

SCHEME OF EXAMINATION
BACHELOR OF SCIENCE (INTERIOR DESIGN)-B.SC. (ID)
THREE YEAR PROGRAMME (ANNUAL SCHEME)
2011

Note:

- There will be 70 multiple choice questions (MCQ's) in the question paper consisting of one mark each. Students are required to attempt all the questions.

Internal assessment marks shall be given on the basis of marks secured by the candidate in the Descriptive Examination to be conducted by the respective study centre. Study centres are required to keep the record of the descriptive examination with them for inspection by the University. The marks of Internal Assessment must be submitted to the University before the termination of the University Examination in the concerned subjects. In the event of non receipt of the Internal Assessment Marks the theory marks secured by the candidate shall be proportionately enhanced.

First Year

Paper	Nomenclature	External	Internal	Total Marks
DEBSID- 101	Architectural Design-I	70	30	100
DEBSID- 102	Building Const & Material-I	70	30	100
DEBSID- 103	Architectural Graphics-I	70	30	100
DEBSID -104	Graphics-I	70	30	100
DEBSID -105	Estimation and Costing	70	30	100
DEBSID -106	History of Interior Design-I	70	30	100
DEBSID -107	Furniture Design-I	70	30	100
DEBSID -108	Building Services –I	70	30	100
DEBSID -109	Workshop-I			100
DEBSID -110	Workshop on Communication and Professional Practice-1			100
DEBSID -111	Environment Studies(qualifying subject)*	70	30	100

Important Note:

- * The Environmental studies is a qualifying paper for all UG Courses. Students are required to qualify the same, otherwise final result will not be declared and degree will not be awarded. Paper setting, conduct of examination and its evaluation will be done at the study centre itself.

Second Year

Paper	Nomenclature	External	Internal	Total Marks
DEBSID- 201	Architectural Design-2	70	30	100
DEBSID- 202	Building Const & Material-2	70	30	100
DEBSID- 203	Architectural Graphics-2	70	30	100
DEBSID- 204	Graphics-2	70	30	100
DEBSID- 205	Estimation and Costing	70	30	100
DEBSID- 206	Display	70	30	100
DEBSID- 207	Furniture Design-2	70	30	100
DEBSID- 208	Building Services -2	70	30	100
DEBSID- 209	Landscape Design	70	30	100
DEBSID -210	Workshop on Communication and Professional Practice-2			100

Third Year

Course	Nomenclature	External	Internal Marks	Total Marks
DEBSID -301	Structural Design	70	30	100
DEBSID -302	Dissertation			100
	Elective 1	70	30	100
	Elective 2	70	30	100
	Elective 3	70	30	100
	Elective 4	70	30	100

LIST OF ELECTIVES IN INTERIOR DESIGN

Paper	Nomenclature	External	Internal Marks	Total Marks
DEBSID -303	Interior Design	70	30	100
DEBSID -304	Interior Lighting Design	70	30	100
DEBSID -305	Interior Typology Studies	70	30	100
DEBSID -306	Furniture design	70	30	100
DEBSID -307	History of Interiors	70	30	100
DEBSID -308	Indian Architecture	70	30	100
DEBSID -309	Interior Maintenance	70	30	100
DEBSID -310	Energy Conscious Architecture	70	30	100
DEBSID -311	Interior Materials	70	30	100
DEBSID -312	Color Interiors	70	30	100
DEBSID -313	Interior Accessories	70	30	100
DEBSID -314	Construction Management	70	30	100
DEBSID -315	Multistoried Buildings	70	30	100
DEBSID -316	Low Cost Interiors	70	30	100
DEBSID -317	Art and Architecture	70	30	100
DEBSID -318	Architecture Journalism	70	30	100

BACHELOR OF SCIENCE (INTERIOR DESIGN)

First Year

ARCHITECTURAL DESIGN-I

PAPER CODE: DEBSID-101

External: 70

Internal: 30

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INTENT

Introduce in to the mathematical mind set of the students from any stream an aesthetic line of thinking. Inculcating a sense of joy in 'design' and its process.

CONTENT

Potential of a line, composition using lines.

Two dimensional compositions of simple geometric shapes (triangles, rectangles, circles) as lines and as two dimensional solid shapes in monochromatic schemes and in color schemes.

Application of form and color in differing visual creative situation like design of a carpet, a sari border, a necktie, a rangoli, a pavement pattern, curtain fabric and the like. Exercises in composing 3 dimensional objects and their representation in 2-D

Exercises in design of simple mono cellular buildings like guard house, flower kiosk, milk parlor etc.

BUILDING CONSTRUCTION MATERIALS-I

PAPER CODE: DEBSID-102

External: 70

Internal: 30

Note:

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INTENT

To introduce the students to the dynamics of Building Construction and an appreciation of the use of Building Materials in architecture and interior designing as an integral component of the conversion of design Concepts into tangible reality.

