

**SCHEME OF EXAMINATION
& SYLLABUS**

of

**Bachelor of Interior Design
(BID)**

UNDER

**FACULTY OF SCIENCE
w.e.f. Session 2022-23**

FACULTY OF SCIENCE
DEPARTMENT OF INTERIOR DESIGN

Program: BACHELOR OF INTERIOR DESIGN

PREAMBLE:

The BID curriculum 2023 builds on the implementation of the choice-based credit system (CBCS) and grading system. The curriculum takes the BID program to the next level in terms of implementing outcome-based education along with the choice-based credit system (CBCS) and grading system.

INTRODUCTION TO THE PROGRAM

Interior design is a captivating and dynamic field that blends creativity, functionality, and aesthetics to transform spaces into visually appealing and functional environments. In this interior design program, you will embark on a journey to explore the art and science of crafting interiors that not only reflect the personality and needs of clients but also adhere to the latest design trends and principles.

Throughout this program, you will gain a deep understanding of spatial design, color theory, furniture arrangement, lighting, materials, and the psychological aspects of interior spaces. Whether you aspire to become a professional interior designer, enhance your home decorating skills, or simply develop a keen eye for design, this program will equip you with the knowledge and tools needed to create stunning and harmonious interiors. Get ready to unleash your creativity and embark on a rewarding career or personal design journey as we dive into the fascinating world of interior design!

PROGRAM OUTCOMES (POs)

Program Outcomes (POs)	Description
PO1	Introduce the basic concepts, fundamental principles, and theories related to various interior design phenomena and their relevancies in day-to-day life.
PO2	Interior Design Knowledge: The ability to apply the concept of the design process along with the spatial elements, building services, various interior materials, socio-economic, and cultural influences, and the principles of design & and planning in the development of interior environments.
PO3	Problem Analysis: The ability to assess the client needs, space requirements, and construction techniques for effective problem solving with critical thinking aspects, impacting all the stages of interior space design.
PO4	Design/Development of Solutions: The ability to identify the most optimal design solutions like energy efficiency, cost-effectiveness environment friendly, as needed for implementing the interior design projects in an effective manner.
PO5	Individual and Teamwork: The ability to contribute significantly as a member or a leader in diverse environments with multidisciplinary teams.
PO6	Ethics: Will be able to carry out professional design responsibility along with ethical values.
PO7	Communication Skills: The ability to communicate effectively in various facets like - speaking, writing, sketching, and making diagrams to illustrate, construct, present, or otherwise communicate design proposals.
PO8	Modern Tool Usage: To be able to apply various manufacturing tools, techniques, IT technology, and software.
PO9	Project Handling Skills: The ability to plan, outline effective blueprints, execute, and complete the process of designing for the interior built environments.
PO10	Environment and Sustainability: To be able to apply various manufacturing tools, techniques, IT technology & and software.
PO11	Continuous Learning: To instill the attributes of life-long learning skills.
PO12	Acquire skills in handling offices, and interior sites, planning, designing, and drawing logical inferences from interior design subjects.

PROGRAMME EDUCATION OBJECTIVES (PEOs)

They are the broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve.

Program educational objectives (PEOs)	Description
PEOs 1	Will be able to design spaces by carrying out research and analysis of the client's goals and requirements; and development of documents, drawings, and diagrams that outline those needs.
PEOs 2	Prepare design professionals who render valuable contributions to dynamic interior environments that are functional, aesthetical, sustainable, and safe for inhabitants.
PEOs 3	Students will be prepared to attain excellence in innovation and leadership along with absorbability in diverse design career paths with encouragement to professional ethics and active participation needed for a successful career.
PEOs 4	Students will be capable to pay attention to teamwork, effective communication, and critical thinking skills.
PEOs 5	Students will develop themselves as effective professionals by solving real problems through the use of Interior Designing knowledge.

PROGRAM SPECIFIC OUTCOMES (PSOs)

Program Specific Outcomes are the statements that describe what the graduates of a specific program should be able to do.

Program-Specific Outcomes (PSOs)	Description
PSO-1	The ability to analyze and develop plans based on modern concepts & and human requirements, to design interior spaces with effective circulation and connectivity in the building enclosures.
PSO-2	Exhibit an understanding of how subjects like Interior Furnishings, Indoor Landscaping, Interior Photography, and Architectural Design History correlate & and reflect major impacts in the development of space.
PSO-3	Ability to demonstrate a wide range of technical skills and design knowledge during schematic design and to apply the principles of lighting, acoustics, thermal comfort, and indoor air quality in relation to environmental impact, human well-being along with life safety, accessibility & sustainability issues in making sound design decisions across varying levels of Complexity.

Bachelor of Interior Design						
Session-2022-23						
SEMESTER-I						
Course Type	Subject Code	PAPERS	Credits	EXTERNAL MARKS	INTERNAL MARKS	TOTAL MARKS
AECC-1		Choose Any One (101A/101B)	2	35	15	50
	BID 101A	English				
	BID 101B	NCC				
CC-1	BID 102	Design Basics	4	70	30	100
Allied -1	BID 103	Graphics	3	70	30	100
SEC-1	BID 104	Fundamental of IT	3	70	30	100
	BID 105-P	Design Concept-I-Lab	2	30	20	50
	BID 106-P	Graphics-Lab	2	30	20	50
	BID 107-P	Fundamental of IT-Lab	1	30	20	50
TOTAL			17	335	165	500

Bachelor of Interior Design						
Session-2022-23						
SEMESTER-II						
Course Type	Subject Code	PAPERS	Credits	EXTERNAL MARKS	INTERNAL MARKS	TOTAL MARKS
AECC-2		Choose Any One (201A/202B)	2	35	15	50
	BID 201A	Environmental Studies				
	BID 202B	NCC				
CC-2	BID 202	Colour and Lighting	4	70	30	100
Allied -2	BID 203	Interior Design Studio and Building System Technology - I	3	70	30	100
SEC-2	BID 204	Soft Skills and Personality Enhancement	3	70	30	100
	BID 205P	Design Concept-II-Lab	2	30	20	50
	BID 206P	Interior Design Studio-I	2	30	20	50

TOTAL	16	305	145	450
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* Student has to undergo for Internship Assessment completion of 2nd Semester which is to be evaluated in 3rd Semester

Bachelor of Interior Design						
Session-2022-23						
SEMESTER-III						
Course Type	Subject Code	PAPERS	Credits	EXTERNAL MARKS	INTERNAL MARKS	TOTAL MARKS
CC-3	BID 301	Basic Computer Application and Auto CAD-I	4	70	30	100
CC-4	BID 302	Draftsmanship-I	4	70	30	100
Allied -3	BID 303	Interior Design Studio and Building System Technology-II	3	70	30	100
SEC-3	BID 304	Basics of Interior Design-I	3	70	30	100
	BID 305P	Auto CAD-I-Lab	2	30	20	50
	BID 306P	Interior Design Studio-II-Lab	2	30	20	50
	BID 307P	Internship Assessment	2	30	20	50
TOTAL			20	370	180	550

Bachelor of Interior Design						
Session-2022-23						
SEMESTER-IV						
Course Type	Subject Code	PAPERS	Credits	EXTERNAL MARKS	INTERNAL MARKS	TOTAL MARKS
CC-5	BID 401	Basic computer Application and Auto CAD-II	4	70	30	100
CC-6	BID 402	Draftsmanship-II	4	70	30	100
Allied -4	BID 403	Interior Design studio and Building System Technology-III	3	70	30	100
SEC-4	BID 404	Basics of Interior Design-II	3	70	30	100
	BID 405P	Auto CAD-II-Lab	2	30	20	50
	BID 406P	Interior Design Studio-III-Lab	2	30	20	50
TOTAL			18	340	160	500

* Student has to undergo for Internship Assessment completion of 4th Semester which is to be evaluated in 5th Semester

Bachelor of Interior Design						
Session-2022-23						
SEMESTER-V						
Course Type	Subject Code	PAPERS	Credits	EXTERNAL MARKS	INTERNAL MARKS	TOTAL MARKS
CC-7	BID 501	Furniture in Interiors	4	70	30	100
CC-8	BID 502	Floriculture and Landscaping	4	70	30	100
CC-9	BID 503	Planning the Life Space	4	70	30	100
SEC-5	BID 504	Residential Space Designing	3	70	30	100
DSE-1		Elective-I Choose Any One (505A/505B/505C)	4	70	30	100
	BID 505A	Consumer and Merchandising				
	BID 505B	Kitchen Design				
	BID 505C	House Keeping and Front Office Management				
	BID 506P	Furniture and Furnishings-I-Lab	2	30	20	50
	BID 507P	Floriculture and Landscaping-I-Lab	2	30	20	50
	BID 508P	Internship Assessment	2	30	20	50
TOTAL			25	440	210	650

Bachelor of Interior Design**Session-2022-23****SEMESTER-VI**

Course Type	Subject Code	PAPERS	Credits	EXTERNAL MARKS	INTERNAL MARKS	TOTAL MARKS
CC-10	BID 601	Soft Furnishings	4	70	30	100
CC-11	BID 602	Applied Arts	4	70	30	100
SEC-6	BID 603	Commercial Space Designing	3	70	30	100
DSE-2		Elective-II Choose Any One (604A/604B/604C)	4	70	30	100
	BID 604A	Professional Practice				
	BID 604B	Environmental control in Interiors				
	BID 604C	Fine – Arts Drawing and Painting				
DSE-3		Elective-III Choose Any One (605A/605B/605C)	4	70	30	100
	BID 605A	Ergonomics				
	BID 605B	Green Building Technology				
	BID 605C	Entrepreneurial Development				
	BID 606P	Project	5	100	50	150
		TOTAL	24	450	200	650

**FACULTY OF SCIENCE
DEPARTMENT OF INTERIOR DESIGN
KALINGA UNIVERSITY, RAIPUR**

Name of the Program – Semester: BID-I	Course:
Name of Course: English	Course code: BID 101 A
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks: 70)	No of Contact Hours: 30

COURSE OBJECTIVE

The purpose of this course is to introduce students to the theory, fundamentals and tools of communication and to develop in them vital communication skills which should be integral to personal, social, and professional interactions. One of the critical links among human beings and an important thread that binds society together is the ability to share thoughts, emotions and ideas through various means of communication: both verbal and non-verbal. In the context of rapid globalization and increasing recognition of social and cultural pluralities, the significance of clear and effective communication has been substantially enhanced.

COURSE OUTCOME:

It will enhance the Language of communication, various speaking skills such as personal communication, social interactions and communication in professional situations such as interviews, group discussions and office environments, important reading skills as well as writing skills such as report writing, notetaking etc. While, to an extent, the art of communication is natural to all living beings, in today's world of complexities, it has also acquired some elements of science. It is hoped that after studying this course, students will find a difference in their personal and professional interactions.

CONTENTS

Unit I: Introduction:

Contact Hours: 06

Theory of Communication, Types, and modes of Communication, Mediums and channels of communication, barriers to communication, English as a Global language, the Lingua Franca, Social influences on English

Unit II: Language of Communication:

Contact Hours: 06

Verbal and Non-verbal (Spoken and Written) Personal, Social and Business Barriers and Strategies Intra-personal, Inter-personal and Group communication, *Varieties of English, Language, Accent, Dialect, Colloquialism, Historical influences on English*

Unit III: Speaking Skills:

Contact Hours: 06

Monologue Dialogue Group Discussion Effective Communication/ Mis- Communication Interview Public Speech, *Regional influences on English, Convergence and divergence, Linguistic Imperialism,*

Unit IV: Reading and Understanding:

Contact Hours: 06

Close Reading, Reading analysis of a text - Audience and purpose, Content and theme, Tone and Mood, stylistic devices, structure Comprehension- Analysis and Interpretation Translation (from Indian language to English and vice-versa) Literary/Knowledge Texts

Unit V: Writing Skills

Contact Hours: 06

Documenting Report Writing Making notes Letter writing, Writing tabloids, diary entry, open letters, essays, newsletter and magazine articles, skits, short stories, impersonating characters

RECOMMENDED READINGS:

1. Fluency in English - Part II, Oxford University Press, 2006.
2. Business English, Pearson, 2008.
3. Language, Literature and Creativity, Orient Blackswan, 2013.
4. Language through Literature (forthcoming) ed. Dr. Gauri Mishra, Dr Ranjana Kaul, Dr Brati Biswas

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Name of the Program – Semester: BID-I	Course:
Name of Course: Design Basics	Course code: BID 102
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks: 70)	No of Contact Hours: 60

COURSE OBJECTIVES:

To enable the students to

1. Understand the elements and principles of design.
2. Learn the importance of art elements in the creation of new designs.
3. Learn the application of principles of design in creating beautiful interiors.

COURSE OUTCOME:

BID102.1: Understand and communicate fundamental concepts and theories of design and styles in interior design.

BID 102.2: Understand the types of design and apply theories and tools in making new designs.

BID 102.3: Understand the elements of design and their importance in making new designs.

BID 102.4: Understand principles of design and its application in interior design.

BID 102.5: Learn the application of motifs with role and carrier options for interior designers.

CONTENTS

UNIT-I

Contact Hours: 12

Interior Design – Meaning and concepts. Development - a historic review. Place of interior design in the modern era- changing trends and salient features. Objectives of aesthetic planning - Beauty, expressiveness, functionalism and economy. Good taste – meaning, role and importance. Need for developing skill in aesthetics.

UNIT-II

Contact Hours: 12

Design –Definition, meaning, purpose. Types - Structural and decorative design and characteristics. Classification of decorative design - Naturalistic, conventional, geometric, abstract, historic, and biomorphic.

UNIT-III

Contact Hours: 12

Elements of design - Line and direction, form and shape, size, colour, light, pattern, texture and space. Application of elements to form designs in interior and exterior.

UNIT-IV

Contact Hours: 12

Principles of design –Balance, rhythm, emphasis, harmony, proportion – meaning, and its application in the interior and exterior houses and other commercial buildings.

UNIT-V

Contact Hours: 12

Motif- meaning. Development of design from motifs and application of motifs in interior decoration.

Man is a consumer of design, qualities and role of a good interior designer. Career options for interior designers.

REFERENCES:

1. Faulkner, S. and Faulkner, R, (1987), Inside Today's Home, Rinehart Publishing company, New york.
2. Caroline cliften et. al., The Complete Home Decorator, Portland House New York.
3. Seetharaman, P and Pannu, P. Interior Design and Decoration, CBS Publishers and Distributors, New Delhi
4. Pratap R.M (1988), Interior Design Principles and Practice, Standard Publishers Distribution, Delhi.
5. Goldstein, Art in Everyday life, Oxford and IBH Publishing House.

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Name of the Program – Semester: BID-I	Course:
Name of Course: Graphics	Course code: BID 103
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks: 70)	No of Contact Hours: 60

COURSE OBJECTIVES:

The course aims to equip students with the knowledge and skills necessary for effective graphical representation in the field of engineering, promoting clear communication and precise documentation of designs and ideas.

