester.

Faculty ratio: One teacher per fifteen students.

## **4.GP.02 Furniture and Accessory design –II (Manual and Computer Aided)**

**90 Hours**

**Hr/week:-6**

**Credit:-3**

**Marks: - 75**

Objective

In this semester the learner is expected to prepare working drawing and details of Residential furniture systems using various materials such as wood, plywood, block boards, artificial boards, metal, glass, stone etc in various finishes. The learner is suggested to prepare working drawing and related details of the following furniture designed by them in the previous semesters.

MODULE-I 30 Hours Working drawing of the following may be prepared based on the design projects done in Sem.- III and IV

1. Executive Desk with side / back credenza. 2. Reception Counter 3. Conference Table  
4. Shop front / Show window 5. Bank Counter/Ticket booking Counter 6. Bar Counter/Pantry Counter

MODULE-II 30 Hours 7. Modular furniture systems 8. Furniture for differently abled

Evaluation Continuous assessment of sessional work may consist of Computer generated drawings, journals, visit reports, sketch books, power point presentations etc.

MODULE-III

30 Hours

Software applications

Plotting techniques

Faculty ratio One teacher per fifteen students.

REFERENCES: 1. F D K Ching, Building Construction Illustrated, Van Nortrand 2. William P. Spence L. Duane Griffith, Furniture & Cabinet Construction, Prentice Hall Inc. New Jersey 3. Mario Dal Fabro, How To Build Modern Furniture, McGraw Hill Book Company, New York. 4. William P. Spence L. Duane Griffith, Cabinet making, design & construction, Prentice Hall Inc. New Jersey 5. D.A.C.A. Boyne, Architects' Working Detail Vol. I/ III/ IV/ V & VIII, The Arch. Press Ltd. London



## Semester-V (LEVEL 7)

### **5.GE.01                      Research methodology and presentation skills**

**60 Hours**

**Hr/week: - 4**

**Credit:-2**

**Marks: - 50**

#### Objective

The study of the subject aims to understand the fundamentals of theoretical aspects of studying interior spaces based on varying situations and conditions as part of research, with reference to its objectives and its essential methodologies. Learner should be able to do documentation and data collection, critical analysis and evaluation. To develop an attitude for Critical Thinking and various aspects to study and analyze, Assessment, dispositions, skills and abilities and obstacles or barriers to critical thought . Evaluation Continuous assessment of sessional work may consist of project work which will assist the learner in the preparation of his/her Design Dissertation Report.

Faculty ratio: One teacher per batch.

### **5.GE.02                      Entrepreneurship**

**60 Hours**

**Hr/week: - 4**

**Credit: - 4**

**Marks: - 100**

#### Objective

To equip the students with the knowledge and understanding about entrepreneurship to become self-entrepreneur

MODULE- I 15 Hours Introduction to Entrepreneurship: Definition, Concept and Need for entrepreneurship, and types of entrepreneurs.

MODULE- II 15 Hours To teach the students to research in the industry and the market, planning from entry to exit, location for business, exploring management, selecting a business Entity

MODULE- III 15 Hours To equip the students to create and understand financial planning, develop operating and control system.

The business plan creating the road map

MODULE- IV 15 Hours Codes of conduct and responsibility towards clients, fellow professionals, profession, contractors, suppliers, other consultants and the society. Entering the profession.

To equip the students with the knowledge and understanding about entrepreneurship to become self-entrepreneur.

### 5.GE.03

### Working drawing-II and services -V

120 Hours

Hr/week: - 8

Credit:-3

Marks: - 75

#### Objective

To equip the learner with various partitioning systems, false ceiling systems, false floors and means of construction, assembly and joinery through detailed working drawings. In this semester the learner is expected to understand the basic planning and working the following Interior small Lifts Conveyer Belts Escalators

#### Contents

##### MODULE-I

30 Hours

Advance Partition Sliding folding partition in metal and glass. Thermal/Acoustical partition and Systems.  
Paneling in metal frame finished in various materials, movable partitions

##### MODULE-II 30 Hours False Ceiling : Concepts Systems: Gypsum board ceiling,

modular ceiling systems in various materials.

Raised flooring Systems: Raised floor for commercial spaces and I.T. rooms.

Evaluation Continuous assessment of sessional work may consist of cad generated drawings, journals, visit reports, sketch books, power point presentations etc.

##### MODULE-III 30 Hours Introduction to the principles of communication, safety and security systems as applicable to interior spaces. They will be dealt with the following topics in detail:-

Types of communication- data, telephone systems and their usage and application, server rooms.

Fire safety systems – fire fighting provisions, types and applications.

Fire retarding materials, fire rated doors etc.

Introduction to principles of security, types of security systems, access control and its applications.

CCTV

##### MODULE-IV 30 Hours Evaluation Continuous assessment of sessional work may consist of sketches, cad

generated drawings, study models in various materials, case studies, visit reports, power point presentations etc.

Self study and research work.

Faculty ratio: One teacher per fifteen students.

