IKG PUNJAB TECHNICAL UNIVERSITY

BACHELOR OF VOCATINAL-(B.VOC)

INTERIOR DESIGN

2022 SCHEME

1ST Semester Study Scheme

TOTAL CREDIT – 22 TOTAL CONTACT HOURS- 24

Course	Course Name	Compone	Con	tact Ho	ours	Total	Marks	Credits	Univ.
Code		nt	L	T	P/ S	inter nal	extern al		Exam
					3	nai	ai		(Hours)
BVID101- 22	Interior Design-I	Skill	1	0	3	60	40	4	04 +Ext Viva Voce
BVID102- 22	Technical Drawing-I	Skill	1	0	2	100	-	3	No Exam
BVID103- 22	Graphics-I	Skill	1	0	1	60	40	2	03
BVID104- 22	Workshop-I	Skill	1	0	1	100	1	2	No Exam
BVID105- 22	Construction & Material Lab- I	Skill	1	0	3	60	40	4	03
BTHU101- 18	Communicative English-I	Generic	2	0	0	40	60	2	03
BTHU102- 18	Communicative Skill Lab-I	Skill	0	0	2	60	40	1	03
HSMC122- 18	Human Value and Professional Ethics	Generic	1	1	0	40	60	2	03
BVID106- 22	Computer Application-I	Skill	1	0	2	60	40	2	No Exam
	TOTAL		9	1	14			22	

27th Dec 2022

Course Code	Course Name	Cont Hou		Total Marks		Credits	Univ.Exam (Hours)
		L	S	INT.	EXT.		
BVID 101-22	Interior Design-I	1	3	60	40	4	04+Ext Viva

Course Objective:

- To get the students interested in and to familiarize them with the basic concepts of Design.
- To develop the ability to translate principle of design into Design solution.

Syllabus:

Introduction, Objectives, Elements, Principles, Scale and proportion in basic design 2D and 3D compositions with basic geometric shapes and forms, color, texture and pattern. Anthropometrics, scale and proportions, followed by exercises- residential spaces with furniture layout.

Course Outcomes:

Understand & will gain a fundamental knowledge of design and its basic principles. Understand the skill required to interpret a work of design and to evaluate, identify and analyze artistic expression of forms.

Understand the relationship between human activities and Space.

Teaching Methodology

Design faculty should encourage and motivate the students for live projects/ case studies of their immediate surroundings. (Identifying design principles and Anthropometrics). Evaluation self Study and Continuous assessment of sessional work in form of sketches, scaled drawings, study models in various materials etc.

Guidelines for Paper Setter

The examiner will set two questions and students are required to attempt any one question. Composition based on internal space planning 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 is expected to present the study through detailed measured drawings and sketches.

Evaluation Methodology

The evaluation is to be done through Viva - voce conducted at the institute level by Internal / External jury members appointed in consultation with the university from the appointed panel list of examiners. The answer sheet shall be retained at the institute after the exam for the viva voce.

- 1. V.S.Pramar, Design Fundamentals in Architecture, Somaiya Publications Private Ltd., New Delhi, 1973.
- 2. Francis D.K.Ching, Architecture Form, Space and Order, Van Nostrand Reinhold Company, New York, 1979.
- 3. Structure in Nature- Strategy for Design Peter Pearce
- 4. Patterns in Nature- Peter Streens

	Course Name	Cor Hor	ntact urs	Total I	Total Marks		Univ.Exam (Hours)
		L	S	INT	EXT.		
BVID102- 22	Technical Drawing - I	1	2	100	-	3	No exam Internal Viva on portfolio

Course Objective: The objective is to make the students familiarize with good drafting and lettering techniques use in making drawings. To gain the basic knowledge for preparing the design drawings by learning about the orthographic projections of simple geometric forms and representation of 3-D & 2-D forms.

Syllabus:

Part-A

- Drafting instrument and their uses. Sheet layout
- Drafting Technique & its principles
- Line Types of Lines and Dimensioning of line
- Lettering free hand & block lettering
- Scales Different types of scale and its uses in the Technical Drawing.

Part-B

Orthographic Projections - Point, Lines, Plane and Solid in simple positions in the First Quadrant. Section of Solids of simple forms-Cube, Cuboid, Pyramid and Cylinder and cone.

Part-C

- Introduction to Isometric projection,
- Introduction to Perspective (On Point and Two Point)

Course Outcomes:

- Gain the comprehensive understanding of the fundamental techniques of technical drawing and its representation.
- Attain the knowledge to visualize the geometrical forms through plans, elevations and sections.

Teaching Methodology

Emphasis should be laid on understanding the concepts through 3D demonstrations of geometrical shapes and forms.

Guidelines for Paper Setter

No Exam. In the end of the semester internal jury Viva-voce to be conducted (the jury comprises of the subject in charge and the HOD nominee)

- 1. Engineering Drawing N.D. Bhatt
- 2. Engineering Graphics K.R. Mohan
- 3. Engineering Drawing R.K. Dhawan

Course	Course	Contact		Total I	Marks	Credits	Univ.Exam
Code	Name	Hou	rs				(Hours)
		L	S	INT.	EXT.		
BVID103-	Graphics-I	1	1	60	40	2	03
22							

Course Objective: The objective is to make the students familiar with visual arts and its basic principles and to explore the potential of Pencil of different grades and Colors as a powerful tool of Graphic Communication.

Syllabus:

(Pencil as tool of drawing)

- Free hand line-work with different strokes/grades in pencil.
- Effect of light and shade on simple geometrical solids and staircase, etc.
- Freehand (proportionate) sketching of human figures, different types of vegetation, different transport modes and buildings etc.
- Sketching with pen and ink of various scenes showing textures of different materials (such as bricks, stones, grass, glass, timber, marble, digital surface, fabric etc.)

(Rendering with color)

- Color Rendering of various scenes such as Mall entrance Scene, Hotel Lobby, café scene, etc.
- Live sketching indoor and outdoor area

Course Outcomes:

- Gain a fundamental knowledge of perspective and proportions of different elements in interior design.
- Understanding the principles of Graphics.

 Achieve a comprehensive understanding of presentation techniques.

Teaching Methodology

Workshops related to pencil rendering will also be organized, highlighting its technique and style. The students must be encouraged to appreciate the natural/man- made landscape and to understand the interrelationship between them.

Guidelines for Paper Setter

Total five questions are to be set and students are required to attempt three questions.

- 1. Graphic Illustrations in Black and White by Jaccueline, Design Press, New York, 1991
- 2. Architectural Rendering, Crowe Philip- Rofovision S.A.Switzerland, 1991
- 3. Rendering with Pen & Ink, Robert W. Gill, Thames & Hudson London, 2008.

Course	Course Name	Coı	ntact	Total Marks		Credits	Univ.Exam
Code		Ho	urs				(Hours)
		L	P	INT.	EXT.		
BVID104-	Workshop - I	1	1	100	0	2	No exam – Internal
22							Viva

Course Objective: The students will gain basic hands-on experience and fundamental knowledge in carpentry and model making.

Syllabus:

- Types of timber, characteristics and sizes.
- Introduction to different tools for carpentry.
- Carpentry –Introducing the techniques of planning, chiseling & different types of timber joints Hotel Lobby, café scene, etc.
- Preparation of wooden base for model making
- Prepare a Working block model and use different furniture with card board/mount board/sun board etc. to complete the same (practice minimum 3 scales and different materials)
- Form Work Use of Clay, Brick and Soap for creating three dimensional forms in space.
- Brick Masonry Small brick masonry construction models for understanding of various bonds, jallies etc.

Course Outcomes:

- Gain the basics knowledge of the carpentry tools and its joints.
- Attain skill to work with different materials for making model.

Teaching Methodology

The faculty is required to give a complete demonstration of using carpentry tools and making timber joints and cutting techniques of different boards for model making.

Guidelines for Paper Setter

In the end of the semester internal jury Viva-voce to be conducted (the jury comprises of the subject in charge and the HOD nominee)

References:

Building construction W.B. Mckay vol. 1 to 4
Construction of buildings. R.Barry vol. 1 to 4
Construction technology Chudley vol. 1 to 4
Building Construction illustrated Ching Francis D.K.

Course Code	Course Name	Cor Hot	ntact urs	Total N	Marks	Credits	Univ.Exam (Hours)
		L	S	INT.	INT. EXT.		
	Construction and material lab-I	1	3	60	40	4	03

Course Objective: The objective is to introduce the elementary building materials and their applications. To familiarize students with construction details of various components of construction

Syllabus:

Part-A

Introduction to bricks

- Brief introduction to mud, sand, clay, surkhi, aggregates, lime and cement etc.
- Different types of mortar like mud mortar, lime mortar, cement mortar etc.- their properties and uses
- Classification &types, uses, sizes and properties of bricks
- Introduction to various components of a building (sub-structure to super-structure), their structural and functional roles.
- Brick masonry –Plan and elevation of English bond (1 brick Th. wall)
- Brick jalli-design and construction details

Part-B

Introduction to stones

- Classification & types, uses, sizes and properties of Stone available in India
- Stone dressing, and deterioration and preservation measures.
- Application properties and visual check for different types of stone.
- Properties and uses of artificial stone.
- Stone masonry of various types
- Lintels and skill level details
- Coping and threshold details.
- Arches-Flat, Segmental and Semi-circular

Course Outcomes:

- Understand the properties, types, uses and application of various building materials i.e., brick, lime, cement, mortar, sand, stones etc.
- Gain the fundamental knowledge of building Construction especially in brick and stone.

Teaching Methodology

The assigned Faculty is advised to undertake 2-3 site visits for better understanding of Brick/Stone bonds, Brick Jalli and conducting market survey for providing practical exposure.

Guidelines for Paper Setter

Total eight questions are to be set, 05 question from part-A and 03 question from Part-B & students are required to attempt total four Questions in all, 03 from Part -A and 01 from part B.

Building construction

Construction of buildings.
Construction technology
Building Construction illustrated
Elementary building Construction
Engineering materials

National Building Code

W.B. Mckay vol. 1 to 4 R.Barry vol. 1 to 4 Chudley vol. 1 to 4 Ching Francis D.K.

Michell Rangwala

Course	Course Name	Contact		Total N	Total Marks		Univ.
Code		Hours			Exam		
		L	P	INT.	INT. EXT.		(Hours)
BTHU101- 18	Communicative English	2	0	40	60	2	03

Course Objective: • The student will gain basic hands-on experience and fundamental knowledge English and become the independent users of English Language.

Syllabus:

Vocabulary Building & Basic Writing Skills

- The concept of Word Formation
- Root words from foreign languages and their use in English
- Acquaintance with prefixes and suffixes from foreign languages in English to
- Form derivatives.
- Synonyms, antonyms, and standard abbreviations.
- Sentence Structures
- Use of phrases and clauses in sentences
- Importance of proper punctuation
- Creating coherence
- Organizing principles of paragraphs in documents
- Techniques for writing precisely

Identifying Common Errors in Writing

- Subject-verb agreement
- Noun-pronoun agreement
- Misplaced modifiers
- Articles
- Prepositions
- Redundancies
- Clichés

Mechanics of Writing

- Writing introduction and conclusion
- Describing
- Defining
- Classifying
- Providing examples or evidence

Writing Practices

- Comprehension
- Précis Writing
- Essay Writing
- Business Writing-Business letters, Business Emails, Report Writing, Resume/CV, Architectural Report Writing

Course Outcomes:

- Have proficiency in reading & listening, comprehension, writing and speaking skills.
- Understand spoken and written English language, particularly the language of their chosen technical field.
- Converse fluently.
- Produce clear and coherent texts on their own.

Guidelines for Paper Setter

One objective type compulsory question to be set covering the entire syllabus in addition to eight others. The students are requiring attempting total 05 questions

References:

Suggested Readings:

- (i) Fundamentals of Technical Communication ,Meenakshi Raman & Sangeeta Sharma,Oxford university Press.
- (ii) Effective business Communication, Asha Kaul, Prentice Hall of India.
- (iii) Communication Skills For Engineers, Sunita Mishra & C. Mualikrishna, Pearson Education.
- (iv) Effective Technical Communication, M. Ashraf Rizvi, McGraw Hill
- (v) Remedial English Grammar. F.T. Wood. Macmillan. 2007
- (vi) On Writing Well. William Zinsser. Harper Resource Book. 2001
- (vii) Study Writing. Liz Hamp-Lyons and Ben Heasly. Cambridge University Press. 2006
- (Viii)Communication Skills. Sanjay Kumar and PushpLata. Oxford University Press. 2011.

Course	Course Name	Contact		Total	Marks	Credits	Univ.Exam
Code		Hou	urs			(Hours)	
		L	P	INT.	EXT.	1	
BTHU102- 18	Communicative Skill Laboratory	0	2	60	40	2	No exam

Course Objective: The objective of the course is to help the students become the independent users of English language.