COURSE OUTCOME:

BID103.1: Students will understand the significance of engineering graphics and be proficient in the usage of essential drawing instruments for making drawings.

BID103.2: Students will have the ability to accurately calculate areas and volumes of geometric shapes, effectively apply different scales for graphical representation, and utilize drafting scales to ensure accurate and proportionate drawings in engineering graphics.

BID103.3: Students will be capable of accurately representing points, lines, and basic geometric solids using orthographic projection techniques in engineering graphics.

BID103.4: Students will be proficient in creating accurate cross-sectional representations of diverse geometric solids such as cylinders, prisms, cones, and pyramids in engineering drawings.

BID103.5: Students will possess the ability to accurately unfold and depict the surfaces of basic geometric solids.

CONTENT

UNIT 1: INTRODUCTION:

Contact Hours: 10

Introduction to engineering graphics, Principles of Engineering Graphics and their significance, Usage of Drawing instruments, stationary materials required – scales, protractor, French curves, drawing sheets, papers, pencils, erasers, drawing pins, drafting table, T-Scale, Sheet layout, fixing the sheet on board, cleaning the instruments Types of lines, Graphic symbols, Lettering.

UNIT 2: AREAS, VOLUME & SCALE:

Contact Hours: 10

Area and volume: Study of various planes: Triangle, pentagon, hexagon, etc.

Study of various solids: Cylinder, prism, cone, Pyramid, Sphere, etc.

Scale: Plain Scale, Diagonal Scale, and isometric scale.

Drafting scale: True Scale, enlarging scale, reducing scale, representative fraction.

UNIT-3: ORTHOGRAPHIC PROJECTION:

Contact Hours: 15

Orthographic projection of points, lines, and various simple geometric solids such as cylinders, prism, cones, pyramids, etc.

UNIT -4: SECTION OF SOLIDS:

Contact Hours: 15

Section of solid of various simple geometric solids such as cylinder, prism, cone, pyramid, etc.

UNIT -5: SURFACE DEVELOPMENT:**Contact Hours: 10**

Development of surfaces of various simple geometric solids such as cylinders, prism, cones, pyramids etc.

TEXTBOOKS:

1. Engineering Drawing (Plane and Solid Geometry) BY N. D. Bhatt, Charotar Publishing House, Gujarat.
2. A Text Book of Engineering Drawing BY R. K. Dhawan, Publication: S. Chand & Co. Ltd.

REFERENCES:

1. Engineering Drawing, BY P. S. Gill, Publication: S K Kataria & Sons.
2. Civil Engineering Drawing BY Gurucharan Singh, Publication: Standard Publishers & Distributors, Delhi.
3. Agrawal B. & Agrawal C. M. (2012), Engineering Graphics, TMH Publication.
4. Narayana, K.L. & P Kannaiah (2008), Text book on Engineering Drawing, Scitech Publishers

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Name of the Program – Semester: BID-I	Course:
Name of Course: Fundamentals of IT	Course code: BID 104
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks: 70)	No of Contact Hours: 45

COURSE OBJECTIVES:

This is a basic course for interior design students to familiarize themselves with computers and their applications in the relevant fields and exposes them to other related courses in IT.

COURSE OUTCOME: After completion of the course students will

BID104.1: Understand the evolution of computers, classify different types of computers, identify major computer hardware components, describe the input and output devices, explain the computer IPO cycle, and comprehend various memory types and storage devices used in digital computers.

BID104.2: Understand and work with different number systems (decimal, binary, octal, and hexadecimal), perform conversions between them, grasp the concepts of system software, operating systems, and various software types (assemblers, compilers, interpreters, linkers, application software, and firmware software) in the context of computer systems.

BID104.3: Able to comprehend the fundamentals of the internet, computer networks (LAN and WAN), and the World Wide Web (WWW). They will also gain the skills to use web browsing software, search engines, access web content, troubleshoot internet connectivity issues, and effectively navigate and utilize online resources, including e-governance websites.

BID104.4: proficient in using word processing software, including advanced features like text editing, formatting, document structure (tables, headers, footers), mail merge, and printing. Additionally, they will have the skills to work with spreadsheets, input data, perform calculations, format cells, manipulate rows and columns, and create charts for data visualization.

BID104.5: Proficient in using presentation software, including creating effective PowerPoint presentations, utilizing different views, adding transitions and animations, controlling slide shows, and setting timings for dynamic and engaging presentation delivery.

Unit No.	D e t a i l s	Nos. of Hours
1	<p>Introduction to Computers:</p> <p>The evolution of computers –Computer Generation Classifications of Computers – Micro Mini, Mainframe Super Computers Distributed Computer System Parallel Computers Computer Hardware – Major Components of a Digital Computer Block Diagram of Computer Input devices Output devices Description of Computer IPO Cycle CPU</p> <p>Computer Memory:</p> <p>Memory Types, Units of memory Read Only Memory, Random Access Memory, Serial Access Memory, Physical Devices Used to construct Memories, Hard disk, Floppy Disk Drives, CD, DVD, Flash Drives, Magnetic Tape Drives.</p>	09
2	<p>Number System:</p> <p>Decimal, Binary, Octal, Hexa-decimal. Conversion - Decimal to all other number systems, Binary to octal and Hexa Decimal,</p> <p>Computer Software:</p> <p>System software, Operating System concepts, Different types of operating systems, Assemblers, Compilers, Interpreters, linkers, Application Software, Firmware Software,</p>	09

3	Introduction of Internet and Objectives Basic of Computer Networks Local Area Network (LAN) Wide Area Network (WAN) Internet Concept of Internet Applications of Internet Connecting to the Internet Troubleshooting World Wide Web (WWW) Web Browsing Software Popular Web Browsing Software	09
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	<p>Search Engines Popular Search Engines / Search for content Accessing Web Browser Using Favorites Folder Downloading Web Pages Printing Web Pages Understanding URL Surfing the web Using e-governance website</p>	
4	<p>Word Processor: Word Processor and its features, Editing of Text, Find and replace, Bullets and Numbering, Spell Checker, Grammar Checker, Auto Correct, Auto Complete, Auto Text, Header and footer, tables, mail merge, border and shading, page setup, Printing. Spread sheet: Spread sheet and its features, Entering Information in Worksheet, Editing Cell Entry, Moving and Copying Data, deleting or Inserting Cells, Rows and Columns, Custom Numeric Formats, Using Formulas and functions, Creating charts.</p>	09
5	<p>Presentation Software Presentation Software and its uses, steps for creating Power Point Presentation, PowerPoint Views, Assigning Slide Transitions, Using Preset Animations, Hiding Slides, Slide Show, Controlling the Slide Show with a Keyboard, Setting Slide Show Timings.</p>	09

TEXTBOOKS:

1. Alex Leon & Mathews Leon, "Fundamentals of Information Technology", Leon Techworld, 1999.
2. Vikas Gupta, "Comdex Computer Kit", Wiley Dream tech, Delhi, 2004
3. P. K. Sinha & Priti Sinha, "Computer Fundamentals", BPB Publications, 1992.

REFERENCE BOOKS:

1. V. Raja Raman, "Introduction to Computers", PHI, 1998.
2. Alex Leon & Mathews Leon, "Introduction to Computers", Vikas Publishing House, 1999.
3. Norton Peter, "Introduction to computers", 4th Ed., TMH, 2001.

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Name of the Program – Semester: BID-I	Course:
Name of Course: DESIGN CONCEPTS-I-Lab	Course code: BID 105P
Total Marks for Evaluation: 50 (Internal Marks: 30 External Marks:20)	No of Contact Hours: 30

COURSE OBJECTIVES:

To enable the students to

1. Draw different types of designs and develop designs by using motifs.
2. Acquire skill in arranging areas of a house by using bubble diagrams and principles of design.

COURSE OBJECTIVE:

BID105P.1: Students encompass a comprehensive understanding and application of principles and concepts in various aspects of design, art, and interior decoration, fostering creativity and critical thinking in design-related fields.

CONTENTS:

1. Draw structural and decorative design and comment on its features.
2. Apply design concepts in developing greeting card, saree border, floor decorations – flower carpet and rangoli.
3. Evaluate the given art objects.
4. Develop a motif suitable for foot mat, window grill, table mat and furnishing materials.
5. Apply principles of design in display of handicrafts and textiles.
6. Apply the art principles in arrangement of: Living room, drawing room, pooja room, bedroom, adolescent boys or girl's room, children's room and birthday party.
7. Submission of Record.

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Name of the Program – Semester: BID-I	Course:
Name of Course: Graphics-LAB	Course code: BID 106 P
Total Marks for Evaluation: 50 (Internal Marks: 30 External Marks:20)	No of Contact Hours: 30

COURSE OBJECTIVES:

The course aims to equip students with the knowledge and skills necessary for effective graphical representation in the field of engineering, promoting clear communication and precise documentation of designs and ideas.

COURSE OUTCOME:

BID106P.1: Students will understand the significance of engineering graphics and be proficient in the usage of essential drawing instruments for making drawings.

BID106P.2: Students will have the ability to accurately calculate areas and volumes of geometric shapes, effectively apply different scales for graphical representation, and utilize drafting scales to ensure accurate and proportionate drawings in engineering graphics.

BID106P.3: Students will be capable of accurately representing points, lines, and basic geometric solids using orthographic projection techniques in engineering graphics.

BID106P.4: Students will be proficient in creating accurate cross-sectional representations of diverse geometric solids such as cylinders, prisms, cones, and pyramids in engineering drawings.

BID106P.5: Students will possess the ability to accurately unfold and depict the surfaces of basic geometric solids.

CONTENT

- a. Lettering by (a) Standard Proportion (b) Styled (c) Using any equipment or stencil.
- b. Drawing of various geometrical planes & Solids with Lateral surface, whole surface & Volume of simple geometrical solids.
- c. Exercise on Plain, Diagonal & Isometric scale.
- d. Exercise on True scale, enlarging scale and reducing scale
- e. Develop Orthographic Projection of simple geometrical solids. (Prism, Cylinder, Pyramid, Cone Sphere).
- f. Draw Section of solids. (Simple Sections)
- g. Development of surfaces of various solids.

TEXTBOOKS:

1. Engineering Drawing (Plane and Solid Geometry) BY N. D. Bhatt, Charotar Publishing House, Gujarat.
2. A Text Book of Engineering Drawing BY R. K. Dhawan, Publication: S. Chand & Co. Ltd.

REFERENCES:

1. Engineering Drawing, BY P. S. Gill, Publication: S K Kataria & Sons.
2. Civil Engineering Drawing BY Gurucharan Singh, Publication: Standard Publishers & Distributors, Delhi.
3. Agrawal B. & Agrawal C. M. (2012), Engineering Graphics, TMH Publication.
4. Narayana, K.L. & P Kannaiah (2008), Text book on Engineering Drawing, Scitech Publishers

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Name of the Program – Semester: BID-I	Course:
Name of Course: Fundamentals of IT LAB	Course code: BID 107P
Total Marks for Evaluation: 50 (Internal Marks: 30 External Marks:20)	No of Contact Hours: 30

COURSE OBJECTIVES:

This is a basic course for Commerce students to familiarize with computer and its applications in the relevant fields and exposes them to other related courses of IT.

COURSE OUTCOME:

BID107P.1: Students will be proficient in using MS Word for text manipulation, formatting, and document creation, including the usage of templates, tables, headers, and various tools. They will also be able to perform mail merges, use spell check and find-and-replace functions, insert and align pictures, and work with multiple documents efficiently. Additionally, they will learn how to copy content from Excel and insert symbols into documents.

BID107P.2: Students will be proficient in using MS-Excel for creating and managing worksheets, data entry and editing, utilizing a variety of functions, formatting data and cells, manipulating rows and columns, creating charts, and effectively controlling the appearance and content of Excel charts.

BID107P.3: Students will be proficient in creating, formatting, and presenting PowerPoint presentations, including working with slides, headers and footers, slide layouts, fonts, bullets, clip art, transition and animation effects, and confidently running and delivering slide shows for effective communication.

Unit No.	Details	Nos. of Hours
	<p>MS-WORD</p> <ol style="list-style-type: none"> 1. Text Manipulations 2. Usage of Numbering, Bullets, Tools and Headers 3. Usage of Spell Check and Find and Replace 4. Text Formatting 5. Picture Insertion and Alignment 6. Creation of Documents Using Templates` 7. Creation of Templates 8. Mail Merge Concept 9. Copying Text and Picture from Excel 10. Creation of Tables, Formatting Tables 11. Splitting the Screen 12. Opening Multiple Document, Inserting Symbols in Documents <p>MS-EXCEL</p> <ol style="list-style-type: none"> 1. Creation of Worksheet and Entering Information 2. Aligning, Editing Data in Cell 3. Excel Function (Date, Time, Statistical, Mathematical, Financial Functions) 4. Changing of Column Width and Row Height (Column and Range of Column) 5. Moving, copying, Inserting and Deleting Rows and Columns 6. Formatting Numbers and Other Numeric Formats 7. Drawing Borders Around Cells 8. Creation of Charts Raising Moving 9. Changing Chart Type 10. Controlling the Appearance of a Chart 	30

	MS -POWER POINT	
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Working With Slides

1. Creating, saving, closing presentation
2. Adding Headers and footers
3. Changing slide layout
4. Working fonts and bullets
5. Inserting Clip art: working with clipart,
6. Applying Transition and animation effects
7. Run and Slide Show

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KALINGA UNIVERSITY, RAIPUR**

Name of the Program – Semester: BID-II	Course:
Name of Course: Environmental Science	Course code: BID 201 A
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

COURSE OBJECTIVE

The course aims to provide a comprehensive understanding of environmental studies, including its multidisciplinary nature, the significance of sustainability, ecosystems and biodiversity, the impact of natural resource management, pollution, environmental policies, and the interaction between human communities and the environment, with a focus on Indian context through case studies and practical examples.

COURSE OUTCOME:

- BID201A.1: To understand fundamentals of environment.
- BID201A.2: To understand about the concept of natural resources.
- BID201A.3: To understand about the concept biodiversity and conservation.
- BID201A.4: To understand environmental pollution.
- BID201A.5: To understand Human Communities and the Environment.

CONTENTS:

Unit 1: Introduction to Environmental Studies

Contact Hours: 06

1. Multidisciplinary nature of environmental studies;
2. Scope and importance; Concept of sustainability and sustainable development.
3. What is an ecosystem? Structure and function of the ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems:
 - a. Forest ecosystem
 - b. Grassland ecosystem
 - c. Desert ecosystem
 - d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Unit 2: Natural Resources: Renewable and Non-renewable Resources

Contact Hours: 06

1. Land resources and land use change; Land degradation, soil erosion, and desertification.
2. Deforestation: Causes and impacts due to mining, and dam building on the environment, forests, biodiversity, and tribal populations.
3. Water: Use and over-exploitation of surface and groundwater, floods, droughts, and conflicts over water (international and inter-state).
4. Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

Unit 3: Biodiversity and Conservation:

Contact Hours: 05

1. Levels of biological diversity: genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots
2. India as a mega-biodiversity nation; Endangered and endemic species of India
3. Threats to biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.
4. Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.

