Bachelor of Interior Design

Duration – 4 Years Full Time

A. Program Learning Outcomes

B. Program Structures –Batch 2019-23,& Batch 2020-24 onwards

C. Curriculum & Scheme of Examination

(Effective from 2019-23 & 2020-24 onwards)

PREAMBLE- BID Four Year Corse at ASAP AUR

Amity University aims to achieve academic excellence by providing multi-faceted education to students and encourage them to reach the pinnacle of success. The University has designed a system that would provide rigorous academic and professional programme with necessary skills to enable a student to excel in career.

This booklet contains the Programme Structure, the Detailed Curriculum and the Scheme of Examination. The Programme Structure includes the courses (Core and Elective), arranged semester wise. The importance of each course is defined in terms of credits attached to it. The credit units attached to each course has been further defined in terms of contact hours i.e. Lecture Hours (L), Tutorial Hours (T), Practical Hours (P) and Studio (St). Towards earning credits in terms of contact hours1 Lecture as well as 1 Tutorial per week are rated as 1 credit each, 1 Studio hour is rated as 1.5 credit while 2 Practical hours per week are rated as 1 credit. Thus, for example, an L-ST-P structure of 1-2-2 will have 5 credits, 1-2-0 will have 4 credits, and 2-0-0 will have 2 credits.

Lecture (L): Lecture is a one- way mode of transferring information/ concepts/ theory to students, usually delivered by an instructor. To check the understanding of concepts, frequent tests and quizzes are supplemented with lecture.

Tutorial (T): For completing class assignments, one -to-one practice sessions conducted by and with faculty member(s) are tutorials.

Studio(ST): Studios are peculiar to design & construction technology based courses where Content discourse, Training, Research, Project development, Project review, Concept generation, Peer Discussion and Final Solution/s are generated with one-to one interaction with Faculty as well as field experts in an iterative manner. Learning process also involves amalgamation of knowledge from various courses of the program as well are from other disciplines.

Practical (P): Practicals are sessions where students are required to actually do (Hands-on) instead of writing/presenting ideas/thoughts and to demonstrate, practice or apply skills & knowledge using various mediums/resources individually or in groups.

The Curriculum and Scheme of Examination of each course includes the course objectives, course contents, scheme of examination and the list of text and references. The scheme of examination defines the various components of evaluation and the weightage attached to each component. The different codes used for the components of evaluation and the weightage attached to them are given below. Depending upon the course requirement, the weightage may slightly vary.

Components	Codes	Weightage (%)
Case Discussion/ Presentation/ Analysis	C	05 - 10
Home Assignment	H	05 - 10
Project	P	05 - 10
Seminar	S	05 - 10
Viva	V	05 - 10
Quiz	Q	05 - 10
Class Test/MID TERMS	CT	10-20/20
Attendance	A	05
End Semester Examination	EE	50

The Bachelor of Interior Design (B.I.D.) course is a professional course spanning duration of FOUR Years. The course is governed by the guidelines laid by the UGC for the Professional Courses. The course structure, scheme of examination and the syllabus was discussed and finalized in the Board of Studies meetings of the ASAP held on time to time to take the necessities of the changing times. The present Course structure was revised in the 8th BOS Held on 05.12.2018 and further Credit Revision was done in the 9th BOS held on 17.06.2019.

In the first semester of learning the courses are same as that in B Arch Progam. This helps the students in learning the basics of design and the intricacies of the drafting. The students are introduced to the different materials and the services essential in the interior design.

There are many subjects that are taught right from the First Semester to the Seventh Semester and have varying credits. This continuity shows importance of the subject and the credits assigned reflect importance of the same. For example Interior Design is the most important subject of the Course. This subject has the maximum credits as well as the maximum teaching hours assigned to it with an idea that the students get exposure in handling problems of different complexities. The complexity is least in the first semester where basics and methodologies are introduced. In the coming semesters more and more difficult problems are introduced. The final design or the thesis project is the ultimate design where all aspects of design, construction and services including the impact of training shall be assessed. This shall show how professional project drawings are prepared and how its related report is prepared and submitted. The final project should be done in a way that anybody could understand the project, even in absence of the designer. The final is a kind of full dress rehearsal for joining the profession.

The course has an inbuilt component of training. Training for a period of ONE semester has been incorporated at the 7th Semester level with the idea that the students could get best advantage of it while preparing Final project in the 8th semesters. The courses of studies have been revised in a manner that the students get best advantage of teaching and training in achieving the goals of profession. This shall also help the evaluators at ASAP to judge the impact of training on the academics.

History is very important to know our own roots. It also helps us to understand the development. Architecture is known as mother of all arts and Interiors are inherent part of the same. The two are inseparable. Interiors have always been part and parcel of architecture and its requirement comes only with the effluence. The students are introduced to architecture and the history of interiors is discussed in detail.

A large flexibility has been incorporated in the Course Structure through introduction of the CBCS and the student is allowed to select Choice Based Credits from within the School as well as from other schools of the University. If a student learns the same subject in consecutive 3 years he gets a Minor Track Certificate at the end of the studies.

AUR hopes that the students passing out of ASAP shall be fully equipped to face and handle independently the intricacies of interior design and shall efficiently and proficiently help in Nation Building.

PROGRAMME LEARNING OUTCOMES (PLOs)

Upon the successful completion of **Bachelor of Interior Design** degree program students will demonstrate the ability to:

PLO 1: Analyze & evaluate the project brief; conceptualize and propose a creative, functional and efficient Interior Design of any complexity.

PLO 2: Awareness towards the latest market trends both in products and technological advancements related to Interior design practices; utilize & apply this knowledge in their academic design projects & creations.

PLO 3: Analyze the complexity of forces – environmental, economic, political, sociological and technological – which influence the design of the physical environment & to be able to apply a design decision-making process through appropriate technical documentation in a manner that is client-centered, sustainable, aesthetic, cost effective, and socially responsible.

PLO 4: To produce integrated interior design solutions by incorporating appropriate knowledge of building materials, building services & construction technologies.

PLO 5: To build ability to understand ethical and professional responsibilities, comprehending realistic aspects of interior design practice & communicating effectively while working in inter-disciplinary groups.

AMITY SCHOOL OF ARCHITECTURE & PLANNING (ASAP)

Bachelor of Interior Design

Batch 2019-23 &2020-24 Onwards

Total Credits - 218

STAGE -I PROGRAM STRUCTURE

Note: Lecture (L) - 1 Hr. = 1 Credits

Studio (ST) - 1 Hr. = 1.5 Credits

Practical - 2 Hrs. = 1 Credits

FIRST SEMESTER

Course Code	Course Title	Category	L /T / P /ST Per Week			Credits	Teaching Hours
			L Per Week	St Per Week	P per week		
BID 101	Design-I	CC	0	6	0	9	6
BID 102	Materials & Construction Techniques - I	CC	1	1	1	3	3
BID 103	Art & Graphics- I	CC	0	0	2	1	2
BID 104	Graphics Skills -I	CC	0	0	4	2	4
BID 105	History of Built Environment	CC	2	0	0	2	2
BID 106	Interior Workshop	CC	0	0	2	1	2
BID 107	Theory of Design	CC	2	0	0	2	2
BID 108	Structural Design & Systems – I	CC	2	0	0	2	2
BID 109	Presentation Techniques	CC	0	0	2	1	2
BCS 101	English	VA	1	0	0	1	1
BSS 104	Behavioural Science – I (Understanding Self for Effectiveness)		1	0	0	1	1
	Foreign Language - I	VA	2	0	0	2	2
FLF 101	French	VA				0	0
FLG 101	German					0	0
FLS 101	Spanish					0	0
FLC 101	Chinese					0	0
	TOTAL		**11**	**7**	**11**	**27**	**29**

SECOND SEMESTER

Course Code	Course Title	Category	L /T / P /ST Per Week			Credits	Teaching Hours
			L Per Week	St Per Week	P Per Week		
BID 201	Design – II	CC	0	6	0	9	6
BID 202	Materials & Construction Techniques - II	CC	1	1	1	3	3
BID 203	Art & Graphics- II	CC	0	0	2	1	2
BID 204	Graphics Skills -II	CC	0	0	4	2	4
BID 205	History of Interior Design - I	CC	2	0	0	2	2
BID 206	Building Services - I	CC	2	0	0	2	2
EVS 001	Environment Science	VA	4	0	0	4	4
BCS 201	English	VA	1	0	0	1	1
BSS 204	Behavioural Science – II (Problem Solving and Creative Thinking)	VA	1	0	0	1	1
	Foreign Language - II	VA	2	0	0	2	2
FLF 201	French	VA				0	0
FLG 201	German					0	0
FLS 201	Spanish					0	0
FLC 201	Chinese					0	0
	Minor Track	OE	3	0	0	3	3
	TOTAL		**16**	**7**	**7**	**30**	**30**

THIRD SEMESTER

Course Code	Course Title	Category	L /T / P /ST Per Week			Credits	Teaching Hours
			L Per Week	St Per Week	P Per Week		
BID 301	Design- III	CC	0	6	0	9	6
BID 302	Materials & Construction Techniques - III	CC	1	1	1	3	3
BID 303	Art and Graphics – III	CC	0	0	2	1	2
BID 304	Graphics Skills- III	CC	0	0	4	2	4
BID 305	History of Interior Design – II	CC	2	0	0	2	2
BID 306	Building Services- II	CC	2	0	0	2	2
BID 307	Furniture Design Workshop - I	CC	0	0	2	1	2
Domain Elective – I (Select any One)							
BID 308	Photography	DE	0	0	2	1	2
BID 309	Vernacular Architecture						
BID 310	Model Making Workshop						
BCS 301	Communication Skills - I	VA	1	0	0	1	1
BSS 304	Behavioural Science – III (Interpersonal Communication)		1	0	0	1	1
	Foreign Language - III		2	0	0	2	2
FLF 301	French						
FLG 301	German						
FLS 301	Spanish						
FLC 301	Chinese						
	Minor Track	OE	3	0	0	3	3
	TOTAL		**12**	**7**	**11**	**28**	**30**

FOURTH SEMESTER

Course Code	Course Title	Category	L /T / P /ST Per Week			Credits	Teaching Hours
			L Per Week	St Per Week	P Per Week		
BID 401	Design – IV	CC	0	6	0	9	6
BID 402	Materials & Construction Techniques - IV	CC	1	1	1	3	3
BID 403	Art and Graphics – IV	CC	0	0	2	1	2
BID 404	Graphics Skills –IV	CC	0	0	4	2	4
BID 405	Furniture Design Workshop – II	CC	0	0	2	1	2
BID 406	Building Services – III	CC	2	0	0	2	2
Domain Elective – II (Select any One)							
BID 408	Innovative Material for Finishes	DE	2	0	0	2	2
BID 409	Interior Documentation						
BID 410	Barrier Free Space Planning for Interiors						
BCS 401	Communication Skills – II	VA	1	0	0	1	1
BSS 404	Behavioral Science - IV (Relationship Management)	VA	1	0	0	1	1
	Foreign Language - IV	VA	2	0	0	2	2
FLF 401	French						
FLG 401	German						
FLS 401	Spanish						
FLC 401	Chinese						
	Minor Track	OE	3	0	0	3	3
	TOTAL		**12**	**7**	**9**	**27**	**28**

FIFTH SEMESTER

Course Code	Course Title	Category	L /T / P /ST Per Week			Credits	Teaching Hours
			L Per Week	T/St Per Week	P Per Week		
BID 501	Design – V	CC	0	8	0	12	8
BID 502	Materials & Construction Techniques - V	CC	1	1	1	3	3
BID 503	Estimation & Specifications	CC	2	0	0	2	2
BID 504	Graphics Skills – V	CC	0	0	4	2	4
BID 505	Interior Project Management	CC	2	0	0	2	2
BID 506	Building Services - IV	CC	2	0	0	2	2
Domain Elective – III (Select any One)							
BID 507	Material Appreciation	DE	2	0	0	2	2
BID 508	Energy Conservation Architecture						
BID 509	Climate Responsive Interiors						
BCS 501	Communication Skills – III	VA	1	0	0	1	1
BSS 504	Behavioral Science -V (Group Dynamics & Team Building)	VA	1	0	0	1	1
	Foreign Language – V	VA	2	0	0	2	2
FLF 501	French						
FLG 501	German						
FLS 501	Spanish						
FLC 501	Chinese						
	Minor Track	OE	3	0	0	3	3
	TOTAL		**16**	**9**	**5**	**32**	**30**

SIXTH SEMESTER

Course Code	Course Title	Category	L /T / P /ST Per Week			Credits	Teaching Hours
			L Per Week	St Per Week	P Per Week		
BID 601	Design – VI	CC	0	8	0	12	8
BID 602	Detailing In Interiors-I	CC	1	1	1	3	3
BID 603	Professional Practice	CC	2	0	0	2	2
BID 604	Dissertation	CC	0	0	4	2	4
BID 605	Building Services- V	CC	2	0	0	2	2
Domain Elective – IV (Select any One)							
BID 607	Intelligent Buildings	DE	2	0	0	2	2
BID 608	Vaastu in Architecture						
BID 609	Professional Presentation Techniques						
BCS 601	Communication Skills – IV	VA	1	0	0	1	1
BSS 604	Behavioral Science – VI (Stress and Coping Strategies)	VA	1	0	0	1	1
	Foreign Language – VI	VA	2	0	0	2	2
FLF 601	French					0	0
FLG 601	German					0	0
FLS 601	Spanish					0	0
FLC 601	Chinese					0	0
	Minor Track	OE	3			3	3
	TOTAL		**14**	**9**	**5**	**30**	**28**

SEVENTH SEMESTER

Course Code	Course Title	Category	L /T / P /ST Per Week			Credits	Teaching Hours
			L Per Week	T Per Week	P/ST Per Week		
BID701	Professional Training	NTCC				20	0
	TOTAL		**0**	**0**	**0**	**20**	**0**
Professional Training will be conducted during Seventh semester. Evaluation will be done before registration in Eighth semester.							

EIGHTH SEMESTER

Course Code	Course Title	Category	L /T / P /ST Per Week			Credits	Teaching Hours
			L Per Week	St Per Week	P Per Week		
BID 801	Interior Thesis Project	CC	0	10	0	15	10
BID 802	Detailing of Interior II	CC	1	1	1	3	3
Domain Elective – V (Select any One)							
BID 803	Lighting in Interiors	DE	2	0	0	2	2
BID 804	Modular Construction Technology						
BID 805	Film & Television Set Design						
Elective – VI (Select any One)							
BID 806	Intelligent Interiors	DE	2	0	0	2	2
BID 807	Interior Landscape						
BID 808	Design of Logo & Signages						
Domain Elective – VII (Select any One)							
BID 809	Interior Journalism	DE	2	0	0	2	2
BID 810	Cost Effective Interiors						
BID 811	Specialised Interiors						
	TOTAL		**7**	**11**	**1**	**24**	**19**

Total Credits (27+30+28+27+32+30+20+24) = 218

BID 101 DESIGN – I

Course Code: BID 10 **Credit Units: 09** L-0/ST-6/P-0 **Teaching hours: 06**

Course Objectives:

- To create visual compositions using elements and principles in theory of design and understand its application in built-environment
- To measure, draw and comprehend relationship between human dimensions and those of built-environment.
- To investigate forms and subsequently analyze existing built-forms and spaces through Measured drawings so as to derive design criteria from the Case Studies
- To create interior design for single purpose space employing the interior design process
- To practice direct application of learning in BID107 Theory of Design

Course Contents:

Module I: Design of 2D & 3D Compositions - 3 weeks

Exercise to design compositions with 2D Shapes and 3D Forms (geometric and irregular) using elements and principles of design

Module II: Transformations and Form Analysis– 3 weeks

Transformations of Forms -Addition, Subtraction, Extrusion – Space division, Space derivation, positive and negative spaces , Form Analysis, 2d representation of 3d form in terms of plan, section and elevation, Application in built- environment such as Façade design, Door elevation, Carpet design; Floor tile design & floor design, Mural design etc.

Module III: *Anthropometrics* - 2 weeks

Human dimensions – static and dynamic; proportions, space dimensions for various human postures and activities; Modular and Golden Section

Module IV: *Measured Drawings of Architectural Spaces* – 2 weeks

Importance of Case Study in design learning, Study of various existing interior spaces through preparation of measured drawing with furniture layout

Module V: *Design and Representation of Single purpose space unit* – 4 weeks

Design project of Single Space unit structure with respect to Visual Language of Form (Art), Functional Space, Material & Structure (Technology) and culture; Suggestive Studio Projects involving activity spaces such as Living area, sleeping area, washroom, cooking area etc. – for example, cabin design, Entrance gate, kiosk, Toilets, Kitchen, Study room, Exhibition stall etc.

An A4 Design Report - documenting the process & progress of work through clippings of sketches/ photographs of models highlighting design concept as well as the final proposal drawings etc- shall be an essential part of submission.

Examination Scheme:

Components	A	S1	S2	CT	Viva	EE
Weightage (%)	05	15	20	10	20	30

Text Books /Reference Books/Journals/Other Study Material:

1. Interior Design Illustrated, Francis D K Ching
2. Interior Design Visual, Maureen Mitton 2nd Edition
3. 'Ching Francis, (1979), Architecture Form, Space and Order, Van Nostrand Reinhold Company, New York.
4. Neufert Ernst, (1970), Architect's Data, Crosby Lockwood and Sons, London.
5. Chiara JD and Calender, (1983), Time Savers Standards for Building Types, McGraw Hill Book Company, New York.
6. Broomer, F. Gerald (1974) Elements of Design: Space, Davis Publications Inc., Worcester, Massachusetts.
7. Wagenknecht, Kay and Herte (1989) Site + Sculpture – A collaborated design Process, Van Nostrand Reinhold, NY.
8. Allen, Edward and Iano, Joseph (2006), The Architect's Studio Companion: Rules of Thumb for Preliminary Design, Wiley; 4th edition.
9. Frederick, Matthew (2007), 101 Things I Learned in Architecture School, The MIT Press.
10. Pearson, David (2001), New organic architecture: the breaking wave, University of California Press.
11. Fawcett, Peter (2003), Architecture: design notebook, Architectural Press, 2nd edition

Online Resources

1. https://www.roomsketcher.com
2. https://www.interiordesign.net
3. http://www.homify.in

BID 102 MATERIALS AND CONSTRUCTION TECHNIQUES - I

Course Code: BID 102 **Credit Units: 03** L-1/ST-1/P-1 **Teaching hours: 03**

Course Objective:

- To understand the use of traditional building materials in simple building works.
- To familiarize students with basic building components, their function and behavior under various conditions with specific reference to "Load Bearing Construction"

Course Contents:

Module I: Building Materials and Construction Technology - 3 weeks

Introduction to components of building from foundation to roof: Foundation, plinth, plinth beam, damp proof course (D. P.C.), sill, lintel, beam and slab, parapet, mumty etc. Detailed Section through 2 story building, Introduction to various methods, technology, materials, tools and equipment commonly used in – Excavation, Masonry works and carpentry.

Module II: Clay and Clay products, Stone - 2 weeks

Mud including stabilized earth, burnt bricks, brick tiles, blocks, lime and its product, stone and its varieties etc,
Classification, availability, preparation and uses of above materials and their structural, visual and textural properties.

Module III: Brick and Stone Masonry -3 weeks

Terminology: Bricks and its types, bats and closures used in different Brick Bonds
Bonding: Types of bonds: English, Single, double, Flemish and rat trap bond.
Corbelling, String courses and decorative brickwork.
Stone masonry: Types of stones, dressing and different bonds in stone, Random Rubble, Coursed Rubble, Ashlar.

Module IV: Stone and brick masonry Foundation - 3 weeks

Foundations: Need for foundations, its preliminary design criteria.
Detail of spread foundation for load bearing walls of various thicknesses.

Module V: Openings - 2 weeks

Openings – Types and construction details of Lintels, arches, sill, jam etc. necessary to make openings

Exercises: preparation of drawings on above topics.

Examination Scheme

Components	**A**	**CE**	**CT**	**EE**
Weightage (%)	05	25	20	50

Text & References:

1. Building construction W.B.McKay
2. Building construction R Berry
3. Building construction Chudley
4. Building construction Francis D.K. Ching.

BID 103 ART & GRAPHICS – I

Course Code: BID 103 **Credit Units: 01** L-0/T-0/P-2 **Teaching hours: 02**

Course Objective:

The course will enable the students to develop an understanding of the elements of art; a basic vocabulary for describing visual art, a general understanding of the role art has played throughout history, and contemporary trends.

Course Contents:

Module I: The Language of Visual Experience

Visual elements, Principles of design, evaluating art and its purpose in simple exercise of sketching.

Module II: Art as Cultural Heritage

From the earliest art to the Bronze Age, The Classical and Medieval West, Renaissance and Baroque Europe, Traditional arts of Asia, the Islamic world and eastern world. Sketches of buildings from history.

Module III: The Modern World & The Postmodern World

Late Eighteenth and Nineteenth Centuries, Early Twentieth Century, Modern art Movements Post modernity and Global Art .Sketches , painting based on history.

Module IV: Art Factors Influencing Architecture

Various art factors influencing the architecture, Study can be made by taking a particular region, preferably India. Evolution of shelter forms in regions of the world and examples of Vernacular Architecture in the world, with particular reference to India.

Module V: Rendering in different mediums

Application of painting techniques –water/oil, pen & ink, pencil in preparation of Exterior & interior Views

Examination Scheme:

Components	**A**	**C**	**P**	**H**	**S**	**CT**	**EE**
Weightage (%)	05	05	05	05	10	20	50

Text & References:

1. Lazzari, Margaret and Donna Schlesier. Exploring Art. 2nd Edition. Clark Baxter, Belmont, CA, 2005.
2. Responding to Art: Form, Content, & Context by Robert Bersson.

3. Space, Time and Architecture: The Growth of a New Tradition, Fifth Revised and Enlarged Edition (The Charles Eliot Norton Lectures) by Sigfried Giedion.
4. A Pattern Language, by Christopher Alexander.
5. Atlas of Western Art History: Artists, Sites and Movements from Ancient Greece to the Modern Age by John Steer and Antony White
6. Postmodernism (Movements in Modern Art) by Eleanor Heartney
7. Elements of Architecture, Meiss Pieree Von

BID 104 GRAPHIC SKILLS – I

Course Code: BID 104 **Credit Units: 02** L-0/ T-0/ P-4 **Teaching hours: 04**

Course Objective:

To familiarize the students with various drawing tools to give basic knowledge of drafting and lettering techniques. To provide a clear understanding about the scale of measurement and orthographic projections used as drawing technique.

Course Contents:

Module I: Introduction to basics drafting, Lettering & Scales

Introduction and setting to the drawing equipment, Concept of line, its types, Line thickness quality, grade, divisions and angles, Concept of polygons, circles, geometrical curves, helix etc., Concept of Dimensioning & dimension line, BIS codes of drawings.Free hand and Architectural lettering, proportion of letter size as per scale and size of the sheet.Scales: Engineers scale, Graphical scale and Representation factor (R.F).Scales on drawings. Types of scales: Plain scale and Diagonal scale.

Module II: Projection- Point, Lines, Planes

Definition, meaning and concept, Principles and Methods of projection. Projection of point, Lines & planes.

Module III: Projection-Solid

Projections of regular rectilinear and circular solids (prisms, pyramids, cones, cylinders, spheres etc.) in different positions. Sections of regular rectilinear and circular solids in varying conditions of sectional plane.

Module IV: Surface Development

Introduction and Methods of development of surfaces. Development of lateral surfaces of right solids like Cubes, Prisms, Cylinders, Pyramid, Cone etc.

Module V: 3D Drawing Views

Types, uses & advantage. Isometric, Axonometric & oblique view -solids, compositions& buildings.Metric drawings, projections and their dimensions.

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text & References:

Text:

1. Architectural Graphics, C. Leslie Martin Architectural Graphics, Ching Frank
2. Engineering Drawing, N.D. Bhatt

References:

1. A.J. Metric Handbook, editors, Jan Bilwa and Leslie Fair weather Architectural Graphic standards editor, Boaz Joseph
2. Neufert's Architect's data
3. Time Saver standards for building types, Editor Joseph D.C. and John Callender. Rendering with pen and ink
4. Practical Plane and Solid Geometry, H.Joseph and Morris

BID 105 HISTORY OF BUILT ENVIRONMENT

Course Code: BID 105 **Credit Units: 02** L-2/T-0/P-0 **Teaching hours: 02**

Course Objectives:

- To make them understand the importance of study history of Architecture, development of civilizations and evolution of design as a by process of it
- To familiarize students with the factors influence the development of architecture in the history. Such as socio-economic, historical political influences of that time.
- To inform them about the technologies, materials used in the historical developments and their impact on the present day knowledge of architecture and design.
- To familiarize them the regional architecture.

Course Contents:

Module I: Introduction to History of Human Settlements and Its Importance - 2 weeks

Pre-Historic Period till 3000B.C. - The type of settlement development during the period taking few examples of the different periods – Neolithic, Mesolithic, Bronze age, Iron Age with advancements of construction techniques, material used , human progression over the time period.

Module II: Introduction to Valley Civilization-1 - 4 weeks

Nile Valley Civilization (3000 B.C. – 100 A.D.)- Introduction to Egyptian Architecture and civilization, building characteristics and developments over the period in respect of different styles, construction technology, building materials used, evolution of form with significant changes over the time period.

Examples like- Tomb Architecture- Mastabas, Pyramids, Temples at Giza , Thebes ,Karnak Etc.

Mesopotamian Civilization (2500 B.C. – 600 B.C.)- Mesopotamian Civilization comprising of Babylonian, Assyrian, Akkadian Sumerian civilization in respect of buildings styles, construction technology, building materials used, evolution of form and art work development with significant changes over the time period

Examples like - Forts ,Temples ,Dwellings ,Ziggurats at Uruk ,Ashur ,Babylon etc.

Module III: Introduction to Valley Civilization-2 - 4 weeks

Indus Valley Civilization (3300B.C. – 300 B.C.)- The era of development in the Indus valley. Development of Harappan civilization. Iron Age of India explaining with examples of planning and buildings, construction technology, building materials used, evolution of form and art work development with significant changes over the time period.

Vedic Architecture (1750 B.C.)- The Aryan civilization- explain with examples of the buildings, construction technology, building materials used, evolution of form and art work development with significant changes over the time period.

Module IV: INTRODUCTION TO TRADITIONAL ART AND ARCHITECTURE OF RAJASTHAN - 2 weeks

Introduction to Rajputana design from different regions with examples of Jaipur City and nearby areas:

Forts & Palaces – Amer Fort,City Palace , Nahargarh Fort, Udaipur Palace, Kumbhalgarh Fort , Mehrangarh fort etc.

Havelis – in Shekhawati like at Nawalgarh , Fatehpur , Ramgarh ,Mandawa etc.

Stepwells & Temples – Chand Baori at Abhaneri , Ranakpur Temple , Dilwara Temple ,Rani Sati Temple ,Eklingji Temple Etc.

Introduction to Planning of Old Jaipur City with characteristics and material significance according to climate . Study the examples of vernacular buildings like Hawa Mahal , City Palace, Albert Hall , Jantar Mantar etc. with developing the understanding of different elements like jharokhas , jalis , chhatris etc.locally available materials , their application ,construction techniques, evolution of form and characteristics changed over time period

Detailed Presentation exercise to be combined with local educational tour, heritage walks to be organized at regular intervals during the semester comprising of analysis of existing structures with respect

Examination Scheme:

Components	**A**	**S1**	**S2**	**CT**	**Viva**	**EE**
Weightage (%)	05	05	10	20	00	50

Text Books /Reference Books/Journals/Other Study Material:

1. Sir Bannister Fletcher, (1975) "The History of Architecture"
2. G.K.Hiraskar (2018)"Great Ages of World Architecture"
3. Yatin Pandya, (2005) "Concepts of space in Traditional Indian Architecture"
4. Deependra Prashad, Saswati Chetia, (2007)"New Architecture and Urbanism: Development of Indian Traditions"
5. Vibhuti Chakrabarti,(1998) "Indian Architectural Theory and Practice: Contemporary Uses of Vastu Vidya"

BID106 INTERIOR WORKSHOP

Course Code: BID 106 **Credit Units: 01** L0/T-0/P-2 **Teaching hours: 02**

Course Objectives:

To introduce various building materials like carpentry, materials testing methods within the site and Working methods of Architectural components like Arches, Dome and Vaults etc.