Syllabus:

Interactive Practice session in Language Lab

- Listening Comprehension
- Self-Introduction, Group Discussion and Role Play
- Common Everyday Situations: Conversations and Dialogues
- Communication at Workplace
- Interviews
- Formal Presentations

Course Outcomes:

- Students will acquire basic proficiency in listening and speaking skills.
- Students will be able to understand spoken English language, particularly the language of their chosen technical field.
- They will be able to converse fluently
- They will be able to produce on their own clear and coherent texts.

References:

Suggested Readings/Books

- Practical English Usage. Michael Swan. OUP. 1995.
- Handbook of Practical Communication. Chrissie Wright. Jaico Publishers.
- Effective Technical Communication, M.Ashraf Rizvi Tata McGraw Hills.
- Spoken English, R.K. Bansal & J.B. Harrison Orient Longman.
- A Practical Course in English Pronunciation, J.Sethi, Kamlesh Sadanand & D. V. Jindal, Prentice Hall of India Pvt. Ltd. New Delhi.
- A Text book Of English Phonetics for Indian Students T. Balasubramaniam, Macmillan
- English Pronouncing Dictionary ,Daniel Jones, Current Edition with CD
- Exercises in Spoken English. Parts. I-III. CIEFL, Hyderabad. Oxford University Press

Course	Course Name	Contact Total Marks				Credits	Univ.Exam
Code		Но	urs				(Hours)
		L	Т	INT.	INT. EXT.		
HSMC122-	Human Values	1	1	40	40 60		03
18	and Professional Ethics				40 00		

Course Objective: The objective is to make the students familiar with visual arts and its basic principles and to explore the potential of Pencil of different grades and Colored pencils as a powerful tool of Graphic Communication.

Syllabus:

Course introduction-Need, Basic guidelines, Content for value education

- Self exploration- What is it?- Its content and process: Natural Acceptance and Experiential validation as the process for self exploration.
- Continuous happiness and prosperity- a look at basic human aspirations
- Right understanding, relationship and physical facility- the basic requirements for fulfillment of aspirations of every human being with their priority.
- Understanding happiness and prosperity correctly.
 - Method to fulfill the above human aspirations: understanding and living in harmony at various levels.

Understanding Harmony in the Human Being - Harmony in Myself!

- Understanding human being as a co-existence of the sentient 'I' and the material 'Body'
- Understanding the needs of Self('I') and 'Body' happiness and physical facility
- Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer)
- Understanding the characteristics and activities of '1' and harmony in '1'
- Understanding the harmony of I with the Body: Sanyain and Health; correct appraisal of Physical needs, meaning of Prosperity in detail
- Programs to ensure sanyarn and Health.
- Include practice sessions to discuss the role others have played in making material goods available to me. Identifying from one's own life. Differentiate between prosperity and accumulation. Discuss program for ensuring health vs. dealing with d'sease.

Include practice sessions to discuss natural acceptance in human being as the acceptance for living with responsibility (living in relationship, harmony and co- existence) rather than as arbitrariness in choice based on liking-disliking.

Understanding Harmony in the Family and Society- Harmony in Human-Human Relationship

- Understanding values in human-human relationship; meaning of Justice (nine universal values in relationships) and program for its fulfillment to ensure mutual happiness; Trust and Respect as the foundational values of relationship.
- Understanding the meaning of Trust; Difference between intention and competence
- Understanding the meaning of Respect, Difference between respect and differentiation; the other salient values in relationship.

- .Understanding the harmony in the society (society being an extension of family): Resolution, Prosperity, fearlessness (trust) and co-existence as comprehensive Human Goals.
- Visualizing universal harmonious order in society-Undivided Society Universal Order- from family to world family.

Include practice sessions to reflect on relationships in family, hostel and institute

Extended family, real life examples, teacher-student relationship, goal of education as etc. Gratitude as a universal value in relationships. Discuss with scenarios. Elicit examples from students' lives

Understanding Harmony in the Nature and Existence – Whole Existence as Coexistence

Holistic perception of harmony at all levels of existence.

Include practice sessions to discuss human being as cause of imbalance in nature (film "Home" can be used), pollution, depletion of resources and role of technology etc.

Implications of the above Holistic Understanding of Harmony on Professional Ethics

- Competence in professional ethics: a. Ability to utilize the professional competence for augmenting universal human order b. Ability to identify the scope and characteristics of people friendly and eco -friendly production systems, c. Ability to identify and develop appropriate technologies and management patterns for above production systems.
- Case studies of typical holistic technologies, management models and production systems.
- Strategy for transition from the present state to Universal Human Order: a. At the level of individual: as socially and ecologically responsible engineers, technologists and managers b. At the level of society: as mutually enriching institutions and organizations. Sum up.

Include practice Exercises and Case Studies will be taken up in Practice (tutorial) Sessions eg. To discuss the conduct as an engineer or scientist etc.

Course Outcomes:

By the end of the course, students are expected to become more aware of themselves, and their surroundings (family, society, nature): they would become more responsible in life, and in handling problems with sustainable solutions, while keeping human relationships and human nature in mind. They would have better critical ability. They would also become sensitive to their commitment towards what they have understood (human values, human relationship and human society)

- 1. Human Values and Professional Ethics by R R Gaur, R Sangal, G P Bagaria, Excel Books, New Delhi, 2010.
- 2. The Story of Stuff (Book).
- 3. The Story of My Experiments with Truth by Mohandas Karamchand Gandhi

Course	Course Name	Contact		Total Marks		Credits	Univ.Exam (Hours)
Code		Hours					(110018)
		L	P	INT.	EXT.		
BVID106- 22	Computer Application-I	1	2	60	40	2	No Exam- Internal Viva Voce

Course Objective: To make students aware of the role and importance of Computers in the field of Interior Design.

Syllabus:

- Introduction of computers and Operating Systems, Brief historical background of computer development Introduction to hardware and general idea of their use, Basics of handling and operating computers, familiarizing the use of scanners, printers plotters etc. Familiarizing with data storage and retrieval creation of directory and files
- Introduction to MS Office tools (PowerPoint presentation, word file/excel etc.)-basic templates for creating text documents, editing, formatting, dictionary and thesaurus, page layout, fonts, inserting tables and images and annotation in MS Office software
- Image processing: basic image sourcing, editing and insertion for desktop publishing in Adobe Photoshop or similar software.

Course Outcomes:

At the end of the course, the students will be able to understand basics of Computers Software, operating systems and operative languages.

Teaching Methodology

Emphasis should be laid on developing the skill of using MS Office in detail.

Guidelines for Paper Setter

In the end of the semester internal jury Viva-voce to be conducted (the jury comprises of the subject in charge and the HOD nominee)

References:		

IKG PUNJAB TECHNICAL UNIVERSITY

BACHELOR OF VOCATINAL-(B.VOC) INTERIOR DESIGN

2022 SCHEME

2nd Semester Study Scheme

TOTAL CREDIT – 18

TOTAL CONTACT HOURS- 22

Course Code	Course Title	Content	Lo	Load Allocations		Marks %	Credits	Duration of Univ. Exam/ Viva-Voce	
			L	Т	P/S	Total	Int : Ext		Hours
BVID- 201-22	Interior Design – II	Skill	1	-	4	05	60:40	5	04 + External Viva Voce
BVID- 202-22	Interior Construction and material lab-II	Skill	1	-	3	03	60:40	4	03
BVID- 203-22	History of Interior Design - I	Skill	1	1	1	02	40:60	2	03
BVID- 204-22	Workshop – II	Skill	-	-	2	02	60:40	1	Int. Viva-Voce
BVID- 205-22	Environmental Science	Generic	1	1	-	02	40:60	2	03
BVID- 206-22	Computer Application-II	Skill	1	-	2	03	60:40	2	Int. Viva-Voce
BVID- 207-22	Furnishing & Fitting	Skill	1	1	1	02	40:60	2	03
BVID- 208-22	Mentoring & Professional Development - I	Generic	1	-	2	02	S/NS	Non- credit	Int. Viva-Voce
	Total		6	3	13	22		18	

Subject Code: BVID- 201-22 **Subject Name:** Interior Design – II

Programme: B.Voc Interior Design	L: 1 T: 0 S: 4
Semester: 2	Teaching Hours: 13(L)+52(S)
Theory/Practical: Practical	Credits: 5
Internal Marks: 60	Percentage of Numerical/Design Problems: NA
External Marks: 40	Duration of End Semester Exam(ESE): 4hours
Total Marks: 100	Elective Status: NA

Prerequisites: Basics of Interior Design theory

Additional Material Allowed in ESE: NA (Viva will be based on the design submission) The end semester examination answer/drawing sheets shall be retained at the examination center for external Viva-voce Examination.

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
1	Understand & will gain a fundamental knowledge of design and its basic principles. 5+12(S)
2	Understand the skill required to interpret a work of design and to evaluate, identify and analyze artistic expression of forms. 4 +20 (P)
3	Understand the relationship between human activities and Space. 4 +20 (S)

Detailed Contents:

- Plan and explore the interior design solution with thrust on thematic interior planning, levels, circulation, color scheme, natural and artificial light, display, exposure and implementation of latest technology in interiors
- Studio apartment for artist/architect/model maker/interior designer/sculptor
- Farm house/ Villa design

References:

1 V.S.Pramar, Design Fundamentals in Architecture, Somaiya Publications Private Ltd., New Delhi, 1973.

2. Francis D.K.Ching, Architecture Form, Space and Order, Van Nostrand Reinhold Company, New York, 1979.3Structure in Nature- Strategy for Design – Peter Pearce

Subject Code: BVID- 202-22 Subject Name: Interior Construction and material lab-II

Programme: B.Voc	L: 1 T: 0 S: 3
Semester: 2	Teaching Hours:
Theory/Practical: Practical	Credits: 4
Internal Marks: 60	Percentage of Numerical/Design Problems: NA
External Marks: 40	Duration of End Semester Exam(ESE): 3 hours
Total Marks: 100	Elective Status: NA

Prerequisites: Basics of Building Construction and materials

Additional Material Allowed in ESE: NIL

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
1.	Understand the properties, types, uses and application of various building materials
2.	Gain the fundamental knowledge of Constructing doors, windows and partitions

Detailed Contents:

Timber -Doors, Windows & Partitions

- Timber: Sources, its classification, characteristics, defects, Preservation, treatment measures and Uses of Timber in building construction.
- Industrial timber products and their applications- plywood, particleboard, laminated board, block board and battenboard etc.
- Design and construction details of different type of timber Doors and windows (considering its Joints and Joinerydetails)
- Design and construction details of different type of timber partitions (fixed, sliding and sliding and folding)

Waterproofing and Surface finishes

- Water proofing materials (liquid, semi liquid and solid) Composition, Properties, Applications.
- Surface finishes: White wash, Distemper, Paints and Varnishes- Types, Applications, Suitability, Advantages and Disadvantages.

Vertical Transportation

• Staircase, Lifts, Escalators, Ramps and Vertical conveyors

References:

Building construction W.B. Mckay vol. 1 to 4 Construction of buildings. R.Barry vol. 1 to 4 Construction technology Chudley vol. 1 to 4 Building Construction illustrated Ching Francis D.K.Elementary building Construction Michell Engineering materials Rangwala National Building Code

Subject Code: BVID- 203

Subject Name: History of Interior Design - I

Programme: B.Voc	L: 1 T:1 P:0
Semester: 2	Teaching Hours:26(L)
Theory/Practical: Theory	Credits: 2
Internal Marks: 40	Percentage of Numerical/Design Problems: NA
External Marks: 60	Duration of End Semester Exam(ESE): 3hours
Total Marks: 100	Elective Status: NA

Prerequisites: Basics of History

Additional Material Allowed in ESE: NIL

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
1.	Develop a holistic approach to interior design.
2.	To help the student understand the designs from Prehistoric Period to the Middle Ages.
3.	To know more on the Modern Movements in Interior design from the beginnings of 20th century.

Detailed Contents:

- Introduction to History and its significance in Interior Design.
- Ancient Egyptian interior elements and its characteristics and materials.
- Greek characteristics, influence, its importance and types.
- Roman interior elements, Romanesque furniture, Gothic style of early medieval
- period. Renaissance period Baroque characteristics and types of furniture, interior details and neoclassical, characteristics.
- Interior design development in England Classification of English furniture indoor, early street, early Georgian, age of Greek designers, Victorian style, the arts and craft movement and designs.

References:

Fletcher, Banister., "A History of Architecture", University of London, The Antholone Press, 1986. Fergusson, James., Willey, John, "A History of Architecture", Low Price Publication, 2012.