Unit 4: Environmental Pollution**Contact Hours: 09**

1. Environmental pollution: types, causes, effects, and controls; Air, water, soil, and noise pollution
2. Nuclear hazards and human health risks
3. Solid waste management: Control measures of urban and industrial waste.
4. Pollution case studies.

Environmental Policies & Practices

1. Climate change, global warming, ozone layer depletion, acid rain, and impacts on human communities and agriculture
2. Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and Control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements: Montreal and Kyoto Protocols and Convention on Biological Diversity (CBD).
3. Nature reserves, tribal populations and rights, and human-wildlife conflicts in the Indian context.

Unit 5: Human Communities and the Environment**Contact Hours: 04**

1. Human population growth: Impacts on environment, human health and welfare.
2. Resettlement and rehabilitation of project-affected persons; case studies.
3. Disaster management: floods, earthquakes, cyclones, and landslides.
4. Environmental movements: Chipko, Silent Valley, Bishnois of Rajasthan.
5. Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.
6. Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi).

Suggested Readings:

- I. Carson, R. 2002. *Silent Spring*. Houghton Mifflin Harcourt.
- J. Gadgil, M., & Guha, R. 1993. *This Fissured Land: An Ecological History of India*. Univ. of California Press.
- K. Gleeson, B. and Low, N. (eds.) 1999. *Global Ethics and Environment*, London, Routledge.
- L. Gleick, P. H. 1993. *Water in Crisis*. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
- M. Groom, Martha J., Gary K. Meffe, and Carl Ronald Carroll. *Principles of Conservation Biology*. Sunderland: Sinauer Associates, 2006.
- N. Grumbine, R. Edward, and Pandit, M.K. 2013. Threats from India's Himalaya dams. *Science*, 339: 36-37.
- O. McCully, P. 1996. *Rivers no more: the environmental effects of dams*(pp. 29-64). Zed Books.
- P. McNeill, John R. 2000. *Something New Under the Sun: An Environmental History of the Twentieth Century*.
- Q. Odum, E.P., Odum, H.T. & Andrews, J. 1971. *Fundamentals of Ecology*. Philadelphia: Saunders.
- R. Pepper, I.L., Gerba, C.P. & Brusseau, M.L. 2011. *Environmental and Pollution Science*. Academic Press.
- S. Rao, M.N. & Datta, A.K. 1987. *Waste Water Treatment*. Oxford and IBH Publishing Co. Pvt. Ltd.
- T. Raven, P.H., Hassenzahl, D.M. & Berg, L.R. 2012. *Environment*. 8th edition. John Wiley & Sons.
- U. Rosencranz, A., Divan, S., & Noble, M. L. 2001. *Environmental law and policy in India*. Tripathi 1992.
- V. Sengupta, R. 2003. *Ecology and economics: An approach to sustainable development*. OUP.
- W. Singh, J.S., Singh, S.P. and Gupta, S.R. 2014. *Ecology, Environmental Science and Conservation*. S. Chand Publishing, New Delhi.
- X. Sodhi, N.S., Gibson, L. & Raven, P.H. (eds). 2013. *Conservation Biology: Voices from the Tropics*. John Wiley & Sons.
- Y. Thapar, V. 1998. *Land of the Tiger: A Natural History of the Indian Subcontinent*.
- Z. Warren, C. E. 1971. *Biology and Water Pollution Control*. WB Saunders.
- AA. Wilson, E. O. 2006. *The Creation: An appeal to save life on earth*. New York: Norton.
- BB. World Commission on Environment and Development. 1987. *Our Common Future*. Oxford University Press.

**FACULTY OF SCIENCE
DEPARTMENT OF INTERIOR DESIGN
KALINGA UNIVERSITY, RAIPUR**

Name of the Program – Semester: BID-II	Course:
Name of Course: COLOUR AND LIGHTING	Course code: BID 202
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

COURSE OBJECTIVES:

To enable the students to

1. Learn the concepts of colour and lighting.
2. Learn skills in using colour and light in a functional context.
3. Impart knowledge of recent trends in colour and lighting.

COURSE OUTCOME:

BID202.1: Students will have a comprehensive understanding of the role and significance of color in both interior and exterior design.

BID202.2: Students will understand the different colour systems and colour harmonies.

BID202.3: Students will understand the application of colour schemes. And the effect of light on colour.

BID202.4: Students will have a comprehensive grasp of the critical role lighting plays in interior and exterior design.

BID202.5: Students will understand the principle of lighting and selection of lighting for interior and exterior spaces

CONTENTS:

UNIT-I

Contact Hours: 09

Concept of colour - significance of colour in the interiors and exteriors-Dimensions of colour –Hue, value, intensity, Effects of Hue, Value and Intensity. Colour Therapy.

UNIT-II

Contact Hours: 09

Colour systems - Prang, Munsell and Ostwald. Planning colour harmonies-related and contrasting. Non-mechanical – readymade and nature based. Factors considered in selecting colour harmonies.

UNIT-III

Contact Hours: 09

Application of colour harmonies in the interiors and exteriors, Effect of light on colour, Illusion of colour, psychology of colour, effect of colour on each other.

UNIT-IV

Contact Hours: 09

Importance of lighting, Sources – Natural and Artificial lighting, Types – based on material, reflection, architectural elements and uses. Specific factors in lighting – measurements of lighting, location and direction, size and shape, and colour. Economy in lighting, psychological aspects of light, Glare - its types, causes and prevention.

UNIT-V

Contact Hours: 09

Lighting accessories – Selection of lamps and lighting fixtures, lighting for various areas and specific activities, modern features in lighting design. Principles of lighting.

REFERENCES:

1. Faulkner, R. and Faulkner, S.(1987), Inside Today's Home, Rine Hart Publishing Company, New York.
2. Judy,M.,(1994), How to See, How to Paint it, Harpen Colling Publishers,London.
3. Jan Orcharchd (1993), Lighting for a Beautiful Home, Dunestyle Publishing Ltd.,U.S.A.
4. Seetharam, P and Pannu, P.Interior Design and Decoration, CBS Publishers and distributors, New Delhi.
5. Stewart and Sally .W., (1997), The Complete Home Decorator, Annes publishers Ltd., New york.

**FACULTY OF SCIENCE
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Name of the Program – Semester: BID-II	Course:
Name of Course: Interior Design Studio and Building System Technology – I	Course code: BID 203
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 60

COURSE OBJECTIVE:

To introduce the various building elements and their functions. To familiarize the students with different tools/ equipment used in building construction. To enable them to understand the concept of load transfer in load bearing and framed structures. To help them to understand the properties and uses of traditional and modern building materials.

COURSE OUTCOME:

BID203.1: Understand the fundamentals of building construction, including load transfer, and differentiate between load-bearing and framed structures.

BID203.2: Explore traditional building materials such as mud, clay, lime, timber, bamboo, and stone, focusing on their properties, uses, defects, and preservation.

BID203.3: Learn about modern building materials like bricks, cement, glass, and wood-based materials, including their types, properties, and applications.

BID203.4: Comprehend the purpose and significance of lintels in earthquake-resistant construction, distinguish between precast and cast-in-situ lintels, and explore various lintel materials.

BID203.5: Gain knowledge of load transfer in arches, terminology related to arch construction, and the classification and construction of arches using different materials and shapes.

CONTENTS:

Unit I: Construction Technology

Contact Hours: 12

Introduction to elements of the building, from foundation to roof; Tools/equipment commonly used in building construction; Concept of load transfer in load bearing and framed structures, their advantages, disadvantages, and applicability.

Unit II: Traditional/Vernacular Building Materials

Contact Hours: 12

Mud, including stabilized earth, clay and clay products, lime, timber, bamboo, stone, etc.; Their properties, use, defects, and preservations.

Unit III: Modern Building Materials

Contact Hours: 12

Bricks, sand, cement, mortar, P.C.C., R.C.C., Glass, Wood-based materials; Their types, properties, and uses.

Unit IV: Lintels

Contact Hours: 12

Purpose of lintels and their importance in making buildings earthquake resistant. Difference between precast and cast-in-situ lintels. Lintels with different materials like timber, stone, steel, R.C.C., etc.

Unit V: Arches

Contact Hours: 12

Load transfer in arches; Terms used in arch construction; Classification of arches with reference to their shapes, materials, construction techniques, and centers; Construction of arches in various materials and shapes.

Textbooks:

- Building Construction, Sushil Kumar

References:

- Building Construction, W.B. McKay, Vols. 1-4
- Building Construction Illustrated, Francis D.K. Ching
- Building Construction and Materials, M.V. Naik
- Construction of Buildings, Richard Barry, Vols. 1-5
- Construction Technology, Chudley, Vols. 1-6
- Elementary Building Construction, Mitchell
- Time Saver Standards for Building Materials and Systems, Joseph DeChiara

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Name of the Program – Semester: BID-II	Course:
Name of Course: Soft Skills and Personality Enhancement	Course code: BID 204
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 30

COURSE OBJECTIVE:

1. Develop effective teamwork skills and understand team dynamics, leadership, and management
2. Master negotiation techniques, telephonic etiquette, and professional grooming.
3. Learn stress management, time management, and self-improvement strategies.
4. Enhance presentation and organizational skills, including leadership development.
5. Develop effective communication skills through group discussions, interviews, public speaking, and conference participation.

COURSE OUTCOME:

BID204.1: Team Building: Understand synergy and effective team characteristics.

BID204.2: Organizing Meetings: Acquire skills to plan and manage meetings effectively.

BID204.3: Stress Management: Recognize stress types, and symptoms, and employ stress management techniques.

BID204.4: Presentation Skills: Develop presentation creation, audience understanding, and delivery proficiency.

BID204.5: Group Discussion: Learn argument formation, defense, and respectful discussion.

CONTENTS:

Unit – I

Contact Hours: 6

- (I) Team Building – The magic of synergy, characteristics of an effective team, essentials of an effective team, Team Dynamics, Team Leading, Managing a Team.
- (II) Art of Negotiation –To understand what is negotiation, Ways of negotiating and being successful in it, to understand the power of language and non-verbal communication.
- (III) Grooming –To learn selection of proper attire as per the place, practiced perception, how to carry one’s self, how to project one’s self in the positive frame and spirit.

Unit – II

Contact Hours: 6

- (I) Organising Meetings – How to announce, call and organize a meeting in a smooth manner, how to design Agenda and prepare Minutes of Meeting
- (II) Telephonic Etiquettes –Learn the tone and pitch of voice while speaking over phone, How to send a voice mail.
- (III) Business Etiquettes –What does business etiquettes mean, Professional and Cultural expectations, Effective writing, Corporate Communication, Interaction with foreign clients.

Unit –III

Contact Hours: 6

- (I) Stress Management –Types of stress, Symptoms and causes of Stress, Power of perception, Reaction to stress, Stress Management techniques.
- (II) Time Management – Importance of Time Management, Prioritising Tasks, Goal setting, Barriers to Time Management, Planning Routine and Time Tables.
- (III) Self-Management –Self-evaluation, Self-discipline, Self-criticism, SWOT analysis, Self-Awareness, Development of the Self.

Unit – IV**Contact Hours: 6**

- (I) Presentation Skills –How to prepare a presentation, Knowing the audience and their requirements, Effective ways to deliver presentation, how to prepare Multimedia presentation.
- (II) Organisational Skills – How to understand the nature and structure of organisation, To understand hierarchy and communication channel of the organisation, Clarity about the roles and responsibilities in an organisation, How to be a team member, How to draft reports
- (III) Leadership Skills

Unit – V**Contact Hours: 6**

- (I) Group Discussion – Understanding the nature of discussion, Difference between debate and discussion, Ways to form and present arguments, Ways to defend your point.
- (II) Personal Interview –To learn the skills of appearing in an interview and being successful in it.
- (III) Public Speaking – Art of public speaking, To know the rhetoric of making a public speech, exploring rhetorical elements through various ideas.
- (IV) Conference and Meeting, Participation and Technical clarity in conference and meeting, learning to listen and respond, Final Report drafting.

REFERENCE BOOKS: -

1. Soft Skill for everyone –Jeff Butterfield
2. Soft Skill for-S.I. Hariharan -MJP Publications
3. Personality Development & Soft skill – Goyal Brothers Prakasan

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Name of the Program – Semester: BID-II	Course:
Name of Course: Concept-II-Lab Design	Course code: BID 205P
Total Marks for Evaluation: 50 (Internal Marks: 20 External Marks:30)	No of Contact Hours: 30

COURSE OBJECTIVE:

To develop practical skills in architectural design, including space planning and interior concepts, through the creation of a duplex bungalow or office design, fostering creativity and problem-solving abilities.

COURSE OUTCOME:

BID205P.1: Students will learn the process of finding requirements for duplex bungalows through case studies.

BID205P.2: Student will be able to create a plan of duplex bungalow or office.

BID205P.3: Student will learn how to develop elevation of design projects.

BID205P.4: Student will understand the placement of furniture as per specific room.

BID205P.5: Student will learn the presentation of drawings.

CONTENTS:

1. Design a Duplex bungalow or an Office. Keeping in mind the requirement and connectivity between spaces.
2. Use brainstorming to develop concepts and sketches to show interior views.

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Name of the Program – Semester: BID-II	Course:
Name of Course: Interior Design Studio-I-Lab	Course code: BID 206P
Total Marks for Evaluation: 50 (Internal Marks: 20 External Marks:30)	No of Contact Hours: 30

COURSE OBJECTIVE:

To introduce the various building elements and their functions. To familiarize the students with different tools/ equipment used in building construction. To enable them to understand the concept of load transfer in load bearing and framed structures. To help them to understand the properties and uses of traditional and modern building materials.

COURSE OUTCOME:

BID203.1: Understand the fundamentals of building construction, including load transfer, and differentiate between load-bearing and framed structures.

BID203.2: Explore traditional building materials such as mud, clay, lime, timber, bamboo, and stone, focusing on their properties, uses, defects, and preservation.

BID203.3: Learn about modern building materials like bricks, cement, glass, and wood-based materials, including their types, properties, and applications.

BID203.4: Comprehend the purpose and significance of lintels in earthquake-resistant construction, distinguish between precast and cast-in-situ lintels, and explore various lintel materials.

BID203.5: Gain knowledge of load transfer in arches, terminology related to arch construction, and the classification and construction of arches using different materials and shapes.

CONTENTS

1. Develop a drawing of the building section from the foundation to the staircase tower.
2. Develop drawings of Various Brick Bonds i.e., Header stretcher English and Flemish Bonds.
3. Develop drawings of various types of lintels.
4. Develop drawings of various types of Arches.
5. Develop a format for sheet work submission.