Course Contents:

Module I: Introduction to carpentry - 4 weeks

Introduction to the carpentry tools, processes, joints and wood working machines. Preparation of various carpentry joints, fixing of plywood, commercial boards etc. and their application in furniture. Painting and polishing on different surfaces and textures

Module II: Introduction to Building materials - 6 weeks

Building materials Manufacturing process, on site quality tests of types of bricks, cement, lime, sand, aggregate. Types and uses of mortar and concrete. Superstructure: Types of bonds, ends and junctions, attached and detached piers, jointing and pointing in brick masonry and stone masonry.

Module III: Building Components and construction - 4 weeks

Types of arches in bricks and stone, centering of arches. Types of Dome, Construction method of Dome, Assembling of Glass curtain wall.

Any important note or instruction for course coordinator

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text Books /Reference Books/Journals/Other Study Material:

Text:

1. Cassells Carpentry and Joinery by Paul N. Hasluck
2. The Very Efficient Carpenter: Basic Framing for Residential Construction Paperback by Larry Haun
3. Complete Book of Framing: An Illustrated Guide for Residential Construction 2nd Edition by Scot Simpson
4. The Basics of Building with Arches, Vaults and Cupolas by Thierry Joffroy
5. Building of the Arch Enlarged 9th Edition by R. Artaega

6. Brunelleschi's Dome: How a Renaissance Genius Reinvented Architecture by Ross King
7. Illustrated Dome Building by Gene Hopster
8. Dome Builder's Handbook No. 2 by William Yarnall
9. Building Materials by S.K. Duggal
10. Building Material and Construction (WBSCTE) by S.S. Bhavikatti

Online Resources

1. http://www.gobrick.com/docs/default-source/read-research-documents/technicalnotes/30-bonds-and-patterns-in-brickwork.pdf?sfvrsn=0
5. https://civilengineering.blog/2017/10/27/types-of-bonds-in-brick-masonry/

BID 107 THEORY OF DESIGN

Course Code: BID 107 **Credit Units: 02** L-2/T-0/P-0 **Teaching Hours : 02**

Course Objectives:

- To enable student to develop understanding of "Design" as problem solving process for everyday life
- To enable student to interpret "interior Design" as integration of *Visual Form, Functional space, Human measure, building technology (material and structural systems), economy, culture and environment.*
- To enable student for direct application of design theories in studio projects of course BID101 Design –I

Course Contents:

Module I: Design and Built Environments - 2 weeks

Introduction to Design – Creative problem solving, Aspects of Design – Art and Science, Design for Built Environment, Role of Architect, Interior Designer& Engineer, Aspects of Interior Design– Visual Language of Form(Art) , Functional Space, Material & Structure (Technology) and culture.

Suggested Activities: i) *Student will be asked to use online and Library resources to select images of any one product from everyday life and images of any one building of his/her choice to investigate aspects of design embedded in them. Student will present the investigation and learning in the form of PowerPoint presentation. ii) Group reading and discussion from extracts of "A Pattern Language: Towns, Buildings, Construction – Christopher Alexander"*

Module II: Visual Language – 4 weeks

Introduction to how we see forms and perceive them and its importance in design, Visual Elements of Design - point, line, surface, solids, colour, texture etc; Principles of Design- Balance, Symmetry, Repetition, Rhythm, Datum, Hierarchy etc.; Built Forms and their aesthetics, Order-Character- meaning (symbolism) of Built Forms, Abstraction

Suggested Activities: i) Student will be asked to do online search for optical illusions and present them in class to appreciate how we perceive things ii) Student will be asked to disintegrate/explode a given built form into its constituent elements by sequential representation in drawing from whole form to surfaces to lines till points.iii) Student will be asked to sketch any one internal elevation in vicinity to identify and disintegrate it into its constituent design elements. Student needs to present the identified design principle that binds the elements together in the selected internal elevation iv) Students will be asked to search for built-forms that with strong association in cultural meaning and present them in PowerPoint .

Module III: Function: Activities, Spaces and Anthropometrics – 4 weeks

Types of Built- Environment - Enclosures; Human activities- space function; Types of Spaces – Primary, Supporting (Ancillary) and Link; Positive and Negative spaces; Relationship between Built-Form and Space & its function; Elements of Space making ; Anthropometrics – Human being as measure of everything, Modular and Golden Section.

Suggested Activities: i) In Group:- Rectangles of different sizes shall be marked in an open area and students shall be asked to use anthropometrics to suggest activities that can be done in the marked area. Students will enact the suggested activities within the area to evaluate their comprehension of space and anthropometrics ii) In Group : Students will be asked to create enclosure around the marked area and comprehend the psychological difference w.r.t space which the sense of enclosure creates in the user. Students shall now be asked to re-suggest the activities within the enclosure and enact them to evaluate their comprehension of space and anthropometrics iii) Composition using Golden Section

Module IV: Technology and Design - 2 weeks

Role of Material and technology in Design for Built- Environments; Brief introduction to types of Structural systems and their influence on built form; key materials used in Building Design (interior and exterior); Relationship between Material, Structure, function and form.

Suggested Activities: i) Student will be assigned a building/ built-form to deduce the influence of material and structure system on built-form

ii) Redesign of a given built-form by altering material and structural system to presented through conceptual sketch/ model

Module V: Design Process in Interior Design – 2 weeks

Iterative problem solving process of Design (Design Cycle); Design Process for Built-forms – sequence and stages; Different drawing types to represent different Design Stages – Bubble Diagram, Space Matrix, Conceptual Drawing, Presentation Drawing and Working Drawing.

Suggested Activities: i) Student will draw Design Process cycle, Bubble Diagram, Space Matrix, conceptual drawing and Presentation drawing for Studio Project in the course BID101Design-I

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text Books /Reference Books/Journals/Other Study Material:

1. A Pattern Language: Towns, Buildings, Construction- Christopher Alexander
2. Structure in Architecture, Heller Robert and Salvadori Mario

3. Design Fundamental in Architecture, Walter Gropius
4. Pattern of Nature, Peter Streens
5. Elements of Architecture, Meiss Pieree Von
6. Architecture: Form, Space and Order, Francis D.K. Ching
7. Elements of Space Making – Yatin Pandya
8. Sketch Book by Tony Hunt
9. Letter to Young Architects- Christopher Benninger

BID 108 STRUCTURAL DESIGN & SYSTEM- I

Course Code: BID 108 **Credit Units: 02** L-2/T-0/P-0 **Teaching hours: 02**

Course Objective:

To introduce the structural system in a building with all the basic components to understand the the functions of various elements and building technologies used in various types of buildings.

Course Contents:

Module I: Introduction to structures-2 weeks

Definitions of structure –Origin of structure –context for structure as an internal space of building: functional and aesthetic - outline of components and aspects of architectural form-site, structure, skin, materials, services etc.

Module II: Basic Elements of structures-2 weeks

Understanding fundamental elements such as beam, column, slab, footing, wall, flooring & false ceiling etc. The application of elements in residential as well as commercial types of buildings. Importance of each element in stability of overall building.

Module III: Principles of Structures-3 weeks

Understanding fundamental principles such as Law of parallelogram of forces, resolution of forces, law of triangular of forces, polygon of forces, Theorem of resolved parts resultant of number of concurrent coplanar forces, conditions of equilibrium, moment of forces. Moment and arm of a couple, theorems on couples.

Module IV: Classification of structures-3 weeks

Understanding fundamental classification such as load bearing structures & column frame structures. Based on frame the classification of structures are rigid joint frame structures & pin joint frame structures.

Module V: Materials used in structural members-2 weeks

Understanding fundamental classification of materials such as concrete, steel, wooden, reinforced cement concrete, stones, bricks, timber etc.

Examination Scheme:

Components	A	H	C	V	CT	EE
Weightage (%)	05	10	10	05	20	**50**

Text Books /Reference Books/Journals/Other Study Material:

1. Khurmi R. S, Strength of Materials.
2. Salvadori and Heller, Structure in Architecture.
3. Morgan, Elements of Structure.
4. Salvadori, Structures in Architecture.
5. Everet, Structure and Fabric.

BID 109 PRESENTATION TECHNIQUES

Course Code: BID 109 Credit Units: 01 L-0/T-0/P-2 **Teaching hours: 02**

Course Objective:

- To develop sound understanding of various presentation techniques used in an Architectural/ Interior design project.
- To learn the utility of pencil, ink and colors as a powerful tool of presentation skills.

Course Contents:

Module I: Introduction to Presentation Techniques

Introduction to various presentation techniques viz. lettering, formatting, rendering in pencil/ ink/ color, sketching, drafting & detailing, block modeling, sciography, photography, videography, computer based drafting, editing, detailing, modeling, documentation, Oral Presentation etc.

Module II: Rendering in Pencil

Concept & techniques behind rendering in different grades of pencil. Practice free hand basic pencil exercises viz. connecting random dots and underlining newspaper lines to learn drawing free hand lines, drawings 2d/3d compositions, basic patterns and rendering the same in pencil.

Module III: Rendering in Pen & Ink and Monochrome Rendering

Concept & techniques behind rendering in different grades/points of pen & ink. Practice exercises viz. drawings and rendering 2d/3d compositions, patterns, textures in pen & ink.
Learn the concept & techniques of monochrome rendering with the help of pencils, charcoal, pen & ink.

Module IV: Use of Colors for Presentation

Concept, importance and techniques of colors in presentation. Study of Color wheel diagram, primary, secondary, tertiary, pastel, vibrant, tint colors. Practice exercises viz. making basic color compositions, patterns, textures etc.

Module V: Drawing Representation

Concept & techniques to highlight/represent different building materials. Use of line-weights/ line-types for different parts of the buildings in plan, elevation, section, site plan etc.

Module VI: Free-hand Sketching

Concept & techniques in free hand drawing of basic plans/ elevations/ sections/ building parts and also sketching natural & basic elements like plants, trees, human figures, animals, furniture, automobiles etc with the idea of scale & proportion in plan as well as in elevation/section.

Module VII: Views & its rendering and Block Modeling

Drawings basic 3D views and rendering the same in pencil, ink & colors with the concept of shades, shadows & sciography. Concept & techniques for basic block-modeling. Model making exercises using various materials e.g. handmade sheets. mount sheet/ board, sun board, compressed thermocol, MDF board, acrylic sheets, metal, soft wood etc.

Examination Scheme:

Components	**A**	**CE**	**CT**	**EE**
Weight age (%)	05	25	20	50

Text & References:

1. Architectural Graphics, C. Leslie Martin
2. Architectural Graphics, Francis D.K. Ching
3. Rendering with Pen & Ink: Robert W. Gill
4. The Color Source Book for Graphic Designers: Sadao Nakamiva
5. Time Saver standards for building types, Editor Joseph D.C. and John Callender
6. Neufert's Architect's Data
7. Architectural model making by Nick Dunn
8. Architectural Model Building by Roark T. Congdon

BCS 101ENGLISH

Course Code: BCS101 Credit Units: 01 Teaching hours: 01

Course Objective:

The course is intended to give a foundation of English Language. The literary texts are indented to help students to inculcate creative & aesthetic sensitivity and critical faculty through comprehension, appreciation and analysis of the prescribed literary texts. It will also help them to respond form different perspectives.

Course content :

Module I: Vocabulary	Use of Dictionary Use of Words: Diminutives, Homonyms & Homophones
Module II: Essentials of Grammar - I	Articles Parts of Speech Tenses
Module III: Essentials of Grammar - II	Sentence Structure Subject -Verb agreement Punctuation
Module IV: Communication	The process and importance Principles & benefits of Effective Communication
Module V: Spoken English Communication	Speech Drills Pronunciation and accent Stress and Intonation
Module VI: Communication Skills-I	Developing listening skills Developing speaking skills
Module VII: Communication Skills-II	Developing Reading Skills Developing writing Skills Written English communication Progression of Thought/ideas Structure of Paragraph Structure of Essays
Module IX: Short Stories	Of Studies, by Francis Bacon

	Dream Children, by Charles Lamb The Necklace, by Guy de Maupassant A Shadow, by R.K.Narayan Glory at Twilight, Bhabani Bhattacharya
Module X: Poems	All the Worlds a Stage - Shakespeare To Autumn - Keats O! Captain, My Captain. - Walt Whitman Where the Mind is Without Fear - Rabindranath Tagore Psalm of Life - H.W. Longfellow

Text & References:

1. Madhulika Jha, Echoes, Orient Long Man
2. Ramon & Prakash, Business Communication, Oxford. Sydney Greenbaum Oxford English Grammar, Oxford.
3. Successful Communications, Malra Treece (Allyn and Bacon) Effective Technical Communication, M. Ashraf Rizvi.

*** 30 hrs Programme to be continued for Full year**

BSS 104 BEHAVIOURAL SCIENCE – I (Understanding Self for Effectiveness)

Course Code: BSS 10 **Credit Units: 01** **Teaching hours : 1**

Course Objective:

This course aims at imparting an understanding of:

Understanding self & process of self-exploration

Learning strategies for development of a healthy self esteem
Importance of attitudes and its effective on personality

Building Emotional Competency

Course Contents:

Module I: Self: Core Competency	Understanding of Self Components of Self – Self identity Self-concept Self confidence Self-image
Module II: Techniques of Self Awareness	Exploration through Johari Window Mapping the key characteristics of self Framing a charter for self Stages – self-awareness, self-acceptance and self-realization
Module III: Self Esteem & Effectiveness	Meaning Importance Components of self esteem High and low self esteem Measuring your self esteem
Module IV: Building Positive	Attitude Meaning and nature of attitude Components and Types of attitude Importance and relevance of attitude
Module V: Building Emotional Competence	Emotional Intelligence – Meaning, components, Importance and Relevance Positive and negative emotions Healthy and Unhealthy expression of emotions
Module VI: End-of-Semester Appraisal	Viva based on personal journal Assessment of Behavioral change as a result of training Exit Level Rating by Self and Observer

Examination Scheme:

Components	SAP	A	Mid Term Test (CT)	VIVA	Journal for Success (JOS)
Weightage (%)	20	05	20	30	25

Text & References:

Organizational Behaviour, Davis, K.

Hoover, Judhith D. Effective Small Group and Team Communication, 2002,Harcourt College Publishers Dick, Mc Cann & Margerison, Charles: Team Management, 1992 Edition, viva books

Bates, A. P. and Julian, J.: Sociology - Understanding Social Behaviour

Dressler, David and Cans, Donald: The Study of Human Interaction Lapiere, Richard. T – Social Change

Lindzey, G. and Borgatta, E: Sociometric Measurement in the Handbook of Social Psychology, Addison – Welsley, US.

Rose, G.: Oxford Textbook of Public Health, Vol.4, 1985.

LaFasto and Larson: When Teams Work Best, 2001, Response Books (Sage), New Delhi

J William Pfeiffer (ed.) Theories and Models in Applied Behavioural Science, Vol 2, Group (1996); Pfeiffer & Company

Smither Robert D.; The Psychology of Work and Human Performance, 1994, Harper Collins College Publishers

FOREIGN LANGUAGE 101

FLF 101 FRENCH - I

Course Code: FLF 101 Credit Units: 02 Teaching hours : 2

Course Objective:

To familiarize the students with the French language with the phonetic system with the syntax with the manners with the cultural aspects.

Course Contents:

Module A: pp. 01 to 37: Unités 1, 2, Unité 3 Objectif 1, 2

Only grammar of Unité 3: objectif 3, 4 and 5

Contenu lexical :Unité 1 : Découvrir la langue française : (oral et écrit)

1. se présenter, présenter quelqu'un, faire la connaissance des autres, formules de politesse, rencontres
2. dire/interroger si on comprend
3. Nommer les choses

Unité 2 : Faire connaissance

1. donner/demander des informations sur une personne, premiers contacts, exprimer ses goûts et ses préférences
2. Parler de soi: parler du travail, de ses activités, de son pays, de sa ville.

Unité 3 :Organiser son temps

- dire la date et l'heure
- **Contenu grammatical :** 1. organisation générale de la grammaire
    - article indéfini, défini, contracté
    - nom, adjectif, masculin, féminin, singulier et pluriel
    - négation avec « de », "moi aussi", "moi non plus"
    - interrogation : Inversion, est-ce que, qui, que, quoi, qu'est-ce que, où, quand, comment, quel(s), quelle(s)
        - Interro-négatif : réponses : oui, si, non
    - pronom tonique/disjoint- pour insister après une préposition
- futur proche

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:le livre à suivre: Campus: Tome 1

FLG 101GERMAN - I

Course Code:FLG 101 Credit Units: 02 Teaching hours : 2

Course Objective:

To enable the students to converse, read and write in the language with the help of the basic rules of grammar, which will later help them to strengthen their language.

To give the students an insight into the culture, geography, political situation and economic opportunities available in Germany

Course Contents:

Self introduction: heissen, kommen, wohnwn, lernen, arbeiten, trinken, etc. All personal pronouns in relation to the verbs taught so far.

Module I: Introduction

Greetings: Guten Morgen!, Guten Tag!, Guten Abend!, Gute Nacht!, Danke sehr!,Danke!, Vielen Dank!, (es tut mir Leid!),Hallo, wie geht's?:Danke gut!, sehr gut!, prima!, ausgezeichnet!, Es geht!, nicht so gut!, so la la!, miserabel!

Module II: Interviewspiel	To assimilate the vocabulary learnt so far and to apply the words and phrases in short dialogues in an interview – game for self-introduction.
Module III: Phonetics	Sound system of the language with special stress on Diphthongs
Module IV: Countries, nationalities and their languages	To make the students acquainted with the most widely used country names, their nationalitie and the language spoken in that country.
Module V: Articles	The definite and indefinite articles in masculine, feminine and neuter gender. All Vegetables, Fruits, Animals, Furniture, Eatables, modes of Transport
Module VI: Professions	To acquaint the students with professions in both the genders with the help of the verb "sein".
Module VII: Pronouns	Simple possessive pronouns, the use of my, your, etc. The family members, family Tree with the help of the verb "to have"
Module VIII: Colours	All the color and color related vocabulary – colored, colorful, colorless, pale, light, dark, etc.
Module IX: Numbers and calculations – verb "kosten"	The counting, plural structures and simple calculation like addition, subtraction, multiplication and division to test the knowledge of numbers. "Wie viel kostet das?"
Module X: Revision list of Question pronouns	W – Questions like who, what, where, when, which, how, how many, how much, etc.

Examination Scheme:

Components	**CT1**	**CT2**	**C**	**I**	**V**	**A**

Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

Wolfgang Hieber, Lernziel Deutsch

Hans-Heinrich Wangler, Sprachkurs Deutsch

Schulz Griesbach, Deutsche Sprachlehre für Ausländer P.L Aneja, Deutsch Interessant- 1, 2 & 3

Rosa-Maria Dallapiazza et al, Tangram Aktuell A1/1,2

Braun, Nieder, Schmöe, Deutsch als Fremdsprache 1A, Grundkurs

FLS 101SPANISH – I

Course Code:FLS 101 Credit Units: 02 Teaching hours : 2

Course Objective:

To enable students acquire the relevance of the Spanish language in today's global context, how to greet each other. How to present / introduce each other using basic verbs and vocabulary

Course Contents:

Module I

A brief history of Spain, Latin America, the language, the culture…and the relevance of Spanish language in today's global context.

Introduction to alphabets

Module II

Introduction to '*Saludos*' (How to greet each other.How to present / introduce each other).

Goodbyes (despedidas)

The verb *llamarse* and practice of it.

Module III

Concept of Gender and Number

Months of the years, days of the week, seasons. Introduction to numbers 1-100, Colors, Revision of numbers and introduction to ordinal numbers.

Module IV

Introduction to *SER* and *ESTAR* (both of which mean To Be).Revision of '*Saludos*' and '*Llamarse*'. Some adjectives, nationalities, professions, physical/geographical location, the fact that spanish adjectives have to agree with gender and number of their nouns. Exercises highlighting usage of *Ser* and *Estar*.

Module V

Time, demonstrative pronoun (Este/esta, Aquel/aquella etc)

Module VI

Introduction to some key AR /ER/IR ending regular verbs.

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

Español, En Directo I A
Español Sin Fronteras

FLJ 101JAPANESE - I

Course Code:FLJ 101 **Credit Units: 02** **Teaching hours : 2**

Course Objective:

To enable the students to learn the basic rules of grammar and Japanese language to be used in daily life that will later help them to strengthen their language.

Course Contents:

Module I: Salutations

Self-introduction, Asking and answering to small general questions

Module II: Cardinal Numbers

Numerals, Expression of time and period, Days, months

Module III: Tenses

Present Tense, Future tense

Module IV: Prépositions

Particles, possession, Forming questions

Module V: Démonstratives

Interrogatives, pronoun and adjectives

Module VI: Description

Common phrases, Adjectives to describe a person

Module VII: Schedule

Time Table, everyday routine etc.

Module VIII: Outings

Going to see a movie, party, friend's house etc.

Learning Outcome

- Students can speak the basic language describing above mentioned topics

Methods of Private study /Self help

- Handouts, audio-aids, and self-do assignments and role-plays will support classroom teaching

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

Text:

Teach yourself Japanese

References:hin Nihongo no kiso 1

FLC 101CHINESE – I

Course Code:FLC 101 **Credit Units: 02** **Teaching hours : 2**

Course Objective:

There are many dialects spoken in China, but the language which will help you through wherever you go is Mandarin, or Putonghua, as it is called in Chinese. The most widely spoken forms of Chinese are Mandarin, Cantonese, Gan, Hakka, Min, Wu and Xiang. The course aims at familiarizing the student with the basic aspects of speaking ability of Mandarin, the language of Mainland China. The course aims at training students in practical skills and nurturing them to interact with a Chinese person.

Course Contents:

Module I	Show pictures, dialogue and retell. Getting to know each other. Practicing chart with Initials and Finals. (CHART – The Chinese Phonetic Alphabet Called "Hanyu Pinyin" in Mandarin Chinese.) Practicing of Tones as it is a tonal language. Changes in 3rd tone and Neutral Tone.
Module II	Greetings Let me Introduce The modal particle "ne". Use of Please 'qing" – sit, have tea …….. etc. A brief self-introduction – Ni hao ma? Zaijian! Use of "bu" negative.
Module III	Attributives showing possession How is your Health? Thank you Where are you from? A few Professions like – Engineer, Businessman, Doctor, Teacher, Worker. Are you busy with your work? May I know your name?
Module IV	Use of "How many" – People in your family? Use of "zhe" and "na". Use of interrogative particle "shenme", "shui", "ma" and "nar". How to make interrogative sentences ending with "ma". Structural particle "de". Use of "Nin" when and where to use and with whom. Use of guixing. Use of verb "zuo" and how to make sentences with it.
Module V	Family structure and Relations. Use of "you" – "mei you". Measure words Days and Weekdays. Numbers. Maps, different languages and Countries.

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

“Elementary Chinese Reader Part I” Lesson 1-10

BID 201 DESIGN – II

Course Code: BID 201 **Credit Units: 09** L-0/ST-6/P-0 **Teaching hours: 06**

Course Objective:

To impart ability to design single functional interior spaces by application of design principles learned in previous semester and to correlate with human activities.

Course Contents:

Module I: Study of single function internal spaces in built-environment for anthropometrics and human comfort/convenience. Project introduction for studio exercise

Module II :Case studies, Site Studies and Literature Studies

Case Studies – primary (existing single function interior spaces) and secondary (single function interior spaces through Literature); Literature Review – Design Standards and Codes, Comparative Analysis and Area statement

Module III: Concept Formulation

Development of concept to be presented with bubble diagrams, circulation diagrams and sketches for discussion.

Module IV: Design Development

Design to be developed through a series of appraisals and open discussions on alternative sketch options. Design proposal to be frozen and workability, efficiency of design to be worked out and finalized.

Module V: Presentation

Preparation of Presentation Drawings of the Final Design Proposal. Enhancement of presentation skills using multiple media. Creation of 3-D models based on the design. Preparation of perspective views (internal & external). Presentation of studies and design proposal through submission of sheet work – drawings and views as well as scaled models.

Suggested Design Exercise

The suggested design exercise - Bedroom, Living Room, Study Room, Reception Area, Travel Agent Office, Barber Shop, etc. Emphasis shall be on the composition, aesthetics and innovation. At least one major exercises and one minor design/time problems should be given. The final submission shall necessarily include a model.

An A4 Design Report - documenting the process & progress of work through clippings of sketches/ photographs of models highlighting design concept as well as the final proposal drawings etc- shall be an essential part of submission.

Study tour conducted in previous semester shall be evaluated on the basis of report submission of study tour.

Examination Scheme:

Components	A	S1	S2	CT	Viva	EE
Weightage (%)	05	15	20	10	20	30

Text & References:

Text:

1. A Visual Dictionary of Architecture, Francis D.K. Ching
6. Creative Interiors (Design of Enclosed Space), Shashi Jain
7. Graphic Interiors (Space Designed by Graphic Artists), Corina Dean
8. Interior design illustrated , Francis D.K. Ching

References:

1. Architectural Graphic standards, Boaz Joseph
9. Interior Design Visual, Maureen Mitton 2nd Edition
10. Illustration + Perspectives (In Pantone Colors), Eiji Mitooka
11. Neufert's Architect's data

BID 202 MATERIALS AND CONSTRUCTION TECHNIQUES - II

Course Code: BID 202 Credit Units: 03 L-1/ST-1/P-1 **Teaching hours: 03**

Course Objective:

- To acquaint the students about Timber as a building material and to familiarize them with construction techniques for use of the above materials in building work.

Course Contents:

Module I: Timber: Introduction- 2 weeks

Classification, Characteristics, Availability, Defects, Preservation and Applications.

Module II: Timber Doors- 2 weeks

Terminology, Classification, Types, Uses and Construction details. Battened, Ledged, Braced, Framed, Flush, Paneled, Glazed, Louvered and Wire-Gauged doors in single/ double shutter.

Module III: **Timber Windows and Ventilators- 3 weeks**

Terminology, Classification, Types, Uses and Construction details. Fixed, Casement, Panelled, Glazed, Louvered and Bay windows. Ventilators & its construction details.

Module IV: Wooden Staircases - 3 weeks

Terminology, Classification, Types, Uses and Construction details. Straight and Half-Turn Staircase.

Module V: **Timber Products- 3 weeks**

Introduction to different type of wood product-Softwood board, Hardwood board, Fiber board, Plywood, Mica, Veneer etc. Their manufacturing details, advantages, disadvantages, market Terminology, available Sizes, costs, Availability and Uses (Students shall required to do Market Survey and make Presentations on above topics with detailed Report, Samples and Catalogs).

Exercises: Field trips, market survey of available materials. Preparation of drawings on above topics.

Examination Scheme:

Components	**A**	**CE**	**CT**	**EE**
Weightage (%)	05	25	20	50

Text & References:

2. Building construction W.B.McKay
3. Building construction R Berry
4. Building construction Chudley
5. Building construction Francis D.K. Ching
6. Building construction Dr. B.C.Punmia

BID 203 ART AND GRAPHICS – II

Course Code: BID 203 **Credit Units: 01** L-0/ST-0/P-2 **Teaching Hours: 02**

Course Objective:

The objective make the students aware of all the possible graphic skills used in interior design and provide a wider knowledge to the students about the various levels of graphic drawings. Familiarize with the principles and theories of graphics.

Course Contents:

Module I: Graphical representation

Graphical representation of furniture, human figures in 2D &3D, Rendering techniques for textures, materials, finishes, etc.

Module II: Sciography

Sciography in Interior Spaces & Furniture, Drawings solids, voids.

Module III: 3-D Graphics and Coloring

Models, 3-D forms: free standing paper models representing motives, shapes

Module IV: Painting

Theme based painting assignment.

Module V: Colored Rendering

Colored Rendering of given interior perspectives with shades and shadows using different mediums.