Note: The assigned Faculty is required to emphasis on understanding the influences of history in interiors with proper illustrations and provide updated references/E-resources related to the content of the subject.

Subject Code: BVID- 204-22 **Subject Name:** Workshop – II

Programme: B.Voc	L: 1 T:0 P:2
Semester: 2	Teaching Hours:26(P)
Theory/Practical: Practical	Credits: 2
Internal Marks: 60	Percentage of Numerical/Design Problems: NA
External Marks: 40	Duration of End Semester Exam(ESE): Internal
	Viva-Voce
Total Marks: 100	Elective Status: NA

Prerequisites: Knowledge of different materials and tools to be used in model making

Additional Material Allowed in ESE: NIL

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
1.	Proficiency in handling various types of materials.
2.	Acquire skills in different types of model making

Detailed Contents:

- Working Product Design/ Sculptures with concept derivation using scrap, cloth, wire, paper, boards, Pater of Paris, Wood,
- Preparation of wooden base for model making
- Prepare detail working model of the design project introduced in the semester detailing furniture, interior elements, landscaping elements etc. with card board/mount board/sun board etc.

References:

Subject Code: BVID- 205-22 Subject Name: Environmental Science

Programme: B.Voc	L: 1 T:1 P:0
Semester: 2	Teaching Hours:26(L)
Theory/Practical: Theory	Credits: 2
Internal Marks: 40	Percentage of Numerical/Design Problems: NA
External Marks: 60	Duration of End Semester Exam(ESE): 3hours
Total Marks: 100	Elective Status: NA

Prerequisites: General awareness

Additional Material Allowed in ESE: NIL

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
	The students will apply interdisciplinary approach to understand key environmental issues and critically analyze themto explore the possibilities to mitigate these problems.
2	The students will gain practical knowledge by visiting wildlife areas, environmental institutes and various personalities who have done practical work on various environmental Issues.

Detailed Contents: Introduction

- Introduction of Environment and related area (ecosystem, biodiversity, resources) Importance, Classification and Characteristics.
- Definition, scope, importance of various terminology (Environment, Ecosystem, Energy flow in ecosystem, ecological pyramids, ecological succession etc.)
- Understanding of major Ecosystem, Forest, Grassland, Deseret, Aquatic, Hill Area. Understanding of Biodiversity (importance, issues & types of biodiversity)
- Resources Forest, Water, Mineral, Energy, Land (Role & Importance of each resources as well as associated problems)

Environmental Pollution & Social Issues

• Types, Causes, Effects & Control of Air, Water, Soil & Noise Pollution Nuclear hazards and accidents & Health risks Global Climate Change: Global warming, Ozone depletion, Acid rain, Melting of Glaciers & Ice caps, Rising sea levels Environmental disasters: Earthquakes, Floods, Cyclones, Landslides

Biodiversity & its conservation

• Types of Biodiversity: Species, Genetic & Ecosystem India as a mega biodiversity nation, Biodiversity hot spots and bio geographic regions of India Examples of Endangered & Endemic species of India, Red data book

Field Work

• Visit to a National Park, Biosphere Reserve, Wildlife Sanctuary Documentation & preparation of a Biodiversity (flora & fauna) register of campus/river/forest Visit to a local polluted site: Urban/Rural/Industrial/Agricultural Identification & Photography of resident or migratory birds, insects(butterflies) Public hearing on environmental issues in a village

- 1. Bharucha, E. Text Book for Environmental Studies. University Grants Commission, New Delhi.
- 2. Agarwal, K.C. 2001 Environmental Biology, Nidi Publ. Ltd. Bikaner.
- 3. Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad 380 013, India, Email:mapin@icenet.net (R)

- Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p
 Clark R.S., Marine Pollution, Clanderson Press Oxford (TB)
 Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopedia, Jaico Publ. House, Mumabai, 1196p

Subject Code: BVID- 206-22 **Subject Name:** Computer Application-II

Programme: B.Voc	L: 1 T:0 P:2
Semester: 2	Teaching Hours:13(L)+26(P)
Theory/Practical: Practical	Credits: 2
Internal Marks: 60	Percentage of Numerical/Design Problems: NA
External Marks: 40	Duration of End Semester Exam(ESE): Internal
	viva voce
Total Marks: 100	Elective Status: NA

Prerequisites: Knowledge of MS-Office and role of softwares in interior designing

Additional Material Allowed in ESE: NIL

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
1.	Make 2D &3D presentations and interior drawings.

Detailed Contents:

- Introduction to Auto Cad, Basic commands like copy, paste, stretch, offset, move fillet, extend, trim and other 2D commands. Basic Text writing and dimensioning of the Plans
- Understanding of unit settings, scale, limits, line type, line weight, layers, colors, and print commands.
- Simple exercises of drawing/editing objects, text, dimensioning, making and inserting blocks and interiorplans.
- Introduction to Google sketch-up and all the commands and developing the view of any project done in interior design subject.

References:

- 1. AutoCAD 2023 Instructor, Shawna Lockart 2023
- 2. AutoCAD 2024 for the Interior Designer, AutoCAD for Mac and PC, By Dean Muccio

Subject Code: BVID- 207-22 **Subject Name:** Furnishing & Fitting

Programme: B.Voc	L: 1 T:1 P:0
Semester: 2	Teaching Hours:13(L)+13(T)
Theory/Practical: Theory	Credits: 2
Internal Marks: 40	Percentage of Numerical/Design Problems: NA
External Marks: 60	Duration of End Semester Exam(ESE): 3hours
Total Marks: 100	Elective Status: NA

Prerequisites: Meaning of furnishing and process of conducting market surveys

Additional Material Allowed in ESE: NIL

On Completion of the course, the student will have the ability to:

CO# Course Outcomes	
1.	Understand the practical application of different furnishings
2. Select lighting fixtures and color schemes in different areas	

Detailed Contents:

- **Soft furnishings** Meaning and importance, Types of furnishings- carpets, rugs, cushion cover, slip cover. Window treatments- curtains, draperies, blinds and shades.
- **Accessories** meaning, definition, need, types of accessories- functional, decorative, both functional and decorative.
- **Interior Lighting & its effects**: Concept, significance and Effect of color in the interiors and exteriors. Application of color harmonies and psychology in the interiors and exteriors.
 - Importance of lighting, Sources Natural and Artificial lighting, Types based on material, reflection, architectural elements and uses. Economy in lighting, Psychological aspects of light, Glare its types, causes and prevention.
 - Lighting accessories Selection of lamps and lighting fixtures, lighting for various areas and specific activities, modern features in lighting design. Principles of lighting.
- Study and Survey of rates, estimates and varieties of: Wood Finishes

Laminates Paints

Accessories and hardware

Furnishings and Floor coverings (Soft) by visiting exclusive showrooms.

References:

- 1. Anne Marie Soto, "Quick and Easy Sewing for the Home Table Toppers", Rodale Press Inc., 1995. Diane Patrice, Tap Scott, "Curtains, Draperies and Shades", Lane, Menlo Park, California, 2000.
- 2. Katrin Cargill, "Cushions", Ryland Peters and Small, 1996.
- 3. Mary Neal, "Custom Draperies in Interior Design", Elsevier Science Ltd., 1982.
- 4. Sydney A Sykes, "Decorating English Country Styles", Webb and Bower, 1990

Subject Code: BVID- 208-22

Subject Name: Mentoring & Professional Development - I

Programme: B.Voc	L: 0 T:0 P:2
Semester: 2	Teaching Hours:26(P)
Theory/Practical: Practical	Credits: Non-credit
Internal Marks: 50	Percentage of Numerical/Design Problems: NA
External Marks: NA	Duration of End Semester Exam(ESE): Internal
	viva voce
Total Marks: 50	Elective Status: NA

Prerequisites: Not Applicable

Additional Material Allowed in ESE: NIL

The objective of mentoring will be development of:

- Overall Personality
- Aptitude (Technical and General)
- General Awareness (Current Affairs and GK)
- Communication Skills
- Presentation Skills

The course shall be split in two sections i.e. outdoor activities and class activities. For achieving the above, suggestive list of activities to be conducted are:

Part – A (Class Activities)

- 1. Expert and video lectures
- 2. Aptitude Test
- 3. Group Discussion
- 4. Quiz (General/Technical)
- 5. Presentations by the students
- 6. Team building Exercises

Part – B (Outdoor Activities)

- 1. Sports/NSS/NCC
- 2. Society Activities of various students chapter i.e. ISTE, SCIE, SAE, CSI, Cultural Club, etc.

Note:

- Evaluation shall be based on rubrics for Part A & B
- Mentors/Faculty incharges shall maintain proper record student wise of each activity conducted and the same shall be submitted to the department.

IKG PUNJAB TECHNICAL UNIVERSITY BACHELOR OF VOCATINAL-(B.VOC) INTERIOR DESIGN 2022 SCHEME

3rd Semester Study Scheme

TOTAL CREDIT – 23

TOTAL CONTACT HOURS- 26

Course Code	Course Title	Content	Load Allocations			ations	Marks %	Credits	Duration of Univ. Exam/ Viva-Voce
			L	T	P/S	Total	Int: Ext		Hours
BVID- 301-22	Design Studio - III	Skill	1	0	4	05	60:40	5	04 + External Viva Voce
BVID- 302-22	Interior Building Construction & Materials-III	Skill	1	0	3	04	60:40	4	03
BVID- 303-22	History of Interior Design- II	Skill	2	1	0	03	40:60	3	03
BVID- 304-22	Interior Services	Skill	2	1	0	03	40:60	3	03
BVID- 305-22	Climate Responsive Indoor Environment control	Skill	2	1	0	03	40:60	3	03
BVID- 306-22	Computer Application-III	Skill	1	0	2	03	60:40	2	Int. Viva-Voce
BVID- 307A/B-22	Elective -I (Product/Furniture Design)	Skill	2	1	0	03	40:60	3	03
BVID- 308-22	Mentoring & Professional Development - II	Generic	-	-	2	02	S/NS	Non- credit	Int. Viva-Voce
	Total		11	4	11	26		23	

Subject Code: BVID- 301-22 Subject Name: Interior Design – III

Programme: B.Voc Interior Design	L: 1 T: 0 S: 4
Semester: 3	Teaching Hours: 13(L)+52(S)
Theory/Practical: Studio	Credits: 5
Internal Marks: 60	Percentage of Numerical/Design Problems: NA
External Marks: 40	Duration of End Semester Exam(ESE): 4hours
Total Marks: 100	Elective Status: NA

Prerequisites: Basics of Interior Design theory

Additional Material Allowed in ESE: NA (Viva will be based on the design submission)

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
1.	Understand and gain a fundamental knowledge of small-scale retail, commercial projects and workplace / office design. An ability to engage and combine the elements of design in spontaneous as well as intentional ways in order to create desired qualities and effects.
2.	analyze the pre data to introduce design solutions using a creative approach.
3.	Development of required skills – observation / analysis / abstractions / interpretation / representations / expressions through models and drawings.
4.	describe an understanding that is both in representation and verbally present the same.

Detailed Contents:

SHOPS & COMMERCIAL SPACES

Planning for retail activity – anthropometrics – different types of shop layouts alongwith modular units. Design of varying types of display units in shops / showrooms while incorporating concepts of modern day retail interiors with focus on different themes, furniture layout, materials & finishes, color, texture & pattern. Product display designing and detailing – window displays / undercounter displays / shelf displays / hierarchy of product display / power of visual communication / graphics. Coloring commercial spaces – visual communication, backdrops.

The list of suggested topics to be covered as design problems: boutiques, showrooms, small cafeteria/ice-cream parlor, jewelry showroom/shop, furniture showroom, departmental store, specialty store, factory outlet, etc

Project: 1 Interior designing of small retail spaces like shops, boutiques, salons, restaurants etc.(Duration: Around 4 Weeks).

Project: 2 Interior designing of large retail spaces/commercial spaces with specific product-dealing large showrooms, large retail stores dealing in: furnishings, grocery, garment stores, etc. (like Big Bazaar, Pantaloons, Lifestyle. etc) (Duration: Around 8 Weeks).

OFFICE SPACES

Design problems involving simple space organization. Special emphasis to be laid on the study of space standards and anthropometrics related to office / workplace design; design of Interior Layouts for an Office - planning aspects, color schemes, services, design details, furniture layout and design, etc. Exercises shall include spaces such as: Manager's office, Principal's Office, HoD Office, Branch Head's Office, etc. (Duration: Time Problem / MST).

Presentation of design: Presentation of rendered drawings with sectional elevations, design developments, conceptual sketches, detailed model with mood board.