To make the students aware with the basic components of building envelope and to familiarize them with elementary and basic building material like brick and stone and with the principle of construction using these material.

CONTENTS

Basic components of a “building”
 Brick as a building material
 Brick Masonry tools
 Brick walling and joints
 Brick Jallies
 Brick Arches
 Stone as a building material
 Stone Masonry Tools
 Timber as a building material
 Carpentry tools
 Plywood and boards – types and qualities
 Types of Doors, Windows, Ventilators, and their details
 Moldings.
 Types of wooden staircase and their details
 Sliding and folding wooden doors, sliding wooden doors
 Substitute wood products

ARCHITECTURAL GRAPHICS–I**PAPER CODE: DEBSID-103****External: 70****Internal: 30****Note:**

1. There will be 70 multiple choice questions (MCQ's) in the question paper consisting of one mark each. Students are required to attempt all the questions.
2. Internal assessment marks shall be given on the basis of marks secured by the candidate in the Descriptive Examination to be conducted by the respective study centre. Study centres are required to keep the record of the descriptive examination with them for inspection by the University. The marks of Internal Assessment must be submitted to the University before the termination of the University Examination in the concerned subjects. In the event of non receipt of the Internal Assessment Marks, the theory marks secured by the candidate shall be proportionately enhanced.

INTENT

To develop the skill of drafting using computers/manually.

CONTENT

Acquaintance with the computer
 Introduction to drafting equipment/computers
 Drafting of lines, Orthographic projections, Representing simple solids, Lettering,
 Architectural Graphic Symbols, Drawing Scales, Measured drawing of a simple object/
 Drawing, editing, modifying commands in 2-d using AutoCAD, Setting and plotting drawings on standard formats Projection
 of group of solids, section of solids, development of surface, inter penetration of solids, isometric view of simple forms
 Axonometric view/Drawing, editing, modifying commands in 3-d using AutoCAD

GRAPHICS I

PAPER CODE: DEBSID-104

External: 70

Internal: 30

Note:

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INTENT

To develop the skill of using the pencil in free hand drawing and rendering to support Architectural Design and Drawing

CONTENTS

Use of Pencil

Lines

Shading with pencil

Indoor sketching

Drawing scaled graphics

Use of pencil colors for rendering

Color wheel

Theory of color aesthetics

Representing building material and color

Use of poster color and rendering

Use of ink for rendering

Rendering on different kinds of paper

ESTIMATION AND COSTING-1

PAPER CODE: DEBSID-105

External: 70

Internal: 30

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INTENT

To make students understand the importance, techniques of estimating and costing and valuation and principles of economics in building design.

CONTENT

- Importance and estimating costing
- Costing and valuation, different types of estimates
- Thumb rules used in estimating
- Methods of preparing BOQ, long wall short wall method
- Centre line Method
- BOQ for journey works
- Quantity estimation for finishes

HISTORY OF INTERIOR DESIGN–1**PAPER CODE: DEBSID-106****External: 70****Internal: 30****Note:**

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INTENT

To inculcate the appreciation of 'History of Interior Design' in the larger context of Time, Space, Man and Architecture; to develop a curiosity of a past era; to appreciate the glory of a past era through its Architecture and interior design.

CONTENTS

This unit encompasses a broad survey of the history of design from the civilizations of antiquity to the opening of the 20th century – including architecture, industrial design, interior design and landscape architecture. It is a first year foundation unit and serves as preparation for more detailed and specialized studies in history and theory in subsequent years. Key designs, ideas and artefacts and the aesthetic, environmental, technological, socio-cultural and political factors that related to their production will be analysed.

FURNITURE DESIGNING- I**PAPER CODE: DEBSID-107****External: 70****Internal: 30****Note:**

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INTENT

To appreciate “design”, the background thinking in the design of art forms; the design of furniture.

CONTENT

Meaning of design

Design in everyday life.

Elements of Design- Line, form, color texture

Principles of Design-Unity, variety, hierarchy,

Scale and proportions.

This unit focuses on furniture as an integral element of an interior environment and of personal and cultural identity. These aspects will be contextualized in an appropriate furniture design project.

Topics covered in this unit include:

- A focus on interaction factors such as visual cues and psychological responses
- An historical analysis of the role of furniture in interior design
- Historic, contemporary and future trends
- Furniture design and documentation

BUILDING SERVICES-I

PAPER CODE: DEBSID-108

External: 70

Internal: 30

Note:

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INTENT

Basic intent of this course is to make student familiar with concepts of climatology which they can incorporate their design exercise.

CONTENTS

Traditional use of material and shelter design

Climate and its elements

Human Comfort design guidelines

Micro climate

204

Thermal comfort factors

Ventilation and air movement and their architectural implications

Basic introduction to plumbing, lighting, and air conditioning.