Examination Scheme:

Components	A	C	P	H	S	CT	EE
Weightage (%)	05	05	05	05	10	20	50

Text & References:

Text:

1. A Visual Dictionary of Architecture, Francis D.K. Ching
2. Creative Interiors (Design of Enclosed Space), Shashi Jain
3. Interior design illustrated, Francis D.K. Ching
4. Home Plumbing (The David & Charles Manual of), Ernest Hall
5. House Book (The Complete Guide to Home Design), Terence Conran
6. Architecture: Form, Space and Order Francis D.K. Ching

References:

1. Window Fashion, Charles T. Randall
2. Illustration + Perspectives (In Pantone Colors), Eiji Mitooka
3. Elements of Architecture, Meiss Pieree Von
4. Window Fashion, Charles T. Randall
5. Illustration + Perspectives (In Pantone Colors), Eiji Mitooka

6. Elements of Architecture, Meiss Pieree Von
7. Architecture: Form, Space and Order, Francis D.K. Ching

BID 204 GRAPHIC SKILLS – II

Course Code: BAR 204 **Credit Units: 02** L-0/T-0/P-4 **Teaching hours: 04**

Course Objective:

To enable students to produce manual drawings perspective views of interior and Sciography. To impart the techniques of rendering required for effective presentation of interior views.

Course Contents:

Module I: Composition of solids

Composition of 3D and free forms. Create wall mural and interior sculpture.

Module II: Introduction to perspective – Plan Method

Importance and use of perspective drawing in interior; Anatomy of a perspective-cone of vision, station Points, picture plane, eye level, horizon line, ground line, vanishing point, etc; One point Perspectives Plan Method-simple form to interior views.

Module III: Perspective – Grid Method

One Point perspectives using Grid Method for faster production of Perspective Drawings.

Module IV: Sciography

Values in shades and shadows. Constructing plan shadows (point, line and plane), Constructing shadows in elevations (Point, line and Plane). Constructing shadows in perspective views. Short-cut methods for constructing shadows.

Module V: Introduction to Rendering (dry and Wet)

Presentation techniques in different types, medium and materials. Rendering perspectives in different media (Dry/water based color and ink etc.). Variation in color/ ink, as per light position. Use of basic plantation, human beings etc to introduce scale to interior perspectives.

Examination Scheme:

Components	**A**	**CE**	**CT**	**EE**
Weightage (%)	05	25	20	50

Text & References:

Text:

1. Architectural Graphics, C. Leslie Martin
2. Perspective and Sciography, Shankar Mulik
3. Interior Design, Ahmed Kasu
4. Architectural Graphics, Ching Frank
5. Engineering Drawing, N.D. Bhatt
6. Engineering Drawing – P.S. Gill

References:

1. A.J. Metric Handbook, editors, Jan Bilwa and Leslie Fair weather
2. Architectural Graphic standards editor, Boaz Joseph
3. Neufert's Architect's data
4. Time Saver standards for building types, Editor Joseph D.C. and John Callender.
5. Rendering with pen and ink.

BID 205 HISTORY OF INTERIOR DESIGN - I

Course Code: BID 205 **Credit Units: 02** L-2/T-0/P-0 **Teaching hours: 02**

Course Objectives:

- To provide students a critical overview of the history of interior design, its connection to different periods and cultures, and its integral relationship with architecture and decorative arts.
- to give students a Global & Indian perspective of achievements and characteristics in interior design, and decorative arts and their relevance and impact on society.
- To develop an understanding of determinants that helped shape art forms & orders in Classical Periods & Indian architecture, interior design and decorative arts over time.

Course Contents:

Module I: Introduction- 2 weeks

How Design is a product of the period and culture that created it. Interior Design as a physical representation of political, religious, aesthetic, socio-economic, or other values shared by society. Interior design as a representation of specific ideals, and its influence on society and culture.

Module II: Study of history of Furniture Design - 3 weeks

Module content Characteristics & Significance of Furniture through the ages, History of furniture in the Middle Ages, 19th Century & 20th Century

Module III: Decorative arts of West: Gothic, Renaissance & Baroque Period- 2 weeks

Module content Interior Design elements, styles, schemes and art forms of Early Christian , Byzantine and Romanesque Period. Gothic, Renaissance and Baroque Period
Basic overview of Interior Design elements, styles, schemes and art forms like Rose Window, Vaults, etc.

Module I: Hindu: Temples, Buddhism & Mughal Period- 2 weeks

North and South Indian Styles and their different interior design elements, styles and decorative art forms. Developments in Rajputana (Rajasthan) period with respect to Interior Design Elements, Art Forms & Styles. Art forms of India - Madhubani Paintings, Tanjore Paintings, Kalamkari Work, etc.
Developments in Mughal period with respect to Interior design elements, arts forms and styles. Apprise about furniture and interior finishes, elements of mosque, etc.

Any important note or instruction for course coordinator

Examination Scheme

Components	A	S1	S2	CT	Viva	EE
Weightage (%)	05	10	15	20	00	50

Text Books /Reference Books/Journals/Other Study Material:

1. The History of Arch. in India, Chrictophes Tadgell
2. Interior design & space planning, Dechiara Pabero Zelnik
3. Interior design illustrated , Francis D.K. Ching
4. Islamic Architecture in Interior, Satish Grover
5. The Best Interior India, Anuradha Mahindra
6. Indian Interior, Angelika Taschen

BID 206 BUILDING SERVICES-I

(Water Supply and Sanitation)

Course Code: BID 206 **Credit Units: 02** L-2/T-0/P-0 **Teaching hours: 02**

Course Objectives:

- To acquaint students to basic principles of water supply, sanitation and plumbing bye laws and systems.
- To assist them in design of plumbing systems at building to town level for different typologies.

Course Contents:

Module I: Water Supply- 2 weeks

Introduction to water supply- sources of water; impurities, purification and treatment of water, Need to protect water; and requirements of water supply for different building types- storage, distribution.
Water supply systems at City/ Settlement level; Distribution networks; schematic making of an overhead water reservoir for a town/city.

Module II: Drainage Systems - 3 weeks

Concept, design and detailing of drainage systems at micro and macro level- Introduction to municipal drainage systems at town level, Building/ Site planning for drainage systems, Rainfall, Storm water drains, gullies, open drains (construction, gradients, ventilation and maintenance etc.). Concept, design and detailing of rainwater harvesting systems. Self-cleansing velocity, invert levels, drains on sloping sites, sewage disposal system in unsewered localities- septic tank, soak pits, cesspools, aqua-privy, leeching pits for individual building of urban and rural areas.

Module III: Sanitation- Sewerage- 2 weeks

Purpose and principles, collection and conveyance of waste matter. Sewage treatment plants and bye products.Sewage system design at building and town level.Sanitary appliances, fixture, traps, pipes and joints, drainage in non-municipal areas.Plumbing bye laws. Plumbing design of a toilet and kitchen

Module IV: Sanitation- Solid waste management - 2 weeks

Garbage types, collection and disposal- Purpose and methods (Incinerator, Dry disposal etc.). Garbage disposal in multi-story buildings, Treatment of industrial refuse, Refuse and pollution problems.R4 of waste management.

Any important note or instruction for course coordinator

Examination Scheme:

Components	**A**	**CE**	**CT**	**EE**
Weightage (%)	05	25	20	50

Text Books /Reference Books/Journals/Other Study Material:

Text:

1. Water supply, waste disposal and environmental engineering, Chatterjee Water supply and sanitary engineering, Singh
2. Water supply and sanitation, Shah
3. S.C.Rangwala,"Water supply and sanitary engineering", Chartar publishing house, Anand,1989.

References:

1. Design and practical handbook of plumbing, Mohan & Anand Plumbing Design and practice, Deolalikar
2. Civil handbook, Khanna
3. Building construction data Maintenance of buildings,Panchdhari
4. G.M. Fair, J.C. Geyer and D.Okun, "Water and Waste water engineering", Volume II, JohnWiley & Sons, Inc. New York, 1968
5. Manual on sewerage and sewerage treatment, CPHEEO – Ministry of works and housing, NewDelhi, 1980
6. Renewable energy, basics and technology, supplement volume on integrated energysystems, Auroville, 1998

EVS 201ENVIRONMENTSCIENCE

Course Code: EVS 201 Credit Unit: 04 Teaching hours: 04

Course Objective:

The term environment is used to describe, in the aggregate, all the external forces, influences and conditions, which affect the life, nature, behavior and the growth, development and maturity of living organisms. At present a great number of environment issues, have grown in size and complexity day by day, threatening the survival of mankind on earth. A study of environmental studies is quite essential in all types of environmental sciences, environmental engineering and industrial management. The objective of environmental studies is to enlighten the masses about the importance of the protection and conservation of our environment and control of human activities which has an adverse effect on the environment.

Course Contents:

Module I: The multidisciplinary nature of environmental studies	Definition, scope and importance Need for public awareness
Module II: Natural Resources	**Renewable and non-renewable resources:** Natural resources and associated problems; Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people. Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems. Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies. Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies. Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources, case studies. Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification. Role of an individual in conservation of natural resources. Equitable use of resources for sustainable lifestyles.
Module III: Ecosystems	Concept of an ecosystem, Structure and function of an ecosystem Producers, consumers and decomposers, Energy flow in the ecosystem Ecological succession, Food chains, food webs and ecological pyramids Introduction, types, characteristic features, structure and function of the following ecosystem: a. Forest ecosystem b. Grassland ecosystem c. Desert ecosystem d. Aquatic ecosystems (ponds, streams, lakes, rivers, ocean estuaries)
	Introduction – Definition: genetic, species and ecosystem diversity Biogeographical classification of India Value of biodiversity: consumptive use, productive use, social, ethical aesthetic and option values

Module IV: Biodiversity and its conservation	Biodiversity at global, national and local levels India as a mega-diversity nation Hot-spots of biodiversity Threats to biodiversity: habitat loss, poaching of wildlife, man wildlife conflicts Endangered and endemic species of India Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity
Module V: Environnemental Pollution	Definition, causes, effects and control measures of: a. Air pollution b. Water pollution c. Soil pollution d. Marine pollution e. Noise pollution f. Thermal pollution g. Nuclear pollution Solid waste management: Causes, effects and control measures of urban and industrial wastes.Role of an individual in prevention of pollution.
	Pollution case studies. Disaster management: floods, earthquake, cyclone and landslides.
Module VI: Social Issues and the Environment	From unsustainable to sustainable development Urban problems and related to energy Water conservation, rain water harvesting, watershed management Resettlement and rehabilitation of people; its problems and concerns. Case studies, Environmental ethics: Issues and possible solutions Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies. Wasteland reclamation, Consumerism and waste products Environmental Protection Act, Air (Prevention and Control of Pollution) Act, Water (Prevention and control of Pollution) Act, Wildlife Protection Act, Forest Conservation Act, Issues involved in enforcement of environmental legislation, Public awareness
Module VII: Human Population and the Environment	Population growth, variation among nations Population explosion – Family Welfare Programmes Environment and human health Human Rights, Value Education, HIV / AIDS, Women and Child Welfare Role of Information Technology in Environment and Human Health Case Studies
Module VIII: Field Work	Visit to a local area to document environmental assets-river / forest/ grassland/ hill/ mountain. Visit to a local polluted site – Urban / Rural / Industrial / Agricultural Study of common plants, insects, birds Study of simple ecosystems-pond, river, hill slopes, etc (Field work equal to 5 lecture hours)

Examination Scheme:

Components	CT	HA	S/V/Q	A	EE
Weightage (%)	15	5	5	5	70

Text & References:

Agarwal, K.C. 2001 Environmental Biology, Nidi Publ. Ltd. Bikaner.

Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad 380 013, India, Email:mapin@icenet.net (R)

Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc.
480p Clark R.S., Marine Pollution, Clanderson Press Oxford (TB)

Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopedia, Jaico Publ. House, Mumabai, 1196p

De A.K., Environmental Chemistry, Wiley Eastern Ltd.
Down to Earth, Centre for Science and Environment (R)

Gleick, H.P. 1993. Water in Crisis, Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute Oxford Univ. Press. 473p

Hawkins R.E., Encyclopedia of Indian Natural History, Bombay Natural History Society, Bombay (R)
Heywood, V.H & Waston, R.T. 1995. Global Biodiversity Assessment. Cambridge Univ. Press 1140p.

Jadhav, H & Bhosale, V.M. 1995. Environmental Protection and Laws. Himalaya Pub. House, Delhi 284 p. Mckinney, M.L. & School, R.M. 1996. Environmental Science Systems & Solutions, Web enhanced edition. 639p.

Mhaskar A.K., Matter Hazardous, Techno-Science Publication (TB)

Miller T.G. Jr. Environmental Science, Wadsworth Publishing Co. (TB)

Odum, E.P. 1971. Fundamentals of Ecology. W.B. Saunders Co. USA, 574p

Rao M N. & Datta, A.K. 1987. Waste Water treatment. Oxford & IBH Publ. Co. Pvt. Ltd.
345p. Sharma B.K., 2001. Environmental Chemistry. Geol Publ. House, Meerut

Survey of the Environment, The Hindu (M)

Townsend C., Harper J, and Michael Begon, Essentials of Ecology, Blackwell Science

Trivedi R.K., Handbook of Environmental Laws, Rules Guidelines, Compliances and Standards, Vol I and II, Enviro Media (R)

Trivedi R. K. and P.K. Goel, Introduction to air pollution, Techno-Science Publication (TB)

Wanger K.D., 1998 Environnemental Management. W.B. Saunders Co. Philadelphia, USA 499p

BCS 201ENGLISH

Course Code:BCS 201 Credit Units: 01 Teaching hours: 01

Course Objective:

The course is intended to give a foundation of English Language. The literary texts are indented to help students to inculcate creative & aesthetic sensitivity and critical faculty through comprehension, appreciation and analysis of the prescribed literary texts. It will also help them to respond form different perspectives.

Course Contents:

Module I: Vocabulary	Use of Dictionary Use of Words: Diminutives, Homonyms & Homophones	
Module II: Essentials of Grammar - I	Articles Parts of Speech Tenses	
Module III: Essentials of Grammar - II	Sentence Structure Subject -Verb agreement Punctuation	
Module IV: Communication	The process and importanc Principles & benefits of Effective Communication	
Module V: Spoken English Communication	Speech Drills Pronunciation and accent Stress and Intonation	
Module VI: Communication Skills-I	Developing listening skills Developing speaking skills	
Module VII: Communication Skills-II	Developing Reading Skills Developing writing Skills	
Module VIII: Written English communication	Progression of Thought/ideas Structure of Paragraph Structure of Essays	
Module IX: Short Stories	Of Studies, by Francis Bacon Dream Children, by Charles Lamb The Necklace, by Guy de Maupassant A Shadow, by R.K. Narayan Glory at Twilight, Bhabani Bhattacharya	
Module X: Poems	All the Worlds a Stage To Autumn O! Captain, My Captain. Where the Mind is Without Fear Psalm of Life	Shakespeare Keats Walt Whitman Rabindranath Tagore H.W. Longfellow

Examination Scheme:

Components	A	CT	HA	EE
Weightage (%)	05	15	10	70

Text & References:

Madhulika Jha, Echoes, Orient Long Man

Ramon & Prakash, Business Communication, Oxford.
Sydney Greenbaum Oxford English Grammar, Oxford.
Successful Communications, Malra Treece (Allyn and Bacon)
Effective Technical Communication, M. Ashraf Rizvi.

BSS 204 BEHAVIOURAL SCIENCE – II

(PROBLEM SOLVING AND CREATIVE THINKING)

Course Code: BSS 201 Credit Units: 01 Teaching hours: 01

Course Objective:

To enable the students:

Understand the process of problem solving and creative thinking.

Facilitation and enhancement of skills required for decision-making.

Course Contents:

Module I: Thinking as a tool for Problem Solving	What is thinking: The Mind/Brain/Behaviuor Critical Thinking and Learning: Making Predictions and Reasoning Memory and Critical Thinking Emotions and Critical Thinking Thinking skills
Module II: Hindrances to Problem Solving Process	Perception Expression Emotion Intellect Work environment
Module III: Problem Solving	Recognizing and Defining a problem Analyzing the problem (potential causes) Developing possible alternatives Evaluating Solutions Resolution of problem Implementation Barriers to problem solving: - Perception - Expression - Emotion - Intellect - Work environment
Module IV: Plan of Action	Construction of POA Monitoring Reviewing and analyzing the outcome
Module V: Creative Thinking	Definition and meaning of creativity The nature of creative thinking Convergent and Divergent thinking Idea generation and evaluation (Brain Storming) Image generation and evaluation Debating The six-phase model of Creative Thinking: ICEDIP model
Module VI:End-of-Semester Appraisal	Viva based on personal journal Assessment of Behavioural change as a result of training Exit Level Rating by Self and Observer

Examination Scheme:

Components	SAP	A	Mid Term Test (CT)	VIVA	Journal for Success (JOS)
Weightage (%)	20	05	20	30	25

Text & References:

Michael Steven: How to be a better problem solver, Kogan Page, New Delhi, 1999

Geoff Petty: How to be better at creativity; Kogan Page, New Delhi, 1999

Richard Y. Chang and P. Keith, Kelly: Wheeler Publishing, New Delhi, 1998.

Phil Lowe Koge Page: Creativity and Problem Solving, New Delhi, 1996

J William Pfeiffer (ed.) Theories and Models in Applied Behavioural Science, Vol 3, Management (1996); Pfeiffer & Company

Bensley, Alan D.: Critical Thinking in Psychology – A Unified Skills Approach, (1998), Brooks/Cole Publishing Company.

FOREIGN LANGUAGE 201

FLF 201 FRENCH - II

Course Code: FLF 201 Credit Units: 02 Teaching hours: 02

Course Objective:

To enable the students to overcome the fear of speaking a foreign language and take position as a foreigner speaking French.

To make them learn the basic rules of French Grammar.

Course Contents:

Module A : pp.38 – 47 : Unité 3 : Objectif 3, 4, 5. 6

Module B: pp. 47 to 75 Unité 4, 5

Contenu lexical: **Unité 3: Organiser son temps**

1. donner/demander des informations sur un emploi du temps, un horaire SNCF – Imaginer un dialogue
2. rédiger un message/ une lettre pour …

   i) prendre un rendez-vous/ accepter et confirmer/ annuler

   ii) inviter/accepter/refuser
3. Faire un programme d'activités

imaginer une conversation téléphonique/un dialogue

Propositions- interroger, répondre

Unité 4:Découvrir son environnement

1. situer un lieu
2. s'orienter, s'informer sur un itinéraire.
3. Chercher, décrire un logement
4. connaître les rythmes de la vie

Unité 5: s'informer

1. demander/donner des informations sur un emploi du temps passé.
2. donner une explication, exprimer le doute ou la certitude.
3. découvrir les relations entre les mots
4. savoir s'informer

Contenu grammatical:

1. Adjectifs démonstratifs
2. Adjectifs possessifs/exprimer la possession à l'aide de :

   i. « de » ii. A+nom/pronom disjoint
3. Conjugaison pronominale – négative, interrogative - construction à l'infinitif
4. Impératif/exprimer l'obligation/l'interdiction à l'aide de « il faut…. »/ «il ne faut pas… »
5. passé composé

6. Questions directes/indirectes

Examination Scheme:

Components	**CT1**	**CT2**	**C**	**I**	**V**	**A**
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

le livre à suivre : Campus: Tome 1

FLG 201GERMAN – II

Course Code:FLG 201 Credit Units: 02 Teaching hours: 02

Course Objective:

To enable the students to converse, read and write in the language with the help of the basic rules of grammar, which will later help them to strengthen their language.

To give the students an insight into the culture, geography, political situation and economic opportunities available in Germany.Introduction to Grammar to consolidate the language base learnt in Semester I

Course Contents:

Module I: Everything about Time and Time periods

Time and times of the day.

Weekdays, months, seasons.

Adverbs of time and time related prepositions

Module II: Irregular verbs

Introduction to irregular verbs like to be, and others, to learn the conjugations of the same, (fahren, essen, lessen, schlafen, sprechen und ähnliche).

Module III: Separable verbs

To comprehend the change in meaning that the verbs undergo when used as such

Treatment of such verbs with separable prefixes

Module IV: Reading and comprehension

Reading and deciphering railway schedules/school time table

Usage of separable verbs in the above context

Module V: Accusative case

Accusative case with the relevant articles

Introduction to 2 different kinds of sentences – Nominative and Accusative

Module VI: Accusative personal pronouns

Nominative and accusative in comparison

Emphasizing on the universal applicability of the pronouns to both persons and objects

Module VII: Accusative prepositions

Accusative propositions with their use

Both theoretical and figurative use

Module VIII: Dialogues

Dialogue reading: 'In the market place'

'At the Hotel'

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

Wolfgang Hieber, Lernziel Deutsch

Hans-Heinrich Wangler, Sprachkurs Deutsch

Schulz Griesbach, Deutsche Sprachlehre für Ausländer P.L Aneja, Deutsch Interessant- 1, 2 & 3

Rosa-Maria Dallapiazza et al, Tangram Aktuell A1/1,2

Braun, Nieder, Schmöe, Deutsch als Fremdsprache 1A, Grundkurs

FLS 201 SPANISH – II

Course Code: FLS 201 Credit Units: 02 Teaching hours: 02

Course Objective:

To enable students acquire more vocabulary, grammar, Verbal Phrases to understand simple texts and start describing any person or object in Simple Present Tense.

Course Contents:

Module I

Revision of earlier modules.

Module II

Some more AR/ER/IR verbs. Introduction to root changing and irregular AR/ER/IR ending verbs

Module III

More verbal phrases (eg, Dios Mio, Que lastima etc), adverbs *(bueno/malo, muy, mucho, bastante, poco).*

Simple texts based on grammar and vocabulary done in earlier modules.

Module IV

Posessive pronouns

Module V

Writing/speaking essays like my friend, my house, my school/institution, myself….descriptions of people, objects etc, computer/internet related vocabulary

Examination Scheme:

Components	**CT1**	**CT2**	**C**	**I**	**V**	**A**
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

Español, En Directo I A
Español Sin Fronteras

FLJ 201JAPANESE - II

Course Code: FLJ 201 Credit Units: 02 Teaching hours: 02

Course Objective:

To enable the students to converse in the language with the help of basic particles and be able to define the situations and people using different adjectives.

Course Contents:

Module I: Verbs

Transitive verbs, intransitive verbs

Module II: More prepositions

More particles, articles and likes and dislikes.

Module III: Terms used for instructions

No parking, no smoking etc.

Module IV: Adverbs

Different adverbial expression.

Module V: Invitations and celebrations

Giving and receiving presents,

Inviting somebody for lunch, dinner, movie and how to accept and refuse in different ways

Module VI: Comprehension's

Short essay on Family, Friend etc.

Module VII: Conversations

Situational conversations like asking the way, At a post office, family

Module VIII: Illness

Going to the doctor, hospital etc.

Learning Outcome

- Students can speak the language describing above-mentioned topics.

Methods of Private study /Self help

- Handouts, audio-aids, and self-do assignments.
- **Use of library, visiting and watching movies in Japan and culture center every Friday at 6pm.**

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

Text:

Teach yourself Japanese

References:

Shin Nihongo no kiso 1

FLC 201CHINESE – II

Course Code: FLC 201 Credit Units: 02 Teaching hours: 02

Course Objective:

Chinese is a tonal language where each syllable in isolation has its definite tone (flat, falling, rising and rising/falling), and same syllables with different tones mean different things. When you say, "ma" with a third tone, it mean horse and "ma" with the first tone is Mother. The course aims at familiarizing the student with the basic aspects of speaking ability of Mandarin, the language of Mainland China. The course aims at training students in practical skills and nurturing them to interact with a Chinese person.

Course Contents:

Module I	Drills Practice reading aloud Observe Picture and answer the question. Tone practice. Practice using the language both by speaking and by taking notes. Introduction of basic sentence patterns. Measure words.Glad to meet you
Module II	Where do you live? Learning different colors. Tones of "bu" Buying things and how muchit costs? Dialogue on change of Money. More sentence patterns on Days and Weekdays. How to tell time. Saying the units of time in Chinese. Learning to say useful phrases like – 8:00, 11:25, 10:30 P.M. everyday, afternoon, evening, night, morning 3:58, one hour, to begin, to end ….. etc.Morning, Afternoon, Evening, Night.
Module III	Use of words of location like-li, wais hang, xia Furniture – table, chair, bed, bookshelf,.. etc. Description of room, house or hostel room..eg what is placed where and how many things are there in it? Review Lessons – Preview Lessons. Expression 'yao", "xiang" and "yaoshi" (if). Days of week, months in a year etc. I am learning Chinese. Is Chinese difficult?
Module IV	Counting from 1-1000 Use of "chang-chang". Making an Inquiry – What time is it now? Where is the Post Office? Days of the week. Months in a year. Use of Preposition – "zai", "gen". Use of interrogative pronoun – "duoshao" and "ji". "Whose"??? Sweater etc is it? Different Games and going out for exercise in the morning.

Module V	The verb “qu” Going to the library issuing a book from the library Going to the cinema hall, buying tickets Going to the post office, buying stamps Going to the market to buy things.. etc Going to the buy clothes …. Etc. Hobby. I also like swimming. Comprehension and answer questions based on it.

Examination Scheme:

Components	**CT1**	**CT2**	**C**	**I**	**V**	**A**
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

“Elementary Chinese Reader Part I” Lesson 11-20

BID 301 DESIGN - III

Course Code: BID 301 **Credit Units: 09** L-0/ST-6/P-0 **Teaching hours: 06**

Course Objective:

The objective of the course is to provide a clear understanding about the design elements and principles followed while designing interiors of a Residential unit like a house using different materials and architectural styles.

Course Contents:

Module I: Introduction

Study of internal spaces in Residences (2-3 Bedrooms) for anthropometrics, human comfort/ convenience, culture and aesthetics. Project introduction for studio exercise

Module II :Case studies, Site Studies and Literature Studies

Case Studies – primary (existing Residences (2-3 Bedrooms)) and secondary (Residences (2-3 Bedrooms) through Literature); Literature Review – Design Standards and Codes, Comparative Analysis and Area statement

Module III: Concept Formulation

Development of concept to be presented with bubble diagrams, circulation diagrams and sketches for discussion.

Module IV: Design Development

Design to be developed through a series of appraisals and open discussions on alternative sketch options. Design proposal to be frozen and workability, efficiency of design to be worked out and finalized.

Module V: Presentation

Preparation of Presentation Drawings of the Final Design Proposal. Enhancement of presentation skills using multiple media. Creation of 3-D models based on the design. Preparation of perspective views (internal & external). Presentation of studies and design proposal through submission of sheet work – drawings and views as well as scaled models.

Suggested Design Exercise

The suggested design exercise – Residences - Villa, Townhouse, Apartments, Office cum Residence, etc. Emphasis shall be on the composition, aesthetics and innovation.
At least one major exercise and one minor design/time problems should be given. The final submission shall necessarily include a model.

An A4 Design Report - documenting the process & progress of work through clippings of sketches/ photographs of models highlighting design concept as well as the final proposal drawings etc- shall be an essential part of submission.

Examination Scheme:

Components	A	S1	S2	CT	Viva	EE
Weightage (%)	05	15	20	10	20	30

Text & References:

Text:

1. A Visual Dictionary of Architecture, Francis D.K. Ching
2. Creative Interiors (Design of Enclosed Space), Shashi Jain
3. Graphic Interiors (Space Designed by Graphic Artists), Corina Dean
4. Interior design illustrated , Francis D.K. Ching
5. (Space Designed by Graphic Artists), Corina Dean
6. Architecture: Form, Space and Order, Francis D.K. Ching

References:

1. Architectural Graphic standards, Boaz Joseph
2. Interior Design Visual, Maureen Mitton 2nd Edition
3. 100 Bright Ideas For color, Sue Rose

BID 302 MATERIALS AND CONSTRUCTION TECHNIQUES - III

Course Code: BID 302 **Credit Units: 03** L-1/ST-1/P-1 **Teaching hours: 03**

Course Objective:

- To acquaint the students about floor finishes as a building material. And to familiarize them with construction details and techniques in interior building works.

Course Contents:

Module I: Introduction to different hard finish flooring materials- 2 weeks

Natural Materials: Types of natural stones and application in flooring.
Man-Made Materials: Ceramics, Terrazzo, Vitrified Flooring, etc.

Module II: Introduction to semisoft finish materials- 2 weeks

Wood/ PVC /Cork, its application and fixing /finishing details.

Module III: Introduction to soft floor finishes- 3 weeks

Different types of Carpets/ Dari/ Rugs (man-made, machine made rugs and carpets)
Study of quality, material, thickness, properties applications on different surface.

Module IV: Flooring Patterns & Tile Alignment- 3 weeks

Different types of flooring patterns, designs and tile alignment in different spaces.