Evaluation Criteria for Examination/ Question Paper Setting:

One compulsory question is to be set from the entire syllabus. The answer sheet shall be retained at the institute after the exam for conduct of the viva voce which will be conducted at the institute level by Internal / External jury members appointed in consultation with the university from the approved panel list of examiners.

References:

- Time Savers Standards for Interiors by J D, J P & MZ ISBN-10: 0071346163
- Neuferts Architects Data by Neuferts ISBN 10: 1405192534
- Ching, Frank (Francis D.K.), "Architecture: Form, Space & Order, Publisher John Wiley, Hoboken 2007.

Note: At least two major exercises and two minor design/time problems should be given and the assigned Faculty is required to provide updated references/E-resources related to the content of the subject.

Subject Code: BVID- 302-22 Subject Name: Interior Construction and material lab-III

Programme: B.Voc	L: 1 T: 0 S: 3
Semester: 3	Teaching Hours: 13(L)+39(S)
Theory/Practical: Studio	Credits: 4
Internal Marks: 60	Percentage of Numerical/Design Problems: NA
External Marks: 40	Duration of End Semester Exam(ESE): 3 hours
Total Marks: 100	Elective Status: NA

Prerequisites: Basics of Building Construction and materials

Additional Material Allowed in ESE: NIL

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
1.	Familiarize the students of Interior Design on material and construction
	methodology.
2.	Understand the various components of interior space as doors, windows, partitions,
	staircases, etc.

Detailed Contents:

PART A: Building Materials

Different types of ferrous and non-ferrous metals, their properties, sizes and forms available in market

Aluminium as a building material

Steel as a building material

Manufacturing process of glass

Different types of glass and their properties

Uses of glass as a building material

PART B: Detailing of Doors, Windows & Partitions in Aluminium and Steel

Different types of doors- swing doors, sliding doors, panelled doors, glazed doors in aluminium and steel frames along with their joinery details.

Details of sliding and openable windows in aluminium and steel frames with glazed panels.

Details of partitions with steel and aluminium frames & panels in materials like glass, particle board, MDF, gypsum board, plywood, etc.

Evaluation Criteria for Examination/ Question Paper Setting:

Total SIX questions are to be set, three from each part & students are required to attempt a total of four questions i.e. two from each part. The distribution of marks for Part A: Part B (drawing based) is 16: 24 marks.

References:

- S.C Rangwala Engineering Materials Charotar Publishing, Anand 1982
- W.B Mckay, Building Construction, Volume 1-4, Longmans, U.K. 1981
- CPWD Manual on Door and Window Details for Residential Buildings Volume-1, Central Public
- Works Department, Govt. of India 2006
- Chudley & Greeno, Building Construction Handbook Sixth edition, Butterworth-Heinemann
- publications 2006

Subject Code: BVID- 303-22 Subject Name: History of Interior Design - II

Programme: B.Voc	L:2 T:1 P:0
Semester: 3	Teaching Hours:39(L)
Theory/Practical: Theory	Credits: 3
Internal Marks: 40	Percentage of Numerical/Design Problems: NA
External Marks: 60	Duration of End Semester Exam(ESE): 3hours
Total Marks: 100	Elective Status: NA

Prerequisites: History of Interior Design- I Additional Material Allowed in ESE: NIL

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes			
1.	Understand and appreciate movements and traditions in interior design,			
	architecture, furniture and decorative arts.			
2.	Identify the components, features and materials of different eras.			
3.	Analyse and utilize the learning in present day context to comprehend the			
	changes in design style with respect to change in society.			
4.	Analyse the key historical and theoretical developments in interior design			
	practices and learning will be on to make the students aware of spatial design			
	and inhabitation, along with an investigation of different types of spaces and their			
	connectivity			

Detailed Contents:

UNIT I – Rococo : Regency to rococo, rococo to neoclassicism

UNIT II – Colonial and federal America : colonial styles in Latin America, colonial styles in north America

UNIT III - The regency and revivals : Nash, Saone, Regency furniture, Greek revival, Gothic revival

UNIT IV – The industrial revolution : early industrialization and inventions, industry and interiors, iron and glass

UNIT V – The aesthetic movements: the aesthetic movements - Britain: Ruskin, Morris, Webb and other British designers, spread of the aesthetic movement across Europe

UNIT VI – Art nouveau movement : art nouveau- roots and characteristics and spread across Europe, The Vienna, Secession- in Austria & United States, furniture and other interior furnishings

Evaluation Criteria for Exam / Question Paper Setting: -

The examiner is required to set twelve questions with two questions from each unit. Students are required to attempt six questions with minimum one question from each unit.

References:

- A History of Interior design by John pile, Laurence King Publishing
- Banister Fletcher's a history of architecture by Dan Cruickshank, sir banister Fletcher, Andrew saint, Kenneth Frampton, peter blundell Jones, Rutledge
- Fletcher, Banister. "A History of Architecture", University of London, The Antholone Press, 1986.
- Fergusson, James. Willey, John, "A History of Architecture", Low Price Publication, 2012.

Note: The assigned Faculty is required to emphasis on understanding the influences of history in interiors with proper illustrations and provide updated references/E-resources related to the content of the subject.

Subject Code: BVID- 304-22 Subject Name: Interior Services

Programme: B. Voc	L:2 T:1 P:0
Semester: 3	Teaching Hours:39(L)
Theory/Practical: Theory	Credits: 3
Internal Marks: 40	Percentage of Numerical/Design Problems: NA
External Marks: 60	Duration of End Semester Exam (ESE): 3hours
Total Marks: 100	Elective Status: NA

Prerequisites: Types of services in a building Additional Material Allowed in ESE: NA

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes	
1.	Understand the terminology and basic principles of water supply and sanitation.	
2.	Understand water requirements in various types of buildings, types of water storage and	
	distribution systems, sanitary & drainage system requirements.	
3.	Understand the basics of HVAC	
4.	Understand the terminology and application of materials in acoustics	
5.	Importance of Fire Fighting in various buildings.	

Detailed Contents:

UNIT I – Water Supply: Introduction, Types of water supply systems-application and its benefits.

Unit II – Sanitation: Role, importance, types of drainage system, different types of traps, sanitary fittings, Septic tank, Treatment plants, Manholes, Chambers- Purpose, Location, Structure and Ventilation

UNIT III- HVAC: Air conditioning-Role, Importance and Principles governing Air conditioning, Methods of Cooling and Heating, Types of Air Conditioning Systems-Unit and Central, Standards and location of various parts- Plant, Ductwork, Fan, Filters, Outlets, Dampers, etc, Natural and Artificial Ventilation

UNIT IV – Acoustics: Objectives, terminology, sound in interiors, Acoustic Materials-application, advantages and disadvantages and Design considerations for various buildings.

UNIT V – Fire Fighting: Fire-cause, spread, safety norms, equipments and Design considerations for various buildings.

Evaluation Criteria for Exam / Question Paper Setting: -

The examiner is required to set ten questions with minimum two from each unit. Students are required to attempt six questions with a minimum one from each unit.

References:

- Duggal, K.N., "Public Health Service", Chand, 1967.
- Birdi, G.S, "Water Supply And Sanitation", Dhanpat Rai, 2010.
- Barry, R., "Building Services, John Wiley and Sons Ltd 1998
- Garg, S. K., "Water Supply Engineering", Khanna, 2010.
- Golany, Gideon S., "Design for Arid Regions", Van Nostrand Reinhold, 1983.
- Givoni, B., "Man, Climate & Architecture", Von Nostrand Reinhold Company, 1981.

Subject Code: BVID- 305-22 Subject Name: Climate responsive indoor environment control

Programme: B.Voc	L: 2 T:1 P:0
Semester: 3	Teaching Hours:39(L)
Theory/Practical: Theory	Credits: 3
Internal Marks: 40	Percentage of Numerical/Design Problems: NA
External Marks: 60	Duration of End Semester Exam(ESE): 3hours
Total Marks: 100	Elective Status: NA

Prerequisites: NIL

Additional Material Allowed in ESE: NIL

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes				
1.	Become aware of the various climates related to environment				
2.	Communicate effectively in introducing shelter with respect to different climatic zone				
3.	Infer the impact of climatic forces on built structures and their interiors				
4.	Understand the designing of spaces as per the particular climatic conditions				

Detailed Contents:

UNIT I – Introduction to basic concepts

- Introduction to the concept and need for environmental control in Interior Design.
- Definition of weather, climate, elements of climate, global climatic zones and change of seasons.
- Climatic zones in India, Impact and issues in interior spaces.

UNIT II – Thermal and visual comfort

- Introduction to thermal and visual comfort. Relationship of climatic elements with both.
- Heat exchange between building and environment (qualitative aspect only), thermal properties of materials, thermal properties of building elements, solar gain factor, sol-air temperature.
- Understanding the movement of sun across the sky, optimum orientation and shading devices (without calculations).
- Natural lighting, daylight factor, size of opening with reference to daylight, lighting criteria in interior spaces. Introduction and objectives of Solar Passive Design
- Use of building materials with respect to climate such as Concrete, Brick, Glass, Plastics, Stone, Insulating material etc.

UNIT III – Indoor Air Quality (IAQ)

• Factors that affecting IAQ. Like Noise pollution & Air pollution. Sources of noise pollution & its effects and controls, transmission of noise in the building. Methods to improve IAQ and use of landscape elements for micro climate control.

UNIT IV – Acoustics

- Introduction to the study of acoustics nature of sound, basic terminology frequency, pitch, tone, sound pressure, sound intensity, decibel scale, loudness, threshold of audibility and pain, masking, sound and distance inverse square law.
- Sound absorbing materials and their market forms Porous materials, panel absorbers, cavity resonators, space absorbers, different variable absorbers, absorption by openings
- Acoustical design requirements for different types of the enclosed and open spaces in brief.
 Open air theatre, Auditorium, Cinema theatre, Halls for difft. Uses seminar halls, studios (Radio / T.V.)

Evaluation Criteria for Exam / Question Paper Setting: -

The examiner is required to set eight questions with minimum two from each unit. Students are required to attempt six questions with a minimum one from each unit.

References:

- Koensberger, Ingersoll, Mayhew, Szokolay, "Manual of Tropical Housing & Building, March 1974
- C.P. Kukreja, "Tropical Architecture, Tata McGraw-Hill Publishing Company, 1978.
- Martin Evans, "Housing, Climate & Comfort, Architectural Press, 1980.
- Lippsmeier, Georg, "Building in the Tropics, Callwey Verlag, Munchen, 1980

Subject Code: BVID- 306-22 Subject Name: Computer Application-III

Programme: B.Voc	L: 1 T:0 P:2
Semester: 3	Teaching Hours:13(L)+26(P)
Theory/Practical: Practical	Credits: 2
Internal Marks: 60	Percentage of Numerical/Design Problems: NA
External Marks: 40	Duration of End Semester Exam(ESE): Internal viva voce
Total Marks: 100	Elective Status: NA

Prerequisites: Computer Application-II Additional Material Allowed in ESE: NIL

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes							
1.	Represent an Interior Design concept in a 3-dimensional visual computer							
	environment.							
2.	Create a 3D model of a floor plan and design the interior of a room in the model.							

Detailed Contents:

- The Sketch Up Modeling Environment, Using the Interface The Drafting Tools, Creating 3-dimensional Geometry, Modeling Furniture, Cabinetry, and Accessories, Using the Trimble 3D Warehouse, Drafting and Modeling a Floor Plan, Adding Color and Textures Photo-Matching, Presenting the Model.
- Photorealistic renders: Making models photorealistic using materials, lighting, textures, background etc.
- Rendering of the View on any of the following Software
- Photoshop,
- V-ray
- Any other Software.

Evaluation Criteria for Exam

The evaluation of students shall be based on practical conducted based on a specific problem given to know the student's understanding of the computers in the field of Architecture.

References:

- Adobe Photoshop Classroom in a Book. By Andrew Faulkner, Conrad Chavez.
- Sketch Up to Layout: The essential guide to creating construction documents with Sketch Up Pro & Layout by Matt Donley

Subject Code: BVID- 307A-22 Subject Name: Product Design-I

Programme: B.Voc	L: 2 T:1 P:0
Semester: 3	Teaching Hours:26(L)+13(T)
Theory/Practical: Theory	Credits: 3
Internal Marks: 40	Percentage of Numerical/Design Problems: NA
External Marks: 60	Duration of End Semester Exam(ESE): 3hours
Total Marks: 100	Elective Status: NA

Prerequisites: nil

Additional Material Allowed in ESE: NIL

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes				
1.	appreciate the design principles in product segment				
2.	learn the design methods and techniques of product designing.				

Detailed Contents:

UNIT-I: Introduction

Introduction to Product Design, Development of product design concepts - a historic review.

UNIT-II: Ergonomics in Product Desing

Design of ergonomic model for specific user-problem. Usability study of product form.