REFERENCES: 1. Joseph De Chaira Jullius Panero Martin Zelnik, Time Saver Standard for Interior Design & Space Planning, Mcgraw Hill New York 2. John Pile, Interior Design, Harry N. Adry Publishers 3. Ahmed Kasu, Interior Design, TWAIN Pub. Bombay 4. Jullius Panero Martin Zelnik, Human Dimensions and Interior Spaces, Whitney Library New York 5. Phillis Sleen Allen, Beginning of Interior Environment, New York 6. Shirish Bapat, Basic Design of Anthropometry, Bela books Publishers 7. Shirish Bapat Living Area (Interior Space) Bela books Publishers 8. Francis D K Ching, Interior Design Illustrated, Van Norstrand, New Delhi 9. V. S. Parmar, Design Fundamental in 1st architecture, Somaiya Pub. Pvt. Ltd. 10. Francis D. Ching, Building Construction Illustrated, Wiley publishers, 2

## **5.GE.04**

## **Electives**

**45 Hours**

### Contents

#### MODULE-I

15 Hours

The topic for elective courses shall be developed by individual colleges based on the current trends in the practice and availability of resource persons. However, few topics are suggested for the elective course.

1. Interior Lighting 2. Interior Landscape 3. Sustainable Interior 4. Interior Project Management 5. Set Design 6. Furniture Design 7. Product Design

MODULE-II 15 Hours Continuous assessment of sessional work may consist of project work, sketch books, power point presentations, market surveys, research work etc .

MODULE-IV 15 Hours Evaluation Continuous assessment of sessional work may consist of sketches, cad generated drawings, study models in various materials, case studies, visit reports, power point presentations etc.

Faculty ratio One teacher per elective batch.

## **5.GP.01 Interior Design Dissertation(Manual and Computer Aided)**

**90 Hours**

**Hr/week: - 6**

**Credit: - 3**

**Marks:- 75**

## Objective

In this semester the learner should have a focused individualistic approach towards design as per the brief finalized in consultation with the guide resulting in professionally satisfying presentation of the design that would put to test the individual strength and caliber of the learner. The student has a complete choice for selection of a subject & site. The scale shall be more or less standard for all the students.

**MODULE-I 30 Hours** Evaluation Continuous assessment of sessional work may consist of design developments at various stages in the given time frame as set by the guide/subject coordinator.

Evaluation Continuous assessment of sessional work may consist of design developments at various stages in the given time frame as set by the guide/subject coordinator.

**MODULE-II 30 Hours** At the end of the Semester each learner is required to submit the final finished, rendered drawings to suitable scale with related detailing supplemented with concise Detailed Project Report (40-70 pages, all certified by the guide/subject coordinator and Principal which may be presented for final Viva-voce examination.

## MODULE-III

30 Hours

- Software applications
- Plotting techniques

Learner will be required to apply all the above skills learned during this semester on the design assignments prepared in the previous / current semester and present it for assessment.

Faculty ratio one teacher per eight students.

## SEMESTER – VI (LEVEL 7)

### **6.GE.01            Research paper writing and presentation**

**Weeks: - 15**

**Credit:-12**

**Marks:- 300**

#### Objective

In this semester the learner is expected to enhance their skills of planning with clear understanding and application of functionality, space usage and

Concept/theme, use of contemporary materials, construction techniques and advanced services required for the design project.

#### Contents /Assignments

The design exercise may include large fine-dining restaurant with partly open-air area with due importance to differently abled user(Universal design), for a realistic site.

(Carpet Area not less than 150.00 sq.mts)

OR

Design activity based small to medium sized commercial interior spaces such as branch office of Bank, Branch office of Multi National Corporation etc with due importance to differently abled user.(Universal design).(Carpet Area not less than 150.00 sq.mts)

Evaluation Project work may consist of sketches, scaled drawings, study models in various materials, case studies, visit reports, power point presentations etc. Design portfolio should consist of Project Brief, Client profile, Theme Sheet, Measurement Plan/ Furniture Layout Plan/ Flooring Layout/ Reflected Ceiling Layout/ Electrical Layout/ Lighting Layout, Sectional Elevations/ Perspective Views).

Faculty ratio One teacher per twelve students.

### **6.GP.01            Interior professional practice/Internship**

**Weeks: - 15**

**Credit:-3**

**Marks: -75**

Professional Training: (16 weeks duration) During this semester the learner will have to undergo training outside the institute, in such offices / organizations which will give the learner the necessary opportunity to improve and consolidate his/her knowledge in the interior design profession.

During the practical training period the learner is expected to work in accordance with the discipline of the organization and will have to make progress which will be carefully monitored by the institution. The learner will have to submit the detailed report of the experience gained during the professional training.

Logbooks will have to be maintained by the learner and counter signed by the Head of the organization and also by the professor in-charge.

#### Pro-forma for Professional Training

Academic Year:-

Name of the Student:-

Name of the Organization with address: - Registration Details (if any):-

Date of Joining:-

Date of Leaving:-

Employers Report:-

Brief details of the experience gained by the student stating the nature of work.

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Signature of Employer

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Signature of the Professor In-Charge

**EVALUATION** At the end of the training period, a viva-voce would be conducted on:

1. The experience and the knowledge gained during the period of training.
2. Overall knowledge in the subject of tenders, specifications and rate analysis.

## Staffing Pattern

### 1) Head of Department:

Qualifications :

- M.Arch. / M.Sc.-Interior Design / M.F.A. with specialisation in Interior Design with at least 5 years Industry / Teaching Experience at Degree/ Diploma Level

### 2) No. of full time faculty : 2 + Visiting (for Skill components)

- M.Arch. / M.Sc.-Interior Design / M.F.A. with specialisation in Interior Design
- B.Arch. /B.Sc. in Interior Design or equivalent stream/ B.F.A. with specialisation in Interior Design with 2 years Industry / Teaching Experience at Degree/ Diploma Level
- Diploma in Interior Design (Completed minimum 3 years full time course from recognised institute) with 3-5 years industry or teaching experience at Diploma level.

### 3) No. Of Supporting Staff: 2

1. Studio Assistant : 1
2. Peon : 1