Module V: Fixing Details & Specifications- 3 weeks

Specification of floor finishes, fixing details, use of decorative/highlighter tiles other flooring materials. Fixing details and specification of tiles on various floor areas like Bedroom, Living rooms, bathrooms, kitchen, offices, etc.

Examination Scheme:

Components	**A**	**CE**	**CT**	**EE**
Weightage (%)	05	25	20	50

Text & References:

1. Building construction W.B.McKay
2. Building construction R Berry
3. Building construction Chudley
4. Building construction Francis D.K. Ching
5. Civil Engineering Handbook, P.N. Khanna
6. Structure in Architecture, Salvadori and Heller
7. Building construction Dr. B.C.Punmia

BID 303 ART AND GRAPHICS – III

Course Code: BID 303 Credit Units: 01 L-0/ST-0/P-2 **Teaching Hours:02**

Course Objective:

The objective of the course is to give an understanding about the graphics skills used in interior design. The emphasis also should be given on the contemporary arts in India and the works of great artists.

Course Contents:

Module I: Shading and rendering

Perspective view – one point and two point after developing them

Module II: Shades and shadows

Learning to draw Shades and shadows in Perspective with Rendering

Module III: Perspectives

Drawing Free hand perspectives and rendering, Draw the above on computer using different types of software.

Module IV: Collage and murals

Preparation of collage and murals for exterior and interior of buildings. Learning importance of collage for emphasizing the areas in interiors.

Examination Scheme:

Components	**A**	**C**	**P**	**H**	**S**	**CT**	**EE**
Weightage (%)	05	05	05	05	10	20	50

Text & References:

Text:

1. A Visual Dictionary of Architecture, Francis D.K. Ching
2. Creative Interiors (Design of Enclosed Space), Shashi Jain
3. Interior design illustrated, Francis D.K. Ching
4. Home Plumbing (The David & Charles Manual of), Ernest Hall
5. House Book (The Complete Guide to Home Design), Terence Conran
6. Architecture: Form, Space and Order Francis D.K. Ching

References:

1. Window Fashion, Charles T. Randall
2. Illustration + Perspectives (In Pantone Colors), Eiji Mitooka
3. Elements of Architecture, Meiss Pieree Von

BID 304 GRAPHIC SKILLS – III

Course Code: BID 304 **Credit Units: 02** L-0/ST-0/P-4 **Teaching Hours:04**

Course Objective:

- To introduce computer graphics to students. The course is intended to develop the technique of interior rendering, graphic skills required for effective presentation technique.

Course Contents:

Module I: Intro to Computer Graphics and basic application of 2D drafting Software- 2 weeks

Introduction to Auto CAD and its interface. Auto CAD co-ordinate system, inputting points, basic Auto CAD terminology, basic drafting commands.

Module II: Auto Cad (2-D): basic commands and introduction to use of printing equipment's and hardware- 2 weeks

To setting up a drawing environment; setting up the paper size setting unit setting grid limit, drawing limit, snap controls. Two-dimensional drafting work to be handled in detail on Auto Cad. Basic Drafting commands (Related to drafting of line to All geometrical shapes).

Module III: Auto Cad (2-D): modifying commands- 3 weeks

Basic commands related to drawing properties "layer control change properties, line-weight control". Use of Display Commands, editing commands, construction commands, enquiry commands etc., Hatching & texting in drawing, Working on layout & x-ref etc. Drafting of Plan(s), Elevation(s) and Section(s).

Module IV: Auto Cad (2-D): advanced commands- 3 weeks

Draw, edit and create a complete set of architectural drawings for a dwelling unit usingAutoCad Plan(s), Elevation(s) and Section(s) in detail. Create final presentation and documentation of 2D drawings in AutoCad.

Module V: Use of photo editing Software- 3 weeks

Familiarizing the use of printers, plotters their hardware and other related systems. Various Settings & different mode to print Auto CAD drawing. Importing & exporting the drawings from one software into other.

Examination Scheme:

Components	**A**	**C**	**P**	**H**	**S**	**CT**	**EE**
Weightage (%)	05	05	05	05	10	20	50

Text & References

1. Manuals of Autocad – Autodesk Inc.
2. Computer graphics and design, Radhakrishnan Inside Autocad-parker,denial& rice
3. Adobe Photoshop user guide/manual.
4. Manuals of Autocad – Autodesk Inc.

BID 305 HISTORY OF INTERIOR DESIGN - II

Course Code: BID 305 **Credit Units: 02** L-2/ST-0/P-0 **Teaching hours: 02**

Course Objectives:

- To make the students understand about the trends of interior design development and movements associated with them like Arts & Crafts, Art Deco and emergence of modernism and contemporary interiors of 20th Century
- To give students a Global & Indian perspective of achievements and characteristics in interior design, and decorative arts and their relevance and impact on society.
- To develop an understanding of determinants that helped shape art forms & design elements in modern periods
- To familiarize students with the emergence and necessity of interior design and decoration which resulted in emergence of the profession.

Course Contents:

Module I: Early 19th century and Mid 19th century – 2 Weeks

Industrial Revolution, Period – Early 19th century. Victorian taste with change, Period – Mid 19th Century

Module I: Late 19th century – 3 Weeks

The search for a new style, Period – Late 19th Century in reference to European and American style

Module II: Early 20th Century– 3 Weeks

Arts & Crafts movement, Art Nouveau, Impressionism Period – Early 20th Century

Module III: Mid 20th Century - 3 Weeks

Art Deco, Bauhaus Movement and the Modern, Period – Mid 20th Century

Module IV: Late 20th century- 3 Weeks

The Post – Modern/ contemporary era, Minimalism, Photo Realism Period – Late 20th century Present universal trends emerging all over world. Overview of prominent works by Frank O Gehry, I .M. Pei, John Urtzon, Norman Foster, Zaha Hadid. Furniture design by prominent architects and designers like Le Corbusier, Charles and Ray Eames, EeroSaarinen, Marcel Breuer

Examination Scheme

Components	A	S1	S2	CT	Viva	EE
Weightage (%)	05	10	15	20	00	50

Text Books /Reference Books/Journals/Other Study Material:

1. The History of Arch. in India, Chrictophes Tadgell
2. History of Interior Design, Jeannie Ireland
3. A History of Interior Design, John F Pile
4. The History of Arch. in India, Chrictophes Tadgell
5. Interior design & space planning, Dechiara Pabero Zelnik
6. Interior design illustrated, Francis D.K. Ching
7. Islamic Architecture in Interior, Satish Grover
8. The Best Interior India, Anuradha Mahindra
9. Indian Interior, Angelika Taschen

BID 306 BUILDING SERVICES-II (Electrical System & Lighting)

Course Code: BID 306 **Credit Units: 02** L-2/ST-0/P-0 **Teaching hours: 02**

Course Objectives:

- To integrate electrical system with building design. Application of indoor and outdoor lighting in various planning and installation requirement right from generation to actual building level so that the students could use the same in their design.

Course Contents:

Module I: Introduction to electrical systems- 1 weeks

Introduction to electrical engineering services for buildings; Sources of electrical energy supplied to buildings
Electricity generation, transmission and distribution. Instruments for measurement, metering; Electricity Authority, Act, rules and regulation regarding electrification of buildings; Standard Graphical symbols for electrical systems; electric fittings and appliances; Requirements of electrical materials such as conductors, insulators; Types and requirements of electrical cables

Module II: Electrical System design for a building - 1 weeks

Basic Principles of electrical circuit, Methods of wiring -Open and concealed wiring system, distribution system and supply in a building, distribution board and meter, switches; Electrical load calculation,; Design considerations of electrical installations, Study of Electrical layout in a building.

Module III: Electrical safety and protection system - 1 weeks

Protection against overload, short circuit, Control equipment such as switch gear, safety devices to be used in electrical layouts - Fuse, M.C.B, MCCB, ACB, VCB, RCB, ELCB; Earthling and Lightening Protection

Module IV: Photometric Concepts and Day Lighting- 1 weeks

Introduction to basic photometric concept: Light its behaviour and properties, Instruments for measurement lux meters, field of vision, visual task, visual comfort and glare: objectives of lighting design in architecture.

Module V: Artificial Lighting- 1 weeks

Introduction to basic photometric concept: Light its behaviour and properties, Instruments for measurement lux meters, field of vision, visual task, visual comfort and glare: objectives of lighting design in architecture.

Module VI: Design Exercise- 2 weeks

Design and developed detailed layout of electrical and lighting services of previous semester design problem.

Any important note or instruction for course coordinator

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text Books /Reference Books/Journals/Other Study Material:

1. Raina K. B. & Bhattacharya S. K. (2007) Electrical Design, Estimating and Costing, New Age International Publishers, New Delhi.
2. Dagostino, F. R. (1978) Mechanical and Electrical Systems in Construction in Architecture, Reston Publishing Company, Prentice Hill Co., Virgenia.
3. Egan, D. M. (1983) Concepts in Architectural Lighting, McGraw Hill Book Company.
4. Flynn, J. E. et. al (1992) Architectural Interior Systems: Lighting, Acoustics and Air conditioning, Van Nostrand Reinhold
5. NBO (1966) Hand book for Building Engineers, National Buildings Organisation, New Delhi.
6. Grondzik, W. T., Kwok, A.G., Stein, B, Reynolds, J. S. (2009) Mechanical and Electrical Equipment for Buildings, Wiley
7. "Electric Heating",E.P. Ambrose,John Wiley & Sons Inc., New York, 1968.
8. Electrical Technology, Seventh Edition,H. Cotton,CBS publications, 2003

BID307 FURNITURE DESIGN WORKSHOP - I

Course Code: BID 307 **Credit Units: 01** L-0/ST-0/P-2 **Teaching hours: 02**

Course Objectives:

The aim of the course is to make the students aware of the furniture designing which is a important part of interior design. The history of furniture is also to be introduced and described as the part of the course.

Course Contents:

Module I: Ergonomics & Anthropometry - 2 weeks

Introduction to Ergonomics of furniture design

Module I: Furniture design – 2 weeks

Furniture design, Analyzing furniture type, form and designing

Module III: Furniture materials - 4 weeks

Introduction to furniture design as per different materials and studying ergonomic design to prevent repetitive strain injuries and other musculoskeletal disorders.

Module IV: Parameters - 2 weeks

Analyzing working parameters and visual perception of furniture.

Module V: Measuring drawing - 4 weeks

Measuring drawing of a simple furniture and make it in the workshop, Introduction to various typology of furniture.

Any important note or instruction for course coordinator

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text Books /Reference Books/Journals/Other Study Material:

Text:

1. Architectural Models: Construction Techniques – Wolfgang Knoll, Martin Hechinge
2. Model-Making: Materials and Methods – David Neat

Reference Books

1. The aesthetic experience –magnet Jacque Form, Space & Order – D.K Ching.
2. Object by Architects – tapert,Annette,swid powell Art Forms – Preble,duame

Domain Electives – I

BID 308 PHOTOGRAPHY

Course Code: BID 308 **Credit Units: 01** L-0/ST-0/P-2 **Teaching hours: 02**

Course Objective:

This course will teach students to create successful images of exterior architecture, interior architectural design, as well as architectural models. The course discusses equipment, processes, and procedures necessary for the photography of building exteriors and interiors, dusk/night and night architectural landscapes, and construction progress. Students will learn to use Digital SLR camera, lighting techniques, software and to create output. Students will be able to use High Dynamic Range (HDR) : multiple exposures to create dramatic architecture/interior images without additional professional lighting.

Course Contents:

Module I: Architectural Photography

Origins of archyitectural photograph, Review of architectural photographs, Light and Shades, Understanding light – Properties and elements of light. Basics of camera – Operations and Control Parallax Error, use of camera, lens and understanding lighting conditions. Pixels, resolution, Sensor size

Module II: Light and Architecture

Understanding light and photography, External lighting- Direction of lighting - front, side, back, shadows, texture, and effects of clouds, light modification, psychological effects, and types of artificial lighting, combined daylight and flash. Overview of architectural photography, Color balance, Reading histogram, White balance and Color temperature.

Module III: Creativity in Shooting

Finding Forms and Shapes, Elements and Principals of framing, Rules of composition, Aesthetic of framing and composition, Perceptual Control, Depth of field and center of confusion, Exterior and interior photography, Flash control

Module IV: Digital Post Production

Introduction to software, RAW file editing, HDR Imaging, Adobe Photoshop and Light room, Retouching and color correction, Printing Preparation

Module IV: Framing Views

Single point and two point perspective- examples, distortions, emphasizing architectural elements, effect of camera to subject distance, oblique angles, three point perspective-

applications in interiors and exteriors - composition, symmetric composition, applying the law of thirds - examples, image capture to publication.

Project : Students should submit two projects at the end of the semester.

(a) Interior Photography

(b) Exterior Photography

Examination Scheme:

Components	**A**	**CE**	**CT 1**	**EE**
Weightage (%)	05	25	20	50

Text & References:

1. Ackerman, J. S. (2001). *On the origins of architectural photography*. Mellon lecture, December, 4, 2.
2. Harris, M. G., & Harris, M. G. (1998). *Professional architectural photography*. Oxford: Focal Press.
3. Rosa, J., & McCoy, E. (1994). *A constructed view: The architectural photography of julius shulman*. Rizzoli Intl Pubns.
4. Siskin, J. (2012). Photographing architecture: lighting, composition, postproduction, and marketing techniques. Buffalo, NY: Amherst Media.
5. Schulz A., Architectural Photography: Composition, Capture, and Digital Image Processing, O'Reilly Media Inc., 2010
6. Michael Heinrich, Architectural photography, Birkhauser, 2009
7. Michael G. Harris, Professional Architectural Photography, Taylor & Francis, 2002 4.
8. Kopelow A., Architectural Photography the Digital Way, Princeton Architectural Press, 2007

BID 309 VERNACULAR ARCHITECTURE

Course Code: BID 309 **Credit Units: 01** L-0/ST-0/P-2 **Teaching hours**: 02 Hours

Course Objectives:

To expose the students to traditional architecture of the various parts of the country.The students will have knowledge of the planning aspects, materials used in construction, constructional details and settlement planning of the settlements in various parts of the country.

Course Contents:

Module I: **Introduction to Vernacular Architecture**

Approaches and concepts to the study of Vernacular architecture – Introduction to Kutcha architecture and Pucca architecture and architecture without architects developed through experience based on local material.

Module II: **Southern region**

Planning aspects, materials of construction, Constructional details & Settlement Planning of:
Kerala – Nair houses (Tarawads), Kerala Muslim houses (Mappilah houses), Temples, Palaces and theaters – Thattchushastra.
Tamil Nadu – Toda Huts, Chettinad Houses (Chettiars) & Palaces
Karnataka – Gutthu houses (land owning community), Kodava ancestral home (Aynmane)
Andhra Pradesh –Kaccha buildings Religious practices, beliefs, culture & climatic factors influencing the planning of the above.

Module III: **Western Region:**

- Planning aspects, Materials used, Constructional details, Climatic factors influencing the planning of Jat houses for farming caste, Bhungas(Circular Huts) and Havelis(Pukka houses) of Rajasthan
- Pol houses of Ahmedabad - Primitive forms, Symbolism, Colour, Folk art etc in the architecture of the deserts of Kutch & Gujarat state.
- Vernacular architecture of Goa.

Module IV : Northern and Eastern India

- Planning aspects, Materials used, Constructional details, Climatic factors influencing the planning of
- Kashmir – Typical Kutcha houses, mosque, Dhoongas(Boathouses), Ladakhi houses, bridges
- Himachal Pradesh – Kinnaur houses
- Uttar Pradesh – Domestic housing of Uttar Pradesh
- Bengal – Bangla (Rural house form), Aat Chala houses – change from Bangla to Bungalow, Kutcha & Pucca architecture of Bengal.Nagaland – Naga houses & Naga village, Khasi houses Factors influencing the planning aspects, materials of construction& constructional details of the above.

Module V : Vernacular Architecture

Overview of vernacular Architecture of neighbouring countries and world such as Africa, UAE etc.

Exercise : students may be advised to prepare case studies through literature/online/ site visits and submit report.

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text & References:

1. Traditional buildings of India, Ilay Cooper, Thames and Hudson Ltd., London
2. Architecture of the Indian desert, Kulbushan Jain & Meenakshi Jain, Aadi Centre, Ahmedabad
3. The Royal Palaces of India, George Michell, Thames and Hudson Ltd., London
4. Chettiar Heritage, S.Muthiah, Meenakshi Meyappan, Visalakshmi RAMASWAMY, Lokavani-Hallmark Press Pvt. Ltd., Chennai
5. Encyclopaedia of Vernacular architecture of the World, Cambridge University Press
6. Havali – Wooden houses & mansions of Gujarat, V.S.Pramar, Mapin Publishing Pvt. Ltd., Ahmedabad
7. The Tradition of Indian architecture – Continuity & Controversy – Change since 1850, G.H.R.Tillotsum, Oxford University Press, Delhi
8. VISTARA – The architecture of India, Carmen Kagal. Pub : The Festival of India, 1986.
9. House, Form & Culture, Amos Rappoport, Prentice Hall Inc, 1969

BID310 MODEL MAKING WORKSHOP

Course Code: BID 310 **Credit Units: 01** L-0/ST-0/P-2 **Teaching hours: 02**

Course Objectives:

To introduce various fabrication skill and techniques to produce scale –models and to encourage preparation of models as an essential phase in design development and evaluation.

Course Contents:

Module I: Introduction to model-making - 4 weeks

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

Module I: Materials for model-making - 4 weeks

Introduction of various materials available for model making such as papers, mount boards, mount sheets, wood, plastics, films, plaster of Paris, acrylic sheets, metal, glass, FRP etc. Potential of these materials, in model-making

Module III: Techniques of scale-modeling- 6 weeks

Use of different scale, templates, measuring aids, conventions followed. Techniques for preparation of presentation models, mock-ups, simulation of various materials and textures such as wood, glass, aluminum, steel, bricks, roofing tiles, flooring, etc. Models with soft materials like; clay, plaster of Paris etc. Models of shells & membrane structures by use of canvas molding cloth

Any important note or instruction for course coordinator

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text Books /Reference Books/Journals/Other Study Material:

Text:

1. Architectural Models: Construction Techniques – Wolfgang Knoll, Martin Hechinge
2. Model-Making: Materials and Methods – David Neat

Reference Books

1. The aesthetic experience –magnet Jacque Form, Space & Order – D.K Ching.
2. Object by Architects – tapert,Annette,swid powell Art Forms – Preble,duame

BCS 301 COMMUNICATION SKILLS - I

Course Code:BCS 301 Credit Units: 01 Teaching hours: 01

Course Objective:

To form written communication strategies necessary in the workplace

Course Contents:

Module I: Introduction to Writing Skills

Effective Writing Skills

Avoiding Common Errors

Paragraph Writing

Note Taking

Writing Assignments

Module II: Letter Writing

Types

Formats

Module III

Memo

Agenda and Minutes

Notice and Circulars

Module IV: Report Writing

Purpose and Scope of a Report

Fundamental Principles of Report Writing

Project Report Writing

Summer Internship Reports

Examination Scheme:

Components	CT1	CT2	CAF	V	GD	GP	A
Weightage (%)	20	15	30	10	10	10	5

CAF – Communication Assessment File

GD – Group Discussion

GP – Group Presentation

Text & References:

Business Communication, Raman – Prakash, Oxford

Creative English for Communication, Krishnaswamy N, Macmillan Textbook of Business Communication, Ramaswami S, Macmillan Working in English, Jones, Cambridge

A Writer's Workbook Fourth edition, Smoke, Cambridge Effective Writing, Withrow, Cambridge

Writing Skills, Coe/Rycroft/Ernest, Cambridge Welcome!, Jones, Cambridge

BSS 304 BEHAVIOURAL SCIENCE – III(Interpersonal Communication)

Course Code: BSS 301 Credit Units: 01 Teaching hours: 01

Course Objective:

This course provides practical guidance on Enhancing personal effectiveness and performance through effective interpersonal communication and Enhancing their conflict management and negotiation skills

Course Contents:

Module I: Interpersonal Communication: An Introduction

Importance of Interpersonal Communication

Types – Self and Other Oriented

Rapport Building – NLP, Communication Mode

Steps to improve Interpersonal Communication

Module II: Behavioural Communication

Meaning and Nature of behavioiural communication

Persuasion, Influence, Listening and Questioning

Guidelines for developing Human Communication skills

Relevance of Behavioural Communication for personal and professional development

Module III: Interpersonal Styles

Transactional Analysis

Life Position/Script Analysis

Games Analysis

Interactional and Transactional Styles

Module IV: Conflict Management

Meaning and nature of conflicts

Styles and techniques of conflict management

Conflict management and interpersonal communication

Module V: Negotiation Skills

Meaning and Negotiation approaches (Traditional and Contemporary)

Process and strategies of negotiations

Negotiation and interpersonal communication

Module VI: End-of-Semester Appraisal

Viva based on personal journal

Assessment of Behavioural change as a result of training

Exit Level Rating by Self and Observer

Examination Scheme:

Components	SAP	A	Mid Term Test (CT)	VIVA	Journal for Success (JOS)
Weightage (%)	20	05	20	30	25

Text & References:

- Vangelist L. Anita, Mark N. Knapp, Inter Personal Communication and Human Relationships: Third Edition, Allyn and Bacon
- Julia T. Wood. Interpersonal Communication everyday encounter
- Simons, Christine, Naylor, Belinda: Effective Communication for Managers, 1997 1st Edition Cassel
- Goddard, Ken: Informative Writing, 1995 1st Edition, Cassell
- Harvard Business School, Effective Communication: United States of America
- Foster John, Effective Writing Skills: Volume-7, First Edition 2000, Institute of Public Relations (IPR)
- Beebe, Beebe and Redmond; Interpersonal Communication, 1996; Allyn and Bacon Publishers.

FOREIGN LANGUAGE 301

FLF 301 FRENCH - III

Course Code: FLF 301 Credit Units: 02 Teaching hours: 02

Course Objective:

To provide the students with the know-how

To master the current social communication skills in oral and in written.

To enrich the formulations, the linguistic tools and vary the sentence construction without repetition.

Course Contents:

Module B: pp. 76 – 88 Unité 6

Module C: pp. 89 to103 Unité 7

Contenu lexical: Unité 6:se faire plaisir

1. acheter : exprimer ses choix, décrire un objet (forme, dimension, poids et matières) payer
2. parler de la nourriture, deux façons d'exprimer la quantité, commander un repas au restaurant
3. parler des différentes occasions de faire la fête

Unité 7: Cultiverses relations

1. maîtriser les actes de la communication sociale courante (Salutations, présentations, invitations, remerciements)
2. annoncer un événement, exprimer un souhait, remercier, s'excuser par écrit.
3. caractériser une personne (aspect physique et caractère)

Contenu grammatical :

1. accord des adjectifs qualificatifs
2. articles partitifs
3. Négations avec de, ne…rien/personne/plus
4. Questions avec combien, quel…
5. expressions de la quantité
6. ne…plus/toujours - encore
7. pronoms compléments directs et indirects
8. accord du participe passé (auxiliaire « avoir ») avec l'objet direct
9. Impératif avec un pronom complément direct ou indirect
10. construction avec « que » - Je crois que/ Je pense que/ Je sais que

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	15	20	20	20	5

C – Project +Presentation

I – Interaction/Conversation Practice

Text & References:

le livre à suivre : Campus: Tome 1

FLG 301 GERMAN - III

Course Code: FLG 30 Credit Units: 02 Teaching hours: 02

Course Objective:

To enable the students to converse, read and write in the language with the help of the basic rules of grammar, which will later help them to strengthen their language. To give the students an insight into the culture, geography, political situation and economic opportunities available in Germany

Course Contents:

Module I: Modal verbs

Modal verbs with conjugations and usage

Imparting the finer nuances of the language

Module II: Information about Germany (ongoing)

Information about Germany in the form of presentations or "Referat"– neighbors, states and capitals, important cities and towns and characteristic features of the same, and also a few other topics related to Germany.

Module III: Dative case

Dative case, comparison with accusative case

Dative case with the relevant articles

Introduction to 3 different kinds of sentences – nominative, accusative and dative

Module IV: Dative personal pronouns

Nominative, accusative and dative pronouns in comparison

Module V: Dative prepositions

Dative preposition with their usage both theoretical and figurative use

Module VI: Dialogues

In the Restaurant,

At the Tourist Information Office,
A telephone conversation

Module VII: Directions

Names of the directions

Asking and telling the directions with the help of a roadmap

Module VIII: Conjunctions

To assimilate the knowledge of the conjunctions learnt indirectly so far

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	15	20	20	20	5

C – Project +Presentation

I – Interaction/Conversation Practice

Text & References:

Wolfgang Hieber, Lernziel Deutsch

Hans-Heinrich Wangler, Sprachkurs Deutsch

Schulz Griesbach, Deutsche Sprachlehre für Ausländer P.L Aneja, Deutsch Interessant- 1, 2 & 3

Rosa-Maria Dallapiazza et al, Tangram Aktuell A1/1,2

Braun, Nieder, Schmöe, Deutsch als Fremdsprache 1A, Grundkurs

FLS 301 SPANISH – III

Course Code: FLS 301 Credit Units: 02 Teaching hours: 02

Course Objective:

To enable students acquire knowledge of the Set/definite expressions (idiomatic expressions) in Spanish language and to handle some Spanish situations with ease.

Course Contents:

Module I

Revision of earlier semester modules

Set expressions (idiomatic expressions) with the verb *Tener, Poner, Ir.*

Weather

Module II

Introduction to *Gustar*…and all its forms. Revision of *Gustar* and usage of it

Module III

Translation of Spanish-English; English-Spanish. Practice sentences.

How to ask for directions (using estar)

Introduction to IR + A + INFINITIVE FORM OF A VERB

Module IV

Simple conversation with help of texts and vocabulary

En el restaurante

En el instituto

En el aeropuerto

Module V

Reflexives

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	15	20	20	20	5

C – Project +Presentation

I – Interaction/Conversation Practice

Text & References:

Español, En Directo I A

Español Sin Fronteras -Nivel Elemental

FLJ 301 JAPANESE - III

Course Code: FLJ 301 Credit Units: 02 Teaching hours: 02

Course Objective:

To enable the students to converse in the language with the help of basic verbs and to express themselves effectively and narrate their everyday short encounters. Students are also given projects on Japan and Japanese culture to widen their horizon further.

Note: The Japanese script is introduced in this semester.

Course Contents:

Module I: Verbs

Different forms of verbs: present continuous verbs etc

Module II

More Adverbs and adverbial expressions

Module III: Counters

Learning to count different shaped objects,

Module IV: Tenses

Past tense, Past continuous tense.

Module V: Comparison

Comparative and Superlative degree

Module VI: Wishes and desires

Expressing desire to buy, hold, possess. Usage in negative sentences as well.

Comparative degree, Superlative degree.

Module VII: Appointment

Over phone, formal and informal etc.

Learning Outcome

- Students can speak the language and can describe themselves and situations effectively
- They also gain great knowledge in terms of Japanese lifestyle and culture, which help them at the time of placements.

Methods of Private study /Self help

- Handouts, audio-aids, and self-do assignments.
- **Use of library, visiting and watching movies in Japan and culture center every Friday at 6pm.**

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	15	20	20	20	5

C – Project +Presentation

I – Interaction/Conversation Practice

Text & References:

Text:

Teach yourself Japanese

References:

Shin Nihongo no kiso 1

FLC 301 CHINESE – III

Course Code: FLC 301 Credit Units: 02 Teaching hours: 02

Course Objective:

Foreign words are usually imported by translating the concept into Chinese; the emphasis is on the meaning rather than the sound. But the system runs into a problem because the underlying name of personal name is often obscure so they are almost always transcribed according to their pronciation alone. The course aims at familiarizing the student with the basic aspects of speaking ability of Mandarin, the language of Mainland China. The course aims at training students in practical skills and nurturing them to interact with a Chinese person.