UNIT-III: Product Design Exercise

Different techniques to study different user group, Understand the context of use. Understand the user problems through various methods.

UNIT-IV: Product Design Exercise

Application & properties of various types of materials for various aspects of product design. Different types of model making techniques

Evaluation Criteria for Exam / Question Paper Setting: -

The examiner is required to set eight questions with minimum two from each unit. Students are required to attempt six questions with a minimum one from each unit.

References:

- Elements of Design by Anderson, Donald M., Holt-Rinehart and Winston, New York (1961)
- Ergonomic for beginners by Jan Dul, B. A. Weerdmeester, -CRC (1993)
- Kathy Baxter and Catherine Courage, Understanding your users: A practical guide to user requirements methods, tools,
- · Karen O'Reilly, Ethnographic Methods
- · John Chris Jones, Design Methods, Module Contents
- · Chris Lefteri, Materials for Design
- Andrew H. Dent and Leslie Sherr, Material Innovation:
- · Martha Sutherland, Model Making: A basic guide
- Norman Trudeau, Professional Modelmaking: A handbook of techniques and materials for architects and designers

Subject Code: BVID- 307B-22 Subject Name: Furniture Design-I

Programme: B.Voc	L: 2 T:1 P:0
Semester: 3	Teaching Hours:26(L)+13(T)
Theory/Practical: Theory	Credits: 3
Internal Marks: 40	Percentage of Numerical/Design Problems: NA
External Marks: 60	Duration of End Semester Exam(ESE): 3hours
Total Marks: 100	Elective Status: NA

Prerequisites:

Additional Material Allowed in ESE: NIL

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
1.	Use of furniture to reinforce interiors and to develop additive interest
	among students
2.	

Detailed Contents:

UNIT-I: Introduction

Introduction to Furniture Design styles- antique, traditional, modern, contemporary, classical etc.

UNIT-II: Trends in Interior Design

Current trends in furniture design. Types of furniture like built-in (cabinetry etc.), modular, manufactured, custom-made for seating, storage, sleeping, street furniture and office furniture.

UNIT-III: Materials

Study of materials in furniture – timber, plywood, bent wood, bamboo/cane, metal, plastics, polyurethane and glass.

UNIT-IV: Furniture Design

Understanding selection of furniture, cost and longevity. Design project like furniture layout, relationship to context and design of furniture.

Evaluation Criteria for Exam / Question Paper Setting: -

The examiner is required to set eight questions with minimum two from each unit. Students are required to attempt six questions with a minimum one from each unit.

References:

- Elements of Design by Anderson, Donald M., Holt-Rinehart and Winston, New York (1961)
- Ergonomic for beginners by Jan Dul, B. A. Weerdmeester, -CRC (1993)
- Kathy Baxter and Catherine Courage, Understanding your users: A practical guide to user requirements methods, tools,
- Karen O'Reilly, Ethnographic Methods
- John Chris Jones, Design Methods, Module Contents

Subject Code: BVID- 308-22 Subject Name: Mentoring & Professional Development - I

Programme: B.Voc	L: 0 T:0 P:2				
Semester: 3	Teaching Hours:26(P)				
Theory/Practical: Practical	Credits: Non-credit				
Internal Marks: 50	Percentage of Numerical/Design Problems: NA				
External Marks: NA	Duration of End Semester Exam(ESE): Internal viva				
	voce				
Total Marks: 50	Elective Status: NA				

Prerequisites: Not Applicable

Additional Material Allowed in ESE: NIL

The objective of mentoring will be development of:

- Overall Personality
- Aptitude (Technical and General)
- General Awareness (Current Affairs and GK)
- Communication Skills
- Presentation Skills

The course shall be split in two sections i.e. outdoor activities and class activities.

For achieving the above, suggestive list of activities to be conducted are:

Part - A Class Activities)

- 1. Expert and video lectures
- 2. Aptitude Test
- 3. Group Discussion
- 4. Quiz (General/Technical)
- 5. Presentations by the students
- 6. Team building Exercises

Part – B (Outdoor Activities)

- 1. Sports/NSS/NCC
- 2. Society Activities of various students chapter i.e. ISTE, SCIE, SAE, CSI, Cultural Club, etc.

Note:

- Evaluation shall be based on rubrics for Part A & B
- Mentors/Faculty incharges shall maintain proper record student wise of each activity conducted and the same shall be submitted to the department.

IKG PUNJAB TECHNICAL UNIVERSITY BACHELOR OF VOCATINAL-(B.VOC) INTERIOR DESIGN 2022 SCHEME

4th Semester Study Scheme TOTAL CONTACT HOURS- 28

TOTAL CREDIT – 25

Course Code	Course Title	Content					Marks %	Credits	Duration of Univ. Exam/ Viva-Voce
			L	T	P/S	Total	Int: Ext		Hours
BVID- 401-22	Design Studio - IV	Skill	1	0	4	05	60:40	5	04 + External
									Viva Voce
BVID- 402-22	Interior Building Construction	Skill	1	0	3	04	60:40	4	03
	&Materials-IV								
BVID -403-22	Contemporary Interior Design	Skill	2	1	0	03	40:60	3	03
BVID- 404-22	Sustainable Interiors	Skill	2	1	0	03	40:60	3	03
BVID- 405-22	Interior Landscape	Skill	2	1	0	03	40:60	3	03
BVID-406-22	Furniture Design Workshop -I	Skill	2	0	2	04	60:40	3	Int. Viva-Voce
BVID- 407-22	Computer Application -IV	Skill	1	0	2	03	60:40	2	Int. Viva-Voce
BVID- 408-22	Marketing Management	Skill	2	0	0	02	40:60	2	03
	*Educational Tour I/ Summer	Generic	-	-	2	02	S/NS	Non-	Int. Viva-Voce
	Training/Vacation Assignment-I							credit	
	Total		13	3	13	28		25	

^{*} The Educational Tour I/ Summer Training/Vacation Assignment-I will be held during the summer vacation after 4^{th} semester examinations and the viva-voce and marking will be done along with end semester examination of 5^{th} semester.

Subject Code: BVID- 401-22 Subject Name: Interior Design – IV

Programme: B.Voc Interior Design	L: 1 T: 0 S: 4
Semester: 4	Teaching Hours: 13(L)+52(S)
Theory/Practical: Studio	Credits: 5
Internal Marks: 60	Percentage of Numerical/Design Problems: NA
External Marks: 40	Duration of End Semester Exam(ESE): 4hours
Total Marks: 100	Elective Status: NA

Prerequisites: Interior Design-III

Additional Material Allowed in ESE: NA (Viva will be based on the design submission)

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
1.	Analyze design ideas and develop strong relevant design concepts.
2.	Use of form, orientation, material, color and light to direct attention towards interaction
	spaces.
3.	Understand and explore variety of new and sustainable interior materials.

Detailed Contents:

Planning for hospitality and meeting spaces – anthropometrics – different types of space layouts, emphasis on audio-visual and lighting design. Introduction to building codes, way finding, signage and graphics. Universal design, furniture and finish selection in sustainable materials. Introduction to construction detailing of interior elements.

The list of suggested topics to be covered as design problems:

Minor Project: Interior designing of theatre room/Conference room/Auditorium with knowledge of Acoustics.

(Duration: Around 4 Weeks)

Major Project: Interior designing of a 3-star hotel with main emphasis on designing to optimize space utilization

(Duration: Around 8 Weeks)

Evaluation Criteria for Examination/ Question Paper Setting:

One compulsory question is to be set from the entire syllabus. The answer sheet shall be retained at the institute after the exam for conduct of the viva voce which will be conducted at the institute level by Internal / External jury members appointed in consultation with the university from the approved panel list of examiners.

References:

- Time Savers Standards for Interiors by J D, J P & MZ ISBN-10: 0071346163
- Neuferts Architects Data by Neuferts ISBN 10: 1405192534
- Ching, Frank (Francis D.K.), "Architecture: Form, Space & Order, Publisher John Wiley, Hoboken 2007.
- Shaping Interior Space, Fairchild Books & Visuals, 2002
- Karlen Mark, Space planning Basics, Van Nostrand Reinhold, New York, 1992
- Worldwide Interiors International Federation of Interior Architects & Designers, Rikuyo-Sha, Japan, 1987.
- Hotel Design Richard H. Penner

Note: At least two major exercises and two minor design/time problems should be given and all buildings Should have accessibility to the disabled persons as per SC guidelines and the assigned faculty is required to provide updated references/E-resources related to the content of the subject.

Subject Code: BVID- 402-22 Subject Name: Interior Construction and Material lab-IV

Programme: B.Voc	L: 1 T: 0 S: 3
Semester: 4	Teaching Hours: 13(L)+39(S)
Theory/Practical: Studio	Credits: 4
Internal Marks: 60	Percentage of Numerical/Design Problems: NA
External Marks: 40	Duration of End Semester Exam(ESE): 3 hours
Total Marks: 100	Elective Status: NA

Prerequisites: Construction and Materials -III Additional Material Allowed in ESE: NIL

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
1.	Become well versed with the necessary services details used in different buildings.
2.	Gain the fundamental knowledge of building construction especially wall & ceiling details.
3.	Use different materials in building construction

Detailed Contents:

PART - A

Kitchen layout and details

• Working drawing of kitchen including interior finishes, services like plumbing and electrical layout plans

Toilet layout and details

• Working drawing of toilet including interior finishes, services like plumbing and electrical layout plans

PART - B

Wall details and treatments

- Curtain wall/ Spider glazing details
- Different wall treatments

Ceiling details and treatments

- False ceiling details (plaster, gypsum, PVC, fibre, metal, etc.)
- Reflected ceiling plan layout and fixture details.

Evaluation Criteria for Examination/ Question Paper Setting:

Total SIX questions are to be set, three from each part & students are required to attempt a total of four questions i.e. two from each part.

Text Books/References:

- Working Drawing Manual (P/L custom scoring survey by Fred Stitt
- Architectural Working Drawings by Ralph W. Liebing
- Construction of buildings. R. Barry vol. 1 to 4
- Construction technology Chudley vol. 1 to 4
- Building Construction illustrated Ching Francis D.K.
- Construction Materials And Processes by Don A. Watson
- National Building Code 2016 (NBC)

Subject Code: BVID- 403-22 Subject Name: Contemporary Interior Design

Programme: B.Voc	L:2 T:1 P:0
Semester: 3	Teaching Hours:39(L)
Theory/Practical: Theory	Credits: 3
Internal Marks: 40	Percentage of Numerical/Design Problems: NA
External Marks: 60	Duration of End Semester Exam(ESE): 3hours
Total Marks: 100	Elective Status: NA

Prerequisites: History of Interior Design- II Additional Material Allowed in ESE: NIL

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
1.	Understand the interior concepts of famous architects and interior designers
2.	Identify the components, features and materials of contemporary era
3.	Analyze and utilize the learning in present day context to comprehend the changes in
	design style with respect to change in society.

Detailed Contents:

UNIT I – Foreign Architects

Modernism interiors of Le Corbusier, Frank Lloyd Wright, Louis I Kahn and minimalism interiors of Zaha Hadid and Frank Gehry

UNIT II – Foreign Interior Designers

Philosophies, Concept and Work of famous interior designers Kelly Wearstler, Phillippe Starck, Bobby Perk, David hicks

UNIT III – Indian Architects

Contribution of Hafiz Contractor, Ar Rahul Malhotra, Ar Anupama Kundu to the Indian interiors and their famous projects.

UNIT IV – Indian Interior Designers

Sustainable approach, Concepts in Interior design Sunita Kohli, Manit Rastogi, Lipika Sud, Taniya Gyani.

Evaluation Criteria for Exam / Question Paper Setting: -

The examiner is required to set eight questions with two questions from each unit. Students are required to attempt five questions with minimum one question from each unit.

References:

- A History of Interior design by John pile, Laurence King Publishing
- Banister Fletcher's a history of architecture by Dan Cruickshank, sir banister Fletcher, Andrew saint, Kenneth Frampton, peter blundell Jones, Rutledge
- Fletcher, Banister. "A History of Architecture", University of London, The Antholone Press, 1986.
- Fergusson, James. Willey, John, "A History of Architecture", Low Price Publication, 2012.

Note: The assigned Faculty is required to emphasis on understanding the influences of history in interiors with proper illustrations and provide updated references/E-resources related to the content of the subject.