Note:

Detailed teaching programme to be made before the commencement of the academic year and circulated to the students at the commencement of the semester.

WORKSHOP-I

PAPER CODE: DEBSID-109

External: 100

INTENT

To appreciate the complexity of working by ones own hand; to familiarize students with the complexity of making quick and rendered models to sport design presentation.

CONTENT

Model making materials

Model making techniques for quick study models

Use of carpentry tools

Characteristics of wood

Exercise in making of carpentry joints

Exercises using commercial boards

Model making in mount board and thermocol

Making of one detailed model of a building

Tools for model making

Practicing cutting and joining for architectural models

Making one detailed model of individual designs

WORKSHOP ON

COMMUNICATION SKILLS AND PROFESSIONAL PRACTICE-I

PAPER CODE: DEBSID-110

External: 100

INTENT

To inculcate the technique and skill of effective communication mediums for the running of an effective architectural practice.

CONTENT

Principles of communication

Office English

Interview skill, technical presentation

Report writing

Writing for publication:

Spoken English (oral presentation)

Meetings

innovative English

Creative writing

ENVIRONMENT STUDIES (QUALIFYING SUBJECT)*

PAPER CODE: DEBSID-111

Internal: 100

Third Year

ARCHITECTURAL DESIGN-2

PAPER CODE: DEBSID-201

External: 70

Internal: 30

Note:

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INTENT

Appreciation of the complexities and contradictions in the architectural design process

CONTENT

Exercises in design of small buildings like primary health clinic, nursery school, neighborhood shopping incorporating services.

Note:

Detailed teaching programme to be made before the commencement of the academic year and circulated to the students at the commencement of the academic year .

Visits to proto type situations to be arranged off the studio hours

At least 4 exercises should be done.

BUILDING CONSTRUCTION MATERIAL-2

PAPER CODE: DEBSID-202

External: 70

Internal: 30

Note:

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examination with them for inspection by the University. The marks of Internal Assessment must be submitted to the University before the termination of the University Examination in the concerned subjects. In the event of non receipt of the Internal Assessment Marks, the theory marks secured by the candidate shall be proportionately enhanced.

INTENT

To understand the RCC construction details used in 3-4 storied buildings as a building material as well as in interior treatments.

CONTENT

RCC as a material
 RCC staircase
 Flooring and roofing details
 Detailed section through a 4 storied building
 Concept of frame structures
 Steel staircase
 Steel cladding
 Collapsible and rolling shutters
 Joinery details
 Kitchen detail
 Toilet detail
 Staircase detail
 Wardrobe detail
 Services layout

ARCHITECTURAL GRAPHICS-2

PAPER CODE: DEBSID-203

External: 70

Internal: 30

Note:

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INTENT

To make students understand the concept of computer representation and study of advanced software.

CONTENT:

Autocad / Drawing, editing, modifying commands Revit, 3-D max introduction.

GRAPHICS-2**PAPER CODE: DEBSID-204****External: 70****Internal: 30****Note:**

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INTENT

The intention of this course is to further augment and enhance the architectural and interior rendering techniques of students using viral mediums (in relation to appropriate base material) with an ultimate objective, that at the completion of this particular programme the students should be able to render a set of arch. Presentation drawings of a small building in varied medium color pencil water color including landscape, automobiles and human figures.

CONTENT

Perspective drawing, its concepts and various elements and methods.

1 point perspective drawing of a simple situation

Shade and shadow of object of different shape at different levels and planes

Shade and shadows of architectural fenestrations

Shade and shadow of façade of simple building

Rendering of all architectural drawings in

Oil Patels

Markers

Charcoal Pencil

Cut and Paste

Water Color

Poster Color

Techniques for rendering drawings in color pencil, water color and

Rendering of plan, sections and elevation in different mediums

Rendering of two point perspective of a building in different mediums

Rendering of one point perspective of an interior space in ink

ESTIMATION & COSTING**PAPER CODE: DEBSID-205****External: 70****Internal: 30****Note:**

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INTENT

To make students understand the importance, techniques of estimating and costing and valuation and principles of economics in building design.

CONTENT

- Principles of economics in building planning.
- Price rise Mechanism in tenders.
- Abstract of cost of estimate of Project.
- Valuation
- Various forms of tenders in building civil and interior works
- Analysis of rates for various building and interior works.

Note:

Detailed teaching programme to be made before the commencement of the academic year and circulated to the students at the commencement of the academic year.

DISPLAY

PAPER CODE: DEBSID-206

External: 70

Internal: 30

Note:

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INTENT

To make students experiments in different types of Display in interior and exterior facades and places.

CONTENT

Various types of Display

FURNITURE DESIGNING -2
PAPER CODE: DEBSID-207

External: 70
Internal: 30

Note:

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INTENT

To develop a creativity for furniture design understanding the comfort and aesthetics of an area. It is an advancement in design process for the students.