Course Contents:

Module I	Drills Dialogue practice Observe picture and answer the question. Introduction of written characters. Practice reading aloud Practice using the language both by speaking and by taking notes. Character writing and stroke order
Module II	Measure words Position words e.g. inside, outside, middle, in front, behind, top, bottom, side, left, right, straight. Directional words – beibian, xibian, nanbian, dongbian, zhongjian. Our school and its different building locations. What game do you like? Difference between “hii” and “neng”, “keyi”.
Module III	Changing affirmative sentences to negative ones and vice versa Human body parts. Not feeling well words e.g. ; fever, cold, stomach ache, head ache. Use of the modal particle “le” Making a telephone call Use of “jiu” and “cal” (Grammar portion) Automobiles e.g. Bus, train, boat, car, bike etc. Traveling, by train, by airplane, by bus, on the bike, by boat.. etc.
Module IV	The ordinal number “di” “Mei” the demonstrative pronoun e.g. mei tian, mei nian etc. use of to enter to exit Structural particle “de” (Compliment of degree). Going to the Park. Description about class schedule during a week in school. Grammar use of “li” and “cong”. Comprehension reading followed by questions.
Module V	Persuasion-Please don’t smoke.

Please speak slowly
Praise – This pictorial is very beautiful
Opposites e.g. Clean-Dirty, Little-More, Old-New, Young-Old, Easy-Difficult, Boy-Girl, Black-White, Big-Small, Slow-Fast … etc.
Talking about studies and classmates
Use of "it doesn't matter"
Enquiring about a student, description about study method.
Grammar: Negation of a sentence with a verbal predicate.

Examination Scheme:

Components	**CT1**	**CT2**	**C**	**I**	**V**	**A**
Weightage (%)	20	15	20	20	20	5

C – Project +Presentation

I – Interaction/Conversation Practice

Text & References:

"Elementary Chinese Reader Part I, Part-2" Lesson 21-30

BID 401 DESIGN - IV

Course Code: BID 401 **Credit Units: 09** L-0/ST-6/P-0 **Teaching hours: 06**

Course Objective:

The objective of the course is to provide a clear understanding about the design elements and principles followed while designing interiors of a Offices - open and enclosed.

Course Contents:

Module I: Introduction

Study of internal spaces in Offices - open as well as enclosed/ cubicles(bureaucratic, IT Sector, Corporate etc.) for anthropometrics, task, human comfort/convenience, culture and aesthetics. Project introduction for studio exercise

Module II: Case studies, Site Studies and Literature Studies

Case Studies – primary (existing Offices –open/enclosed) and secondary (Offices – open/enclosed through Literature); Literature Review – Design Standards and Codes, Comparative Analysis and Area statement

Module III: Concept Formulation

Development of concept to be presented with bubble diagrams, circulation diagrams and sketches for discussion.

Module IV: Design Development

Design to be developed through a series of appraisals and open discussions on alternative sketch options. Design proposal to be frozen and workability, efficiency of design to be worked out and finalized.

Module V: Presentation

Preparation of Presentation Drawings of the Final Design Proposal. Enhancement of presentation skills using multiple media. Creation of 3-D models based on the design. Preparation of perspective views (internal & external). Presentation of studies and design proposal through submission of sheet work – drawings and views as well as scaled models.

Suggested Design Exercise

The suggested design exercise – Offices - bureaucratic, IT, Corporate, Industrial etc. of maximum 200sq.m. Emphasis shall be on the composition, aesthetics, functional efficiency and innovation.

At least one major exercise and one minor design/time problems should be given. The final submission shall necessarily include a model.

An A4 Design Report - documenting the process & progress of work through clippings of sketches/ photographs of models highlighting design concept as well as the final proposal drawings etc- shall be an essential part of submission.

Study tour conducted in previous semester shall be evaluated on the basis of report submission of study tour.

Examination Scheme:

Components	A	S1	S2	CT	Viva	EE
Weightage (%)	05	15	20	10	20	30

Text & References:

Text:

- Interior Best Collection, Commerce Asia II, Archiworld
- Interior Design- Ahmed Kasu
- Interior Design Illustrated - Francis D.K. Ching
- Time Saver standards for Interior Designing and Space Planning , Joseph Dechiara and Julius Panero

References:

- A.J. Metric Handbook, editors, Jan Bilwa and Leslie Fair weather
- Architectural Graphic standards editor, Boaz Joseph
- Planning – the Architect's handbook, E and E.O.
- Neufert's Architect's data

BID 402 MATERIALS AND CONSTRUCTION TECHNIQUES - IV

Course Code: BID 402 **Credit Units: 03** L-1/ST-1/P-1 **Teaching hours: 03**

Course Objective:

- To familiarize students with different transparent/ translucent materials such as Glass, acrylic Sheets, polycarbonate sheets etc. and construction techniques for use as materials in interior built works. Study of Aluminum as a building material and its application with Glass and other products.

Course Contents:

Module I: Types of Glass- 2 weeks

Glass and glass products: Plain, sheet, plate, textured, laminated, wired and toughenedglass. Glas s blocks, glass tiles, mirrors, heat reflecting glasses and Glass wool.

Module II: Glazing/ Glass Partitions/ Floor/ Ceiling- 3 weeks

Introduction to the basics of Curtain Wall Glazing and Structural Glazing. Use of Glass Partitions, Glass floors, Glazed surfaces, etc in interiors. Market survey of available materials, technology and hardware and understanding construction details.

Module III: Glazed Aluminum/Steel Doors, Windows & Partitions- 3 weeks

Construction and fixing details used for glazed aluminum doors, windows, partitions, their applications, types, pricing. Steel doors and window: types and construction detail, standard door/ windows sections. Types of Rolling Shutters and their construction detail. Market survey of available technology and products.

Module IV: Acrylic and Polycarbonate- 2 weeks

Transparent and translucent sheets like Acrylic, polycarbonate sheets in interiors. Understanding the use and application of Translight in interiors and working drawings.

Module V: Elevators, Escalators and Staircase- 3 weeks

Elevators types- Conventional, Glass Elevators for Residence application, etc. and basic construction details. Escalators: Types and Construction detail, Travellators and other modern modes of movement. Construction details of Steel Staircase, Glass Staircase with SS handrail, Glass balustrade and other details.

Examination Scheme:

Components	**A**	**CE**	**CT**	**EE**
Weightage (%)	05	25	20	50

Text & References:

Building construction W.B. McKay
Building construction R Berry
Building construction Chudley
Building construction Francis D.K. Ching
Structure in Architecture, Salvadori and Heller
Building construction Dr. B.C.Punmia.

BID 403 ART AND GRAPHICS – IV

Course Code: BID 403 **Credit Units: 01** L-0/ST-0/P-2 **Teaching. Hours: 02**

Course Objective:

- The objective of the course is to learn about interior surface designing, independent standing three dimensional artwork which could be used in exhibition spaces, lobby, lounge spaces and semi-public and private spaces.. Making models to present your ideas.

Course Contents:

Module I: Introduction

Use of various raw materials/ finish materials/ waste materials to make sculptures, installations with advanced technology and discovering and developing new techniques of designing. Understanding scale, proportions, textures, etc of various three dimensional art forms.

Module II: Installation

Composition of an Installation from waste materials to create an functional model applying various textures and finishes. The installation should be able to stand independently without additional supports.

Module III: Sculpture

Making of small size sculptures using different materials with a given theme and understanding the method for making it. Application of colors, textures, polish, etc. to the sculpture as required.

Module IV: Geometrical and Organic Shape 3d- Models

Designing of models based on Geometrical and Organic shapes with given themes which could be put to different uses or just serve an aesthetic function.

Examination Scheme:

Components	A	C	P	H	S	CT	EE
Weightage (%)	05	05	05	05	10	20	50

Text & References:

Text:

- A Visual Dictionary of Architecture, Francis D.K. Ching
- Creative Interiors (Design of Enclosed Space), Shashi Jain
- Interior design illustrated, Francis D.K. Ching
- Home Plumbing (The David & Charles Manual of), Ernest Hall
- House Book (The Complete Guide to Home Design), Terence Conran
- Architecture: Form, Space and Order Francis D.K. Ching

References:

- Window Fashion, Charles T. Randall
- Illustration + Perspectives (In Pantone Colors), Eiji Mitooka
- Elements of Architecture, Meiss Pieree Von

BID 404 GRAPHIC SKILLS – IV

Course Code: BID 404 **Credit Units: 02** L-0/ST-0/P-4 **Teaching Hours: 04**

Course Objective:

- To train students in drafting and presentation techniques using computer software.

Course Contents:

Module I: Auto Cad (2-D): Advanced commands- 2 weeks

Draw, edit and create a complete set of architectural drawings for a dwelling unit using AutoCad Plan(s), Elevation(s) and Section(s) in detail. Create final set of 2D drawings in AutoCAD.

Module II: Use of photo editing Software- 3 weeks

Photo editing as well as preparation of 2-D presentations and rendering views on Photoshop/ Corel Draw. Create final presentation 2D drawings in Photoshop or Corel Draw.

Module III: Introduction to (3-D) software (Elementary-I) - 3 weeks

Introduction to basic 3-D software of architectural significance AutoCAD-3D and its basic usage (creating conceptual exterior and views of an Architectural Project).

Module IV: Introduction to (3-D) software (Elementary-II) - 3 weeks

Introduction to Sketch Up. Creating basic Interior views of a 3D project using SketchUp.

Module V: Advanced Modeling & Basic Rendering- 3 weeks

Advanced 3D Modeling in Autocad and Sketch Up with Human figures, furniture layout, Wall and floor finishes using Material library, interior landscape, doors and windows and other details. Creating basic rendered views using Autocad, Sketch Up and Photoshop.

Examination Scheme:

Components	**A**	**C**	**P**	**H**	**S**	**CT**	**EE**
Weightage (%)	05	05	05	05	10	20	50

Text & References:

Manuals of Autocad – Autodesk Inc.
Computer graphics and design, Radhakrishnan
Inside Autocad--parker,denial& rice
Google SketchUp user's guide.
Adobe Photoshop user guide/manual.
Google SketchUp for Interior Designers – Daniel John Stine
Rendering in SketchUp – Daniel Tal
V-ray user's Guide.
Lumion user's guide/manual.
Architectural Design with SketchUp – Alexander Schreye

BID405 FURNITURE DESIGN WORKSHOP-II

Course Code: BID 405 **Credit Units: 01** L-0/ST-0/P-2 **Teaching hours: 02**

Course Objectives:

The objective of the course is to provide knowledge about an existing piece of furniture in its functional and technical aspect, carpentry skills required, materials and properties, biomechanical factors, ergonomics, aesthetics and economic factors.

Course Contents:

Module I: Analyzing furniture - 2 weeks

Analyzing furniture forms and designing furniture forms scientifically based on ergonomics, material design and working parameters and visual perception of furniture as a single form and as a system in each interior space.

Module II: Measurement drawing - 4 weeks

Measurement drawing of a piece of a furniture-plan, elevation, sections and detail drawings on proper scale. Design of a simple object having some moving components like a folding stool or chair. History of furniture from early days to industrial revolution.

Module III: Modular Aspect - 4 weeks

Modular aspect and approach towards all types of furniture, cost criteria of design furniture for lower income group in the society.

Module IV: Furniture Style - 4 weeks

Design and understand Post Independence furniture style.

Any important note or instruction for course coordinator

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text Books /Reference Books/Journals/Other Study Material:

Text:

1. Architectural Models: Construction Techniques – Wolfgang Knoll, Martin Hechinge
1. Model-Making: Materials and Methods – David Neat

Reference Books

1. The aesthetic experience –magnet Jacque Form, Space & Order – D.K Ching.
2. Object by Architects – tapert,Annette,swid powell Art Forms – Preble,duame

BID 406 BUILDING SERVICES-III (Acoustical System)

Course Code: BID 406 **Credit Units: 02** L2/ST-0/P-0 **Teaching hours: 02**

Course Objectives:

• To acquaint students about acoustical requirements and consideration for building design right from residential to the theatre type of building.

Course Contents:

Module I: Terminology in Acoustics- 1 weeks

Sound and its properties, audible sound, intensity and loudness, frequency and pitch, quality Reflection, absorption, transmission, diffusion, diffraction of sound ; Common acoustical defects: Echo, sound-foci, dead spots, sound shadows, resonance, insufficient loudness, external noise, reverberation and reverberation time.

Module II: Acoustic materials - 1 weeks

Sound absorbing materials and their applications– description and characteristics, types of absorbents and reflectors and their application, Market survey and sample collection.

Module III: Acoustical design case studies - 1 weeks

Study of existing designs to understand shapes/spaces and integration of acoustical equipment in the design.

Module IV: Noise control- 1 weeks

Environmental noise control: noise sources, airborne and structure-borne noise, transmission of noise, methods of environmental noise control, control of mechanical noise and vibrations, General idea of sound insulation. Noise control in specific types of buildings like – auditoriums, residential buildings, hotels, school, hospitals, offices, libraries.

Module V: Artificial Lighting- 1 weeks

Introduction to basic photometric concept: Light its behaviour and properties, Instruments for measurement lux meters, field of vision, visual task, visual comfort and glare: objectives of lighting design in architecture.

Module VI: Design Exercise- 2 weeks

Acoustical design or case study of existing building such as auditorium, recording studio, theatre, cinema halls, hospitals or a multistory office building.

Any important note or instruction for course coordinator

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text Books /Reference Books/Journals/Other Study Material:

1. Templeton, Duncan & Saunders, David, "Acoustic Design", The Architectural Press, London, 1987.

2. Templeton (ed.), "Acoustics in the Built Environment", Butterworth, London, 1993.
3. NBC of India
4. K.A.Siraskar- Acoustics in building design
5. Building Construction - B.C. Punmia
6. Building Construction - Rangawalla
7. Building Construction and Materials – Gurcharan Singh
8. Architectural Acoustics: E. David
9. An Introduction to Building Physics: Narsmhan
10. Fundamentals of acoustic by Kinsler, Lawrence E and others
11. Enviromental acoustic by Doelle, Leslie L.
12. Knudson and Harris, `Acoustical Designing to Architecture'.
13. David Egan, `Architectural Acoustics' Ross publishers, 2008.
14. Ducan Templeton et all 'Acoustics in the Built Environment, Architectural press1997

Domain Elective-II

BID 408 INNOVATIVE MATERIALS FOR FINISHES

Course Code: BID 408 **Credit Units: 02** L-2/ST-0/P-0 **Teaching hours: 02**

Course objective:
To familiarize student with different innovative materials for finishes and their use in building works.

Course contents:
Module I: Introduction
Introduction to different innovative materials for finishes viz. paper, pipes, salt, fur, translucent wood, pollution absorbing bricks, light generating cement, bio-plastics, pre-cast modular materials etc.

Module II: Application Methods & Techniques
Application methods and techniques for the use of different innovative materials for finishes viz. paper, pipes, salt, fur, translucent wood, pollution absorbing bricks, light generating cement, bio-plastics etc. in building works.

Module III: Stamped Concreting and Application Techniques
Introduction of Stamped Concrete used in Interiors and exteriors and application methods. Preparation of different surfaces for stamped concreting and their market study.

Module IV: Artificial Stones, Semi-precious Stones and Application Techniques
Types of artificial stones and semi-precious stones used in Interiors and exteriors and their application methods. Preparation of different surfaces for artificial stones, semi-precious stones works and their market study.

Module V: Plastics & Polycarbonates and Application Techniques
Types of plastics & polycarbonates used in Interiors and exteriors. Application methods of different plastics & polycarbonates in building works and their market study.

Exercises: Field trips, market survey of available innovative materials, technology and hardware, preparation of study reports and presentation of seminars on above topics.

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text & References:

- YouTube videos on construction operation using above building materials

- 10 Innovative Materials That Could Revolutionize the Construction Industry (https://www.archdaily.com/)
- Dezeen's top 10 innovative materials of 2018 (https://www.dezeen.com/)
- Francis D. Ching, Building Construction Illustrated
- Rangwala, S.C. Building Construction: Materials and types of Construction
- Building Construction by S P Arora and S P Bin]]]

BID 409 INTERIOR DOCUMENTATION

Course Code: BID 409 **Credit Units: 02** L-2/ST-0/P-0 **Teaching hours: 02**

Course Objective:

- To familiarize the students with various aspects, issues and considerations related to the documentation of architecture and its characteristics so that its heritage and inherent values can be identified and recorded.

Course Contents:

Module I: Introduction to Architectural Documentation

Introduction to documentation of historical buildings includes not only measured photographic survey, but also surveying of the qualities of building spaces and their elements. Identification and understanding the use and purpose of the documentation.

Module II: Methodology

Detailing the purpose, scaled drawings, photographic documentation, visual analysis, classification and mapping of the spaces and their elements. The originality of these spaces and elements are evaluated within the frame of research results that are previously published, site surveys made. Use of modern equipment such as 'CANVAS' and its interface with I-pad and AutoCAD etc to be understood.

Module III: Analysis

Visual analysis consisting of analysis of spatial element and architectural elements need be understood. The spaces grouped according to their functions and the elements grouped according to their types. Visual analysis of onsite elements, outside elements need to be recorded. The context of the building need to be understood and recorded.

Module IV: Evaluation of characteristics

Distinguishing the modern with traditional architecture in terms of elements, details etc. Sketching and tabulating the spatial characteristics and their types

Module V: Compilation and Assessment

Classification and comparison is an effective way to decipher architectural characteristics of a historical

Building with its originalities and alterations. The compilation should be as realistic as possible without the opinion of the compiler to retain the authenticity of the project.

NOTE-Students may be assigned a case study to assess the understanding of the subject.

Examination Scheme:

Components	**A**	**CE**	**CT 1**	**EE**
Weightage (%)	05	25	20	50

Text & References:

References:

- Glenn E. Wiggins, Manual of Construction Documentation: An Illustrated Guide to Preparing Construction Drawings, 1989, Whitney Library of Design
- John H. Stubbs, Robert G. Thomson, Architectural Conservation in Asia: National Experiences and Practice
- Wiley, Landscape Architecture Documentation Standards: Principles, Guidelines, and Best practices, 2016, John wiley & sons inc.
- Architectural Heritage, New Technologies in Documentation: Council of Europe, 1990

BID 410 BARRIER FREE SPACE PLANNING FOR INTERIORS

Course Code: BID 410 **Credit Units: 02** L-2/ST-0/P-0 **Teaching hours: 02**

Course Objectives:

- The objective of course is to learn the principles of barrier free designand concepts of universal design. It Provides an idea about barrier free construction principles in buildings while understanding of the key aspects and systems of specially able persons built space in architecture.

Course Contents:

Module I: Special Abilities

Understanding the different human imparities such as visual, mobility and hearing and also understanding the abilities of such differently able persons. To understand the architectural requirements of such persons.

Module II: Introduction to Architecture for specially able

Defining the basic concepts of barrier free design, need for barrier free concepts in architecture, concepts of universal design and types of disabilities. Design principles for barrier free architecture and accessibility for all.

Module III: Barrier free elements for outdoors and Urban Design

Design elements outside the building like curb ramps, pedestrian crossing, public toilets, and parking, signage, flooring and street furniture. Case examples of Barrier free architecture in India and across the globe. To study the anthropometrics and dimensions of mobility devices, special fixtures for barrier free design. Barrier free construction materials and dimensions for flooring, walls, doors, windows, staircases, elevators, toilets, entrances and corridors.

Module IV: Laws

Knowledge of different laws prevailing within India and in other countries**.** Understanding implication of different laws on design of spaces.

Module V: Case Study, Presentation & Design elements

Barrier free architecture in Public Buildings – dimensions and standards. Case Study of Barrier free elements in Public buildings, Photographic documentation and Presentation. Incorporation of barrier free elements in project being pursued in architectural design.

Examination Scheme:

Components	**A**	**CE**	**CT**	**EE**
Weightage (%)	05	25	20	50

Text & References:

- Guidelines and Space Standards for Barrier Free Built Environment for Disabled and Elderly Persons – Central Public Works Department, Ministry of Urban Affairs & Employment, India, 1998

- IS – 4963 (1987), Recommendations for buildings and facilities for Physically Handicapped

- Barrier-Free Design: Principles Planning, Examples, by Oliver Heiss, Christine Degenhardt, Johann Ebe (Birkhauser Architecture, 2010)

BCS 401 COMMUNICATION SKILLS – II

Course Code: BCS 401 Credit Units: 01 Teaching hours: 01

Course Objective:

To teach the participants strategies for improving academic reading and writing.

Emphasis is placed on increasing fluency, deepening vocabulary, and refining academic language proficiency.

Course Contents:

Module I: Social Communication Skills

Small Talk

Conversational English

Appropriateness

Building rapport

Module II: Context Based Speaking

In general situations

In specific professional situations

Discussion and associated vocabulary

Simulations/Role Play

Module III: Professional Skills

Presentations

Negotiations

Meetings

Telephony Skills

Examination Scheme:

Components	CT1	CT2	CAF	V	GD	GP	A
Weightage (%)	20	20	25	10	10	10	5

CAF – Communication Assessment File

GD – Group Discussion

GP – Group Presentation

Text & References:

Essential Telephoning in English, Garside/Garside, Cambridge Working in English, Jones, Cambridge

Business Communication, Raman – Prakash, Oxford Speaking Personally, Porter-Ladousse, Cambridge

Speaking Effectively, Jermy Comfort, et.al, Cambridge Business Communication, Raman – Prakash, Oxford

BSS 404 Behavioral Science – IV (Relationship Management)

Course Code: BSS 401 Credit Units: 01 Teaching hours: 01

Course Objective:

To understand the basis of interpersonal relationship To understand various communication style

To learn the strategies for effective interpersonal relationship

Course Contents:

Module I: Understanding Relationships

Importance of relationships

Role and relationships

Maintaining healthy relationships

Module II: Bridging Individual Differences

Understanding individual differences

Bridging differences in Interpersonal Relationship – TA

Communication Styles

Module III: Interpersonal Relationship Development

Importance of Interpersonal Relationships

Interpersonal Relationships Skills

Types of Interpersonal Relationships

Module IV: Theories of Interpersonal Relationships

Theories: Social Exchange, Uncertainty Reduction Theory

Factors Affecting Interpersonal Relationships

Improving Interpersonal Relationships

Module V: Impression Management

Meaning & Components of Impression Management

Impression Management Techniques

Impression Management Training-Self help and Formal approaches

Module VI: End-of-Semester Appraisal

Viva based on personal journal

Assessment of Behavioural change as a result of training

Exit Level Rating by Self and Observer

Examination Scheme:

Components	SAP	A	Mid Term Test (CT)	VIVA	Journal for Success (JOS)
Weightage (%)	20	05	20	30	25

Text & References:

Vangelist L. Anita, Mark N. Knapp, Inter Personal Communication and Human Relationships: Third Edition, Allyn and Bacon

Julia T. Wood. Interpersonal Communication everyday encounter

Simons, Christine, Naylor, Belinda: Effective Communication for Managers, 1997 1st Edition Cassell

Goddard, Ken: Informative Writing, 1995 1st Edition, Cassell

Harvard Business School, Effective Communication: United States of America

Foster John, Effective Writing Skills: Volume-7, First Edition 2000, Institute of Public Relations (IPR) Beebe, Beebe and Redmond; Interpersonal Communication, 1996; Allyn and Bacon Publishers.

FOREIGN LANGUAGE 401

FLF 401 FRENCH - IV

Course Code: FLF 401 Credit Units: 02 Teaching hours: 02

Course Objective:

To enable students:

To develop strategies of comprehension of texts of different origin To present facts, projects, plans with precision

Course Contents:

Module C: pp. 104 – 139 : Unités 8,9

Contenu lexical :Unité 8 : Découvrir le passé

1. parler du passé, des habitudes et des changements.
2. parler de la famille, raconter une suite d'événements/préciser leur date et leur durée.
3. connaître quelques moments de l'histoire

Unité 9: Entreprendre

1. faire un projet de la réalisation: (exprimer un besoin, préciser les étapes d'une réalisation)
2. parler d'une entreprise
3. parler du futur

Contenu grammatical:

1. Imparfait
2. Pronom « en »
3. Futur
4. Discours rapporté au présent
5. Passé récent
6. Présent progressif

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

le livre à suivre: Campus: Tome 1

FLG 401 GERMAN - IV

Course Code: FLG 401 Credit Units: 02 Teaching hours: 02

Course Objective:

To enable the students to converse, read and write in the language with the help of the basic rules of grammar, which will later help them to strengthen their language.

To give the students an insight into the culture, geography, political situation and economic opportunities available in Germany.Introduction to Advanced Grammar Language and Professional Jargon

Course Contents:

Module I: Present perfect tense	Present perfect tense, usage and applicability Usage of this tense to indicate near past Universal applicability of this tense in German
Module II: Letter writing	To acquaint the students with the form of writing informal letters.
Module III: Interchanging prepositions	Usage of prepositions with both accusative and dative cases Usage of verbs fixed with prepositions Emphasizing on the action and position factor
Module IV: Past tense	Introduction to simple past tense Learning the verb forms in past tense Making a list of all verbs in the past tense and the participle forms
Module V: Reading a Fairy Tale	Comprehension and narration ▪ Rotkäppchen ▪ Froschprinzessin ▪ Die Fremdsprache
Module VI: Genitive case	Genitive case – Explain the concept of possession in genitive Mentioning the structure of weak nouns
Module VII: Genitive prepositions	Discuss the genitive propositions and their usage: (während, wegen, statt, trotz)
Module VIII: Picture Description	Firstly recognize the persons or things in the picture and identify the situation depicted in the picture; Secondly answer questions of general meaning in context to the picture and also talk about the personal experiences which come to your mind upon seeing the picture.

Examination Scheme:

Components	CT1	CT2	C	I	V	A

Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

Wolfgang Hieber, Lernziel Deutsch

Hans-Heinrich Wangler, Sprachkurs Deutsch

Schulz Griesbach, Deutsche Sprachlehre für Ausländer P.L Aneja, Deutsch Interessant- 1, 2 & 3

Rosa-Maria Dallapiazza et al, Tangram Aktuell A1/1,2

Braun, Nieder, Schmöe, Deutsch als Fremdsprache 1A, Grundkurs

FLS 401 SPANISH - IV

Course Code: FLS 401 Credit Units: 02 Teaching hours: 02

Course Objective:

To enable students acquire working knowledge of the language; to give them vocabulary, grammar, voice modulations/intonations to handle everyday Spanish situations with ease.

Course Contents:

Module I

Revision of earlier semester modules

Introduction to Present Continuous Tense (Gerunds)

Module II

Translation with Present Continuous Tense

Introduction to Gustar, Parecer, Apetecer, doler

Module III

Imperatives (positive and negative commands of regular verbs)

Module IV

Commercial/business vocabulary

Module V

Simple conversation with help of texts and vocabulary

En la recepcion del hotel

En el restaurante

En la agencia de viajes

En la tienda/supermercado

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

Español Sin Fronteras (Nivel – Elemental)

FLJ 401 JAPANESE - IV

Course Code: FLJ 401 Credit Units: 02 Teaching hours: 02

Course Objective:

To enable the students to comfortably interact using basic Japanese.
Note: Teaching is done in roman as well as Japanese script, students will be taught katankana (another form of script) in this semester i.e. to be able to write all the foreign words in Japanese.

Course Contents:

Module I

Comparison using adjectives, making requests

Module II

Seeking permission

Module III

Practice of conversations on:

Visiting people, Party, Meetings, after work, at a ticket vending machine etc

Module IV

Essays, writing formal letters

Learning Outcome

- Students can speak the language describing above-mentioned topics.

Methods of Private study /Self help

- Handouts, audio-aids, and self-do assignments, role-plays.
- **Students are also encouraged to attend Japanese film festival and other such fairs and workshops organized in the capital from time to time.**

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

Text:

Teach yourself Japanese

References:

Shin Nihongo no kiso 1

FLC 401 CHINESE – IV

Course Code: FLF 401 Credit Units: 02 Teaching hours: 02

Course Objective:

How many characters are there? The early Qing dynasty dictionary included nearly 50,000 characters the vast majority of which were rare accumulated characters over the centuries. An educate person in China can probably recognize around 6000 characters. The course aims at familiarizing the student with the basic aspects of speaking ability of Mandarin, the language of Mainland China. The course aims at training students in practical skills and nurturing them to interact with a Chinese person.

Course Contents:

Module I	Dialogue Practice Observe picture and answer the question Pronunciation and intonation Character writing and stroke order. Electronic items
Module II	Traveling – The Scenery is very beautiful Weather and climate Grammar question with – "bu shi …. Ma?" The construction "yao … le" (Used to indicate that an action is going to take place) Time words "yiqian", "yiwai" (Before and after). The adverb "geng".
Module III	Going to a friend house for a visit meeting his family and talking about their customs. Fallen sick and going to the Doctor, the doctor examines, takes temperature and writes prescription. Aspect particle "guo" shows that an action has happened some time in the past. Progressive aspect of an actin "zhengzai" Also the use if "zhe" with it. To welcome someone and to see off someone …. I cant go the airport to see you off… etc.
Module IV	Shipment. Is this the place to checking luggage? Basic dialogue on – Where do u work? Basic dialogue on – This is my address Basic dialogue on – I understand Chinese Basic dialogue on – What job do u do? Basic dialogue on – What time is it now?
Module V	Basic dialogue on – What day (date) is it today? Basic dialogue on – What is the weather like here. Basic dialogue on – Do u like Chinese food?