Subject Code: BVID- 404-22 Subject Name: Sustainable Interiors

Programme: B. Voc	L:2 T:1 P:0
Semester: 4	Teaching Hours:39(L)
Theory/Practical: Theory	Credits: 3
Internal Marks: 40	Percentage of Numerical/Design Problems: NA
External Marks: 60	Duration of End Semester Exam (ESE): 3hours
Total Marks: 100	Elective Status: NA

Prerequisites: Understanding of sustainability Additional Material Allowed in ESE: NA

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes	
1.	Understand the need for environmental design and the various factors involved in design of	
	sustainable buildings.	
2.	Explore the sustainable principles, techniques and materials in interiors and its applications and	
	benefits.	
3.	Analyse how to use renewable energy resources and create healthy indoor environment in	
	buildings.	

Detailed Contents:

UNIT I – Introduction to Basic Concepts

- Concept of sustainability: Introduction, definitions, need, objectives and scope of sustainable design.
- Man and Environment- role of humans & buildings impact on people and environment.
- Meaning, concepts of green building technology, need, benefits of green buildings.
- Certification systems and certification authority-IGBC, GRIHA, BEE, LEED etc.

Unit II – Green Interiors

- Introduction, characteristics &benefits of green interiors and different techniques like -elevated gardens, indoor landscape, bio pools, furniture and accessories, lighting etc.
- Interior eco finishes like Eco-furniture, reclaimed timber wood, eco palm wood, eco bamboo, eco cork, formaldehyde free fibre board & FSC certified fibre board, eco wheat board, strawboard, eco kirei board, rubber wood etc.
- Indoor Environment Quality (IEQ), Elements associated to IEQ (air quality, thermal characteristics, visual characteristics, acoustical quality).

UNIT III – Energy Efficiency &Water Conservation

- Renewable energy resources— meaning and importance, solar energy— advantages, principles and functions of solar devices—solar room heater, solar lights, solar water heater, solar air conditioners.
- Water conservation technologies, advantages of water conservation strategies, recharge of ground water, Rain water harvesting-importance, types of rain water harvesting systems.

UNIT IV – Sustainable Materials

- Study of sustainable materials available and its application in the interior of buildings For E.g. floor finishes, wall finishes, ceiling finishes etc.
- Design process Choice and selection of materials, life cycle assessment, embodied energy of interior materials, 6R system.

Evaluation Criteria for Exam / Question Paper Setting: -

The examiner is required to set eight questions with minimum two from each unit. Students are required to attempt five questions with a minimum one from each unit.

References:

• Sustainability in Interior Design by Sian Moxon, Lawrence King Publishing, 2012

- Sustainable Design for Interior Environments, second Edition, Susan M. Winchip, 2007
- Environmentally Responsible Design: Green and Sustainable Design for Interior Designers. Jones, Louise, John Wiley & Sons, 2008.
- Materials and Components of Interior Design, J.R.Riggs, 1992
- Solar Energy Utilization, Khanna Publishers, G.D Rai, 1996

Note: The assigned faculty is required to provide updated references/ E-resources related to content of the subject and can also provide case studies of various green interior certified buildings as class assignments..

Subject Code: BVID- 405-22 Subject Name: Interior Landscape

Programme: B.Voc	L: 2 T:1 P:0
Semester: 4	Teaching Hours:39(L)
Theory/Practical: Theory	Credits: 3
Internal Marks: 40	Percentage of Numerical/Design Problems: NA
External Marks: 60	Duration of End Semester Exam(ESE): 3hours
Total Marks: 100	Elective Status: NA

Prerequisites: NIL

Additional Material Allowed in ESE: NIL

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
1	Understand the basic concepts of landscape design and different environmental controls
2	Analyze the various indoor plant species, their characteristics, diseases and maintenance.
3	Create the designs for different interior design landscape projects.

Detailed Contents:

UNIT I – Introduction to Interior Landscaping

- Definition, importance and historical development of Interior and Exterior Landscaping
- Types of interior landscapes and their benefits
- Concepts of interior landscape design
- Relation between indoor and outdoor landscape

UNIT II - Plant Selection and Care

- Criteria for selecting Indoor Plants
- Common Indoor Plants and their characteristics, propagation, soil, water, manure, their placement in the interiors
- Plant maintenance, plant disease and pest management practices
- Techniques of potting, repotting, pinching, training, pruning, cleaning etc.

UNIT III - Design elements and planning

- Elements of design in Interior Landscaping (Color, Form, Texture, Scale)
- Spatial planning, layout design and Integrating plants with furniture and built environment
- Use of containers, planters, bowl or dish garden or terrarium making and other accessories
- Case studies of interior landscaping projects.

UNIT IV – Practical Application and Projects

- Creating a Design Proposal for an Interior Landscape Project
- Budgeting and Cost Estimation
- Installation techniques and challenges, sustainable practices, garden implements

Evaluation Criteria for Exam / Question Paper Setting: -

The examiner is required to set eight questions with minimum two from each unit. Students are required to attempt six questions with a minimum one from each unit.

References:

- The Houseplant Encyclopedia by: Ingrid Jantra and Ursula Kruger
- Bose T K and Mukerjee D 1987, Gardening in India, Oxford Book House
- Randhawa M S, "Flowering Trees and Shrubs of India"
- Jurenka, N. A. and R. J. Blass. Cultivating a Child"s Imagination Through Gardening. 1966. Teachers Ideas Press. Englewood, CO.

Note: The assigned faculty is required to conduct live and online case studies for interior landscape projects and one assignment must be based on a project where students will design an interior landscape for any real/hypothetical space preparing a detailed plan and presentation.

Subject Code: BVID- 406-22 Subject Name: Furniture Design Workshop -I

Programme: B.Voc	L: 2 T: 0 P: 2
Semester: 4	Teaching Hours: 26(L)+26(P)
Theory/Practical: Studio	Credits: 3
Internal Marks: 60	Percentage of Numerical/Design Problems: NA
External Marks: 40	Duration of End Semester Exam(ESE): Int. viva-voce
Total Marks: 100	Elective Status: NA

Prerequisites: NA

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
1.	Understand materials and techniques used in furniture design.
2.	Develop skills to create functional and aesthetic furniture layouts.
3.	Evaluate furniture for design, durability, and user suitability.

Detailed Contents:

PART - A

Design Development

- Activity-Specific Furniture Design:
- Designing furniture for specific activities:
- Seating: Sofas, chairs, loungers, benches.
- **Dining:** Dining tables, chairs, bar stools.
- **Sleeping:** Beds, futons, bunk beds.
- **Storage:** Cabinets, shelves, wardrobes.
- Work/Study: Desks, ergonomic chairs, modular workstations.

PART - B

Furniture Templates and Layouts

- Creating Templates:
- Developing standard templates for:
- Sofas, beds, dining tables, wardrobes, study desks, etc.
- Room Layout Planning:
- o Arranging furniture layouts for:
- **Living Room:** Comfortable seating, entertainment area placement.
- **Bedroom:** Optimal bed placement, storage solutions, and circulation space.
- **Dining Room:** Efficient arrangement of dining tables and chairs.
- o Applying principles of ergonomics, circulation, and space optimization.
- Market Survey:
- Conducting research on current furniture trends, popular materials, and pricing.
- Visual Compilation:
- Creating a catalog of furniture cutouts for better visualization and understanding.

Evaluation Criteria for Examination/ Question Paper Setting:

Student must prepare model and portfolio, etc. based on the activities given in Part A & Part B during the course work . The model and portfolio shall be submitted at the institute for the viva-voce exam conducted at the institute level by Internal jury members appointed in consultation with the university from the approved panel list of examiners.

Subject Code: BVID- 407-22 Subject Name: Computer Application-IV

Programme: B.Voc	L: 1 T:0 P:2
Semester: 4	Teaching Hours:13(L)+26(P)
Theory/Practical: Practical	Credits: 2
Internal Marks: 60	Percentage of Numerical/Design Problems: NA
External Marks: 40	Duration of End Semester Exam(ESE): Internal viva voce
Total Marks: 100	Elective Status: NA

Prerequisites: Computer Application-III Additional Material Allowed in ESE: NIL

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
1.	Represent an interior design concept in a 3dimensional visual computer environment.
2.	Develop 3D representation of interior design project of residential and commercial.
3.	Explore other advance rendering softwares to represent their drawings.

Detailed Contents:

- Advance sketch up modeling environment using interface. Modeling furniture of residential and commercial spaces.
- Photo realistic rendering using Lighting, Texture, Background, Day light.
- Rendering of the view on Photoshop / V-ray / Revit / 3ds max (or any other software)

Evaluation Criteria for Exam

The evaluation of students shall be based on practical conducted based on a specific problem given to know the student's understanding of the computers in the field of Architecture.

References:

- Architectural Design with Sketch Up, Third Edition by Wiley
- V-Ray for Sketch Up, E-book Version 5 Ready
- Rendering in Sketch Up by Daniel Tal

Subject Code: BVID- 408-22 Subject Name: Marketing Management.

Programme: B.Voc	L: 2 T:0 P:2
Semester: 4	Teaching Hours:26(L)
Theory/Practical: Theory	Credits: 2
Internal Marks: 60	Percentage of Numerical/Design Problems: NA
External Marks: 40	Duration of End Semester Exam(ESE): 3hours
Total Marks: 100	Elective Status: NA

Prerequisites: nil

Additional Material Allowed in ESE: NIL

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
1	Develop understanding of marketing concepts and its basics.
2	Develop strategies for product promotion and sale.
3	Understand the basic Concepts of Digital marketing and the road map for
	successful Digital marketing strategies.

Detailed Contents:

UNIT-I: Marketing and Marketing Management

- Introduction to Marketing and Marketing Management- Need, Objective, Marketing mix
- Various Marketing Concepts: production, product, selling, marketing and societal marketing, marketing environment: micro, macro environment.
- Consumer Markets and buying behavior Market segmentation and targeting and positioning.

UNIT – II: Product decisions

- Product definition, new product development process, and product life cycle, positioning, branding, packaging and labeling decisions.
- Pricing decisions: importance, objectives, designing strategies, Pricing Techniques
- Product Promotion: promotion mix-introduction, importance, advantages and disadvantages of various components and factors affecting.

UNIT – III: Digital Marketing

- Fundamentals of Digital marketing & Its Significance, Traditional marketing Vs Digital Marketing, Evolution of Digital Marketing, Landscape.
- The Digital users in India, Digital marketing Strategy- Consumer Decision journey.

UNIT – IV: Display adverting

- Display adverting, Buying Models, different type of ad tools, Display advertising terminology.
- Types of display ads, different ad formats, Ad placement techniques, important ad terminology, Programmatic Digital Advertising.

Evaluation Criteria for Exam / Question Paper Setting: -

The examiner is required to set eight questions with minimum two from each unit. Students are required to attempt six questions with a minimum one from each unit.

References:

- Kotler, P., Keller, K.L. Koshy, A. and Jha, M., Marketing Management: A South Asian Perspective, Pearson Education.
- Etzel, M., Walker, B., Stanton, W. and Pandit, A Marketing Management, Tata McGraw Hill.
- Philip Kotler, MARKETING MANAGEMENT- ANALYSIS PLANNING AND CONTROL, Prentice Hall of India, New Delhi,
- D. Ryan, Marketing Strategies for Engaging the Digital Generation, D. Ryan.
- Kamat and Kamat-Himalaya, Digital Marketing Kamat and Kamat-Himalaya

IKG PUNJAB TECHNICAL UNIVERSITY BACHELOR OF VOCATIONAL-(B.VOC) INTERIOR DESIGN 2022 SCHEME

5th Semester Study Scheme

TOTAL CREDIT - 20+30*=50

TOTAL CONTACT HOURS-20

Course	Course Title	Theory/ Practical	Hours per week		Internal	External Marks	Credit	Duration of Univ. Exam/ Viva-Voce	
Code		Practical	L	Т	P/S	Marks	Marks		Hours
BVID-501-22	Interior Design - V	Studio	1	0	5	60	40	6	06 + External Viva Voce
BVID-502-22	Construction and Materials -V	Studio	1	0	3	60	40	4	03
BVID-503-22	Display Design	Studio	1	0	3	60	40	4	Internal Viva Voce
BVID-504-22	Estimating Costing and Specifications	Theory	2	1	0	40	60	3	03
BVID-505-22	Smart Technology and Market Trends	Theory	2	1	0	40	60	3	03
BVID-506-22	*Summer On-Job Training-I/Vacation Assignment-I	Generic	-	-	-	00	100	12*	External Viva- Voce
BVID-507-22	On-Job-Training -II (OJT)**	Practical	10	0 Hrs		60	40	18*	External Viva Voce
	TOTAL			2	11			20+30*	

^{*} Summer On-Job Training/Vacation Assignment-I already held during the summer vacation after 4^{th} semester examinations and the internal & external viva-voce and marking will be done along with end semester examination of 5^{th} semester.

^{**}The students are advised to undergo 100 hrs training in house/industry/ Skill Knowledge Provider (SKP)/ Sector Skill Council (SSC) during the progress of the semester on week-ends and Vacation and submit a training report on the completion of training. The viva-voce will be conducted based on the report submitted.