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Name of the Program – Semester: BID-III	Course:
Name of Course: Basic Computer Application and Auto Cad-I	Course code: BID 301
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 60

COURSE OBJECTIVES:

To enable the students to learn to draw simple floor plan using AutoCAD commands.

COURSE OUTCOME:

BID301.1: The course provides students with a comprehensive understanding of AutoCAD's interface, system requirements, GUI elements, essential toolbars, commands, and concepts.

BID301.2: Students will be adept at utilizing various point fixing methods (absolute Cartesian, relative rectangular, and relative polar coordinates) and creating geometric shapes (line, circle, arc, ellipse, rectangle, polygon) in AutoCAD to accurately construct and design drawings.

BID301.3: Students will have gained proficiency in using a wide array of modification tools in AutoCAD, enabling them to efficiently edit and manipulate objects within drawings for precise design adjustments.

BID301.4: Students will have gained proficiency in using a wide array of modification tools in AutoCAD.

BID301.5: Students will have acquired advanced skills in utilizing tools for navigation, working with 2D and 3D objects, and implementing design enhancements.

CONTENTS

UNIT-I

Contact Hours: 12

Introduction to Auto CAD - Auto CAD system requirements, AutoCAD GUI-Title bar, Menu bar, Standard tool bar, Object properties tool bar, draw tool bar, modify tool bar, UCS, Layout tab, Command Entry, Status bar, Task bar, General commands - New, open, save, save as, close, exit.

UNIT-II

Contact Hours: 12

Point fixing methods-line using absolute co-ordinate system, relative rectangular co-ordinate system and relative polar co-ordinate system, circle, arc, ellipse, rectangle, polygon.

UNIT-III

Contact Hours: 12

Modification tools-Erase, copy, move, scale, rotate, trim, extend, array, offset, mirror, break, stretch.

UNIT-IV

Contact Hours: 12

Drafting settings, function keys, text, text style, text edit, multi text, colour, line type, line weight.

UNIT-V

Contact Hours: 12

Advanced tools - zoom, pan, view, solid, donut, fillet, chamfer, layering concept.

REFERENCES:

1. Teach Yourself Auto CAD, GIBBS, BPE Publication New Delhi.
2. Inside Auto CAD.
3. Omura, G. 2005, Mastering Auto CAD 2005 and Auto CAD LT 2005, BPB Publications, New Delhi.
4. Saxena, S. (2003), A first Course in Computers, Vikas Publishing house, New Delhi.

**FACULTY OF SCIENCE
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Name of the Program – Semester: BID-III	Course:
Name of Course: Draftsmanship – I	Course code: BID 302
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

COURSE OBJECTIVES:

To enable the students to

1. Understand the importance of draftsmanship
2. Develop skill in using different drafting tools.
3. Learn to use various lines, to develop a drawing.
4. Understand the importance of free hand sketching.

COURSE OUTCOME:

BID302.1: Students will possess a holistic comprehension of draftsmanship, enabling them to proficiently contribute to effective design workflows.

BID302.2: Students will have developed a comprehensive understanding of drafting tools, and their applications which enable them to create precise and professional drawings.

BID302.3: Students will have acquired proficiency in designing well-structured drawing sheets with appropriate title blocks, implementing various types of lines and hatching for clarity, and mastering effective lettering techniques to produce professional and legible technical drawings.

BID302.4: Students will have developed a comprehensive understanding of dimensioning principles, techniques for accurate placement, consideration of units, and appropriate execution methods, enabling them to proficiently create well-dimensioned technical drawings.

BID302.5: Students will possess the skills to execute precise geometrical constructions and produce effective technical sketches through freehand techniques.

CONTENTS

UNIT-I

Contact Hours: 09

Introduction to draftsmanship - Drawing office organization, layout of drawing studio. Need for training the draftsman, Duties of draftsman, determining needs and wishes of the client. Relationship between two dimensional and three-dimensional diagrams.

UNIT-II

Contact Hours: 09

Drafting tools and Techniques –Importance of tools, drawing tools and their uses, Instrument box; Techniques adopted in handling tools, Types of scales, Tools for curves and irregular forms.

Drafting medium - Tracing paper, tracing cloth, sketch paper, vellum, polyester film.

UNIT-III

Contact Hours: 09

Layout of drawing sheets and title block.

Lines – types of lines, thickness of lines, hatching of section.

Lettering – requirements of good lettering, size of letters and numerals, space between letters, recommended height of letters, lettering technique.

UNIT-IV

Contact Hours: 09

Dimensioning – general principles, precaution in dimensioning, method of placing dimensions, unit of dimensioning, method of executing dimension, arrow heads.

UNIT-V

Contact Hours: 09

Geometrical constructions. Technical sketching – introduction – importance of freehand sketching, principles of free hand sketching

REFERENCES:

1. Pratap. R.M (1988), Interior Design, Principles and Practice, Standard Publishers, distribution, Delhi.
2. Natrarajan.K.V (1994), A Text book of Engineering Drawing, self – publication, Chennai.
3. Birdie. G.S and Birdie.J.S (2003), Civil Draughtsmanship, Theory and Practice. Dhanpat Rai Publishing company (P) Ltd., New Delhi.
4. Venugopal.K. (2004) Engineering Graphics, 5th edition, New Age International Publishers, New Delhi.

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Name of the Program – Semester: BID-II	Course:
Name of Course: Interior Design Studio and Building System Technology – II	Course code: BID 303
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 60

COURSE OBJECTIVE:

To introduce the various materials used for floor, wall, and ceiling finishes, sound and heat insulating materials, etc. Understanding the making of doors and windows in different materials. Along with the study of various vertical transportation used in Building.

COURSE OUTCOME:

BID303.1: Gain knowledge of various flooring materials, their attributes, and installation methods for interior floor finishes.

BID303.2: Understand wall cladding and finish materials, their characteristics, applications, and installation techniques for interior wall finishes.

BID303.3: Explore different ceiling types and materials, including those with insulation properties, for interior spaces.

BID303.4: Learn about the functions, terminology, types, joinery, and hardware associated with doors and windows in construction.

BID303.5: Familiarize with staircases, lifts, escalators, and ramps, and their respective applications within the construction context.

CONTENTS:

Module I: Materials for Flooring (Interior Floor Finishes) Contact Hours: 12

Study of flooring materials – both fixed and movable/flexible; their advantages, disadvantages, application, and fixing methods.

Module II: Materials for Walls (Interior Wall Finishes) Contact Hours: 12

Study of wall claddings and finishes, their advantages, disadvantages, uses, and application methods.

Module III: Ceilings Contact Hours: 12

Study of different types of ceilings (fixed, suspended, etc.), and materials used for different types of ceilings, including heat and sound-insulating materials.

Module IV: Doors and Windows: Contact Hours: 12

Functions of doors & windows; Terminology used in doors and windows; Study of various types of doors & windows and their uses; Understanding the joinery details of doors and windows; Learning about fastenings and fixtures used in doors and windows.

Module V: Vertical Transportation:**Contact Hours: 12**

Staircases, Lifts, Escalators, and Ramps.; Types and applications of these in construction.

References:

- Building Construction, W.B. McKay, Vols. 1-4
- Building Construction Illustrated, Francis D.K. Ching
- Building Construction and Materials, M.V. Naik
- Construction of Buildings, Richard Barry, Vols. 1-5
- Construction Technology, Chudley, Vols. 1-6
- Elementary Building Construction, Mitchell
- Time Saver Standards for Building Materials and Systems, Joseph DeChiara

**FACULTY OF SCIENCE
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Name of the Program – Semester: BID-III	Course:
Name of Course: Basics of Interior Design - I	Course code: BID 304
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

COURSE OBJECTIVES:

To enable the students to

- Learn the basic concepts of interior design.
- Develop the skill of applying the principles of design in decorating the interiors.

COURSE OUTCOME:

BID304.1: Understand the types of design and apply theories and tools in making new designs.

BID304.2: Understand the elements of design and their importance in making new designs.

BID304.3: Understand principles of design and its application in interior design.

BID304.4: Understand the color theory and its application in interior design.

BID304.5: Understand the importance, type, and use of lighting in interior design.

CONTENTS

UNIT – I

Contact Hours: 09

Design – Meaning and Definition, Types – Structural and Decorative design, their characteristics, classification of decorative design.

UNIT – II

Contact Hours: 09

Elements of Design – Meaning, various elements – line, form and shape, size, color, texture, pattern, space, light.

UNIT – III

Contact Hours: 09

Principles of Design – Harmony, Balance, Rhythm, Emphasis, proportion.

Application of design principles in interiors.

UNIT- IV

Contact Hours: 09

Colour in the home –concept, qualities – Hue, value, intensity. Classification of colors, Prang color system, color harmonies – Related and contrasting color harmonies, psychology of color. Application of colour in interiors.

UNIT – V

Contact Hours: 09

Lighting in interiors – importance, classification based on sources, uses, illumination, factors to be considered in lighting for different areas of house.

REFERENCES: -

1. Varghese and ogale, 1994, Home Management, Wiley Eastern, New Delhi.

2. Faulkner, S.-and Faulkner,R,(1987), Inside Today's Home, Rine hart Publishing Company, New York.
3. Caroline cliften et. al., The complete Home Decorator, Portland House New York.
4. Seetharaman, P and Pannu, P. Interior Design and Decoration, CBS Publishers and Distributors, New Delhi.
5. Pratap R.M (1988), Interior Design Principles and Practice, Standard Publishers Distribution, Delhi.
6. Goldstein, Art in Everyday life, Oxford and IBH Publishing House.

**FACULTY OF SCIENCE
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Name of the Program – Semester: BID-III	Course:
Name of Course: Auto Cad-I-Lab	Course code: BID 305 P
Total Marks for Evaluation: 50 (Internal Marks: 20 External Marks:30)	No of Contact Hours: 30

COURSE OBJECTIVES:

To enable the students to learn to draw simple floor plan using AutoCAD commands.

COURSE OUTCOME:

BID305.1: The course provides students with a comprehensive understanding of AutoCAD's interface, system requirements, GUI elements, essential toolbars, commands, and concepts.

BID305.2: Students will be adept at utilizing various point fixing methods (absolute Cartesian, relative rectangular, and relative polar coordinates) and creating geometric shapes (line, circle, arc, ellipse, rectangle, polygon) in AutoCAD to accurately construct and design drawings.

BID305.3: Students will have gained proficiency in using a wide array of modification tools in AutoCAD, enabling them to efficiently edit and manipulate objects within drawings for precise design adjustments.

BID305.4: Students will have gained proficiency in using a wide array of modification tools in AutoCAD.

BID305.5: Students will have acquired advanced skills in utilizing tools for navigation, working with 2D and 3D objects, and implementing design enhancements.

CONTENTS:

1. Creating line using point fixing methods.
2. Drawing circle, arc, ellipse, rectangle, polygon using different methods.
3. Creating a plan and use of modification tools such as erase, copy, move, scale, rotate, trim, extend, array, offset, mirror, break and stretch.
4. Creating text using text style, text edit, line type, and weight.
5. Use of zoom, pan, view command in a drawing.
6. Drawing a floor plan with settings, layers and dimensions, and to scales'
7. Drawing elevation, cross sectional view for the floor plan.
8. Submission of Record.

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Name of the Program – Semester: BID-III	Course:
Name of Course: Interior Design Studio -II LAB	Course code: BID 306 P
Total Marks for Evaluation: 50 (Internal Marks: 20 External Marks:30)	No of Contact Hours: 30

COURSE OBJECTIVE

To develop practical skills in commercial interior design by guiding students through the entire design process, including case studies, site selection, requirement analysis, and concept development, culminating in the creation of detailed and presentable interior drawings.

COURSE OUTCOME:

BID306P.1: To equip students with the ability to conduct case studies, select suitable sites, analyze requirements, develop creative design concepts, and create detailed and visually appealing interior drawings for commercial spaces/showrooms.

CONTENTS

1. Design an interior of any commercial space/ showroom
Design Process Includes
 - i. Similar case studies and analysis
 - ii. Site selection
 - iii. Finding Requirements as per case studies
 - iv. Develop concepts

2. Develop a presentable drawing of the above subject which includes
 - i. All floor plans with detailing
 - ii. All interior wall elevations with material
 - iii. Section of building/ interior finish.

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Name of the Program – Semester: BID-IV	Course:
Name of Course: Basic Computer Application and Auto Cad-II	Course code: BID 401
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 60

COURSE OBJECTIVES:

To enable the students to

1. Learn to draw floor plan with settings.
2. Know about dimensions to a given scale.
3. Make a simple plan, elevations and cross section.

COURSE OUTCOME:

BID401.1: Students will be proficient in utilizing inquiry tools, as well as mastering various drawing and editing tools, enabling them to accurately measure, analyze, and manipulate elements within AutoCAD drawings.

BID401.2: Students will possess a comprehensive proficiency in creating and editing diverse types of dimensions, configuring dimension styles, enhancing their ability to produce precise and well-communicated technical documentation.

BID401.3: Students will have a solid foundation in 3D modeling, adeptly utilizing point fixing methods, understanding different model types, and effectively translating concepts into three-dimensional representations using various coordinate systems, enabling them to create accurate and comprehensive 3D models.

BID401.4: students will have acquired proficiency in utilizing standard primitive tools to create basic 3D shapes and employing Boolean operations for complex model generation, enabling them to construct intricate and detailed 3D models in various design scenarios.

BID401.5: Students will possess comprehensive knowledge of lighting types, camera perspectives, material application, rendering techniques, and model data exchange, enabling them to create visually compelling and realistic 3D scenes and effectively collaborate in the broader design and visualization process.

CONTENTS

UNIT-I

Contact Hours: 12

Inquiry tools – ID, DIST, AREA, LIST, Hatching, poly line, ploy line edit, spline, spline edit, multiline, multi-line edit.

UNIT-II

Contact Hours: 12

Dimensions – Linear, align, angular, radius, diameter, baseline, continue, leader. Dimension edit, Dimension styles-lines and arrows tab, fit tab, primary units, alternate units, Tolerances.

UNIT-III

Contact Hours: 12

Introduction to 3D Modeling – point fixing method – absolute co-ordinate systems, relative cylindrical and relative spherical co-ordinate systems. Types of models –wire frame model, surface model and solid models.

UNIT IV

Contact Hours: 12

Standard primitive tools - Box, cone, wedge, torus, cylinder, sphere. Boolean operation –union, subtract, Intersect, Interference, Extrude, Revolve.

UNIT- V

Contact Hours: 12

Lighting –Types of light –point light, spot light, Distant light, Camera –free and target camera. Materials, rendering. Data exchange - import and export of models.

REFERENCES:

1. Teach yourself Auto CAD, GIBBS, BPE publication New Delhi.
2. Inside Auto CAD.
3. Omura, G. 2005, Mastering Auto CAD 2005 and Auto CAD LT 2005, BPB Publications, New Delhi.
4. Saxena, S. (2003), A first course in computers, Vikas Publishing house, New Delhi.