Basic dialogue on – I am planning to go to China.

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

"Elementary Chinese Reader, Part-2" Lesson 31-38

BID 501 DESIGN - V

Course Code: BID 501 **Credit Units: 12** L-0/ST-8/P-0 **Teaching hours: 08**

Course Objective:

- The objective of the course is to introduce the students to basics of Hospitality spaces and to integrate Building Services such as Lighting, Electrical, Water Supply, Acoustics etc in the designed interiors scheme. The course should involve different design ideas and schemes to represent the designing of Food joints, cafeterias, restaurants as these are the prime area of designing emerging in the modern world.

Course Contents:

Module I: Introduction
Study of requirement of Hospitality related internal spaces in 3-4 star rated accommodations for anthropometrics, human comfort/convenience, culture ,aesthetics and integration with building services. Project introduction for studio exercise

Module II: Case studies, Site Studies and Literature Studies
Case Studies – one Live and one through Literature; Literature Review – Design Standards and Codes, Comparative Analysis and Area statement

Module III: Concept Formulation
Development of concept to be presented with bubble diagrams, circulation diagrams and sketches for discussion.

Module IV: Design Development
Design to be developed through a series of appraisals and open discussions on alternative sketch options. Design proposal to be frozen and workability, efficiency of design to be worked out and finalized.

Module V: Presentation
Preparation of Presentation Drawings of the Final Design Proposal.Enhancement of presentation skills using multiple media. Creation of 3-D models based on the design. Preparation of perspective views (internal & external). Presentation of studies and design proposal through submission of sheet work – drawings and views as well as scaled models.

Suggested Design Exercise
The suggested design exercise – Coffee Shops, Fine Dining Restaurants, Reception Lobbies and Lounge of Hotels, Spas, Bars, Clubs, Discotheque, Hotel Kitchens – open & enclosed etc.
Emphasis shall be on the composition, aesthetics and innovation.
At least one major exercise and one minor design/time problems should be given. The final submission shall necessarily include a model.
An A4 Design Report - documenting the process & progress of work through clippings of sketches/ photographs of models highlighting design concept as well as the final proposal drawings etc- shall be an essential part of submission.

Examination Scheme:

Components	A	S1	S2	CT	Viva	EE
Weightage (%)	05	15	20	10	20	30

Text & References:

Text:

- Design Fundamental in Architecture, Walter Gropius
- Interior Best Collection, Commerce Asia II, Archiworld
- Interior Design- Ahmed Kasu
- Interior Design Illustrated - Francis D.K. Ching
- Time Saver standards for Interior Designing and Space Planning , Joseph Dechiara and Julius Panero

References:

- A.J. Metric Handbook, editors, Jan Bilwa and Leslie Fair weather
- Architectural Graphic standards editor, Boaz Joseph
- Time Saver standards for building types, editor Joseph D.C. and John Callender.

BID 502 MATERIALS AND CONSTRUCTION TECHNIQUES - V

Course Code: BID 502 Credit Units: 03 L-1/ST-1/P-1 **Teaching hours: 03**

Course Objective:

- To familiarize student with different finishing materials for false ceiling, cladding, upholstery and their use in building works.

Course Contents:

Module I: False ceiling type and Construction details- 3 weeks

POP, Gypsum board, Acoustic panels, Wood, Metal etc.- Classification, Manufacturing, Market availability and prices, Advantages/ Disadvantages, Design and detailing etc.

Module II: Exterior and interior finishes- 3 weeks

Latest finishing materials and their applications in construction- Aluminum Composite Panels (ACP), PVC Sheets, Gypsum, Fiberglass, Glass bricks, other cladding materials and finishes.

Module III: Paints, Polish, Varnishes and Application Techniques- 2 weeks

Types of Paints used in Interiors and exteriors and application methods. Preparation of different surfaces for Painting, Polishing and Varnishing and their market study.

Module IV: Upholstery & Curtains, Drapes & Blinds- 3 weeks

Upholstery work in furniture, especially seats, with padding, springs, webbing, and fabric or leather, leatherette covers, etc. Curtains, Drapes, Blinds, their material types and application on doors and windows.

Module V: Special Details- 2 weeks

Sliding door and Windows, Folding door, Revolving Door, Sliding and Folding door with hardware and their combinations.

Exercises: Field trips, market survey of available materials, technology and hardware, preparation of study reports and presentation of seminars, preparation of drawings on above topics.

Examination Scheme:

Components	**A**	**CE**	**CT**	**EE**
Weightage (%)	05	25	20	50

Text & References:

Building construction W.B.McKay
Building construction R Berry
Building construction Chudley
Building construction Francis D.K. Ching
Building construction Dr. B.C.Punmia

BID 503 ESTIMATION & SPECIFICATION

Course Code: BID 503 Credit Units: 02 L-2/ST-0/P-0 **Teaching hours: 02**

Course Objective:

- To familiarize the students with the theory and practice of estimation and specification. To develop the understanding of specification writing.

Course Contents:

Module I: Introduction

Definition, importance and uses of specification – principles and practice; method of writing specification; form and sequence of clauses, calculation of length according to long & short wall method, center line method.

Module II: Material Specifications

Writing detailed specification for various common building materials e.g., bricks, sand, lime, timber, wood products, glass, paints etc.; specification of new building materials.

Module III: Specification of simple construction

Writing detailed specification for various building construction works

Module IV : BIS Standards

Specification of BIS and other institutions; general Abbreviations used in specifications.

Module V: Introduction

Introduction to cost estimation and definitions of terms related to estimates

Module VI: Types of estimates

Types of estimates, abstract and detailed estimates; detail estimates – methods of estimating; taking out of various items; preparation of bill of quantities – use of schedule of rates; analysis of rate and break up of material requirements

Module VII: Cost accountancy and book keeping

Introduction to cost accountancy and book keeping

Module VIII: Rate Analysis

Principles of analysis of rates, rates of labour and materials, rate analysis in different building works.

Examination Scheme:

Components	A	C	P	H	S	CT	EE
Weightage (%)	05	05	05	05	10	20	50

Text & References:

Text:

- Estimating and Costing in Civil Engineering: B. N. Dutta

- Estimation, Costing & valuation by M. Chakraboty.
- Handbook on Building Economics and Productivity, Central Building Research Institute, Roorkee: S.C. Singh and G.C. Sofat

References:

- Civil Engineering Handbook – P.N. Khanna
- R.C.C. Design – Khurmi, Punmia, Sushil Kumar

BID 504 GRAPHIC SKILLS – V

Course Code: BID 504 **Credit Units: 02** L-0/ST-0/P-4 **Teaching hours: 04**

Course Objective:

- To train students to create 3D model using computer software.

Course Contents:

Module I: Introduction to other 3D Modeling software- 2 weeks

Introduction to 3ds Max and learning basic modeling like extrusion of Walls, creating doors and windows, making staircases, etc.

Module II: Intermediate & Advanced Modeling in 3ds Max- 3 weeks

Advanced Modeling in 3ds Max using Material library, Lighting Systems in 3ds max. Understanding Scanline and Mental ray rendering.

Module III: Advanced Rendering-3 weeks

Introduction to latest software of architectural significance viz. 3ds Max, V-Ray and Lumion and its basic usage. Creating a complete set of 3d-interior drawings for a dwelling unit. The students shall also render the complete drawings.

Module IV: Basic & Intermediate level Animation-3 weeks

Creating animation (walkthrough) of 3D models in 3ds max, V-Ray and Lumion.

Module V: Learning latest Building Information Modeling (BIM) soft ware's (Revit-Elementary) -3 weeks

Introduction to latest software of interior significance viz. Revit and its basic usage for. Creating Plan(s), Elevation(s) and Section(s).

Examination Scheme:

Components	**A**	**C**	**P**	**H**	**S**	**CT**	**EE**
Weightage (%)	05	05	05	05	10	20	50

Text & References:

Manuals of Autocad – Autodesk Inc.
Computer graphics and design, Radhakrishnan
Inside Autocad--parker,denial& rice
Adobe Photoshop user guide/manual.
Google SketchUp for Interior Designers – Daniel John Stine
Rendering in SketchUp – Daniel Tal
V-ray user's Guide.
Lumion user's guide/manual.
Architectural Design with SketchUp – Alexander Schreyer

BID 505 INTERIOR PROJECT MANAGEMENT

Course Code: BID 505 **Credit Units: 02** L-2/ST-0/P- 0 **Teaching hours: 02**

Course Objective:
Introduction of networking techniques and construction planning practices. Use of construction equipment and method along with quality control. To familiarize students with building construction practices, technology & sequencing for various items of works ranging sub structures, super structures, finishes and services installation.

Course Contents:
Module I: Introduction to Networking Techniques
Introduction to networking techniques: Use of computer aided Microsoft Project/ CPM/ PERT for planning, scheduling and control of construction works; computerized network scheduling and bar charts; errors in networks; types of nodes and node numbering system.

Module II: Introduction Construction Planning
Planning for construction and site facilities using network; preparation of construction schedule for jobs, materials, equipment, labour and budgets using Microsoft Project/ CPM/

Module III: Construction Quality Control
Construction quality control and inspection; significance of variability in estimation of risk; construction cost control; crashing of network

Module IV: Construction Equipment and Methods
Equipment for earth construction and application; concrete construction; production; handling; procurement; Placement; temperature control etc.

Module VI: Construction & Services
Sequence of construction from civil works, electrical HV & LV, plumbing, HVAC, fire safety, Furniture work and other services.

Examination Scheme:

Components	**A**	**C**	**P**	**H**	**S**	**CT**	**EE**
Weightage (%)	05	05	05	05	10	20	50

Text & References:
Text:
- Construction, Planning Management – U.K. Srivastav
- Construction Planning, Equipment and Methods – R.L. Peurifoy
- Construction Performance control ny networks – H.N. Ahuja
- Construction Project Management – K.K. Chilkar
- Construction Planning and Management – M.B. Dhir & S.P. Ghilot

References:

- Project Management – S. Chaudhary
- Project Management with CPM and PERT – Moder and Philipese
- Construction Method and Techniques – Mullick Mullind

BID 506 BUILDING SERVICES-IV (Fire Safety & Security Systems)

Course Code: BID 506 Credit Units: 02 L-2/ST-0/P-0 **Teaching hours: 02**

Course Objectives:

- To acquaint the student with the fire safety regulation and security systems to be adopted in the buildings. Study the development codes and bye-laws of fire safety regulations, and study about the different methods and materials for treatment in buildings for fire safety.

Course Contents:

Module I: Fire Safety- 1 weeks

Introduction: basic understanding about fire, growth decay curve. Causes of fire in buildings, types of fire, spread of fire, production of smoke and poisonous gases. Fire safety and preventive measures.

Module II: Fire properties of materials- 2 weeks

Basic fire properties of materials i.e. ignitability, combustibility, surface spread of flame, fire propagation, toxicity etc.: General behavior of materials, combination of fire retardant and non-combustible materials.

Module III: By-laws for firefighting - 2 weeks

Firefighting regulations with reference to National Building code. Fire escape, stairways and escape routes, dry and wet risers, Water demand for firefighting, storage tanks, fire hydrants etc.

Module IV: Fire extinguishing- 1 weeks

Study of Fire detection systems, smoke detectors, heat detectors, fire alarms etc. Fire extinguishing systems, Unit fire extinguishers, Chemical and foam extinguishers, Chemical and foam extinguishers.

Module V: Advance Security Systems - 1 weeks

Communication systems in buildings, CCTV, conduits to accommodate the systems. Security and Surveillance. Remote control for security systems and automation

Any important note or instruction for course coordinator

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text Books /Reference Books/Journals/Other Study Material:

- Fire Safety: National Building Code of India 1983, An Introduction to Building Physics: Narsmhan

• Fire Safety in Buildings by V.K. Jain
• Brannigan, F. L. & Corbett, G. P. (2008). Brannigan's Building Construction for the Fire Service. Sudbury, MA: Jones & Bartlett Publishers.

Domain Elective-III

BID 507 MATERIAL APPRECIATION

Course Code: BID 507 **Credit Units: 02** L-2/ST-0/P-0 **Teaching hours: 02**

Course objective:

The objective of the course is to introduce the students to the practice of appreciating architectural built forms.

Course contents:

Module I: Introduction

Introduction to building appreciation and analysis of the evolution of buildings and its necessity. Introduction also includes guidelines and parameters to appreciate any building.

Module II: Aesthetic Interpretation

The interpretive understanding of aesthetic experience provides with the opportunity to develop their interpretive skills and heighten their aesthetic responses to various building forms, building textures and building expressions. Analyze, interpret and respond to architectural examples done by architects from past and present. This also includes appreciation of historical works and background of previous era.

Module III: Historical Perspective

Examining historical perspectives help realize the need to understand the past and thoughtfully consider the future to contextualize current knowledge about buildings and their elements. Identify and describe appropriate systematic and scientific strategies to examine historical built forms and methods.

Module IV: Guidelines for Building Appreciation

Develop critical thinking skills, ability to reflect and explain the meanings of architectural works Understand how architectural building works shape and reproduce social ideas, values and concerns and how they interact with and influence society, history and culture.

Note: Students shall be given an example of Building appreciation to record their experiences

Examination Scheme:

Components	**A**	**CE**	**CT 1**	**EE**
Weightage (%)	05	25	20	50

Text & References:

- Kenneth Lindley, Appreciation of Architecture: Landscape and Building (C.I.L.) Paperback – February, 1972
- Carol Davidson Cragoe, How to Read Buildings: A Crash Course in Architectural Styles, Rizzoli, 2008
- Francis D.K. Ching , A Visual Dictionary of Architecture, Wiley, 1996
- Kevin McCloud, Grand Designs Handbook: The blueprint for building your dream home, Collins , 2009

BID 508 ENERGY CONSERVATION ARCHITECTURE

Course Code: BID 508 **Credit Units: 02** L-2/ST-0/P-0 **Teaching hours: 02**

Course Objective:
To familiarize students with principles, techniques and guidelines for planning and design of energy conserving architecture. Study of solar energy systems and other alternative sources of energy being used in architectural applications.

Course Contents:
Module I: Introduction
Classification and characteristics of energy resources, Use and exploitation of resources, Resource use in architecture / exploitation of resources for development, Resource shortage and constraint, Concepts and need for conservation, Renewable, non-renewable resources and alternate sources of energy. Need and necessity of energy conservation.
Module II: Energy conserving architecture
Principles of energy conservation, Pattern of energy use in buildings, Technologies and methods of conservation, Economic, technological and environmental implications. Ambient energy and lifecycle requirement of energy in different types of buildings. Use and possibility of alternate sources of energy.
Module III: Conservation of other resources
Conserving building materials, water, land etc. n architecture, methods of conservation and their implication. Understanding the concept of zero energy buildings.
Module IV: Design of energy conserving architecture
Fundamentals of planning and design, Elements and principles of design, Study of design problems, Application of relevant principles for design solutions, Innovative and appropriate construction technologies. Use of landscaping elements in energy conservation.
Module V: Students shall workout a practical exercise of converting one of their designs into energy conserving building.

Examination Scheme:

Components	A	CE	CT 1	EE
Weightage (%)	05	25	20	50

Text & References:
Text:
- Alternative Natural Energy Sources in Building Design: Davies and Schubert.
- Design with nature: I. McHarg
- The Ecological Context: H. McHale.

References:
- Human Ecosystems: W. B. Jr. Clapham.
- Review our dying planet: S. Devi.
- Energy Conservation Standards: for building design, construction and operation, S. Fred Dubin.

BID 509 CLIMATE RESPONSIVE INTERIORS

Course Code: BID 509 **Credit Units:02** L-2/ST-0/P-0 **Teaching hours: 02**

Course Objective:

- To acquaint students to various concepts of climate analysis and its use in Interior.
- To familiarize students with human thermal comfort as an essential function of building. Students shall learn using the natural climatic elements to achieve their maximum utilization for the minimum dependence on the artificial means.

Course Contents:

Module I: Introduction to Climate

Importance of climate in Interiors, Factors affecting climate.

Elements of climate- Solar radiation, temperature, wind, humidity and precipitation and their measurement.

Module II: Tropical Climate

Climatic zones, Characteristics of tropical climate, macroclimate and microclimate.

Module III: Human thermal comfort

Study of body's heat production and heat loss, comfort zone, bio-climatic chart and effective temperature, Isopleths. Solar passive techniques: cooling and heating.

Module IV: Day light and shading devices

Natural light, glare, day light factor and day lighting in tropics.

Method of recording the position of sun in relation to earth, solar chart, shadow angle protractor and its application in design of shading devices.

Module V: Ventilation and air movement

Requirement, size and position of openings, air flow pattern inside and outside buildings.

Examination Scheme:

Components	**A**	**CE**	**CT**	**EE**
Weightage (%)	05	25	20	50

Text:

- Climate-responsive design by Remco Looman
- Manual of tropical housing and building, Koenisberger
- Solar power, Behling
- The climatic data handbook, Bhargava and Chand

References:

- YouTube videos on above topics
- Climate responsive Architecture, Arvind Krishan
- Architecture as response, Gree.

BCS 501 COMMUNICATION SKILLS - III

Course Code: BCS 501 Credit Units: 01 Teaching hours: 01

Course Objective:

- To equip the participant with linguistic skills required in the field of science and technology while guiding them to excel in their academic field.

Course Contents:

Module I

Reading Comprehension

Summarizing

Paraphrasing

Module II

Essay Writing

Dialogue Report

Module III

Writing Emails

Brochure

Leaflets

Module IV: Introduction to Phonetics

Vowels

Consonants

Accent and Rhythm

Accent Neutralization

Spoken English and Listening Practice

Examination Scheme:

Components	CT1	CT2	CAF	V	GD	GP	A
Weightage (%)	20	20	25	10	10	10	5

CAF – Communication Assessment File

GD – Group Discussion

GP – Group Presentation

Text & References:

Effective English for Engineering Students, B Cauveri, Macmillan India
Creative English for Communication, Krishnaswamy N, Macmillan

A Textbook of English Phonetics, Balasubramanian T, Macmillan

BSS 504 BEHAVIOURAL SCIENCE – V (Group Dynamics and Team Building)

Course Code: BSS 501 Credit Units: 01 Teaching hours: 01

Course Objective:

- To inculcate in the students an elementary level of understanding of group/team functions .
- To develop team spirit and to know the importance of working in teams

Course Contents:

Module I: Group formation	Definition and Characteristics Importance of groups Classification of groups Stages of group formation Benefits of group formation
Module II: Group Functions	External Conditions affecting group functioning: Authority, Structure, Org. Resources, Organizational policies etc. Internal conditions affecting group functioning: Roles, Norms, Conformity, Status, Cohesiveness, Size, Inter group conflict. Group Cohesiveness and Group Conflict Adjustment in Groups
Module III: Teams	Meaning and nature of teams External and internal factors effecting team Building Effective Teams Consensus Building Collaboration
Module IV: Leadership	Meaning, Nature and Functions Self leadership Leadership styles in organization Leadership in Teams
Module V: Power to empower: Individual and Teams	Meaning and Nature Types of power Relevance in organization and Society
Module VI: End-of-Semester Appraisal	Viva based on personal journal Assessment of Behavioural change as a result of training Exit Level Rating by Self and Observer

Examination Scheme:

Components	SAP	A	Mid Term Test (CT)	VIVA	Journal for Success (JOS)

Weightage (%)	20	05	20	30	25

Text & References:

Organizational Behaviour, Davis, K.

Hoover, Judhith D. Effective Small Group and Team Communication, 2002, Harcourt College Publishers Dick, Mc Cann & Margerison, Charles: Team Management, 1992 Edition, viva books

Bates, A. P. and Julian, J.: Sociology - Understanding Social Behaviour

Dressers, David and Cans, Donald: The Study of Human Interaction Lapiere, Richard. T – Social Change

Lindzey, G. and Borgatta, E: Sociometric Measurement in the Handbook of Social Psychology, Addison – Welsley, US.

Rose, G.: Oxford Textbook of Public Health, Vol.4, 1985.

LaFasto and Larson: When Teams Work Best, 2001, Response Books (Sage), New Delhi

J William Pfeiffer (ed.) Theories and Models in Applied Behavioural Science, Vol 2, Group (1996); Pfeiffer & Company

Smither Robert D.; The Psychology of Work and Human Performance, 1994, Harper Collins College Publishers

FOREIGN LANGUAGE 501

FLF 501 FRENCH - V

Course Code: FLF 501 Credit Units: 02 Teaching hours: 02

Course Objective:

To furnish some basic knowledge of French culture and civilization for understanding an authentic document and information relating to political and administrative life

Course Contents:

Module D: pp. 131 – 156 Unités 10,11

Contenu lexical : **Unité 10** : Prendre des décisions

1. Faire des comparaisons
2. décrire un lieu, le temps, les gens, l'ambiance
3. rédiger une carte postale

Unité 11 : faire face aux problèmes

1. Exposer un problème.
2. parler de la santé, de la maladie
3. interdire/demander/donner une autorisation
4. connaître la vie politique française

Contenu grammatical:

1. comparatif - comparer des qualités/ quantités/actions
2. supposition : Si + présent, futur
3. adverbe - caractériser une action
4. pronom "Y"

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

le livre à suivre : Campus: Tome 1

FLG 501 GERMAN - V

Course Code: FLG 501 Credit Units: 02 Teaching hours: 02

Course Objective:

- To enable the students to converse, read and write in the language with the help of the basic rules of grammar, which will later help them to strengthen their language.

- To give the students an insight into the culture, geography, political situation and economic opportunities available in Germany

- Introduction to Advanced Grammar and Business Language and Professional Jargon

Course Contents:

Module I: Genitive case

Genitive case – Explain the concept of possession in genitive

Mentioning the structure of weak nouns

Module II: Genitive prepositions

Discuss the genitive propositions and their usage: (während, wegen, statt, trotz)

Module III: Reflexive verbs

Verbs with accusative case

Verbs with dative case

Difference in usage in the two cases

Module IV: Verbs with fixed prepositions

Verbs with accusative case

Verbs with dative case

Difference in the usage of the two cases

Module V: Texts

A poem ‘Maxi’

A text Rocko

Module VI: Picture Description

Firstly recognize the persons or things in the picture and identify the situation depicted in the picture;

Secondly answer questions of general meaning in context to the picture and also talk about the personal experiences which come to your mind upon seeing the picture.

Examination Scheme:

Components	**CT1**	**CT2**	**C**	**I**	**V**	**A**
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

Wolfgang Hieber, Lernziel Deutsch

Hans-Heinrich Wangler, Sprachkurs Deutsch

Schulz Griesbach, Deutsche Sprachlehre für Ausländer P.L Aneja, Deutsch Interessant- 1, 2 & 3

Rosa-Maria Dallapiazza et al, Tangram Aktuell A1/1,2

Braun, Nieder, Schmöe, Deutsch als Fremdsprache 1A, Grundkurs

FLS 501SPANISH - V

Course Code: FLS 501 Credit Units: 02 Teaching hours: 02

Course Objective:

To enable students acquire working knowledge of the language; to give them vocabulary, grammar, voice modulations/intonations to handle everyday Spanish situations with ease.

Course Contents:

Module I

Revision of earlier semester modules

Module II

Future Tense

Module III

Presentations in English on

Spanish speaking countries'

Culture

Sports

Food

People

Politics

Society

Geography

Module IV

Situations:

En el hospital

En la comisaria

En la estacion de autobus/tren

En el banco/cambio

Module V

General revision of Spanish language learnt so far.

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

Español Sin Fronteras, Greenfield

FLJ 501 JAPANESE - V

Course Code: FLJ 501 Credit Units: 02 Teaching hours: 02

Course Objective:

To enable the students to converse, read and write language comfortably and be able to converse using different patterns and forms taught through out. Students are taught and trained enough to get placed themselves in Japanese companies.

Note: Teaching is done in roman as well as Japanese script.

Course Contents:

Module I

Dictionary form of the verbs, joining of verbs

Negative form of verbs

Potential form

Module II

Joining of many actions together

Usage of dictionary form of the verbs in sentences

Introducing colloquial language.

Module III

Direct form of the speech, quotations,

Expressing thoughts

Actions and reasoning

Module IV

Conclusion

Receiving and giving things, favour etc.

Different forms like 'tara' form.

Module V

Revision of the whole syllabus

Learning Outcome

- Students can speak and use different patterns, ways to describe a particular situation and can converse comfortably in mentioned situations through out.
- Students can appear in the interviews for placements in Japanese companies.

Methods of Private study /Self help

- Teaching will be supported by handouts, audio-aids, and self-do assignments and role plays.
- **Use of library, visiting and watching movies in Japan and culture center every Friday at 6pm.**

Examination Scheme:

Components	CT1	CT2	C	I	V	A

Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

Text:

Teach yourself Japanese

References:

Shin Nihongo no kiso 1

FLC 501 CHINESE – V

Course Code: FLC 501 Credit Units: 02 Teaching hours: 02

Course Objective:

What English words come from Chinese? Some of the more common English words with Chinese roots areginseng, silk, dim sum, fengshui, typhoon, yin and yang, T'al chi, kung-fu. The course aims at familiarizing the student with the basic aspects of speaking ability of Mandarin, the language of Mainland China. The course aims at training students in practical skills and nurturing them to interact with a Chinese person.

Course Contents:

Module I	Drills Dialogue practice Observe picture and answer the question. Pronunciation and intonation. Character writing and stroke order
Module II	Intonation Chinese foods and tastes – tofu, chowmian, noodle, Beijing duck, rice, sweet, sour….etc. Learning to say phrases like – Chinese food, Western food, delicious, hot and spicy, sour, salty, tasteless, tender, nutritious, god for health, fish, shrimps, vegetables, cholesterol is not high, pizza, milk, vitamins, to be able to cook, to be used to, cook well, once a week, once a month, once a year, twice a week…… Repetition of the grammar and verbs taught in the previous module and making dialogues usingit. Compliment of degree "de".
Module III	Grammar the complex sentence "suiran … danshi…." Comparison – It is colder today than it was yesterday…..etc. The Expression "chule….yiwai". (Besides) Names of different animals. Talking about Great Wall of China Short stories
Module IV	Use of "huozhe" and "haishi" Is he/she married? Going for a film with a friend. Having a meal at the restaurant and ordering a meal.
Module V	Shopping – Talking abut a thing you have bought, how much money you spent on it? How many kinds were there? What did you think of others? Talking about a day in your life using compliment of degree "de". When you get up? When do you go for class? Do you sleep early or late? How is Chinese? Do you enjoy your life in the hostel?

Making up a dialogue by asking question on the year, month, day and the days of the week and answer them.

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

"Elementary Chinese Reader " Part-II Lesson 39-46

BID 601 DESIGN - VI

Course Code: BID 601 **Credit Units: 12** L-0/ST-8/P-0 **Teaching hours: 08**

Course Objective:

- The objective of the course is to introduce the students to basics of Hospitality spaces and to integrate Building Services such as Lighting, Electrical, Water Supply, Acoustics etc in the designed interiors scheme. The course should involve different design ideas and schemes to represent the designing of Food joints, cafeterias, restaurants as these are the prime area of designing emerging in the modern world.

Course Contents:

Module I: Introduction

Understanding of Retail Space Design for different type of merchandise (Electronics, Garments, Cosmetics, Groceries, Jewelries , Shoes, Automobiles etc.) and Retail type – Departmental, Single Brand franchises. Market Study of furniture, interior materials and finishes and lighting fixtures.Project introduction for studio exercise

Module II: Case studies, Site Studies and Literature Studies

Case Studies – one Live and one through Literature; Literature Review – Design Standards and Codes, Comparative Analysis and Area statement

Module III: Concept Formulation

Development of concept to be presented with bubble diagrams, circulation diagrams and sketches for discussion.

Module IV: Design Development

Design to be developed through a series of appraisals and open discussions on alternative sketch options. Design proposal to be frozen and workability, efficiency of design to be worked out and finalized.