Subject Code: BVID-501-22 **Subject Name:** Interior Design–V

Programme: B.Voc. Interior Design	L:1 T:0 P:5
Semester:5	Teaching Hours: 13 (L)+ 65 (P)
Theory/Practical: Practical	Credits: 3.5
Internal Marks:60	Percentage of Numerical/Design Problems: 100%
External Marks:40	Duration of End Semester Exam (ESE): Viva Voce
Total Marks: 100	Elective Status: NA

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
1.	Understand the various types of interior spaces of Institutional and Educational centers, materials used, types of furniture, interior circulation space and services to effectively communicate in the design studio.
2.	Apply acquired interior design knowledge by adding specialized information and skills appropriate in the health care centers.
3.	Analyze the need of adaptive, agile workplace design that meets the needs of everyone.

Contents:

Introduction to Institutional and Educational building design - study of their interior design with the perception of Purpose, Function and Aesthetics with emphasis on specialized services required for such types of Buildings.

The list of suggested topics to be covered as design project:

Minor Project: Interior designing of a Primary school for Differently abled children/Wellness Centre/Meditation Center. (Duration: Around 4 Weeks)

Major Project: Interior designing of a Medicity / Multi- Specialty Hospital (Min 100 bedded) with emphasis on Internal services.

(Duration: Around 8 Weeks)

EVALUATION METHODOLOGY

• External marks shall be awarded through viva-voce conducted by the External Jury appointed by the University of the work done by the student during the semester.

References:

- Time Savers Standards for Interiors by J D, J P & MZ ISBN-10: 0071346163
- Neubert"s Architects Data by Neubert"s ISBN 10: 1405192534
- Ching, Frank (Francis D.K.), "Architecture: Form, Space & Order, Publisher John Wiley, Hoboken 2007.
- Shaping Interior Space, Fairchild Books & Visuals, 2002
- Karlen Mark, Space planning Basics, Van Nostrand Reinhold, New York, 1992
- Worldwide Interiors International Federation of Interior Architects & Designers, Rikuyo-Sha, Japan, 1987.
- Gupta Shakti Kumar, Kant Sunil, Chandrashekhar R., Satpathy Siddhartha, 2017 "Modern Trends in planning and designing of hospitals; principles and practice"
- Kunder"s GD, 2014, "Hospitals: Facilities Planning and Management", Tata McGraw Hill education private limited publication.

Note: At least two major exercises and two minor design/time problems should be given and all buildings should have accessibility to the disabled persons as per SC guidelines and the assigned faculty is required to provide updated references/E-resources related to the content of the subject.

Subject Code: BVID-502-22

Subject Name: Construction and Materials -V

Programme: B.Voc. Interior Design	L:1 T:0 S:3
Semester:5	Teaching Hours:13(L)+39(S)
Theory/Practical: Practical	Credits: 4
Internal Marks:60	Percentage of Numerical/Design Problems: NA
External Marks:40	Duration of End Semester Exam(ESE): Viva Voce
Total Marks:100	Elective Status: NA

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
1.	Understand the construction details of toilets, kitchens, flooring and cabinets.
2.	Analyze the materials for toilets, kitchens, flooring and cabinets.
3.	Create designs for toilets, kitchens and wardrobes for residential and commercial use.

Contents:

UNIT-I: Toilets & Flooring

- Design and construction of toilets including fittings, finishes and services.
- Different types of flooring, flooring patterns and details
- Flooring plans & Construction details
- Ground floor layout plan

UNIT-II: Kitchens, Wardrobes & Cabinets

- Design and construction of different types of kitchens (residential & commercial) including fittings, finishes and services along with joinery details, 3-D views and material specifications.
- Different types of materials used for wardrobes such as wood, plywood, MDF, HDF, Mica, veneer, aluminum, etc.
- Design and construction of Commercial/ residential wardrobes
- Design and construction of storage cabinets

GUIDELINES FOR PAPER SETTER

- One compulsory question of short answer type containing 6 questions of 2 marks is to be set from the entire syllabus, in addition, 2 drawing based questions of 14 marks each are to be set from each UNIT.
- Students are required to attempt 3 questions including compulsory question and one question from each UNIT.

References:

- Working Drawing Manual (P/L custom scoring survey by Fred Stitt
- Architectural Working Drawings by Ralph W. Liebing
- Construction of buildings. R. Barry vol. 1 to 4
- Construction technology Chudley vol. 1 to 4
- Building Construction illustrated Ching Francis D.K.
- Construction Materials and Processes by Don A. Watson
- National Building Code 2016 (NBC)

Subject Code: BVID-503-22 **Subject Name:** Display Design

Programme: B.Voc. Interior Design	L:1 T:0 S:3
Semester:5	Teaching Hours: 13(L)+ 52(S)
Theory/Practical: Practical	Credits:4
Internal Marks:60	Percentage of Numerical/Design Problems: 25%
External Marks:40	Duration of End Semester Exam(ESE): Viva Voce
Total Marks:100	Elective Status: NA

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
1.	Understand the concept of display design and its classification.
2.	Analyze the concept of lettering, color and light in poster making.
3.	Create the designs for the window display for sales promotion of different type of products and commodities.

Contents:

Introduction and Classification

- Display of various products /commodities, display and their scopes for sale, promotion at shop, City, State, National and International levels.
- Window, Wall, Island, Counter, Atrium, Mobile, Kiosk, Store & Exhibition Display.

Visual merchandising

• Thematic Message, Seasonal Festival, State & Country oriented Display.

Product promotion and display design

- Window Display for sales promotion of different types of products/commodities
- Use of different devices like blocks, stands, panels.
- Use of different types of lights and colors.
- For shops like Gift Gallery, Leather Goods like Bags, Shoes ,Pottery and Kitchenware ,Apparel for kids ,ladies and gents (Branded Stores)

Counter Displays

- Importance of Counter Display
- Types And Use Of Counter in store display
- Planning and designing the counter display for Jewelry, spectacles /shades, cosmetic goods and precious goods like Ivory items, precious stones, and sandal wood items using theme for display.
- Presentation: Sketch files, Drawings with color to give clear concept of theme and type of display.

EVALUATION METHODOLOGY

• External marks shall be awarded through viva-voce conducted by the External Jury appointed by the University of the work done by the student during the semester.

References

- Design for 20th century interiors Fiona leolie, VH Publication ,London.
- Visual merchandising.

Subject Code: BVID-504-22

Subject Name: Estimating Costing and Specifications

Programme: B.Voc. Interior Design	L: 2 T: 1 P: 0
Semester: 5	Teaching Hours:26(L)+13 (T)
Theory/Practical: Theory	Credits: 3
Internal Marks: 40	Percentage of Numerical/Design Problems: 30%
External Marks: 60	Duration of End Semester Exam(ESE): 3 Hours
Total Marks: 100	Elective Status: NA

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
1.	Understand the role of material specifications in interior design projects, gaining comprehensive insights into their significance.
2.	Apply diverse techniques to evaluate project costs, fostering proficiency in estimation skills.
3.	Analyze the significance of estimation, costing, and specification in interior design projects to enhance project planning and resource management skills.

Contents:

Unit-I: Estimation

- Introduction to Estimation and Costing Overview of estimation and costing in interior design
- Basic terminology and concepts
- Importance, Role and significance of estimation in interior design projects
- Types of estimation techniques: approximate, detailed, parametric, etc.
- Factors influencing project estimation: size, complexity, materials, labor, etc.

Unit-II: Costing

- Types of Costs
- Methods of Cost Estimation
- Budgeting and Cost Control
- Budget preparation and management.
- Monitoring and controlling costs during a project.
- Techniques for cost reduction.
- Pricing and Costing of Materials, labor estimate & its rate for different thickness.

Unit-III: Specifications

- Understanding variations in material specifications in terms of different companies, quality of material etc in an interior design project
- Types of materials used in interior design: finishes, fixtures, furnishings, application, equipment
- Specifications for different project requirements: residential, commercial, institutional
- Sustainable material choices and their impact on cost and design
- Practical exercises for a 2BHK for interior

UNIT-IV: Rate Analysis

- Introduction to rate analysis and its significance in project costing
- Components of rate analysis: labor, material, equipment, overheads, profit
- Methods of rate analysis: analytical method, approximate method, composite method
- Preparation of rate analysis sheets for interior design projects

• Factors affecting rates: location, market conditions, project complexity

GUIDELINES FOR PAPER SETTER

- One compulsory question of short answer type containing 6 questions of 2 marks is to be set from the entire syllabus, in addition, 2 questions are to be set from each UNIT.
- Students are required to attempt 5 questions including compulsory question and one question from each UNIT.

References:

- Carol A. Sampson Techniques for Estimating Materials, Costs, and Time for Interior Designers. Watson- Guptill. May, 2001. ISBN. 9780823016297
- Diana Allison Estimating and Costing for Interior Designer. Bloomsbury Publisher April 2021 ISBN 9781501361111
- Estimating, Costing, Specification & Valuation By M Chakraborti.
- Estimating and Costing for Interior Designers by Daina Alison.
- Interior Design Cost Estimating* by Thea Marx

Note: At the end of the semester, students are required to prepare all the estimation on spreadsheet for a 2BHK project, therefore the assigned faculty is required to plan the work accordingly and provide updated references/e-resources related to the content of the subject.

Subject Code: BVID-505-22

Subject Name: Smart Technology and Market Trends

Programme: B. Voc. Interior Design	L: 2 T: 1 P: 0
Semester: 5	Teaching Hours: 26(L) + 13 (T)
Theory/ Practical: Theory	Credits: 3
Internal Marks: 40	Percentage of Numerical/ Design Problems: NA
External Marks: 60	Duration of End Semester Exam (ESE): 3 Hours
Total Marks: 100	Elective Status: NA

On completion of the course, the student will have the ability to:

CO#	Course Outcomes
1	Understand the advance concepts of home automation in Interior design.
2	Analyze the principles and techniques adopted in designing smart homes.
3	Apply different smart methodologies/materials in interiors.

Contents:

UNIT-I: Fundamentals of Building Management System

• Home automation and smart home technologies - Introduction, definitions, objectives, scope, elements of smart homes, concept of green & smart design, energy management systems, advantages and disadvantages.

UNIT-II: Smart building technologies

- Smart appliances, smart kitchens, smart communication systems introduction, advantages and disadvantages.
- Sensor based Lighting systems and Energy efficient lighting system introduction, types, controls, advantages and disadvantages.

UNIT-III: Intrusion Detection & Alarm System

- Introduction to Intruder Alarm System, Need for Intruder Alarm System, Intrusion Detector Types, advance types of doors and their locking systems.
- Introduction to CCTV Systems, types of CCTV Systems, Camera Selection and Design Concepts.

UNIT-IV: Fire Alarm Systems & Panels

• Introduction To Fire Alarm System, Need for Fire Alarm System, Types of Fire Detectors and fire panels, Heat and smoke detectors, Conventional and Addressable System, PA system, cabling and safety standards.

GUIDELINES FOR PAPER SETTER

- One compulsory question of short answer type containing 6 questions of 2 marks is to be set from the entire syllabus, in addition, 2 questions are to be set from each UNIT.
- Students are required to attempt 5 questions including compulsory question and one question from each UNIT.

References:

- Nick-Vandome, Smart Homes in easy steps: Master smart technology for your home.
- Gerard O"Driscoll, In the Essential Guide to Smart Home Automation Safety & Security.
- Donald Norris, Home Automation with Raspberry Pi: Projects Using Google Home, Amazon Echo, and Other Intelligent Personal Assistants.

Subject Code: BVID- 507-22 **Subject Name:** On-Job Training -II

Programme: B.Voc. Interior Design	L: 0 T: 0 P: 100 Hrs (Industrial Training)
Semester: 5	Teaching Hours: NA
Theory/Practical: Practical	Credits: 18
Internal Marks: 40	Percentage of Numerical/Design Problems: NA
External Marks: 60	Duration of End Semester Exam(ESE): Viva Voce
Total Marks: 100	Elective Status: NA

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
1.	Understand & will gain fundamental knowledge about intricacies of the profession.
2.	Analyze the process of working in the field from skilled knowledge provider.
3.	Apply practical learning in the academic projects.

Work to be done by the student:

During training, students are required to do Market survey of the materials and Hands on practice under knowledge provider. Students need to prepare presentation and report for the same.

DISTRIBUTION OF MARKS

External Marks - 40

a) Viva voce -40(to be conducted by the external expert)

Internal marks – 60

- a) Marks awarded by the employer 20 (Signed copy of marks to be submitted to HoD/faculty Coordinator)
- b) Market Survey report and viva- 20
- c) Project report and viva -20

EVALUATION METHODOLOGY

• External marks shall be awarded through viva-voce conducted by the External Jury appointed by the University of the work done by the student during the semester.