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Name of the Program – Semester: BID-IV	Course:
Name of Course: Draftsmanship – II	Course code: BID 402
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

COURSE OBJECTIVES:

To enable the students to

1. Learn the different views of an object.
2. Develop skills to make various projections.

COURSE OUTCOME:

BID402.1: Students will have developed a thorough understanding of symbols, their significance, and their application in architectural and structural contexts.

BID402.2: Students will possess a comprehensive understanding of plumbing systems, including water supply, sanitation, and drainage, as well as the practical application of plumbing symbols, drainage plans, and house wiring concepts, enabling them to design and implement effective and safe plumbing and electrical systems in residential buildings.

BID402.3: Students will have a proficient understanding of orthographic projection principles, multi-view representation techniques, and section drawing methods, allowing them to accurately convey three-dimensional objects on two-dimensional surfaces using standardized drafting practices.

BID402.4: Students will possess a comprehensive grasp of isometric views and projections, understanding their significance, principles, and characteristics, and the ability to create accurate isometric representations for effective visual communication in engineering and design contexts.

BID402.5: Students will have acquired a comprehensive understanding of perspective projection principles, rendering techniques using various tools and textures, and the ability to create visually engaging and accurate drawings, enhancing their capacity to effectively communicate and visualize architectural and design concepts.

CONTENTS

UNIT-I

Contact Hour: 09

Symbols – Meaning, importance; Architectural symbols, structural symbols, door symbols, window symbols.

UNIT-II

Contact Hour: 09

Plumbing -Water supply – In residential building, multi-storied buildings. Sanitation – traps, waste water disposal-inspection chamber, septic tank and ventilation systems, sanitary fixtures and fittings, plumbing systems. Plumbing practice –plumbing symbols and drainage plan. House wiring - electrical symbols, residence wiring diagram, planning of electrical installation of a building

UNIT-III

Contact Hour: 09

Orthographic projection – theory of orthographic projection, multi view orthographic projection, method of drawing section.

UNIT-IV**Contact Hour: 09**

Isometric view – need for study, pictorial drawings, isometric projection - definition, principles, characteristics, isometric view and isometric projection.

UNIT V**Contact Hour: 09**

Perspective view - theory of perspective projection, technical terms in relation with perspective, classification of perspective, methods – one point perspective and two-point perspective.

Rendering Techniques - Tools used in rendering- pencil, eraser, short-bristled stipple brush, mechanical lines. Different textures, materials used in buildings, floor finishes, shadows.

REFERENCES:

1. Pratap. R.M. (1988), Interior Design, Principles and Practice, Standard Publishers distribution, Delhi.
2. Natrarajan. K.V. (1994), A Text book of Engineering Drawing self – publication, Chennai.
3. Birdie. G.S and Birdie. J.S. (2003), Civil Draughtsmanship, Theory and Practice. Dhanpat Rai Publishing Company (P) Ltd., New Delhi.
4. Venugopal. K. (2004), Engineering Graphics, 5th edition, New Age International Publishers, New Delhi.

Magazines:

Architectural Digest
Inside Outside
Society interiors
House Layouts

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Name of the Program – Semester: BID-IV	Course:
Name of Course: Interior Design Studio and Building System Technology – III	Course code: BID 403
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 60

COURSE OBJECTIVES:

To enable the students to

1. Understand the importance of environment control in interiors.
2. Acquire knowledge on heating and cooling system.

COURSE OUTCOME:

BID403.1: Students with a comprehensive understanding of sound principles, properties, and behaviors, enabling them to design spaces with optimal acoustics, manage sound reflection and absorption, and address acoustical defects effectively through informed design choices and materials selection.

BID403.2: Students will possess a thorough understanding of illumination principles, diverse lighting fixture types, and their applications in residential and commercial settings, enabling them to create well-lit and visually appealing interior spaces while considering functional and aesthetic lighting requirements.

BID403.3: Students will have gained a comprehensive understanding of air conditioning principles, various system types, and their applications in diverse environments such as residential spaces, hospitality settings, cultural institutions, and healthcare facilities, allowing them to effectively design and implement optimal indoor climate control solutions.

BID403.4: Students will be proficient in understanding electrical systems, and creating basic electrical layouts, enabling them to contribute effectively to the planning and implementation of electrical services in architectural and building design projects.

BID403.5: Students will possess a comprehensive understanding of ventilation concepts, types (natural and mechanical), and the significance of adhering to building by-laws concerning building lines, open spaces, size, height, and ventilation requirements, enabling them to design structures that prioritize occupants' comfort, safety, and regulatory compliance.

CONTENT

UNIT-I

Contact Hour: 12

Acoustics- Definition, requirements of good acoustics, properties of sound - sound waves, wave length, frequency, velocity, resonance, sound levels, loudness, noise, sound reflection, echoes, reverberation; Acoustical defects, Sound absorption - sound absorbent materials, qualities of acoustic materials, guidelines for good acoustical design.

UNIT-II

Contact Hour: 12

Illumination – principles of illumination, types of lighting fixtures, lighting in residential and commercial buildings.

UNIT-III

Contact Hour: 12

Air conditioning - Need for air conditioning, principles of air conditioning system, Types of air conditioning. Application in apartments and guest rooms, libraries, museums and hospitals.

UNIT-IV

Contact Hour: 12

Electrical services – Electrical system, symbols used in the electrical plan, three-phase and single-phase system, simple electrical layouts.

UNIT-V

Contact Hour: 12

Ventilation definition, importance, types of ventilation-natural and mechanical, guidelines for natural ventilation.

Building By-laws – building lines, built-up area, open space requirements around buildings, and provision to size, height and ventilation.

TEXTBOOKS:

1. Rangawala, S.C Building construction, Chartor Publishing House, Anand 1963.
2. Pratap R.M (1988), Interior Design Principles and Practice, Standard Publisher's Distribution, Delhi.

REFERENCES:

1. Park. K (1995) ,Text book of Preventive and Social Medicine,Banaridas Bhanot Publishers, Jabalpur.
2. Faulkner,S. and Faulkner,R.(1987),Inside Today 's Home ,Rinehart publishing company, Newyork.
3. WWW.Wikipedia.orga.Air Conditioning

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Name of the Program – Semester: BID-IV	Course:
Name of Course: Basics of Interior Design - II	Course code: BID 404
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

COURSE OBJECTIVE:

Understanding the significance, selection, and arrangement of furniture, furnishings, accessories, and flower arrangements in interior design, considering factors like climate, family needs, materials, and aesthetics.

COURSE OUTCOME:

BID404.1: Students will have a thorough grasp of furniture design, considering factors like climate, family requirements, availability, comfort, design principles, and budget constraints, enabling them to make informed decisions in creating functional and aesthetically pleasing interior spaces through well-designed furniture selection and arrangement.

BID404.2: Students will possess comprehensive knowledge of furniture materials, adept selection skills, and practical arrangement strategies for different rooms, enabling them to create well-furnished and aesthetically pleasing interior spaces that align with functionality, aesthetics, and design principles.

BID404.3: Students will have a comprehensive understanding of soft furnishings, encompassing their significance, types such as carpets, rugs, cushion covers, window treatments, and the ability to effectively integrate these elements to enhance comfort, aesthetics, and functionality in interior spaces.

BID404.4: Students will possess a comprehensive comprehension of accessories in interior design, including their significance, various types (functional, decorative, both), and the capability to strategically incorporate accessories to elevate the visual appeal and functionality of interior spaces.

BID404.5: Students will have a thorough understanding of flower arrangement, encompassing its significance, various styles, shapes, and types, enabling them to skillfully create aesthetically pleasing floral displays that enhance interior aesthetics and contribute to the overall ambiance of a space.

CONTENT

UNIT-I

Contact Hours: 09

Furniture - Meaning, need, and purpose. Factors influencing – climate, family needs and preferences, availability, comfort, principles of design and financial limits.

UNIT-II

Contact Hours: 09

Furniture materials - Selection and Buymanship, Arrangement of furniture for various rooms- living room, dining room, bedroom, kitchen.

UNIT-III

Contact Hours: 09

Soft furnishings- Meaning and importance, Types of furnishings- carpets, rugs, cushion cover, slip cover. Window treatments- curtains, draperies, blinds and shades.

UNIT-IV

Contact Hours: 09

Accessories- meaning, definition, need, types of accessories- functional, decorative, both functional and decorative.

UNIT-V

Contact Hours: 09

Flower arrangement – importance, basic styles and shapes, types- line, mass, line and mass, miniature, floating, foliage and dry arrangement.

REFERENCES:

1. Mullick.P, 2000, Text Book of Home Science, Kalyani publishers, New Delhi.
2. Faulkner.R and Faulkner.S, 1987, Inside Today's Home, Rinehart Winston, New York.
3. Bridges.D,1990, A Flower Arranger's World, Random Century Group, London

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Name of the Program – Semester: BID-IV	Course:
Name of Course: AutoCAD – II- Lab	Course code: BID 405 P
Total Marks for Evaluation: 50 (Internal Marks: 20 External Marks:30)	No of Contact Hours: 30

COURSE OBJECTIVE:

To equip students with the skills to effectively design and present 3D models of spaces through rendering, lighting, camera usage, Boolean operations, material application, and record submission.

COURSE OUTCOME:

BID405P.1: Students' ability to produce high-quality 3D visualizations of spaces, employing diverse rendering techniques, lighting strategies, camera setups, Boolean operations, materials, and documentation for effective design communication.

CONTENTS:

- a. Creating a 3D view of any spaces.
- b. Rendering the view using different methods.
- c. Creating appropriate lighting.
- d. Installing free and target camera.
- e. Use Boolean operation, union, subtract, Intersect, Interference, Extrude, Revolve.
- f. Submission of record
- g. Use different materials for rendering.

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Name of the Program – Semester: BID-IV	Course:
Name of Course: Interior Design Studio-III-Lab	Course code: BID 406 P
Total Marks for Evaluation: 50 (Internal Marks: 20 External Marks:30)	No of Contact Hours: 30

COURSE OBJECTIVE:

To enable the students to

- Acquaint with symbols and to impart necessary drafting skills to express design ideas.
- Develop the creative potential of the students through design exercise.

COURSE OUTCOME:

BID406P.1: Architectural lettering: Proficiency in precise and visually appealing lettering is crucial for clear and professional architectural communication.

BID406P.2: Orthographic drawings: Ability to create comprehensive 2D building representations aiding accurate design interpretation and construction understanding.

BID406P.3: Isometric drawings: Skill in generating 3D-like views of objects, enhancing spatial visualization and design comprehension.

BID406P.4: Perspective drawings: Mastery of vanishing point techniques for crafting realistic 3D scenes, elevating design presentation and spatial depiction.

BID406P.5: Kitchen drawings: Competence in illustrating diverse kitchen types and isometric views to effectively convey layout and design concepts.

BID406P.6: Rendering and presentation: Proficiency in producing professional visual presentations through blueprints and ammonia prints, facilitating effective design communication and presentation.

CONTENTS

1. Architectural lettering.
2. Orthographic drawings – Floor plan, elevation and cross-section of a building.
3. Isometric drawings — table, chair, staircase, rooms.
4. Perspective drawings – Vanishing point method – one point perspective and two-point perspective.
5. Kitchen drawings – Types and three-dimensional view (isometric view).
6. Rendering and presentation - Blue prints and ammonia prints.
7. Submission of record.

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Name of the Program – Semester: BID-V	Course:
Name of Course: FURNITURE IN INTERIORS	Course code: BID 501
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

COURSE OBJECTIVES:

To enable the students to

1. Learn about the types and importance of furniture.
2. Know about the selection, care, and arrangement of furniture.

COURSE OUTCOME: Students will be able to

BID501.1: Differentiate between traditional, contemporary, and modern furniture styles, understand the factors influencing furniture selection for diverse purposes, and make informed choices based on climatic conditions, family needs, preferences, availability, and budget considerations.

BID501.2: Comprehensive understanding of familiar furniture materials including wood varieties (teak, rosewood, walnut, etc.), bamboo, cane, metals, plastics, and leathers, enabling them to select suitable materials for different furniture designs.

BID501.3: Gain the expertise to effectively select and arrange furniture for various rooms (living room, dining room, bedroom, kitchen, study room, office) by considering functional and aesthetic aspects, applying principles of design to create harmonious and balanced arrangements.

BID501.4: Possess knowledge about construction features of furniture, including shaping, carving, turning, joining, and finishes, as well as upholstery techniques and designs, allowing them to comprehend the intricacies of furniture production and customization.

BID501.5: Students will be equipped to ensure the longevity and aesthetic appeal of furniture through proper care and maintenance techniques for wooden, wicker, cane, metal, plastic, and upholstered furniture. They will also understand wood finishes and furniture polishes to maintain and enhance the durability and aesthetics of different furniture materials.

CONTENT

UNIT-I

Contact Hour: 09

Styles of furniture – traditional, contemporary and modern. Furniture for different purpose – meaning need, factors influencing – climatic condition, family needs and preferences, availability, and financial limit.

UNIT-II

Contact Hour: 09

Familiar furniture materials – Wood – teak, rose wood, walnut, cedar, mahogany, pine, birch, sal and Ply wood, Bamboo, Cane, Metals, Plastics, Leathers.

UNIT-III

Contact Hour: 09

Selection and arrangement – Furniture for various rooms –Living room, dining room, bedroom, kitchen, study room, office. Principles of design in furniture arrangement.

UNIT-IV

Contact Hour: 09

Construction features of furniture – shaping, carving, turning, fluting, reeding, joining and finishes. Upholstering – techniques and designs.

UNIT-V

Contact Hour: 09

Care and maintenance – wooden furniture, wicker and cane, metal furniture, plastic and upholstered furniture. Wood finishes and furniture polishes.

REFERENCES:

1. Stepat, D.D, (1971), Introduction to Home Furnishings, The Mac Millan Co, NewYork.
2. Wilhide, E and Cope stick, I. (2000) Contemporary Decorating, Conron Octopus Ltd., London.
3. Levine M (1998), Living rooms, Rockport Publishers, USA.
4. Faulkner. R and Faulkner. S, (1987), Inside Today's Home, Rinehart Winston, New York.
5. Mullick.P, (2000), Textbook of Home Science, Kalyani Publishers, New Delhi.

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Name of the Program – Semester: BID-V	Course:
Name of Course: FLORICULTURE AND LANDSCAPING	Course code: BID 502
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

COURSE OBJECTIVES:

To enable the students to

1. Understand the importance of plants in landscape gardening.
2. Gain knowledge on propagation methods
3. Obtain practical knowledge in home gardens and indoor plants.