Module V: Presentation

Preparation of Presentation Drawings of the Final Design Proposal. Enhancement of presentation skills using multiple media. Creation of 3-D models based on the design. Preparation of perspective views (internal & external). Presentation of studies and design proposal through submission of sheet work – drawings and views as well as scaled models.

Suggested Design Exercise

The suggested design exercise Retail Space Design for different type of merchandise (Electronics, Garments, Cosmetics, Groceries, Jewelries , Shoes, Automobiles etc.) and Retail type – Departmental, Single Brand franchises. Emphasis shall be on the composition, aesthetics, function and innovation.

At least one major exercise and one minor design/time problems should be given. The final submission shall necessarily include a model.

An A4 Design Report - documenting the process & progress of work through clippings of sketches/ photographs of models highlighting design concept, the final proposal drawings as well as Material Board having list & sample of materials used for different surfaces along with specifications - shall be an essential part of submission.

Study tour conducted in previous semester shall be evaluated on the basis of report submission of study tour.

Examination Scheme:

Components	A	S1	S2	CT	Viva	EE
Weightage (%)	05	15	20	10	20	30

Text & References:

Text:

- Design Fundamental in Architecture, Walter Gropius
- Interior Best Collection, Commerce Asia II, Archiworld
- Interior Design- Ahmed Kasu
- Interior Design Illustrated - Francis D.K. Ching
- Time Saver standards for Interior Designing and Space Planning, Joseph Dechiara and Julius Panero

References:

- A.J. Metric Handbook, editors, Jan Bilwa and Leslie Fair weather
- Architectural Graphic standards editor, Boaz Joseph
- Neufert's Architect's data
- Time Saver standards for building types, Editor Joseph D.C. and John Callende

BID 602 DETAILING OF INTERIOR I

Course Code: BID 602 **Credit Units: 03** L-1/ST-1/P-1 **Teaching hours: 03**

Course Objective:

To learn the techniques of detailed drawing for interior design and to apply and provide various services in the building and learn the working drawing

Course Contents:

Module I: Interior Details

Working drawing - Introduction, concept of working drawings its needs and importance. Drawing and drafting of plan, development of elevation, details of all drawings, lettering, dimensioning symbols, working drawing of ground/first floor and terrace.

Module II: Schedule of Openings

Doors, types of doors, battened and ledged door, framed and panelled door, flush doors, steel doors, sliding doors, PVC doors, fiber reinforced plastics doors, revolving doors, swing door and collapsible steel door - applications, advantages and disadvantages, section and elevation.

Windows - Double hung window, louvered window, casement window, transom window, slider window, stationary window, pivoted windows, ventilators and skylights - applications, advantages and disadvantages, section and elevation.

Module III: Detailing of flooring and Plumbing

Flooring- Start point, Levels, lines, patterns depending of the space utility and building types. Necessity of Groove, Continuity of groove, Discontinuous grooves, their necessity and location, Grove in brick pattern. Size of the groove. Filled up grooves and their importance.

Module IV: Electrical drawing

Introduction to electrical drawings - Symbols of fan, switch, sockets, bulb, two way switch, geyser, main board, meter, MCB. Preparation of electrical drawings for 1BHK house.

Module V: Detailing of Venetians/ curtains

construction details at curtain installation, Selection of fabric for curtains depending of the use. Frills and their creation. Backing of curtain. Double and triple curtains. Types of Pelmets, their fixing to wall, with cover or without. Painting to order of the venetians/ curtains.

Examination Scheme:

Components	A	C	P	H	S	CT	EE
Weightage (%)	05	05	05	05	10	20	50

Text & References:

- Building construction W.B.McKay
- Building construction R Berry
- Building construction Chudley
- Building construction Francis D.K. Ching
- Drawing for Interior Design Laurence King & Drew Plunkett
- Electronic Workflow for interior Designers and Architects Andrew Brody
- Construction Drawings and Details for Interiors", Willey & Sons, Otie W & Rosemary Kilmer

BID 603 PROFESSIONAL PRACTICE

Course Code: BID 603 **Credit Units: 02** L-2/ST-0/P-0 **Teaching hours: 02**

Course Objective:

- To acquaint the students about different Professional and Legal bodies related to the Interior and Architecture Design Profession, their role and importance. To make the students understand the professional intricacies, professional responsibilities and conduct, legal obligations and implications so that at the end of their studies the Students is familiar of their responsibilities as a professional.

Course Content:

Module I: **Professional Bodies-**

Familiarization with different Professional Bodies directly and in-directly related to architecture profession such as The Indian Institute of Interior Designers (IIID), The Indian Institute of Architects (IIA), The Council of Architecture (COA),etc.

Module II: Discussions in Detail about IIID

Its formative History, rules and regulations, membership procedure and categories, IIID Elections, Functions and formation of the IIID Council, importance, professional and trade practices and ethics.

Module III: Code of Professional Conduct and scale of professional charges

As laid down by the COA and modified from time to time. Procedures to be followed by an architect for the safe running of the Practice. Awareness about Interior Design Competitions and the Procedure lay down by the IIID. Do's and Don'ts for Interior Competitions.

Module IV: Minimum Standards of Interior Education

The implication of the regulations on the profession. Procedure followed by the COA for maintenance of the set standards.

Module V: Tendering for Interior Design of Buildings

Types, details of a tender document, procedure to be followed for calling tenders, tender analysis, election of the contractor and award of the work. Important terms such as EMD, Security Deposit, Defect Liability, Insurance etc.

Module VI: Contracts

Types of the Contracts, legality of the Contract, important clauses of the Contract, role of the owner, architect and the contractor in fulfillment of the contract.

Module VII: Setting up of Interiors Office and start of Practice

Size of the office, location, infrastructure requirement, staff requirement etc. Procurement of the works. Important activities in a professional office.

Examination Scheme:

Components	A	C	P	H	S	CT	EE
Weightage (%)	05	05	05	05	10	20	50

Text & References:

Text:

- COA document of Architect's Act 1972
- COA Documents/Handbook

References:

- Professional Practice in India – S.K. Sahu
- Code of Architectural Practice – B.M. Basu

BID 604 DISSERTATION

Course Code: BID 604 **Credit Units: 02** L-0/ST-0/P-4 **Teaching Hours : 04**

Course Objective:

- The objective is to introduce students to the research based project and its analysis. A research study will be undertaken by each student of different topics of immediate relevance to the professional knowledge. The study would include a through literature survey as well as data collection from the field service or by contact with practicing Architects, Interior designers and public at large as clients. Each student will prepare an analytical research project based on the above information and submit in the form of a well-complied document duly illustrated with relevant diagrams, sketches and informatics presentation.

Note: Dissertation can be treated as a preamble as the base of the thesis done on individual basis so the students could learn to work on research project

Course Contents:

Module I: Introduction

Introduction to the dissertation project and get the project/ topic approved by the school and respective faculty giving suitable justifications and reasons for the research. The proposal of research should include the aims, objectives, methodology, limitations, bibliography, site etc. at the time of approval of topic.

Module II: Collection and Analysis of Data (Case Study)

Site and surroundings survey- location, local climatic conditions, topography, existing landscape, socio- cultural impact on design. Study the site potentials in term of energy conservation and natural conditions.

Module III: Analysis of Data

Research analysis and data collection, Justification to topic selected. Detailed study of functions, Study of relationship of built and open spaces, interlinking of various activities.

Module IV: Methodology

Methodology of research, Data analysis, Data compilation.

Module V: Presentation

Preparation of analysis report with suitable drawings for discussion

Selection of Dissertation topic	Justification to topic selected	Site analysis and justification
Methodology of research	Research analysis and Data collection	Case Studies and Market Study of

		Materials & Finishes
User requirements and standards	Analysis	Inferences
Conclusions	Recommendations/ Suggestions	Bibliography

Submission: The submission will be in the hard Bound A-4 Size Report. The research should include the followings:

Examination Scheme:

Components	**A**	**C**	**P1**	**Viva**
Weightage (%)	05	15	30	50

Text & References:

Text:

- Creative Interiors (Design of Enclosed Space), Shashi Jain
- Commercial Interior Perspectives, Graphic – Sha (Editor)
- Design with Wood , Carol Soucek King
- Drywall (Pro Tips for Hanging & Finishing), John D. Wagner
- Interior design illustrated , Francis D.K. Ching
- Graphic Interiors (Space Designed by Graphic Artists), Corina Dean
- Home Plumbing (The David & Charles Manual of) , Ernest Hall
- House Book (The Complete Guide to Home Design), Terence Conran

References:

- Architectural Graphic standards, Boaz Joseph
- The Curtain Book, Mitchll Beazlty
- Interior Design Visual, Maureen Mitton 2nd Edition

BID 605 BUILDING SERVICES-V (HVAC Systems)

Course Code: BID 605 Credit Units: 02 L-2/ST-0/P-0 **Teaching hours: 02**

Course Objectives:

• To Integrate of HVAC system with building design &its application. To expose the students to the areas of air-conditioning, heating and ventilation in buildings of various types so that there integration could be done in most appropriate manner right at the design stage.

Course Contents:

Module I: Ventilation- 1 weeks

Natural and artificial ventilation systems; estimation of ventilation requirements; mechanical ventilation in buildings; scheme and equipment required for ventilation spaces like industrial kitchens, underground garages, and multistoried buildings and parking spaces.

Module II: Air conditioning- 2 weeks

Principles of Air conditioning; concept of thermal comfort; physiological principles; reaction of human body to the thermal environment; principles of psychometric; psychometric chart; selection of indoor and outdoor design conditions; refrigeration and air cycle; cooling and heating load calculations; various systems of air conditioning; duct work and air conditioning layout, fittings and fixtures; evaporative cooling, fair conditioning and its suitability. Types of systems- cooling tower, geothermal heating and cooling

Module III: Equipment's- 1 weeks

Scheme and equipment required for HVAC; their placement and physical space requirements.

Module IV: Load Calculation- 1 weeks

Cooling and heating load calculations; Introduction to British thermal unit and other factors; various systems of air conditioning; duct work and air conditioning layout, fittings and fixtures; evaporative cooling.

Module V: HVAC Design- 2 weeks

Design and drawing of HVAC system for a building designed in previous semester.

Any important note or instruction for course coordinator

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text Books /Reference Books/Journals/Other Study Material:

1. Manohar Prasad, 'Refrigeration & Air conditioning'
2. C.P. Arora, 'Refrigeration & Air conditioning'
3. Modern Air-Conditioning, Heating and Ventilation: Carrer and G. Pitman.
4. Air Conditioning and Ventilation, Servems and Fellows, John Wiley

5. Ernest Tricomi- ABC of Air conditioning
6. Basics of Air conditioning by ISHRAE
7. All about Insulation by ISHRAE
8. ISHRAE HVAC Handbook 1997 Part - 1 -Air Conditioning
9. ISHRAE HVAC Handbook 2004 Industrial Ventilation Applications
10. ISHRAE The Hand Book on Green Practices

Domain Elective-IV

BID 607 Intelligent Buildings

Course Code: BID 607 **Credit Units: 02** L-2/ST-0/P-0 **Teaching hours: 02**

Course Objectives:

- To introduce the concept of intelligent buildings and to acquaint the student with the factors to be taken into consideration to build an intelligent building and basic concept of Artificial Intelligent and how it is helpful for building construction technologies.

Course Contents:

Module I: Introduction to intelligent buildings - 2 weeks

Definition of IB (Intelligent Building) according global and Indian context, Concepts, purpose and scope of intelligent building.

Module II: Intelligent Systems in Building - 3 weeks

Intelligent HVAC, Intelligent lighting, intelligent security, Intelligent firefighting, Intelligent openings, Intelligence with respect to telecommunications and network connectivity like WIFI etc.

Module III: Building Automation System - 3 weeks

Application, Current trend and innovation, Effect of building automation on functional efficiency, Components of Building Automation, Automation system in Building Services and their Integrated approach in design, maintenance and management system, Concept of artificial intelligence, Application of expert system in architecture.

Module IV: Expert System - 3 weeks

Introduction to expert system, objectives, features and components of expert system, Applications of Expert Systems, benefits and limitations of Expert Systems

Module V: Artificial Intelligence - 3 weeks

Introduction to artificial intelligent, intelligent behavior, Development of Artificial Intelligence, Concepts of Artificial Intelligence, Applications of Artificial Intelligence.

Examination Scheme:

Components	**A**	**CE**	**CT 1**	**EE**
Weightage (%)	05	25	20	50

Text & References:

BID 608 VAASTU IN ARCHITECTURE

Course Code: BID 608 **Credit Units: 02** L-2/ST-0/P-0 **Teaching hours: 02**

Course Objectives:

- To educate the students on Vastu Shastra so that our own built environment should be in harmony with the energy of the inmates living in it.
- To expose the students to the various theoretical and practical aspects of Vastu Shastra.
- To familiarize with the ancient mode of designing a building in amalgamation with the latest technologies available.

Course Contents:

Module I: Introduction to Vastu

Introduction to Vastu, History of Vastu, Vedas and other ancient books, Growth of Vastu, Vastu and today, Scientific definition of Vastu, Solar Passage & Buildings with research referencing, Solar Energy, Humans & Buildings, Cosmic Energy & Flow:

Module II : Vedic Vastu

Concept of Vedic Vastu,Vastu Purush, Mandalas, Five Elements Theory, Planets & Directions.

Module III : Planning As per Vastu

Direction and Corners, Eight directions, Importance of directions, Slope & Loading Pattern, Open space & balconies, Shapes, Vedic opinion on entries, Alternative opinion on entries, Main Door & Main Gate. Planning for Bedroom, Kitchen, Puja room, Bathroom, Children's room, Drawing Room, Living Room, Office Room.

Module IV : Land & Location as per Vastu

Angles in a Plot & Building, Veedhi Shoola, Angles &Extentions, Shermukhi & Gaumkhi plot, Good & Bad Location. Selection of land & soil test, Examination of the land as per Mayamata & Brahit Samhita, Types of Land as per Vedic books, auspicious land & Inauspicious land, Obstructions.

Scientific correlation of Vaastu

Examination Scheme:

Components	**A**	**CE**	**CT 1**	**EE**
Weightage (%)	05	25	20	50

Text & References:

Text:

- B.B. Puri, Applied Vastu Shastra in Modern Architecture
- Michael Borden, Vastu Architecture: Design Theory and Application for Everyday Life
- Kathleen Cox, Vastu Living: Creating a Home for the Soul
- Talavane Krishna, TheVaastu Workbook: Using the Subtle Energies of the Indian Art of Placement
- Sherri Silverman,Vastu: Transcendental Home Design in Harmony with Nature
- Rohit Arya, Vaastu: The Indian Art of Placement

References:

- Maharishi Vastu, Vastu City Planning: Sustainable Cities in Harmony with Natural Law
- Kathleen Cox, the Power of Vastu Living: Welcoming Your Soul into Your Home and Workplace
- Juliet Pegrum, TheVastuVidya Handbook: The Indian Feng Shui
- Kathleen Cox, Space Matters: Use the Wisdom of Vastu to Create a Healthy Home. 11 Top Designers Show You How
- Satish Grover, Traditional Indian Architecture
- Bubbar,D K, The spirit of Indian architecture: Vedantic Wisdoms of Architecture for Building Harmnious Space and Life

BID 609 PROFESSIONAL PRESENTATION TECHNIQUES

Course Code: BID 609 **Credit Units: 02** L-2/ST-0/P-0 **Teaching hours: 02**

Course Objective:

- To introduce about the attributes of an Interior Designer so that same can be groomed to look more Professional.
- To orient students towards developing verbal & non-verbal professional communication skills for an effective communication of the ideas, as well as to profess the values and ethics of the design profession especially with regards to interaction with people.
- To help students in developing design portfolio of their own works to kick start a professional carrier.

Course Contents:

Module I: Professional Attributes of an Interior Designer - 1 week

A brief introduction to Professional Attributes of an Interior Designer viz. updated domain knowledge, design portfolio, communication skills, presentation skills, design process, design perception, change-adaptive and professionalism.

Module II: Introduction to Interior Design Presentation - 1 week

Definition of an Interior Design Presentation; Stakeholders in an Interior Design Project; Process of interior design development and need of communication; Technical meetings; Professional presentation; Various modes of presentation.

Module III: Professional Communication I - 3 weeks

Dimensions of communication (Verbal & non-verbal, Formal and Informal, upward, downward etc. with clients, site worker/labours, co-worker etc.; Types of professional communication, Letters, E-mail, Short messages, reports Planning, composing, and writing, Guide to effective writing.

Module IV: Professional Communication II - 3 weeks

Importance of conversation, definition, process and feedback in communication, cultural influences as barriers to effective communication, features of effective communication. Listening and responding, Modes of one to one communication i.e. personal meetings, video conferencing, etc.; Ethics related to various forms of communications.

Planning and conducting conversations, interviews, preparation and rehearsal of oral statements for presentations, body language, dressing sense, effective listening, and telephonic communication.

Module V: Introduction to Portfolio Design - 4 weeks

Multiple forms of representation, verbal and non-verbal (written & visual), students will explore methods that facilitate describing and representing their design work. Understanding relationship between form and content, different filters through which their work can be read. Recordings of materials, assembly, customization, reproduction techniques; graphic design and composition; The page layout – organization and sequencing of project documentation. The traditional hard copy portfolio and the digital portfolio.

Examination Scheme:

Components	**A**	**CE**	**CT**	**EE**
Weightage (%)	**05**	**25**	**20**	**50**

Suggested Texts & References:

- Raman, M. & Sharma, S., Technical Communication : Principles and Practice, 2nd Ed.
  Market, Mike, 2012. Technical Communication
  Rizvi, M. Ashraf, Effective Technical Communication,
  Anderson, Paul V., Technical Communication: A Reader- Centred Approach, 6 Ed.
- Key Qualities of an Interior Designer (https://smallbusiness.chron.com/key-qualities-interior-designer-17668.html)
- 10 qualities of a successful interior designer (https://bsbgroup.com/blog/10-qualities-successful-interior-designer)
- How to Look Professional as an Interior Designer (https://www.youtube.com/watch?v=N6El_u20YX4)
- Interior Design : How to Present Your Ideas to the Client (https://www.youtube.com/watch?v=LmE_X7c8-oc)
- Effective Presentation Techniques: https://www.presentationmagazine.com/effective-presentation-techniques-the-top-10-149.htm and https://www.dandipatch.com/blogs/news/10-effective-presentation-techniques-to-help-you-master-your-presentation

BCS 601COMMUNICATION SKILLS - IV

Course Code: BCS 601 Credit Units: 01 Teaching hours: 01

Course Objective:

To enhance the skills needed to work in an English-speaking global business environment.

Course Contents:

Module I: Business/Technical Language Development

Advanced Grammar: Syntax, Tenses, Voices

Advanced Vocabulary skills: Jargons, Terminology, Colloquialism

Individualised pronunciation practice

Module II: Social Communication

Building relationships through Communication

Communication, Culture and Context

Entertainment and Communication

Informal business/ Technical Communication

Module III: Business Communication

Reading Business/ Technical press

Listening to Business/ Technical reports (TV, radio)

Researching for Business /Technology

Module IV: Presentations

Planning and getting started

Design and layoutof presentation

Information Packaging

Making the Presentation

Examination Scheme:

Components	**A**	**CE**	**CT**	**EE**
Weightage (%)	05	25	20	50

CAF – Communication Assessment File

GD – Group Discussion

GP – Group Presentation

Text & References:

Business Vocabulary in Use: Advanced Mascull, Cambridge Business Communication, Raman – Prakash, Oxford

Business Communications, Rodgers, Cambridge Working in English, Jones, Cambridge

New International Business English, Jones/Alexander, Cambridge

BSS 604 BEHAVIOURAL SCIENCE – VI

(STRESS AND COPING STRATEGIES)

Course Code: BSS 601 Credit Units: 01 Teaching hours: 01

Course Objective:

- To develop an understanding the concept of stress its causes, symptoms and consequences.
- To develop an understanding the consequences of the stress on one's wellness, health, and work performance.

Course Contents:

Module I: Stress

Meaning & Nature

Characteristics

Types of stress

Module II: Stages and Models of Stress

Stages of stress

The physiology of stress

Stimulus-oriented approach.

Response-oriented approach.

The transactional and interactional model.

Pressure – environment fit model of stress.

Module III: Causes and symptoms of stress

Personal

Organizational

Environmental

Module IV: Consequences of stress

Effect on behavior and personality

Effect of stress on performance

Individual and Organizational consequences with special focus on health

Module V: Strategies for stress management

Importance of stress management

Healthy and Unhealthy strategies

Peer group and social support

Happiness and well-being

Module VI: End-of-Semester Appraisal

Viva based on personal journal

Assessment of Behavioural change as a result of training

Exit Level Rating by Self and Observer

Examination Scheme:

Components	SAP	A	Mid Term Test (CT)	VIVA	Journal for Success (JOS)
Weightage (%)	20	05	20	30	25

Text & References:

Blonna, Richard; Coping with Stress in a Changing World: Second edition

Pestonjee, D.M, Pareek, Udai, Agarwal Rita; Studies in Stress And its Management Pestonjee, D.M.; Stress and Coping: The Indian Experience

Clegg, Brian; Instant Stress Management – Bring calm to your life now

FOREIGN LANGUAGE 601

FLF 601 FRENCH - VI

Course Code: FLF 601 Credit Units: 02 Teaching hours: 02

Course Objective:

To strengthen the language of the students both in oral and written so that they can:

i) express their sentiments, emotions and opinions, reacting to information, situations;

ii) narrate incidents, events ;

iii) perform certain simple communicative tasks.

Course Contents:

Module D: pp. 157 – 168 – Unité 12

Unité 12 : s'évader

1. présenter, caractériser, définir
2. parler de livres, de lectures
3. préparer et organiser un voyage
4. exprimer des sentiments et des opinions
5. téléphoner
6. faire une réservation

Contenu grammatical:

1. proposition relative avec pronom relatif "qui", "que", "où" - pour caractériser

2. faire + verbe

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

le livre à suivre: Campus: Tome 1

FLG601 GERMAN – VI

Course Code: FLG 601 Credit Units: 02 Teaching hours: 02

Course Objective:

To enable the students to converse, read and write in the language with the help of the basic rules of grammar, which will later help them to strengthen their language.

To give the students an insight into the culture, geography, political situation and economic opportunities available in Germany

Introduction to Advanced Grammar and Business Language and Professional Jargon

Course Contents:

Module I: Adjective endings

Adjective endings in all the four cases discussed so far

Definite and indefinite articles

Cases without article

Module II: Comparative adverbs

Comparative adverbs as and like

Module III: Compound words

To learn the structure of compound words and the correct article which they take

Exploring the possibility of compound words in German

Module IV: Infinitive sentence

Special usage of 'to' sentences called zu+ infinitive sentences

Module V: Texts

A Dialogue: 'Ein schwieriger Gast'

A text: 'Abgeschlossene Vergangenheit'

Module VI: Comprehension texts

Reading and comprehending various texts to consolidate the usage of the constructions learnt so far in this semester.

Module VII: Picture Description

Firstly recognize the persons or things in the picture and identify the situation depicted in the picture;

Secondly answer questions of general meaning in context to the picture and also talk about the personal experiences which come to your mind upon seeing the picture.

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

Wolfgang Hieber, Lernziel Deutsch

Hans-Heinrich Wangler, Sprachkurs Deutsch

Schulz Griesbach, Deutsche Sprachlehre für Ausländer P.L Aneja, Deutsch Interessant- 1, 2 & 3

Rosa-Maria Dallapiazza et al, Tangram Aktuell A1/1,2

Braun, Nieder, Schmöe, Deutsch als Fremdsprache 1A, Grundkurs

FLS 601 SPANISH – VI

Course Code: FLS 601 Credit Units: 02 Teaching hours: 02

Course Objective:

To enable students acquire working knowledge of the language; to give them vocabulary, grammar, voice modulations/intonations to handle everyday Spanish situations in Present as well as in Present Perfect Tense with ease.

Course Contents:

Module I

Revision of the earlier modules

Module II

Present Perfect Tense

Module III

Commands of irregular verbs

Module IV

Expressions with **Tener que** and **Hay que**

Module V

En la embajada

Emergency situations like fire, illness, accident, theft

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

Español, En Directo I A
Español Sin Fronteras

FLJ 601 JAPANESE - VI

Course Code: FLJ 601 Credit Units: 02 Teaching hours: 02

Course Objective:

To enable the students to converse in the language with the help of verbs and the usage of different sentence patterns, which help them to strengthen the language.

Students are taught and trained enough to get placed in Japanese companies.

Note: The teaching is done in roman as well as Japanese script. 10 more kanjis are introduced in this semester.

Course Contents:

Module I: Polite form of verbs

Expressing feelings with the polite forms of verb.

Module II: Potential form

Ability of doing or not doing something

Module III: Conjunctions

Joining two sentences with the help of *shi* and *mo*

Module IV: Intransitive Verbs

Sentence patterns of indirect speech

Module V: Feelings and expressions

Regret, existence etc.

Learning Outcome

- Students can speak the language with the use of different forms of verb.

Methods of Private study/ Self help

- Hand-outs, audio -aids, assignments and role-plays will support classroom teaching.
- Students are encouraged to watch Japanese movies at Japan Cultural and information center.

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

Shin Nihon-go no Kiso Lesson No. 26 to 30.

All vocabulary and topics taught are from the above-mentioned book.

FLC 601 CHINESE – VI

Course Code: FLC 601 Credit Units: 02 Teaching hours: 02

Course Objective:

Chinese emperor Qin Shi Huang – Ti who built the great wall of China also built a network of 270 palaces, linked by tunnels, and was so afraid of assassination that he slept in a different palace each night. The course aims at familiarizing the student with the basic aspects of speaking ability of Mandarin, the language of Mainland China. The course aims at training students in practical skills and nurturing them to interact with a Chinese person.

Course Contents:

Module I

Drills

Dialogue practice

Observe picture and answer the question.

Pronunciation and intonation.

Character writing and stroke order.

Module II

Going out to see a science exhibition

Going to the theatre.

Train or Plane is behind schedule.

Indian Economy-Chinese Economy

Talking about different Seasons of the Year and Weather conditions. Learning to say phrases like-spring, summer, fall, winter, fairly hot, very cold, very humid, very stuffy, neither hot nor cold, most comfortable, pleasant …. etc.

Module III

Temperature – how to say – What is the temperature in May here?

How is the weather in summer in your area?
Around 30 degrees

Heating, air-conditioning

Is winter is Shanghai very cold?

Talking about birthdays and where you were born?

The verb "shuo" (speak) saying useful phrases like speak very well, do not speak very well, if speak slowly then understand if speak fast then don't understand, difficult to speak, difficult to write, speak too fast, speak too slow, listen and can understand, listen and cannot understand … etc.

Tell the following in Chinese – My name is …. I was born in … (year). My birthday is …… Today is … (date and day of the week). I go to work (school) everyday. I usually leave home at .(O'clock). In the evening, I usually ……. (do what)? At week end, I ……. On Sundays I usually …… It is today….. It will soon be my younger sisters birthday. She was born in ….. (year). She lives in ……. (where). She is working (or studying)…… where… She lives in …….. (where.)

Examination Scheme:

Components	CT1	CT2	C	I	V	A
Weightage (%)	20	20	20	20	15	5

C – Project + Presentation

I – Interaction/Conversation Practice

Text & References:

Elementary Chinese Reader Part-2 ,3 ; Lesson 47-54

BID 701 PROFESSIONAL TRAINING

Course Code: BID 701 **Credit Units: 20** NTCC **Teaching hours : 0**

Course Objective:

- To expose the students to the practical environment and works by working under an Architect /Interior Designer.
- To gain a practical knowledge and involved in all aspects of office works.

Course Contents:

Students are required to be involved in all works in an Architect's/Interior Designer's office including site visits also. The students should work on projects assign to them in terms of sketch deign, presentation of drawings, Detailed working drawings, model making, estimation, specification, tendering of small projects.

Examination Scheme:

Components	**S**	**Viva**
Weightage (%)	50	50

Students are required to submit all the drawings, models, reports etc. on which they have worked and supervised by the Architect under whom they completed the training. Assessment of Professional training will be done in 8th Semester.