IKG PUNJAB TECHNICAL UNIVERSITY BACHELOR OF VOCATIONAL-(B.VOC) INTERIOR DESIGN 2022 SCHEME

6th Semester Study Scheme

TOTAL CREDIT - 24+18*=42

TOTAL CONTACT HOURS-24

Course	Course Title	Theory/	Hours per week			Internal	Externa	Credit	Duration of Univ.
Code		Practical				Marks	I		Exam/ Viva-Voce
			L	T	P/S		Marks		Hours
BVID- 601-22	Interior Design – VI	Studio	6	0	12	60	40	18	External Viva Voce
	(Thesis)								
BVID -602-22	Digital Portfolio Design	Studio	1	0	2	60	40	3	External Viva
									Voce
BVID- 603-22	Professional Practice	Theory	2	1	0	40	60	3	03
	and Project	-							
	Management								
BVID-604-22	On-Job-Training -III	Practical	10	0 Hot	ırs	60	40	18*	External Viva
	(OJT)*								Voce
	, ,								
TOTAL			9	1	14			24+18*	

^{*}The students are advised to undergo 100 hrs training in house/ industry/ Skill Knowledge Provider (SKP)/ Sector Skill Council (SSC) during the progress of the semester on week-ends and Vacation and submit a training report on the completion of training. The viva-voce will be conducted based on the report submitted.

Subject Code: BVID-601-22

Subject Name: Interior Design-VI (Thesis)

Programme: B.Voc. Interior Design	L: 6 T:0 S:12
Semester:6	Teaching Hours: 78 (L)+ 156 (S)
Theory/Practical: Studio	Credits: 18
InternalMarks:60	Percentage of Numerical/Design Problems: 100%
ExternalMarks:40	Duration of End Semester Exam (ESE):NA
TotalMarks:100	Elective Status: NA

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes
1.	Understand the relationship of space to the contextual environment, achieving design interpretations through client profiling, case study and framing requirements.
2.	Apply professional design acumen with enhanced skill of planning interior projects.
3.	Apply the advanced knowledge of materials used, construction techniques, furniture and services while designing large scale spaces.

Contents:

A. Thesis project will comprise of the following:

- An Illustrated Report- which will include the validity and scope of the chosen project, methodology, prototype studies, project planning, ideas generation, exploration and investigation of materials, design development, budget provision and project schedule.
- A fully worked-out Design Proposal- including consideration of site planning structures, services, and any other aspect/specific to the project.

B. Stages of Work:

The entire process of Thesis Design shall be divided into four distinct stages involving:

1. Approval of Project:

- The intent of the thesis project as well as the criteria for selection of the project will be introduced to the students around the 6th week of the previous semester, i.e.5th Semester B.Voc.
- Before the closing of the 5th Semester, students will be required to submit brief write-up on two projects out of which one will be approved.
- Approval of the thesis project/topic will be done by the Principal/HOD, the Thesis Coordinator and the concerned Thesis Guide.

2. Rough Report:

 Rough Report shall comprise of all analytical aspects of the project including Synopsis, Library studies, Prototype studies, Idea Generation, Design proposals, Project planning, Delineation of Building Program, etc.

3. Evolution of Design:

• Development of Visual design ideas through Concept, Exploration of layouts, Concepts and Interior plans, Investigation of materials, Techniques and Technologies for Interior spaces and Surface design shall be worked out in minimum of four stages.

4. Draft of Final Report:

• Shall include Evolution of Design, Final Report, Drawings and Model, to be evaluated through an external Jury, Head of department and Thesis coordinator.

NOTE

- Students will be required to submit two identical copies of the final report along with a soft copy, on a standard format prescribed in the thesis programme issued by the Thesis Coordinator.
- The report must also include A-3 size copies of all final drawings and at least two photographs of the final model/models.

External Jury

SUBMISSION REQUIREMENTS:

- Students are required to submit the Final Report, all final drawings and models in the standard format prescribed in the Thesis programme.
- The students would also be required to submit an abstract of the thesis project.
- Submission will be made one day before the date of examination.
- All buildings should have accessibility to the physically challenged persons.

EVALUATION METHODOLOGY:

- The thesis studio will be conducted under the overall coordination of the Thesis Coordinator.
- Each student will be assigned a Thesis Guide (from amongst the faculty) who will supervise the progress of the student "s work on a regular basis.
- All stages of sessional work will be evaluated jointly by the Principal/HOD and the entire studio team (Thesis Coordinator, Visiting Faculty and the concerned Thesis Guide).
- Jury for the External Examination will comprise the Principal, Thesis Coordinator and two External Examiners appointed.

References:

- Time Savers Standards for Interiors by J D, J P & MZ ISBN-10: 0071346163
- Neufert"s Architects Data by Neufert"s ISBN 10: 1405192534
- Ching, Frank (Francis D.K.), "Architecture: Form, Space & Order, Publisher John Wiley, Hoboken 2007.
- Shaping Interior Space, Fairchild Books & Visuals, 2002
- Karlen Mark, Space planning Basics, Van Nostrand Reinhold, New York, 1992
- Worldwide Interiors International Federation of Interior Architects & Designers, Rikuyo-Sha, Japan, 1987.
- Designs for 21st century Interiors Fiona Leolie, VH Publications, London
- In details Interior Surfaces and Materials: Christian Schittick Editions Detail.
- Interior Color by Design, Jonathan Poore, Rockport Publishers, 1994

Subject Code: BVID -602-22

Subject Name: Digital Portfolio Design

Programme: B.Voc. Interior Design	L: 1 T: 0 S:2
Semester: 6	Teaching Hours: 13(L)+26(S)
Theory/Practical: Studio	Credits: 3
Internal Marks: 60	Percentage of Numerical/Design Problems: NA
External Marks: 40	Duration of End Semester Exam(ESE): Viva Voce
Total Marks: 100	Elective Status: NA

On Completion of the course, the student will have the ability to:

CO#	Course Objectives
1.	Understand the importance and characteristics of portfolio design.
2.	Analyze the various techniques and methodologies involved in creating portfolio.
3.	Create the individual portfolio for appearing in interviews for job recruitments.

Contents

Introduction to Digital Portfolio Design

- Need & Importance: The purpose and importance of a portfolio in professional development.
- Portfolio Development process: Steps involved in creating a portfolio & Planning and organizing content
- Developing a portfolio: Key characteristics that make good quality of portfolio.
- Structure and Portfolio format-Overview of portfolio formats & Recommended software for portfolio creation. Examples of exemplary portfolios and CVs
- Design and development contents: Visual Identity, Resume, Cover letter in preparation for Internship and job interviews.

Presentation Techniques

- Presentation Techniques: Learning different techniques to present professional-quality work and Showcasing skills required for employment in the design field.
- Visual Presentations: Mood Boards and Sketches and Renderings.
- Showcasing Skills for Employment: like Physical Portfolios, Digital Portfolios.

Research and Written Communication

- Portfolio as a tool Using the portfolio for research, discussions, and presentations.
- Developing a detailed final portfolio with a URL.
- Creating models, selecting materials, and applying techniques for finishing.
- Conducting research for portfolio content
- Developing written communication skills for: Resume and cover letter, development of portfolio, design statement, Transitions and Experiences.

Final Portfolio Review

- Reflecting Personality in the Portfolio: Ensuring the portfolio reflects personal style and strengths, making improvements and refinements to enhance the portfolio.
- Project Briefings:-6-7 projects along with their skills of Photography.
- Developing skills to present portfolios effectively, adapting to the demands of the design market.

• Additional Skills for a Professional Portfolio - Enhancing sketching skills - Identifying the best websites for portfolio uploads

EVALUATION METHODOLOGY

• External marks shall be awarded through viva-voce conducted by the External Jury appointed by the University of the work done by the student during the semester.

References:

- Building Design Portfolios: Innovative Concepts for Presenting Your Work (Design Field Guide) by Sara Wiseman
- Amy Will banks, Nancy Oxford, Dana Miller, "Textile for Residential and Commercial Interiors", Fairchild Books, 4th revised edition, 2014.
- Stand Out: Design a personal brand. Build a killer portfolio by Denise Anderson
- Burn Your Portfolio: Stuff They Don't Teach You in Design School, But Should (Voices That Matter) by Michael Janda
- Portfolio Design: A Modern Approach to Asset Allocation by Richard C. Marston.
- Harold Linton & William Engel, "Portfolio Design for Interiors" Bloomsbury Academic USA, 2017.
- Maurean Mitton, "Portfolio for Interior Designers", John Wiley & Sons, 1st edition, 2010

Subject Code: BVID- 603-22

Subject Name: Professional Practice and Project Management

Programme: B.Voc. Interior Design	L: 2 T: 1 P: 0
Semester: 6	Teaching Hours: 26(L)+13(T)
Theory/Practical: Theory	Credits: 3
Internal Marks:40	Percentage of Numerical/Design Problems: NA
External Marks: 60	Duration of End Semester Exam(ESE): 3 hours
Total Marks: 100	Elective Status: NA

On Completion of the course, the student will have the ability to:

CO#	Course Outcomes		
1.	nderstand the significance of project management elements such as scheduling, risk		
	management and stakeholder communication.		
2.	Analyze collective project outcomes and management strategies in joint ventures.		
3.	Apply the professional aspects of management in the interior design projects.		

Contents

UNIT-I: Introduction to Professional Practice

- Interior designer as a profession, Goals, Career options and Jobs and Characteristics.
- Interior designer"s role towards execution of a project, code of professional conduct and Self-development.
- Scale of professional fee & charges, Duties of employer under labour welfare provisions, Conditions of engagement

UNIT-II: Professional Components of Managing Interior Work

- Office managing, Society Activities of various students chapter i.e. CSI, ISTE, SCIE, Cultural Club, IIID and Interior architecture (under architect act 1972) etc.
- Documentation of projects. Public relations with all stakeholders of the project, meetings & seminars, conferences

UNIT-III: Project management

- Basic principles of management and application to interior designing projects. Introduction to Gantt Chart, PERT / CPM
- Organizational structure apt for Interior Design, distribution of work, authority, duties and responsibilities, reporting etc.
- Project: Planning a Project, Defining the Project Scope Outlining and Task Relationship.

UNIT-IV: Tender and tendering

- Introduction, definitions and Types of Tender.
- Tendering Procedure: Tender document preparation, types of invitation.
- 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.

GUIDELINES FOR PAPER SETTER

- One compulsory question of short answer type containing 6 questions of 2 marks is to be set from the entire syllabus, in addition, 2 questions are to be set from each UNIT.
- Students are required to attempt 5 questions including compulsory question and one question from each UNIT.

References:

- Drucker, Peter, Innovation & Entrepreneurship Practices & Principles, William Hernmann Ltd., London, 1969
- Roshan, Nanavati, Professional Practices Estimating & Valuation, Lakhani Book Depot, Bombay, 1994
- Vasant Desai, Project Management and entrepreneurship, Himalaya Publishing House, New Delhi, (2000).

Note: The assigned faculty is required to provide updated references/ E-resources related to content of the Subject. Students are also expected to visit exhibitions, material manufacturers units, and ongoing interior sites, attend seminars and presentations of consultants and vendors related to Interior Profession.

Subject Code: BVID- 604-22 **Subject Name:** On-Job Training -III

Programme: B.Voc. Interior Design	L: 0 T: 0 P: 4weeks/160 Hrs (Industrial Training)
Semester: 5	Teaching Hours: NA
Theory/Practical: Practical	Credits: 18
Internal Marks: 60	Percentage of Numerical/Design Problems: NA
External Marks: 40	Duration of End Semester Exam(ESE): Viva Voce
Total Marks: 100	Elective Status: NA

On Completion of the course, the student will have the ability to:

	on completion of the course, the seasons that have the about to	
CC	O#	Course Outcomes
1.	•	Understand & will gain fundamental knowledge about intricacies of the profession.
2	2.	Analyze the process of working in the field from skilled knowledge provider.
3.	3.	Apply practical learning in the academic projects.

Work to be done by the student:

During training, students are required to do Market survey of the materials and Hands on practice under knowledge provider. Students need to prepare presentation and report for the same.

DISTRIBUTION OF MARKS

External Marks - 40

a) Viva voce -40(to be conducted by the external expert)

Internal marks – 60

- a) Marks awarded by the employer 20 (Signed copy of marks to be submitted to HoD/faculty Coordinator)
- b) Market Survey report and viva- 20
- c) Project report and viva -20

EVALUATION METHODOLOGY

• External marks shall be awarded through viva- voce conducted by the External Jury appointed by the University of the work done by the student during the semester.