COURSE OUTCOME:

BID502.1: Students will gain an understanding of floriculture, including the concept, significance, and importance of ornamental plants, enabling them to classify various plant types such as annuals, biennials, perennials, shrubs, trees, climbers, creepers, cacti, succulents, ferns, palms, and bulbs.

BID502.2: Students will acquire proficiency in both sexual and asexual propagation methods, such as division, cutting, layering, grafting, budding, and tissue culture, enhancing their ability to reproduce ornamental plants effectively.

BID502.3: Students will learn comprehensive methods of protecting ornamental plants, including cultural, chemical, and mechanical approaches, as well as pest and disease control techniques, allowing them to ensure the health and maintenance of ornamental plants.

BID502.4: Students will develop expertise in landscaping principles, including garden types, components, formal and informal designs, and principles of landscape gardening. They will also master lawn establishment, maintenance, and various types, along with indoor plant potting and repotting techniques.

BID502.5: Students will explore modern gardening trends such as Terrace Gardens, Rock Gardens, Terrariums, and Bonsai culture, enabling them to develop these practices. They will also be equipped to cultivate ornamental plants in limited spaces like roof gardens and hanging gardens, while also mastering flower arrangement techniques, styles, types, shapes, and the step-by-step process.

CONTENT

UNIT-I

Contact Hour: 09

Floriculture – Meaning, concept and importance. Ornamental plants – classification – annuals, biennials and perennials. Flowering and foliage shrubs, trees, climbers and creepers, cacti and succulents, ferns, palms, hardy bulbs and tender bulbs.

UNIT- II

Contact Hour: 09

Propagation methods – Sexual and asexual methods of propagation- division, cutting, layering, grafting, budding and tissue culture.

UNIT-III

Contact Hour: 09

Ornamental plant protection methods – cultural, chemical and mechanical. Pest and disease control. Care and maintenance of ornamental plants.

UNIT-IV

Contact Hour: 09

Landscaping – Meaning and importance, Types of garden, garden components, garden design – formal and informal, principles of landscape gardening.

Lawn – importance, preparation, methods of cultivation, use, maintenance, types of lawn. Indoor plants – potting and repotting techniques.

UNIT-V

Contact Hour: 09

Modern trends in gardening – Terrace Garden, Rock Garden, Terrarium, and Bonsai culture. Developing ornamental plants in Home garden for flats – roof garden, hanging garden. Flower arrangement – styles, types, shapes in flower arrangement. Steps in making flower arrangement.

References:

1. Ross, R. (1999), Colorful Gardening – Climbers, Ryland Peters and Small, London.
2. Ross, R. (1999), Colorful Gardening – Bulbs, Ryland Peters and Small, London.
3. Scott – James, A. (1995), Perfect Plant Perfect Garden, Corner Octopus Limited, London.
4. Too good, A. (1995), Designing with House Plants, Grange Books Publication, London.
5. Carter, G. (1977), Gardening with Containers, Ryland Peter and Small, London.

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Name of the Program – Semester: BID-V	Course:
Name of Course: PLANNING THE LIFE SPACE	Course code: BID 503
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

COURSE OBJECTIVES:

To enable the students to

1. Develop skill in drawing house plan for different income groups.
2. Acquire knowledge in recent building Materials.

COURSE OUTCOME:

BID503.1: Students will develop a comprehensive understanding of living space, encompassing concepts, factors influencing design, location, orientation, and planning objectives, enabling them to assess the utility, economy, beauty, and character of living spaces while considering ownership and rental options.

BID503.2: Students will grasp the significance of housing, including its functions and site selection, and gain proficiency in interpreting and creating various house plans, such as site plans, floor plans, elevations, cross-sections, and perspective views, catering to different housing types.

BID503.3: Students will be able to define and differentiate between private, public, work, and traffic spaces within a home, with a special focus on utility spaces like laundry facilities, enhancing their ability to efficiently allocate and organize spaces.

BID503.4: Students will master the principles of effective house planning, covering aspects like aspect, orientation, privacy, room grouping, circulation, furniture requirements, sanitation, and practical considerations, equipping them to design functional and harmonious living environments.

BID503.5:

Students will gain essential knowledge of construction methods, encompassing types of construction such as load-bearing and non-load-bearing or framed structures, as well as the advantages and limitations of cast-in-site and prefabrication techniques, enabling them to make informed decisions in construction planning and execution.

CONTENT

UNIT I

Contact Hour: 09

Space for a living – Concept of space, factors influencing living space, Location, and Orientation, Planning objectives- utility, economy, beauty and character. Need for space, space occupancy. Merits and demerits of owned and rented house.

UNIT II

Contact Hour: 09

Significance of housing – functions of the house, selection of site, Types of house plans- site plan, floor plan, elevation, cross–section, perspective view. Satisfaction in

– individual houses, multi –storied flats, row houses, one room apartments.

UNIT III**Contact Hour: 09**

Division of space – private, public, work and traffic – definition, utility, determinants. Utility space – laundry facilities.

UNIT IV**Contact Hour: 09**

Principles of House plan – Aspect, orientation, prospect, privacy, grouping, roominess, flexibility, circulation, furniture requirements, sanitation, practical considerations.

UNIT V**Contact Hour: 09**

Methods of construction - Types of construction – meaning, basic knowledge in types of construction – load bearing and non-load bearing or framed structure. Cast in Site and Prefabrication – advantages and limitations.

REFERENCES:

1. Prabhakar, L.V. (1998), Vasthu – The User's Manual, The Avenue Press, Chennai.
2. Despande, R.S. (1974), Build Your Own Home, United Book Corporation, Poona.
3. Riggs, R. (1992), Materials and Components of Interior Design, Prentice Hall of India Pvt.Ltd, New Delhi.
4. Rao, C.H.G. (1995), Plants for Small Houses, Jai Ganesh offset Printers, Chennai.
5. Faulkner, R, and Faulkner s. (1987), Inside Today's Home, Rinehart Publishing Company, Newyork.

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Name of the Program – Semester: BID-V	Course:
Name of Course: RESIDENTIAL SPACE DESIGNING	Course code: BID 504
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

COURSE OBJECTIVE:

To enable the students to

1. Understand the concept of space.
2. Comprehend the principles of house planning
3. Learn to draw house plan.

COURSE OUTCOME:

BID504.1: By understanding the concepts of macro, micro, and meso environments, proteomics, personal space, territoriality, claustrophobia, agoraphobia, crowding, and their influence on site analysis and orientation, students will be equipped to assess and design living spaces that cater to psychological, physiological, and social aspects, promoting optimal well-being and functionality.

BID504.2: Through an exploration of housing functions, determinant factors, housing challenges in India, and considerations for ownership and renting, students will gain the ability to critically assess housing issues, propose effective solutions, and make informed decisions regarding housing choices.

BID504.3: By studying different plan types, space allocation strategies, socioeconomic considerations, and plan evaluation skills, students will develop proficiency in designing functional and culturally sensitive residential spaces that cater to diverse needs and effectively utilize available resources.

BID504.4: Through an examination of housing standardization, BIS roles, and legal constraints including plot regulations, easements, zoning and building laws, students will be empowered to create housing solutions that align with industry standards, regulations, and legal frameworks for sustainable and compliant built environments.

BID504.5: By exploring financial avenues and institutional support such as NEERI, NBO, CBRI, SERC, LIC, banks, HDFC, and HUDCO, students will be equipped to navigate and leverage diverse funding sources and organizations for successful housing projects.

CONTENTS

UNIT-I

Contact hours: 09

Space for Living – concept of life space – meaning of Macro, Micro and Meso environment, proteomics and personal space, Territoriality, claustrophobia and Agoraphobia, crowding, planning objectives and life space – site analysis and orientation.

UNIT-II

Contact hours: 09

Concept of Housing - Functions of a house, factors determining housing. Housing problems in India – causes and remedial measures. Desirability of owning and renting.

UNIT-III**Contact hours: 09**

Types of plans used by an architect. Allocation of space for various activities – social space, work space, private space and traffic space. Drafting house plan for various income groups. Reading and judging house plan.

UNIT-IV**Contact hours: 09**

Need for standardization in housing, Types of standards, role of BIS. Legal restrictions in housing – plot, easement, zoning law, Building law.

UNIT-V**Contact hours: 09**

Finance and Institutional support for housing – NEERI, NBO, CBRI, SERC, LIC, Banks, HDFC and HUDCO.

REFERENCES:

1. Chaudhari, S.N. 2006, Interior Design. Aavishkar Publishers, Jaipur.
2. Kasu, A.A. 2005, Interior Design, Ashish Book Centre Delhi.
3. Sharma, G. and Khana, G. Advanced Interior Designing Incorporating Vaastu and Feng – Shui, Indica Publishers, Delhi.
4. Faulkner, S and Faulkner, R (1987), Inside Today's Home, Rinehart Publishing Company, New york.
5. Khanna, G. Art of Interior Design, Indica Publishers, Delhi.

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Name of the Program – Semester: BID-V	Course:
Name of Course: CONSUMER AND MERCHANDISING	Course code: BID 505 A
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

COURSE OBJECTIVES:

To help the students to

- Learn about the need and use of commercial art.
- Encourage the student to apply theoretical knowledge in arranging the interior and window of a store.
- Know the current trends in commercial art.

COURSE OUTCOME:

BID505A.1: Through an in-depth study of commercial art, merchandising, and evolving trends in art, architecture, and display, students will gain the ability to strategically create impactful and innovative visual experiences that enhance consumer engagement and effectively communicate brand identity.

BID505A.2: By comprehending consumer dynamics, rights, responsibilities, and merchandise elements, students will be prepared to ethically and effectively engage with consumers and apply strategic merchandising techniques that align with industry standards and promote positive consumer experiences.

BID505A.3: Through an exploration of merchandising strategies, distribution channels, and selling techniques, students will develop the skills to optimize product placement, selection of distribution channels, and selling methods to effectively reach target markets and enhance business success.

BID505A.4: By studying salesmanship's principles, types, qualities, and techniques, students will acquire the ability to employ effective communication and persuasion skills to build strong customer relationships and achieve successful sales outcomes.

BID505A.5: Through an exploration of advertisement concepts, media selection, and poster creation techniques, students will develop the skills to create compelling and impactful advertisements using various media, effectively conveying messages to target audiences.

CONTENT

UNIT-I

Contact Hours: 09

Concept of commercial art and merchandising – Meaning, classification, development of commercial art. Recent trends –art, architecture and display. Significance of display – interior and exterior.

UNIT-II

Contact Hours: 09

Consumer and Merchandising – Meaning, significance and classification of consumer, Consumer rights and responsibilities, classification of consumer goods, elements involved in merchandising – grading, branding, labeling, packaging and standardization.

Unit-III

Contact Hours: 09

Merchandising and distribution – Importance, selection of channels, channels of distribution of goods, techniques of merchandising – selling methods.

UNIT-IV

Contact Hours: 09

Salesmanship – concept, definition, types and qualities of salesman – techniques of salesmanship.

UNIT-V

Contact Hours: 09

Advertisement – Definition, importance, classification, features of good advertisement, preparation and techniques. Advertisement media – selection, classification and types, poster – importance, characteristics, steps and techniques in poster making.

REFERENCES:

1. Pattanchetti, C.C., Reddy. P.N., (1995), Marketing, Rainbow Publisher, Coimbatore.
2. Nair, R. (1994), Marketing, Sultan Chand and Sons Educational Publishers, New Delhi.
3. Nisra, M.N. (1994), Sales Promotion and Advertising Management, Himalaya Publishing House, Bombay.

**FACULTY OF SCIENCE
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Name of the Program – Semester: BID-V	Course:
Name of Course: KITCHEN DESIGN	Course code: BID 505 B
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

COURSE OBJECTIVES:

To enable the students to

1. Gain knowledge in different materials used for various surfaces in kitchen.
2. Develop skill in planning different layouts.

COURSE OUTCOME:

BID505B.1: By understanding kitchen functions, types, and design principles including orientation, ventilation, storage, work triangle, color, light, and safety, students will be equipped to create efficient, ergonomic, and aesthetically pleasing kitchen spaces that cater to diverse culinary needs.

BID505B.2: Through a comprehensive study of kitchen geometry, work heights, space dimensions, and anthropometric measurements, students will possess the knowledge to create kitchen layouts that optimize ergonomic design and user comfort, enhancing functionality and workflow efficiency.

BID505B.3: By exploring diverse kitchen materials and finishes, their attributes, pros, and cons, students will be proficient in selecting and recommending appropriate materials that meet functional, aesthetic, and durability requirements for efficient and visually appealing kitchen designs.

BID505B.4: Through a comprehensive study of essential kitchen services including water supply, electricity, and drainage, students will possess the expertise to design kitchens with optimized functionality, safety, and sustainability, meeting the diverse needs of modern living.

BID505B.5: By mastering the principles of kitchen storage, designing appropriate storage areas, and understanding maintenance needs, students will be equipped to create organized and efficient kitchens that ensure proper storage, accessibility, and upkeep of culinary tools and supplies.

CONTENT

UNIT-I

Contact Hour: 09

Kitchen planning – Functions performed in a kitchen, types of kitchen, principles of planning kitchen – orientation and location, ventilation, storage needs, work triangle, colour, light and safety.

UNIT-II

Contact Hour: 09

Kitchen geometry – work heights and space dimension of different work areas and storage areas, anthropometric measurements of an individual worker and its application to kitchen layout designing.

UNIT-III

Contact Hour: 09

Materials and finishes – Various materials and finishes used in kitchen – floor, walls, ceiling, sink, platforms, storage - their advantages and disadvantages.

UNIT-IV

Contact Hour: 09

Essential services needed in a kitchen. Water supply – hot and cold, tapping, water purifiers. Electricity services – electric current, exhaust fans, electrical equipment and their locations. Drainage services – Waste water drainage system, Solid waste disposal.

UNIT-V

Contact Hour: 09

Kitchen storage – principles of kitchen storage, storage areas in kitchen and its dimensions, hand operated tools and their location. Care and maintenance of storage.

REFERENCES:

1. Alexander, N.J (1972), Designing Interior Environment, Havanouich Inc.,
2. Faulkner, R., and Faulkner. S, (1987), Inside Today's Home, Rinehart Publishing Company, New york.
3. Riggs, R. (1992) Materials and Components of Interior Design, Prentice – Hall of India Pvt Ltd., New Delhi.
4. Allen dizik (1988), A Concise Encyclopedia of Interior Design, 2nd edition, van nos – trend reinbold, Newyork.
5. Varghese.M.A. etal., (1994), Ergonomics in Kitchen Design, Bombay.

**FACULTY OF SCIENCE
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Name of the Program – Semester: BID-V	Course:
Name of Course: HOUSE KEEPING AND FRONT OFFICE MANAGEMENT	Course code: BID 505 C
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

COURSE OBJECTIVES:

To enable the students to

1. Know the organizational structure of a housekeeping department.
2. Improve skills in organization of work and prepare for housekeeping jobs.