INTERIOR THESIS PROJECT

Course Code: BID 801 **Credit Units: 15** L-0/ST-10/P-**0** **Teaching Hours: 10**

Course Objective:

- To provide the students an opportunity to research and develop a design scheme for a project of their choice and approved by the school maintaining professional working standards and attain a professional level approach with extensive details. To attain independent professional approach analysis based design projects achieving high level of workability, efficiency and aesthetics in 3-D form with all the services properly worked out.

Course Contents:

Module I: Introduction

Introduction to the thesis design and get the project approved with the finalization of thesis guide/s. (Consent to be taken from internal and external guide both). The project research should include the followings:

Aim and Objective of study and Justification to topic selected	Case studies selected	Suggestions
Methodology of research	Analysis of study	Concept and planning of your own design
Limitation and scope of research	Conclusions of study	Bibliography

Module II: Research

Extensive research specific to project through the primary and secondary data collection. Conduct the case studies with extensive study and analyze to get a clear picture of the existing example. Detailed site study is to be conducted simultaneously.

Module III: Concept Development and Designing

Development of concept at various stages and levels with conceptual model and 3-D sketches to be studied. Design to be developed through a series of appraisals and open discussions. Planning at site as well as building level to be frozen and workability, efficiency of design to be worked out and finalized.

Module IV: Specifications and Estimation

The project estimation with all the necessary specifications to be detailed and studied to get a clear picture of the cost of the project. The details should include all the interior and exterior details.

Module V: Presentation

Complete project development and analysis report to be compiled containing all the details of the project. Presentation in terms of 3-D drawings and detailed Model to be submitted. Mode of presentation may be mutually devised by co-coordinators and student that may be project specific.

Examination Scheme:

Components	**A**	**P**	**S**	**External Jury/Viva**
Weightage (%)	05	25	20	50

The thesis project to be evaluated through open jury comprise of thesis guide and external expert members.

Text & References:

Text:

- Design Fundamental in Architecture, Walter Gropius

- Interior Best Collection, Commerce Asia II, Archiworld
- Interior Design- Ahmed Kasu
- Interior Design Illustrated - Francis D.K. Ching
- Time Saver standards for Interior Designing and Space Planning , Joseph Dechiara and Julius Panero

References:

- A.J. Metric Handbook, editors, Jan Bilwa and Leslie Fair weather
- Neufert's Architect's data
- Time Saver standards for building types, editor Joseph D.C. and John Callender.

BID 802 DETAILING OF INTERIOR -II

Course Code: BID 802 Credit Units: 03 L-1/ST-1/P-1 **Teaching hours: 03**

Course Objective:

- To familiarize student with modern high-tech materials/products that are being/can be used for interiorsto create various moods and impacts on the users.
- Learning application details of high-tech material/product.

Course Contents:

Module I: Surfaces& Partitions- Construction Details- 2 weeks

Application of LED and other similar modern products for interiors such as walls, floors, murals etc. Virtual walls and their applicability.
Detailing of lattice work partitions in different types of material like wood, Stone, etc. Understanding techniques like laser cutting, Water jet cutting, and other methods used for different types of surface development.

Module II: Chandeliers and decorative Lighting- 3 weeks

Creating awareness about decorative lights and chandeliers including precautions in fixing. Lighting for special occasions/places such as bars and discotheques, hospitality spaces, auditoriums, show rooms etc. Creating awareness about different type of lighting fixtures and their utility. Adding colors through light in interiors. Emphasis shall be in learning details of fixing the equipment along with necessary precautions.

Module III: Detailing of Spaces and Furniture- 3 weeks

Working drawing of Work Stations in offices, living room furniture, bedroom furniture, Dining Room, tables and storage units like Wardrobes, Crockery Unit, TV Unit, Chest of drawers, Bar Counter and Storage Unit detailed drawings . Drawing of one space and detail of one furniture item in that space shall be done.

Module IV: Toilet Details- Construction Details- 3 weeks

Working drawing for toilets with type of Flooring and Flooring pattern, Wall Tiling and Pattern, Sanitary ware fixing precautions, detailed layout with complete fixtures for e.g. Walk in Showers, Jacuzzi, Bath Tubs, different types of commode and washbasins, etc . Precautions for Waterproofing of a Toilet. Plumbing and Electrical diagrams with dimension and fixture name. Complete working drawing showing details of all the exposed surfaces shall be made of an existing toilet.

Module V: Kitchen Details- Residential & Hospitality- 3 weeks

Working drawing of an existing Kitchen with detailing of Shelves & Cupboards along with hardware fixtures such as Handles and Hinges. Modular Kitchen Details using accessories provided by companies like Godrej Interiors, IFB, Hacker, KAFF, etc. Estimation and Specification of materials. Plumbing and Electrical layout diagrams.

Examination Scheme:

Components	**A**	**CE**	**CT**	**EE**
Weightage (%)	05	25	20	50

Text & References:

Building construction W.B.McKay
Building construction R Berry
Building construction Chudley
Building construction Francis D.K. Ching
Building construction Dr. B.C.Punmia.

Domain Elective -V
BAR 803 LIGHTING IN INTERIORS

Course Code: BID 803 Credit Units: 02 L-2/ST-0/P-0 **Teaching hours: 02**

Course Objectives:

- The primary focus of this course is the study of natural and Artificial lighting in an architectural context. The course promotes the integration of occupant comfort, energy efficiency and daylight availability throughout the design process and places an emphasis upon the role light can play in shaping architecture.

Course Contents:

Module I: Introduction to Daylighting- 3 weeks

Introduction: Physics of light, Photometry, Transmission of light, recommended illuminances, Glare, Daylight illuminance, Luminance distribution, Design methods, Total flux method, Daylight factor method, BIS method, Pepper–pot diagram, Models and computer tools. Planning for daylight, day light utilization factor., Indoor and outdoor daylighting light.

Lab: Introduction to Lux meter. Simple experiments to measure Lux levels under different sky conditions, Class room lux measurements, etc.

Module II: Introduction to Artificial Lighting- 2 weeks

Study of interior lighting, different types of lighting their effects types of lighting Fixtures. Controls system , SOLAR control with artificial lighting, Artificial sky, Computer modelling.

Module III: Elements of Interior Architecture – lighting accessories- 2 weeks

Study of interior lighting, different types of lighting their effects types of lighting Fixtures.

Module IV: Philosophy of Lighting in Architecture - 3 weeks

The physiology of vision: The eye and sight (visual perception), Temporal sensitivity of vision, The spatial perception of the human eye, Visual comfort, Biological effects of lighting, The perception of light in architecture. Exhibiting philosophy, Lighting Legislation

Module V: Application of lighting and illumination in Architecture with Case Studies- 4 weeks

Designing using light as an architectural element, Necessity of lighting in designing spaces, Concept of Architectural Lighting, Phases of lighting design- Pre and post Analysis, Architectural lighting design focuses on fundamental aspects of the illumination of buildings- In aesthetic appeal, The functional aspects, Energy efficiency and wastage of light, Emphasis on Architectural features, Layout and Pattern, innovative daylighting systems, the future of daylighting and artificial lighting. Case Studies- Residential, Education, Ecclesiastical, Leisure, Transport, Display, Industrial.

Any important note or instruction for course coordinator

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text Books /Reference Books/Journals/Other Study Material:

Text:

- Architectural Lighting by M. David Egan, Victor W. Olgyay
- Gordon, Gary; Interior Lighting for Designers; Wiley Publishing, 2003
- Flynn, John; Seegil, Arthur; Steffy, Gary; Architectural Interior Systems: Lighitng/Acoustic/Air Conditioning; Van Nostrand Reinhold,
- Karlen, Mark; Benya, James; Lighting Design Basics; Wiley Publishing, 2004
- Russell, Sage; The Architecture of Light; ConceptNine, La Jolla, 2008.
- Schiler, Marc; Simplified Design of Building Lighting, Wiley, 1998, Steffey, Gary; Architectural Lighting Design, Wiley, 2008
- Lam, W. M. C. (1986). Sun-lighting as Form-giver for Architecture. New York : Van Nostrand Reinhold

- **<u>Online Resources</u>**

- https://www.academia.edu/35571106/_Architecture_Ebook_Daylighting_-_Natural_Light_in_Architecture?auto=download

- https://books.google.co.in/books/about/Lighting_Historic_Buildings.html?id=Jk8ckqj6b7sC&redir_esc=y

BID 804 MODULAR CONSTRUCTION TECHNOLOGY

Course Code: BID 804 Credit Units: 02 L-2/ST-0/P-0 **Teaching hours: 02**

Course Objectives:

- The course of Modular Construction is aimed at focusing on the study of use of pre-fabrication systems, systems developed by CBRI and other agencies, basic modular planning and the proportioning systems and using the skills in designing of buildings. In today's context when various components of building construction happens off site, it is important to design as per the units/modules, repetition of which gives a modularly coordinated design and helps in easy and fast construction. Thus, the student will be able to demonstrate knowledge of building construction and management with application of Modular coordination and pre-fabrication concepts in their design.

Course Contents:

Module I: Module Orientation to Modular Construction - 1 weeks

Defining the concept of Modular Construction

Introduction to system building, mechanization of production of different parts and components of building types of building sizes.

Review of market to know availability of modular materials

Module II: Advantages & disadvantages of Modular coordination - 2 weeks

Classification of prefabrication systems developed CBRI, skeletal system, Brick panel system, non-structural elements, devotions in prefabrication.

Manufacturing of modules and their transport to the site.

Prefabrication; advantages, disadvantages and relevance in Indian context.

Shuttering and construction system for Use of RMC modular spaces and planning coordination requirements. of fixtures and components.

Module III: Modular planning of an interior space - 2 weeks

Introduction to modular practice, basic modular planning and component Module, modular number pattern introduction. System of proportion-introduction of various systems and comprehensive industrialized building-introduction and application.

Development of planning Module and structural Modules for various types of buildings in India.

Module IV: Review of works of masters on modular construction such as Le Corbusier etc. and presentation of a report. - 1 weeks

Module V: Mivan Shuttering-1 weeks

Construction requirements for modular construction design of building as per the availability of interior modular component such as tiles/ kitchen cabinets etc. to avoid wastage. Shuttering and scaffolding requirements. Introduction of 'MIVAN' shuttering system for making multiple housing units and its economics.

Any important note or instruction for course cordinator

Examination Scheme:

Components	A	CE	CT	Viva	EE
Weightage (%)	05	25	20	20	30

Text Books /Reference Books/Journals/Other Study Material:

- Duffy, F, Cave, C, Worthington, J. – Planning office space. Architectural Press, London,1976.
- Duffy, F. – New Office. Conran Octopus, London, 1997.
- Meel, J. V.- The European office: Office design and national context. 010 Publishers, Rotterdam, 2000.
- Harris, D. A. – Planning and designing the office environment. Van Nostrand Reinhold, New York, 1981.
- Neufert P, -Neufert Architects'Data- Third Edition by Blackwell Science Ltd. Oxford 2000

BID 805 FILM & TELEVISION SET DESIGN

Course Code: BID 805 **Credit Units: 02** L-2/ST-0/P-0 **Teaching hours: 02**

Course Objectives:

- Set Design is an important and interesting section of design industry as it gives shape to ones' imagination and visualization. Set designing intends to expose students to different backgrounds and enhance designing skills by expressing ones' visualization into scenes. In this, students will be able to explore a new arena of employment

Course Contents:

Module I: Orientation to the Set design

Introduction to set design, History of set designing, Materials and techniques, In sync of traditional set designing to contemporary sets. Case studies of classical & modern sets as submission of reports.

Module II: Application of set design

Practical use of Elements and principles of design in set Design, Presentation on different Film studios such as Ramoji film city, and Universal Studio/AUR Studio etc.

Module III: Workshop

Designing sets by using local low cost materials, designing artistic backdrops for various events held in college/ Students in groups designing sets such as News reports office, café.

Module IV : Virtual sets

Adoption of technology in design of sets, virtual sets. Incorporation of multimedia & modern gadgets within sets.

Module V : Modern set

Study of modern set, requirements for stage shows for different activities such as dances/ dramas/ plays/ solo and group performances/ reality shows/ discussion stage/ mobile & reusable stages. Understanding the equipments required and that aesthetic incorporation to enhance viewer pleasure.

Examination Scheme:

Components	**A**	**CE**	**CT 1**	**EE**
Weightage (%)	05	25	20	50

Text & References:

- Drafting for the theatre- Dennis Dorn and Mark Shanda
- Light Fantastic: The Art and Design of Stage Lighting- Max Keller
- The Handbook of Set Design- Crowood Press
- Set Design by Tony Davis

Elective-VI

BID 806 INTELLIGENT INTERIORS

Course Code: BID 806 Credit Units: 02 L-2/ST-0/P-0 **Teaching hours: 02**

Course Objectives:

- Technology is becoming inherent part of modern life and has invaded every aspect of our life including the building interiors. Intelligent interiors are one of the most important parts of the modern buildings and objectives of the course is to make students aware of the use of technology in interiors.

Course Contents:

Module I: Introduction - 2 weeks
Overview of intelligent interiors and use of electronics & IT equipment for creating interesting interiors.

Module II: Intelligent Safety Systems - 3 weeks
Use of technology to maximize the performance of fire alarms and security systems while at the same time minimizing costs. Incorporation of safety equipment such as CCTV etc aesthetically in the interiors.

Module III: Workplace automation - 2 weeks
Intelligence with respect to workplace automation in an intelligent interior consists of the use of high – tech office automation systems to render the operation of a company more efficient. This can be done at a reduced cost to tenants by virtue of the equipment being shared.

Module IV: Automation of interiors - 2 weeks
Remote control in interiors, Managing and monitoring building efficiency from distance. Managing Security, HVAC etc from distance.

Module V: Virtual spaces and interiors - 3 weeks
Learning ways & system of creating such spaces that change shape/ size/ ambience/ colour etc. to change according to performance & suite the audience- D/4D/6D interiors. Interiors to suit the model & behavior of the user. Right from ones entry to the building to reach his final destinations. Temperature, light and colour control.

Module VI: Intelligent use of energy - 2 weeks
Intelligent interiors consist of energy use to the minimum with computerized system. To control light, airflow, air-conditioning, outdoor light entering the building heating and minimizing the energy consumption.

Examination Scheme:

Components	**A**	**CE**	**CT 1**	**EE**
Weightage (%)	05	25	20	50

Text & References:

Text:

- Drywall (Pro Tips for Hanging & Finishing), John D. Wagner
- Graphic Interiors (Space Designed by Graphic Artists), Corina Dean
- Interior design illustrated , Francis D.K. Ching
- Graphic Interiors (Space Designed by Graphic Artists), Corina Dean

References:

- A.J. Metric Handbook, Jan Bilwa and Leslie Fair weather
- Architectural Graphic standards, Boaz Joseph
- The Curtain Book, Mitchll Beazlty
- Illustration + Perspectives (In Pantone Colors), Eiji Mitooka

BID 807 INTERIOR LANDSCAPE

Course Code: BID 807 Credit Units: 02 L-2/ST-0/P-0 **Teaching hours: 02**

Course objective:
The objective of the course is to introduce the students to the practice of arranging and designing landscaping

Course contents:
Module I: Introduction
Introduction to interior landscape; history of evolution; Role and working of landscaping organizations such as ASLA etc.; impact of interior landscaping world-wide; study of examples of various cities in early years and modern usages

Module II: Briefing Interior Landscape
Types of interior landscaping; concepts of horticulture, xeriscaping, etc.; listing and analysis of plants and vegetation as per their usage and climatic conditions

Module III: Principles of Interior Landscape
Ergonomics, topiary, etc concepts for designing/ ornamentation of interior landscaping; representation techniques, graphics and symbols, rendering techniques; study of various fundamentals of designing such as aesthetics, expressions, harmony, etc

Module IV: Working Exercise
Plantscaping an area using any style of Interior Landscaping, providing detail legends of plants, shrubs, etc; using any style of interior landscaping

Module V: Planters
Planters/types and other hardware for interior landscaping

Examination Scheme:

Components	**A**	**CE**	**CT 1**	**EE**
Weightage (%)	05	25	20	50

Text & References:
Text:
- An Introduction to Landscape architecture by M. Laurie.
- An Introduction to Landscape Design by H. V. Hubbard
- Fundamentals of Landscaping and Site Planning by James B. Root.
- History of Garden Design by D. Clifford
- Tropical Garden Plants in Colour by Bose and Chowdhury

References:
- Colour and Design for Every Garden by Ortloff and Raymore
- Design with Nature by I. Mcharg
- The Way We Live by Alfresco
- New Landscape Design by Robert Holden
- Fundamentals of Ecology by M. C. Dash.
- Landscape Detailing by Michael Ittlewood.

BID 808 DESIGN OF LOGO & SIGNAGES

Course Code: BID 808 Credit Units: 02 L-2/ST-0/P-0 **Teaching hours: 02**

Course objective:
To acquaint the students with graphic design of symbols, logos and signage
To familiarize the students towards its application in the field of architecture and built-environment globally

Course contents:
Module I: Introduction
Definition of Graphic design and its specialized industries; History of Visual communication, pivotal movements & designers that led to the development of Graphic Design industry dealing with Symbols, Logos and Signage as witnessed today.

Module II: Visual Design Fundamentals
Visual design elements and principles, theory of graphics and visualization, Colour theory, Typography and Photography;
2D and 3D visual elements for representation and transformations.

Module III: Design Process – Symbols and Logos
Creative thinking processes and methods; Typology fundamentals; designing, narrating and concept evolution for symbols and logos; Designing fundamentals of words, images, aesthetics, identity and expressions; Case Studies of famous examples of Logo and Symbol design.

Module IV: Design Process - Signage
Understanding importance of signage as per the building typologies; impact of commercial signage on users; ergonomics of informative signage; sign regulations, harmony with contextual urban design, architecture and environment, Design process and Case Studies of key informative and commercial signage.

Module V: Technology
Commercial Printing, materials & techniques for signage fabrication and erection, Signage lighting, Use of Graphic design softwares for designing symbols, logos and signage.]

Examination Scheme:

Components	**A**	**CE**	**CT 1**	**EE**
Weightage (%)	05	25	20	50

Text & References:

- Chris Calori, David Vanden-Eynden, Signage and Wayfinding Design: A Complete Guide to Creating Environmental graphic design system, 2015 wiley
- Lisa Silver, Logo Design that Works: Secrets for Successful Logo Design, 2001, Rockport Publishers
- Michelle Galindo, Signage Design, 2011, Braun
- Edo Smitshuijzen, Signage Design Manual, 2007 Prestel Pub

Domain Elective-VII

BID 809 INTERIOR JOURNALISM

Course Code: BID 809 **Credit Units: 02** L-2/ST-0/P-0 **Teaching hours: 02**

Course Objective:

Interior Journalism aims to provide foundations for writing about architecture and design. This course deals with the basics of news writing, news structure, editing and presenting and discusses the elements and principals of writing. This course is intended to help those, who have inclination for writing to develop their skills to enable then to record, analyze and evaluate architecture both in its theoretical and practical forms. To understand the process of documenting a projects in the field of interior.

Course Contents:

Module I: Journalism in general

Journalism in general, Theories of journalism, Techniques and processes, Contemporary Architectural journalism

Module II: Basics of Writing

News – Source, Elements, News Values and Impact, Journalism – History, Focus on India, Journalism and Society

News Writing – Style and principals. Types of leads & Body text, News Structure – 5W 1H, Inverted Pyramid, Diamond and Hourglass style of news writing, Understanding your reader, Writing in perception of the user, Career in Architectural journalism

Module III: Writing about design and architecture

Overview of journalistic assignments. Design – Analysis and Writing, Writing review and critical analysis, Collecting information and presenting data, Elements of architecture: the form, the materials, the design concept or the key planning – Idea Creation, Documenting of projects, Brining Flair and Objectivity in Writing, Architectural Criticism, Writing on interior and construction, Writing on urban planning and sustainability, Interview and Personal Writing, Writing facts and establishing debate, Corporate Reporting, Press Meeting and press releases

Module IV: Editing and Presentation

Prof reading techniques – Languages, Grammar and Style, Electronic Copy editing, Writing Headlines and captions

Writing an editorial and opinion , Style sheet, Constructing Narrative , Writing for various media – Print, Visual and Online, Lay-out – Newspaper and Magazine, Introduction to Publishing Softwares.

Module V: Magazine Writing

Introduction to magazine journalism and writing, Reviews of famous architectural magazine and writers, Principals of writing magazine story, Feature writing , Using pictures and graphics,

Project : Student must prepare two features; one for newspaper and other for the magazine about a project and an architect.

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text & References:

- Miller, Randy & Wilber, Rick (2002). *Modern Media Writing.* Wadsworth Publishing
- Sharma, Sangeet (2013). *Architecture, Life & Me.* Rupa & Co. Delhi.
- Wray, Cheryl (1997). *Writing for Magazines: A Beginner's Guide.* McGraw Hill.
- Architectural Criticism and Journalism by Majd Musa and Mohammad Al-Asad (1 March 2007)
- Challenges to the Epistemology of Journalism: The Architecture of the Contemporary Mediascape (Economy and Society... by George Lazaroiu (15 August 2012)

Magazines:

- **Metropolis Magazine**, architecture and design
- **Plan**, architecture, design, art and urban planning

Surface Magazine, architecture, design, and fashion

BID 810 COST EFFECTIVE INTERIORS

Course Code: BID 810 **Credit Units: 02** L-2/ST-0/P-0 **Teaching hours: 02**

Course Objective:

- To familiarize the student with cost-effective construction for building economy
- To develop an understanding of different issues, types and techniques involved in the design and construction of low cost structures

Course Contents:

Module I: Introduction
Basic shelter issues in India and Affordability, Need for achieving low costs in building construction – Low cost vs. Quality. Factors constituting building costs, Controlling parameters for achieving Cost Effective Architecture – land, space, materials, design, construction techniques, construction time & labour.

Module II: Understanding needs of economically weaker sections
Cultural study of economically weaker sections in India in different pockets like slums & existing EWS & LIG housings, space usage pattern studies, study for modifications and alterations done by dwellers in existing EWS & LIG Schemes.

Module III: Architectural Planning & Design for Cost Effective Architecture – Space Optimization
Site planning and Architectural Design as tools for Cost Effective Architecture, Space planning Norms of National Building Code, India for Economically weaker Sections in Urban and Rural Areas; National building organization – Recommendation of Housing and Urban Development Corporation, Space optimization as a process of cost reduction, Multiple use of space. Multiple use of furniture.

Module IV: Building Materials, Construction techniques & Time Optimization for Cost Effective Architecture
Local materials and traditional technologies, Improved traditional technologies, Innovative Materials and construction methods developed Laurie baker; CBRI Roorkee, HUDCO, Anangpur Building Centre, Development Alternatives, Auroville Building Centre and many others for different types of walling, roofing and foundation with materials like Pressed soil blocks, soil cement blocks and other alternative materials – fly ash brick, gypsum byproducts, Ferro cement products, bamboo, jute stalk etc; Ways to cut down the use of unwanted building materials, Project time optimization to reduce project costs, Use of effective project management techniques.

Module V: Studies and Comparative Analysis for Cost Effectiveness
Case studies presentations of low cost/ cost effective projects and their comparative cost analysis with conventional projects.

Examination Scheme:

Components	**A**	**CE**	**CT 1**	**EE**
Weight age (%)	05	25	20	50

Text & References:

- Alternative Construction, Contemporary Natural building Methods: Edited by Lynne Elizabeth and CassandrAdams.

- Low cost housing in developing countries by G. C. Mathur
- How the other half builds – Vol 1, 2 & 3 by Vikram Bhatt et al.
- National Building Code of India, 2005 – PART 3 – ANNEX C, E & F
- Laurie Baker – Life, work, writings by Gautam Bhatia
- Low Cost Housing – An analytical Study of the current practices & techniques by Vastu Shilpa Foundation
- CBRI Publications – Book 1-9
- Low Cost Housing competitions 1974 – 96 by HUDCO
- How to reduce building costs by Laurie Baker

BAR 811 SPECIALISED INTERIORS

Course Code: BID 811 **Credit Units:02** L-2/ST-0/P-0 **Teaching hours: 02**

Course Objectives:

To understand the basic ideas different spaces and designing spaces in various modes of transit through Adaptive and retrofit design, Proper utilization of limited spaces.

Course Contents:

Module I: Principles of Yacht/House Boat Design- 2 weeks

History of Boat, Typology, Understanding Boat Design, Space Allocation, Identifying ,Information Relevant to the Yacht Interior, Space Planning for the Yacht Interior, Lighting the Yacht Interior, Construction Methods and Materials for the Yacht Interior.

Module II: Principles of Aeroplan/Private jet Interior Design - 4 weeks

Function and performance, Cabinetry, seat design, rapid cabin retrofits, Passenger safety, Removal of wastes, Entertainment, Lighting ,types of construction materials, Storage spaces, galley or cooking spaces, laboratories, crew restroom, passenger lounges,

Module III: Principles of Train Cabin/ Container Interior Design - 4 weeks

Typology of Cabin, Understanding Rail cabin Design, Space Allocation, Identifying , Information Relevant to the Rail cabin Interior, Space Planning for the cabin Interior, Lighting the cabin Interior, Construction Methods and Materials for the cabin Interior. Acquiring knowledge on air conditioning systems: Cabin, Passenger compartment. Ergonomically Significance. Adaptive furniture design.

Module IV: Automobile Interior Design - 4 weeks

Brief history on the evolution of present day vehicles- Personal and public mobility system, Retro styling movement. Automobile terminologies and configurations. Anthropometrics and its application to vehicle ergonomics and cockpit design, Driver and passenger comfort – seating, visibility, man-machine system, Safety issues- active and passive safety features in vehicles.

Exercises: Field trips, Retro styling, Styling for future, interior design based on themes. Exercises based on the above and seminars

Any important note or instruction for course coordinator

Examination Scheme:

Components	A	CE	CT	EE
Weightage (%)	05	25	20	50

Text Books /Reference Books/Journals/Other Study Material:

Text:

1. Ahola, Markus. 2017. Tracing Passenger Safety Perception for Cruise Ship Design. Aalto University. https://shop.aalto.fi/p/602-tracing-passenger-safety-perception-for-cruiseship-design/.
2. Brewer, T. 2009. Analysis and Design of Marine Structures: Including CD-ROM – Google Books. Edited by Guedes C. Soares and P.K. Das. Boca Raton: CRC Press. https://books.google.iq/books?id=hk7LBQAAQBAJ&pg=PA300&lpg=PA300&dq=Brewer,+T.,+(1994).+Understanding+Boat+Design,+International+Marine,+Camden,+Maine&source=bl&ots=Ks3IQ0Ao37&sig=ACfU3U0D6Jg6aeW1ymbaNrJ5jppRwE1tQ&hl=en&sa=X&ved=2ahUKEwjQ_OO_8KniAhWByqYK.
3. Laird, Ross. 2019. "Choosing Wood for Marine Applications | Ross Laird." 2019. https://www.rosslaird.com/blog/creativity/2007-08-16-choosing-wood-for-marine-use/
4. Larsson, Thomas. 2013. The Big Book of Wooden Boat Restoration: Basic Techniques, Maintenance, and Repair. Norstedts: Skyhorse Publishing, Inc https://www.amazon.com/Big-Book-Wooden-Boat-Restorationebook/dp/B01DV1Y93I#reader_B01DV1Y93I.
5. Yacht Interiors - Design Book S. (Hardback)DAAB Press https://www.waterstones.com/book/yacht-interiors/daab-press/9783937718095
6. B.Peacock, Waldemar Karwowski; Automobile ergonomics. Publisher: CRC; 1 edition, 1993
7. S.P. Taylor C.M. Haslegrave; Vision in Vehicles VI. Publisher: North Holland; 1 edition, 1998
8. Cristy ho, Charles Spenser; The multisensory drives: Implication for ergonomics car interface design. Publisher CRC press 1993.
9. Don Harris (Editor); Engineering Psychology and Cognitive Ergonomics: 8th International conference. Publisher: Springer; 1 edition (2009)

Online Resources

1. **http://www.westlawn.edu/course_info/overview.asp**
2. https://makautwb.ac.in/syllabus/Interior%20Designing%20in%20B.Sc%20Hons%2028.02.2018.pdf
3. https://www.masterstudies.com/Master-in-Interior-Design-for-Luxury-Rides-(Yacht-private-Jet-and-Helicopter)/Italy/HFFA/
4. https://www.luxurytrainclub.com/trains/danube_express_golden_eagle/
5. **https://www.dezeen.com**