

IKG PUNJAB TECHNICAL UNIVERSITY

BACHELOR OF VOCATIONAL-(B.VOC)

INTERIOR DESIGN

2022 SCHEME

1ST Semester Study Scheme

TOTAL CREDIT – 22
TOTAL CONTACT HOURS- 24

Course Code	Course Name	Component	Contact Hours			Total Marks		Credits	Univ. Exam (Hours)
			L	T	P/S	internal	external		
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	-	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	Contact Hours		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:							
<ul style="list-style-type: none"> 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.							
References:							
<ol style="list-style-type: none"> V.S.Pramar, Design Fundamentals in Architecture, Somaiya Publications Private Ltd., New Delhi, 1973. Francis D.K.Ching, Architecture Form, Space and Order, Van Nostrand Reinhold Company, New York, 1979. Structure in Nature- Strategy for Design – Peter Pearce Patterns in Nature- Peter Streens 							

	Course Name	Contact Hours		Total Marks		Credits	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)

References:

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

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

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.

References:

1. **Graphic Illustrations in Black and White** by Jacqueline, 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 Code	Course Name	Contact Hours		Total Marks		Credits	Univ. Exam (Hours)
		L	P	INT.	EXT.		
BVID104-22	Workshop - I	1	1	100	0	2	No exam – Internal Viva
<p>Course Objective: The students will gain basic hands-on experience and fundamental knowledge in carpentry and model making.</p>							
<p>Syllabus:</p> <ul style="list-style-type: none"> 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. 							
<p>Course Outcomes:</p> <ul style="list-style-type: none"> Gain the basics knowledge of the carpentry tools and its joints. Attain skill to work with different materials for making model. 							
<p>Teaching Methodology</p> <p>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.</p>							
<p>Guidelines for Paper Setter</p> <p>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)</p>							
<p>References:</p> <p>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.</p>							

Course Code	Course Name	Contact Hours		Total Marks		Credits	Univ. Exam (Hours)
		L	S	INT.	EXT.		
BVID105-22	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.

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	

Course Code	Course Name	Contact Hours		Total Marks		Credits	Univ. Exam (Hours)
		L	P	INT.	EXT.		
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 required 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 Heasley. Cambridge University Press. 2006
- (viii) Communication Skills. Sanjay Kumar and PushpLata. Oxford University Press. 2011.

Course Code	Course Name	Contact Hours		Total Marks		Credits	Univ. Exam (Hours)
		L	P	INT.	EXT.		
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 Code	Course Name	Contact Hours		Total Marks		Credits	Univ. Exam (Hours)
		L	T	INT.	EXT.		
HSMC122-18	Human Values and Professional Ethics	1	1	40	60	2	03

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 'I' and harmony in 'I'
- 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)

References:

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 Code	Course Name	Contact Hours		Total Marks		Credits	Univ. Exam (Hours)
		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:							
<ul style="list-style-type: none"> • 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:							