COURSE OBJECTIVE:

BID505C.1: By comprehending the goals, organizational setups, staff responsibilities, and professional context of housekeeping, students will be equipped to contribute effectively to various scales of housekeeping departments and understand the role of housekeeping as a valuable profession in hospitality management.

BID505C.2: Through an examination of housekeeping roles within commercial and welfare institutions and coordination with reception, catering, interior decoration, and related departments, students will gain the ability to seamlessly collaborate across diverse sectors to ensure clean, functional, and aesthetically pleasing environments.

BID505C.3: Develop a comprehensive understanding of the essential functions of the housekeeping department, including desk control, record keeping, key management, service pantry setup, lost and found procedures, fire/emergency protocols, and first aid measures within hospitality management.

BID505C.4: Acquire a thorough knowledge of general maintenance practices encompassing room cleanliness, furniture care, bedding management, and upkeep of linens, blankets, bedspreads, mattresses, and pillow covers within the context of hospitality and facility management.

BID505C.5: Develop a comprehensive understanding of the front office's pivotal role in hospitality, covering its layout, equipment, staff attributes, responsibilities, and the job description of a front office assistant, contributing to effective management and guest services in the industry.

CONTENT:

UNIT-I

Contact Hour: 09

Introduction to Housekeeping Department- Objectives, Organizational Structure of Housekeeping department (small, medium, large), Duties of Housekeeping personnel, Housekeeping as a Profession.

UNIT-II

Contact Hour: 09

Housekeeping in different Institutions- commercial sector and welfare sectors departments that housekeeping Co-ordinates with—reception, catering, interior decoration and other related departments.

UNIT-III

Contact Hour: 09

Functions of Housekeeping department- Desk control, records and registers, key types and control of keys, service pantry-location and essential features, lost and found, fire, emergency and first aid.

UNIT-IV

Contact Hour: 09

General maintenance - Cleanliness of all the rooms, furniture, furnishings and accessories. Bed and bedding size, care and cleaning of beds, bed linen, blankets, bedspreads and mattress, and pillow cover.

UNIT-V

Contact Hour: 09

Introduction to front office, layout of front office and different front office equipment, importance of front office in hospitality industry, duties and responsibility, ideal qualities of a front office staff and job description of a front office assistance.

REFERENCES:

1. Branson, J.C. & Lennox, M (1992), Hotel, Hostel and Hospital Housekeeping, Arnold Heinemann, U.S.A.
2. Lillicrap, D.R and Cousins, J.A (1994), Food and Beverage Service, London
3. Faulkner, R. and Faulkner, S. (1997), Inside Today's Home, Rinehart Publishing company, New York.
4. Binnie, R and Boxal, D.J, (1972), Housecraft Principles and Practice, Pitman Publishing, London.
5. Andrews, S, (1985), Hotel Housekeeping - Training Manual, Tata McGraw Hill Publishing company Ltd, New Delhi.

**FACULTY OF SCIENCE
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Name of the Program – Semester: BID-V	Course:
Name of Course: FURNITURE AND FURNISHINGS-I Lab	Course code: BID 506 P
Total Marks for Evaluation: 50 (Internal Marks: 20 External Marks:30)	No of Contact Hours: 30

COURSE OBJECTIVE:

Designing furniture for specific activities, evaluating furniture based on various criteria, mastering stitching and pleating techniques for soft furnishings, creating furniture templates, planning room layouts, compiling comprehensive records, and submitting the course work to develop well-rounded skills in interior design and furniture selection.

COURSE OUTCOME:

BID506P.1: To equip students with the ability to design furniture tailored to specific activities, critically assess furniture across various dimensions, master sewing and pleating techniques, create furniture templates, plan room layouts, compile comprehensive records, and demonstrate proficiency in interior design and furniture selection.

CONTENTS:

1. Develop different types of furniture designs with regard to activity
2. Evaluate the furniture in terms of materials, construction details, design, use, care and maintenance, age group, hours of use, durability and budget.
3. Types of stitches, seams and pleats
4. Construct curtains using different types of pleats.
5. Developing furniture templates for different furniture.
6. Planning furniture layouts for different rooms and activities using templates - Living room, bed room and dining room.
7. Preparation of records – collection of furniture designs for different activities, different materials, market survey of furniture, making cutouts of furniture.
8. Submission of Record.

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Name of the Program – Semester: BID-V	Course:
Name of Course: FLORICULTURE AND LANDSCAPING-I-Lab	Course code: BID 507 P
Total Marks for Evaluation: 50 (Internal Marks: 20 External Marks:30)	No of Contact Hours: 30

COURSE OBJECTIVES:

To enable the students to

1. Gain knowledge on raising flower gardens.
2. Understand the methods of cultivation aspects of flowers.
3. Acquire skill in flowers arrangement.

COURSE OUTCOME:

BID507P.1: Ability to recognize and work with a variety of flowering and ornamental plants, proficiency in propagation techniques, expertise in creating diverse flower arrangements, competence in designing different landscape plans, and the capability to maintain comprehensive records, fostering skills in horticulture and landscaping.

CONTENTS:

1. Identification of important flowering plants, shrubs and other ornamental plants.
2. Preparation of cutting, layering, budding and grafting
3. Making different styles of flower arrangement
4. Drawing different landscape plans.
5. Preparation of record.

RELATED EXPERIENCES:

1. Visit to Landscape gardens.
2. Maintaining a model landscape area and estimating the cost.

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Name of the Program – Semester: BID-VI	Course:
Name of Course: SOFT FURNISHINGS	Course code: BID 601
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

COURSE OBJECTIVES:

To enable the students to

1. Learn about types of windows and window treatments.
2. Develop skills in construction of curtains.

COURSE OUTCOME:

BID601.1: Gain an in-depth understanding of soft furnishings, their significance in enhancing both functionality and aesthetics within spaces, and develop the ability to select and utilize furnishings effectively.

BID601.2: Acquire knowledge about various window treatment options, including curtains, draperies, blinds, and shades, along with their installation techniques and decorative elements, to enhance interior design.

BID601.3: Develop proficiency in identifying and utilizing different types of furnishings like cushions, bed linens, table linens, kitchen linen, and bath linen, fostering expertise in creating inviting and well-appointed spaces.

BID601.4: Attain comprehensive insights into floor coverings, particularly carpets and rugs, encompassing their types, selection criteria, and installation considerations, facilitating the creation of aesthetically pleasing and comfortable environments.

BID601.5: Master the art of maintaining soft furnishings, including stain removal, repair techniques, laundering procedures, and proper storage methods, ensuring longevity and pristine condition of interior elements.

CONTENT:

UNIT-I

Contact Hour: 09

Soft furnishings – Meaning, Importance – relationship of furnishings with space, selection and use of furnishings – functional and decorative.

UNIT-II

Contact Hour: 09

Window Treatments – Types of windows, curtains, draperies, hanging curtains - types of pleats, pelmets and valances, accessories, blinds and shades.

UNIT-III

Contact Hour: 09

Types of furnishings - Cushion, cushion covers, slip covers, bed linens, Table linens, kitchen linen, and bath linen.

UNIT-IV**Contact Hour: 09**

Floor coverings - Carpets –Meaning, Importance, Types – woven and non-woven, selection and laying – factors to be considered, Rugs –Meaning, Types –room size, area, scattered, accent. Difference between carpets and rugs.

UNIT-V**Contact Hour: 09**

Care and maintenance of soft furnishings – stain removal, mending and darning, laundering, storage of furnishings.

REFERENCES:

1. Philips B, (2000), Hamlyn Book of Decorating, Octopus Publishing Ltd, London.
2. Clifton.c. etal (1991), The Complete Home Decorator Conran Octopus Ltd, London.
3. Luke. H., (1996), Soft Furnishings, New Holland Publishers Ltd, Singapore.
4. Stepat, D.D, (1971), Introduction to Home Furnishings, The Mac Millan Co, NewYork.
5. Wilhide, E and Copestick, I. (2000) Contemporary Decorating, Conron Octopus Ltd., London.
6. Levine M (1998), Living Rooms, Rockport Publishers, USA.

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Name of the Program – Semester: BID-VI	Course:
Name of Course: APPLIED ARTS	Course code: BID 602
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

COURSE OBJECTIVES:

To enable the students to

1. Understand the techniques of art.
2. Apply the principles in creating art objects for home decoration.

COURSE OUTCOME:

BID602.1: Gain an in-depth understanding of soft furnishings, their significance in enhancing both functionality and aesthetics within spaces, and develop the ability to select and utilize furnishings effectively.

BID602.2: Acquire knowledge about various window treatment options, including curtains, draperies, blinds, and shades, along with their installation techniques and decorative elements, to enhance interior design.

BID602.3: Develop proficiency in identifying and utilizing different types of furnishings like cushions, bed linens, table linens, kitchen linen, and bath linen, fostering expertise in creating inviting and well-appointed spaces.

BID602.4: Attain comprehensive insights into floor coverings, particularly carpets and rugs, encompassing their types, selection criteria, and installation considerations, facilitating the creation of aesthetically pleasing and comfortable environments.

Bid602.5: Master the art of maintaining soft furnishings, including stain removal, repair techniques, laundering procedures, and proper storage methods, ensuring longevity and pristine condition of interior elements.

CONTENT

UNIT-I

Contact Hour: 09

Meaning and significance of art in the home. Factors affecting art forms – Geography, community, materials, individuality and appearance. Developing skills for appreciation of art, Evaluation of art objects – Basic guidelines in evaluating art objects.

UNIT-II

Contact Hour: 09

Shaping and Enrichment of different materials. Wood – methods of shaping and decorating – printing, varnish, shellac, lacquer. Wood work – cutting, turning, carving, Inlay.

Metals and Alloys – Enrichment of metals, aluminum, bronze, brass, silver, copper and gold.

Ceramics – Definition, ornamentation on ceramics – earthenware, stoneware, chinaware, porcelain and terracotta

Glass – Enrichment – etching, engraving, cutting, enameling, painting. Use of glass in home.

UNIT-III**Contact Hour: 09**

Mosaic – creating art pieces with mosaics, Papier mache – origin and process, Basket weaving – meaning, types of basketry.

Craft – Macrame, Decoupage, Fabric painting, Glass painting, Oil painting and Collage.

UNIT-IV**Contact Hour: 09**

Accessories – Meaning, importance, Types – functional and decorative, Selection and placement of accessories. Hanging pictures and picture mounting.

UNIT-V**Contact Hour: 09**

Table setting - Principles of table setting, Table decoration and table appointments, Styles in food service – Indian and western.

REFERENCES:

1. Evans, A (1973), Man the Designer, The Macmillan Company, New York.
2. Faulkner, R. (1986) Art Today, Zory Field and Hill, New York.
3. Holmes, O (1982) – A Grammar of Arts, the Macmillan Company.
4. French, B (1969) – Principles of Collage, Mills and Bean, London.
5. Reader's Digest (1991), Crafts and Hobbies.

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Name of the Program – Semester: BID-VI	Course:
Name of Course: COMMERCIAL SPACE DESIGNING	Course code: BID 603
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

COURSE OBJECTIVE:

To keep the students to

1. Learn about the importance and application of Principles of art for commercial purposes.
2. Apply the techniques of art in interior and window display
3. Know the current trends in commercial architecture.

COURSE OUTCOME:

BID603.1: Gain a comprehensive understanding of the concept of commercial art, including its meaning, development, and its relevance within various business contexts.

BID603.2: Acquire the ability to strategically design and plan commercial spaces for diverse purposes, including restaurants, hotels, airports, educational institutions, hospitals, shopping complexes, exhibitions, and trade fairs.

BID603.3: Develop proficiency in creating effective commercial displays through principles of interior arrangement, merchandise presentation, and lighting techniques, enhancing the visual appeal and functionality of commercial spaces.

BID603.4: Master the art of crafting impactful window displays, understanding the core principles, techniques, and arrangements that captivate and engage customers, optimizing the visual impact of commercial establishments.

BID603.5: Explore and understand the latest trends in commercial architecture and design, including the conceptualization of commercial buildings, with a focus on features specific to departmental stores and shopping complexes.

CONTENT:

UNIT-I

Contact Hour: 09

Concept of commercial art – Meaning and Definition, Development of commercial art.

UNIT-II

Contact Hour: 09

Art in Commercial space - Designing and planning space for various commercial purposes – restaurants and Hotels. Public utility services – Airport, Educational Institutions, hospitals Shopping complex, Exhibition and trade Fairs.

UNIT-III

Contact Hour: 09

Commercial display and Techniques – Interior Display – general Arrangement, principles and factors, types and merchandise display, types of lighting arrangements in commercial buildings.

UNIT-IV**Contact Hour: 09**

Window display – meaning and concept, Basic principles and techniques, types of window display, window arrangement.

UNIT-V**Contact Hour: 09**

New trends in commercial Architecture- design in commercial building. Basic concepts of commercial buildings. Features of Departmental stores and shopping complex

REFERENCES:

1. Gupta, C.B., Dr. Nair, Rajan 2003, Marketing Management, Sultan Chand & Som, New Delhi.
2. Joseph, D.C., Julies, P. and Martiv, Z. 1992, Time Saver Standards for Interior Design and Space Planning, New York.
3. Nair, R. 2002, Marketing, Sultan Chand and Sons Publisher, New Delhi.
4. Pattanchetti, C.C. Reddy, P.N. 1995, Marketing, Rainbow publishers, Coimbatore.

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Name of the Program – Semester: BID-VI	Course:
Name of Course: PROFESSIONAL PRACTICE	Course code: BID 604 A
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

COURSE OBJECTIVES:

To enable the students to

1. Plan residential interiors and commercial interiors.
2. Gain knowledge in estimating and costing.
3. Understand the preparation of quotation and tenders.

COURSE OUTCOME:

BID604A.1: Develop expertise in space planning for residential interiors, covering various rooms like living, dining, kitchen, bedroom, children's room, and bathroom, enabling effective utilization of space while maintaining aesthetic appeal.

BID604A.2: Acquire proficiency in space planning for office interiors, encompassing aspects like cabinets, conference rooms, and open office systems, facilitating functional and efficient commercial environments.

BID604A.3: Gain a thorough understanding of estimating, including definitions, types of estimates, measurement techniques, quantity surveying, rate analysis, and preparing schedules, empowering effective project cost assessment.

BID604A.4: Master the art of creating comprehensive specifications, including definitions, objectives, types, and essential components, enhancing the ability to articulate detailed project requirements effectively.

BID604A.5: Develop a solid grasp of tendering and quotations processes, encompassing meanings, documentation, types, preparation, and understanding contracts, leading to effective project communication and execution.

CONTENTS:

UNIT-I

Contact Hour: 09

Residential Interiors – Space planning for residential interiors – living room, dining room, kitchen, bedroom, children's room, bathroom

UNIT-II

Contact Hour: 09

Commercial interiors – Space planning for office interiors – cabinets, conference rooms open office systems.