CONTENT

- Historic, contemporary and future trends
- Furniture design and documentation

BUILDING SERVICES–2 (LIGHTING/ACOUSTICS/AIRCONDITIONING)

PAPER CODE: DEBSID-208

External: 70
Internal: 30

Note:

1. There will be 70 multiple choice questions (MCQ's) in the question paper consisting of one mark each. Students are required to attempt all the questions.
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INTENT

To understand the implication and application of natural and artificial lighting, importance of acoustics, and air conditioning in Architecture and interiors.

CONTENT

Natural lighting
Artificial lighting
Requirement for different situations
Lamps and luminaries
Outdoor lighting

210

Specialized lighting like art galleries etc.

Electrical system wires

Electricity distribution system with a building

Safety devices

Electrical wiring systems

Generation transmission and distribution of electricity

Graphic electrical symbols

Load calculation of a small building

Terminology in acoustics.

Behavior of sound.

Acoustical defects and their solutions.

Acoustics material

Principles of good acoustical design for different building types.

Noise

Fire-fighting

First resistant rating

Fire resisting materials

Fire protection equipments

NBC standards for fire fighting

Human comforts conditions

Natural and mechanical ventilations

Air-conditioning principles, systems and methods

Architectural interventions in air-conditioned buildings, study of materials (interiors) for air conditioned spaces

Types and layout of centrally air-conditioning systems

Lift location, systems, sizes equipment spatial requirement

Escalators location, equipment

LANDSCAPE DESIGN

PAPER CODE: DEBSID-209

External: 70

Internal: 30

Note:

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INTENT

To appreciate the issues related to small landscape situations in exterior as well as interior areas.

CONTENT

Principles of landscape design
 Elements of landscape design and their various manifestations
 Plant material: Shrubs, trees, plants, ground cover.
 Water and its manifestations
 Use of earth and stone as element of landscape.
 Landscape Design Exercises for different architectural situations.
 Introduction to Landscape and climatology.

WORKSHOP ON COMMUNICATION AND PROFESSIONAL PRACTICE-2**PAPER CODE: DEBSID-210****External: 100****INTENT**

To acquaint the student with building legislation and basic office procedure and management techniques .

CONTENT

Building Bye Laws professional practice, office management, project management.
 Study of building Bye laws and study of national building code.
 Study of building Bye laws of Chandigarh and Delhi
 Submission drawings – study and requirements
 Office administration
 Office Correspondence, Filing and record keeping.
 Dealing with different personnel.
 Legal responsibilities and ethics.
 Notice inviting tenders, tender documents agreement contract.
 Professional practice: Negotiation arbitration, arbitrator its advantages/disadvantages, billing, accounting .
 Project management
 Site organization and Networking techniques
 Time analysis, CPM PERT.
 Value engineering Man power and labor laws.
 Basic accounts techniques and book keeping.
 The intention is to acquaint the students with issues related to office management and professional practice.
 Study of office practices

Third Year

STRUCTURAL DESIGN
PAPER CODE: DEBSID-301

External: 70

Internal: 30

Note:

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INTENT

To enhance the understanding of RCC and timber structures

CONTENTS

Theory and design of simply supported circular and ribbed slabs subjected to uniformly distributed loads

Fixed beams: Bending moment diagrams for a fixed beam subjected to uniformly distributed load and point load. Formula to be explained – no derivation)

Theory and design of reinforced T-beams, inverted T-beams and isolated T-beams, singly reinforced L-beams

Theory and design of isolated sloped column footing for a square, rectangular and circular column subjected for axial loads

Column footings subjected to eccentric loading

RCC footing for axially loaded RCC and brick walls.

DISSERTATION

PAPER CODE: DEBSID-302

External: 100

The development of thesis is the students opportunity to prove that he has adequate ability to handle all phases of design. The definition or thesis is a proposition that offers to prove. It is a subject for scholastic study through analysis. It is a development and presentation of the interior design of building including its setting in a specific environment and its technical aspects. In former – times the thesis was perhaps the only evidence of a student's academic ability in the subject.

After an orientation talk by the thesis coordinator each student will submit to the HOD, Arch. his/her subject he/she proposes to work upon. The criterion for the choice of the subject will be its relevance to the actual needs of the region/country. The student will commence the work on the subject only after it has been approved by the HOD/Principal. Students are divided into groups for thesis work, each group being entrusted for guidance to a thesis guide who will be responsible for one particular group.

Contents of Thesis

Among other things, a thesis project will comprise of the following:

- (a) A written and illustrated report which should include validity of the chosen project, methodology, prototype studios, client's and designer's briefs, conclusion design criteria along with sketches, photographs, tables and diagrams etc.
- (b) A fully worked-out design proposal.