UNIT-III

Contact Hour: 09

Estimating – Definition of estimates, types, unit and mode of measurement, quantity surveying – systems adopted, analysis of rates – purpose of rate analysis, schedule of items, schedule of rates, schedule of quantities.

UNIT-IV**Contact Hour: 09**

Specifications – definition, objectives, importance, types, requirements, points to be included in the specifications.

UNIT-V**Contact Hour: 09**

Tenders and quotations – Tenders – meaning, tender document, tender notice, types, preparation of tenders, quotations, contracts – meaning, essential requirements of a contract and types.

REFERENCES:

1. Deshpande, R.S. (1995) ; Modern Ideal Homes for India, Deshpande Publication, Poona
2. Tessie, A., (1986), The House, its Plan and Use, J.B. Lippincett, New York.
3. Day P.G. (1982), A guide to Professional Architectural and Industrial Scale
4. Indian Standards Institutions (1983), National Building Code of India ISI rol, 1 New Delhi, Marak Bhavan.
5. Arulmanickam A.P. and T.K. Palaniappan (1993), Estimating and Costing, Pratheeba Publishers, Coimbatore.

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Name of the Program – Semester: BID-VI	Course:
Name of Course: ENVIRONMENT CONTROL IN INTERIORS	Course code: BID 604 B
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

COURSE OBJECTIVES:

To enable the students to

1. Understand the importance of environment control in the interiors.
2. Acquire knowledge on the different types of heating and cooling systems.

COURSE OUTCOME:

BID604B.1: Develop expertise in space planning for residential interiors, covering various rooms like living, dining, kitchen, bedroom, children's room, and bathroom, enabling effective utilization of space while maintaining aesthetic appeal.

BID604B.2: Acquire proficiency in space planning for office interiors, encompassing aspects like cabinets, conference rooms, and open office systems, facilitating functional and efficient commercial environments.

BID604B.3: Gain a thorough understanding of estimating, including definitions, types of estimates, measurement techniques, quantity surveying, rate analysis, and preparing schedules, empowering effective project cost assessment.

BID604B.4: Master the art of creating comprehensive specifications, including definitions, objectives, types, and essential components, enhancing the ability to articulate detailed project requirements effectively.

BID604B.5: Develop a solid grasp of tendering and quotations processes, encompassing meanings, documentation, types, preparation, and understanding contracts, leading to effective project communication and execution.

UNIT-I

Contact Hour: 09

Environment control – meaning of environment, importance of environment control, advantages, elements to be controlled in the interiors – Temperature, air quality, sound, sanitation, light.

UNIT-II

Contact Hour: 09

Ventilation – Definition, Functional requirements of a ventilation system, importance, Types of ventilation – Natural and mechanical Guidelines for natural ventilation.

UNIT-III

Contact Hour: 09

Thermal insulation – General principles, need for room heating, types of heating system – central, radiant, forced air; solar system – Active solar system and passive solar system. Heat insulating materials.

UNIT-IV**Contact Hour: 09**

Air conditioning – Meaning, Principles, need for air-conditioning, air conditioning applications, Humidity control, types of air conditioning - central air conditioning, and packaged. Essentials of an air-conditioned system.

UNIT-V**Contact Hour: 09**

Acoustics and sound insulation – Definition, objectives, requirements of good acoustics, properties of sound, common acoustical defects; Sound absorption – sound absorbent materials, qualities of acoustic material, general principles in acoustical design.

REFERENCES:

1. Pratap R.M (1988) Interior Design Principles and Practice, Standard Publishers Distribution, Delhi.
2. Faulkner, S., and Faulkner. R, (1987), Inside Today's Home, Rinehart Publishing Company, New york.
3. www.wikipedia.org Air conditioning.
4. Park, K (1995), Text Book of Preventive and Social Medicine, Banaridas Bhanot Publishers, Jabalpur.
5. Punnia, B.C (1995), A. Text book of Building Construction, Lakshmi Publication Pvt. Ltd., New Delhi.

**FACULTY OF SCIENCE
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Name of the Program – Semester: BID-VI	Course:
Name of Course: FINE ARTS – DRAWING AND PAINTING	Course code: BID 604 C
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

OBJECTIVES

To enable the students to

1. Explore variety of drawing media and techniques.
2. Develop skill in drawing using different tools.

COURSE OUTCOME:

BID604C.1: Unit-I: Course Outcome: Develop proficiency in using drawing equipment and supports, along with different types of brushes, enabling the creation of designs on various surfaces using appropriate tools.

BID604C.2: Acquire skills in using a variety of drawing media, including pencils, charcoal, pastels, conte crayons, pens, markers, and accessories, allowing for diverse artistic expressions.

BID604C.3: Gain expertise in painting media such as watercolor, gouache, tempera, acrylics, and oil paints, including understanding binders, diluents, mediums, palettes, and accessories, leading to the creation of wall hangings.

BID604C.4: Develop techniques of drawing encompassing line, points, tone, wash, and texture, and apply them to create greeting cards using varied methods, enhancing artistic versatility.

BID604C.5: Master color theory and composition principles, including color language, tonal value, mixing, expression, contrast, and focal point creation, while evaluating the works of three prominent artists, leading to well-informed artistic choices.

CONTENT:

Unit-I

Contact Hour: 09

Drawing Equipment – Supports – Canvas, Boards, Panels and papers – water colour and oil painting – Brushes-water colour and oil paint – Developing design on various supports with different brushes.

UNIT-II

Contact Hour: 09

Drawing Media – Pencils – Charcoal – Pastels – Conte Crayons – Pen and Ink – Markers and fibre tip pens – Accessories – drawing with different media.

UNIT-III

Contact Hour: 09

Painting Media – Water colour, gouache, Tempera, Acrylics and Oil-paints, binders, diluents, mediums palettes and accessories – Developing wall hangers.

UNIT-IV

Contact Hour: 09

Techniques of drawing – Line – Points – Tone – Wash – Texture – Developing greeting cards using different techniques.

UNIT-V

Contact Hour: 09

Colour and composition – Colour-language, tonal value, mixing, colour expression and colour contrast – Composition-creating focal points – Evaluating three famous artists work.

REFERENCE:

1. Gair, A, 1999 Artists' Manual, Hopper Collins Publishers, London.
2. Holt, F.T. and Smith, S. 1997. The Artists Manual – Equipments, Materials, Techniques, Grange Books, London.
3. Malhotra and Malhotra, 2001, Drawing Techniques, Blue Bird Books, Delhi.
4. Monahan, P., Seligman, P. and Clouse, W. 2003, Arts School – A Complete Painters Course, Chancellor Press, London.
5. Stanyer, P. 2003. The Complete Book of Drawing Techniques, Areturus Publishing Limited for Book Mark Limited, Leicester.

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Name of the Program – Semester: BID-VI	Course:
Name of Course: FINE ARTS – ERGONOMICS	Course code: BID 605 A
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

OBJECTIVES:

To enable the students to

1. Gain knowledge on importance of ergonomics in work effectiveness.
2. Design work areas using ergonomic principles.

COURSE OUTCOME:

BID605A.1: Develop a comprehensive understanding of ergonomics, encompassing its meaning, importance, and factors related to workers, workplaces, tools, equipment, and environmental conditions.

BID605A.2: Acquire proficiency in creating optimal work environments, covering aspects like location, spatial considerations, climate, furniture, lighting, ventilation, flooring, noise, storage, and kitchen layouts, enhancing comfort and efficiency.

BID605A.3: Gain expertise in anthropometry, including understanding workers' dimensions at work and rest, vertical and horizontal reaches, work heights, and the relationship between workers, workspace, and activities, leading to ergonomic workspace design.

BID605A.4: Develop skills to enhance work efficiency through principles of work simplification, effective body mechanics, and posture adjustments for various activities, incorporating Mundel's classes of change.

BID605A.5: Master the art of designing work areas based on ergonomic principles, utilizing activity analysis to optimize efficiency and comfort in workspaces.

CONTENT:

UNIT-I

Contact Hour: 09

Concept of ergonomics – Meaning, importance, factors involved – worker, work place, tools and equipment, environment, climate.

UNIT-II

Contact Hour: 09

Work environment – Location, space, indoor and outdoor climate, furniture, lighting and ventilation, flooring, noise, storage facilities, kitchen layouts.

UNIT-III

Contact Hour: 09

Anthropometry – Anthropometric dimension of workers at work and at rest, normal and maximum vertical and horizontal reaches, work heights when seated and standing, worker in relationship with workspace and activities.

UNIT-IV

Contact Hour: 09

Improving work efficiency- Concept of efficiency, principles and techniques of work simplification, effective use of body mechanics, posture involved in different activities, Mundel's classes of change.

UNIT-V

Contact Hour: 09

Design of work place – Activity analysis – Designing work areas based on ergonomic principles.

REFERENCES:

1. Barner, R.M., (1980), Motion and Time Study, Design and Measurement of work, John Wiley, New York.
2. Borgert, E. (1982) Housecraft – Principles and Practices, Issac Pitman, London.
3. Chaffin, D.B. and Andersson, G.B.J. (1984) Occupational Biomechanics, John Wiley, New York.
4. Cromwell, L. Weibell, F.J. and Pfeirffer, E.A. (1991) Biomedical Instrumentation and
5. Measurements, Prentice Hall, New Delhi.

**FACULTY OF SCIENCE
DEPARTMENT OF INTERIOR DESIGN
KALINGA UNIVERSITY, RAIPUR**

Name of the Program – Semester: BID-VI	Course:
Name of Course: GREEN BUILDING TECHNOLOGY	Course code: BID 605 B
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

OBJECTIVES:

To enable the students to

1. Understand the importance of green building technology.
2. Acquired knowledge in recent green building materials and to trap rain water.

COURSE OUTCOME:

BID605B.1: Develop a comprehensive understanding of green building technology, encompassing its meaning, concept, significance, benefits, and the positive impact of green buildings on human health and the natural environment.

BID605B.2: Acquire proficiency in identifying and utilizing eco-friendly materials and finishes like bamboo, straw, wood, stone, recycled materials, and various fibers, promoting sustainable construction practices in green buildings.

BID605B.3: Gain expertise in green building practices and technologies, including designing sustainable roofing, walls, floors, electrical, plumbing, windows, doors, HVAC systems, insulation, interior finishes, and landscaping for environmentally responsible construction.

BID605B.4: Master the concepts of renewable energy resources, focusing on solar energy, its advantages, and the functioning of solar devices such as room heaters, lights, water heaters, and air conditioners, contributing to energy-efficient and eco-friendly building designs.

BID605B.5: Develop skills in water conservation technology, with a focus on rainwater harvesting, understanding its importance, structural requirements, various system types, and advantages, promoting responsible water management in green building projects.

CONTENT:

UNIT-I

Contact Hour: 09

Green building technology – Meaning, concept, need, importance, benefits of green buildings, impact of green building on human health and natural environment.

UNIT-II

Contact Hour: 09

Materials and finishes used in green building – Bamboo, straw, wood, dimension stone, Recycled stone, non-toxic metals, Earth blocks-compressed, rammed, baked; vermiculites, flax linen, sisal, wood fibers, cork, coconut, polyurethane block.

UNIT-III

Contact Hour: 09

Green building practices and technologies. Roof, walls, floors – electrical, plumbing, windows, and doors, heating, ventilation and air conditioning (HVAC), insulation, Interior finishes, landscaping.

UNIT-IV

Contact Hour: 09

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.

UNIT-V

Contact Hour: 09

Water conservation technology - Rain water harvesting-importance, requirements of rain water harvesting structure, types of rain water harvesting systems, advantages.

REFERENCES:

1. Rai G.D (1996), Solar Energy Utilization, Khanna Publishers, Delhi.
3. Riggs, J.R. (1992) Materials and Components of Interior Design, Regents Hall, New Jersey.
4. Faulkner, R., and Faulkner. S, (1987) Inside Today's Home, Rinehart publishing House, Newyork.
5. Roa, M.P. (1998), Interior Design, Principles and Practice, Standard Publishers, Delhi.
6. Despande, R.S, (1974) Build Your Own Home, United Book Corporation, Poona.

**FACULTY OF SCIENCE
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Name of the Program – Semester: BID-VI	Course:
Name of Course: ENTREPRENEURIAL DEVELOPMENT	Course code: BID 605 C
Total Marks for Evaluation: 100 (Internal Marks: 30 External Marks:70)	No of Contact Hours: 45

COURSE OBJECTIVES:

To enable the students to

1. Develop entrepreneurial skills.
2. Analyze the environment related to small scale industry and business.
3. Understand the process and procedures of setting up small enterprises.
4. Develop Management skills for entrepreneurship development.

COURSE OUTCOME:

BID605C.1: Develop a comprehensive understanding of entrepreneurship, encompassing the concepts of entrepreneur, enterprise, and entrepreneurship, along with the transition to self-employment, key entrepreneurial qualities, and challenges faced by entrepreneurs.

BID605C.2: Acquire proficiency in recognizing the multifaceted factors influencing entrepreneurial development, including economic, legal, socioeconomic, psychological, and environmental aspects, leading to a holistic understanding of the entrepreneurial ecosystem.

BID605C.3: Gain expertise in the agencies that support entrepreneurial development programs, including SIDCO, DIC, TII, EDII, SIPCOT, and KVIC, and understand the role of institutional finance provided by entities like IDBI, ICICI, RBI, and LIC in fostering entrepreneurial initiatives.

BID605C.4: Master the process of project identification and classification, including understanding project concepts, identification, classification, internal and external constraints, and setting project objectives, leading to effective project planning.

BID605C.5: Develop skills in project formulation, covering its concept, necessity, essential elements, selection criteria, appraisal formats, feasibility report checklists, and adherence to planning commission guidelines, enabling effective project planning and decision-making.

CONTENT:

UNIT-I

Contact Hour: 09

Entrepreneurship - Entrepreneur, Enterprise and Entrepreneurship - meaning, need, transition from income generation to self-employment and Entrepreneurship, qualities of a good entrepreneur, problems of entrepreneurs.

UNIT-II

Contact Hour: 09

Factors influencing entrepreneurial development - Economic, Legal, Socioeconomic, Psychological and Environmental factors.

UNIT-III**Contact Hour: 09**

Agencies supporting entrepreneurial Development Programme - SIDCO, DIC, TIIIC, EDII, SIPCOT, KVIC. Institutional Finance to Entrepreneurs – IDBI, ICICI, RBI, LIC,

UNIT-IV**Contact Hour: 09**

Project identification and classification - Meaning of Projects, Project identification, Project Classification, internal and external constraints, Project objectives.

UNIT-V**Contact Hour: 09**

Project formulation – Concept, need, elements. Project selection, appraisal format, check list for feasibility report, planning commission guidelines.

RELATED EXPERIENCE:

1. Visit to SIDCO, DIC and TIIIC.
2. Case study of an enterprise and two entrepreneurs.
3. Preparation of a project proposal for funding.

REFERENCES:

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