



St. PETER'S UNIVERSITY

St. Peter's Institute of Higher Education and Research

(Declared Under Section 3 of the UGC Act, 1956)

AVADI, CHENNAI – 600 054

TAMIL NADU

M.Sc. (INTERIOR DESIGN)

Code No. - 426

(Effective From 2009 – 2010)

(Distance Education)

Regulations and Syllabi

(I & II Year)

St. PETER'S INSTITUTE OF DISTANCE EDUCATION

Recognized by Distance Education Council and

Joint Committee of UGC – AICTE - DEC, New Delhi

(Ref. F. No. DEC/SPU/CHN/TN/Recog/09/14 dated 02.04.2009 and

Ref.F.No.DEC/Recog/2009/3169 dated 09.09.2009)

St. PETER'S UNIVERSITY
St. PETER'S INSTITUTE OF DISTANCE EDUCATION

Chennai - 600 054.

Code No. - 426

M.Sc. (INTERIOR DESIGN)

(Distance Education)

Regulations and Syllabi

(Effective from 2009 - 2010)

- 1. Eligibility:** Candidates who have passed B.Sc. Examination with Interior Design or any other degree under 10, +2, +3 pattern in the University or an equivalent recognized examination thereto, are eligible for admission to Two Year M.Sc. Programme in Interior Design.
- 2. Duration:** Two Years.
- 3. Medium:** English is the medium of instruction and examination.
- 4. Methodology:** The methodology of distance education includes the supply of self-instructional study materials in print format and in CD, face-to-face instruction for theory and practicals for a limited period during week ends and on holidays, provision of virtual class in phased manner, dissemination of information over e-mail, Student - Support Service at various Centres of the University, Continuous Assessment and End Assessment conducted by the University at various parts of India.
- 5. Weightage for Continuous and End Assessment:** There is no weightage for Continuous Assessment unless the ratio is specifically mentioned in the scheme of Examinations. The End Assessment (EA) has 100% weightage.
- 6. Credit System:** Credit system be followed with 36 credits for each Year and each credit is equivalent to 25-30 hours of effective study provided in the Time Table of the formal system.



7. Scheme of Examinations
First Year

Code No.	Course Title	Credit	Marks	
			EA	Total
Theory				
109PIDT01	Research Methods and Statistic	6	100	100
109PIDT02	Construction Materials and Furniture Design	8	100	100
109PIDT03	Light and Colors in Interior Design	6	100	100
109PIDT04	Building construction for Interior Designers	8	100	100
109PIDP01	Practical I – Drawing Techniques Record	8	90 10	100
	TOTAL	36	500	500

Second Year

Code No.	Course Title	Credit	Marks	
			EA	Total
Theory				
209PIDT01	Furnishings of Interiors	6	100	100
209PIDT02	Advanced Building Services	8	100	100
209PIDT03	Residential Interior Space Design	8	100	100
209PIDP04	Commercial Interior Space Design	8	100	100
209PIDP01	Practical – II: Interior Space Design Record	8	90 10	100
	TOTAL	36	500	500

8. Passing Requirements: The minimum pass mark (raw score) be 50% in End Assessment.

9. Grading System: Grading System on a 10 Point Scale be followed with 1 mark = 0.1 and the conversion of the Grade point as given below.

$$\begin{aligned} \text{Overall Grade Point Average (OGPA)} &= \frac{\text{Sum of Weighted Grade Points}}{\text{Total Credits}} \\ &= \frac{\sum (EA)C}{\sum C} \end{aligned}$$

10. The Overall Grade: The Overall Grade and Classification of all successful candidates be arrived at from the Overall Grade Point Average as stipulated in the following conversion Table.

Grade	Over all Grade Point Average(OGPA)	Over all weighted Average marks	Classification
O	9.00 to 10.00	90.00 to 100	First Class
A	8.00 to 8.99	80.00 to 89.99	First Class
B	7.00 to 7.99	70.00 to 79.99	First Class
C	6.00 to 6.99	60.00 to 69.99	First Class
D	5.00 to 5.99	50.00 to 59.99	Second Class
F	0.00 to 4.99	0.00 to 49.99	Fail

The Grade Sheets of successful candidates provide particulars such as (1) Overall weighted Average Marks, (2) Overall Grade Point Average, (3) Overall Grade and (4) Overall classification.

11. Pattern of the Question Paper: The question paper for End Assessment will be set for three hours and for the maximum of 100 marks with following divisions and details.

Part A: 10 questions (with equal distribution to all units in the syllabus). Each question carries 2 marks.

Part B: 5 questions with either or type (with equal distribution to all units in the syllabus). Each question carries 16 marks.

The total marks scored by the candidates will be calculated to the maximum prescribed in the Regulations.

12. Syllabus

FIRST YEAR

PAPER I - Research Methods & Statistic - 159PIDT01

UNIT I:

The Research Process - Scientific approach to enquiry in comparison to native, common sense approach
Knowledge, theory and research - Research Design - Steps in the Research Process - hypothesis and types of hypothesis
Hypothesis testing- null hypothesis, sample distribution, level of significance - Types of Research

UNIT II:

Data Collection - Primary and secondary methods of data collection -Different types of questionnaires, tools for data
Collection - Procedure for data collection - Planning for data analysis-coding of responses - Coding of data - Parametric
and non-parametric tests - Use of statistical tools

UNIT III:

Introduction to Statistics - Quantitative analysis, descriptive statistics, inferential statistics -.Measures of central tendency-
mean, median, mode-arithmetic mean - and its uses, mid - range, geometric mean, weighted mean - Measures of
dispersion /variability- range, variance, standard deviation, standard error, coefficient of variation, Kurtosis, skewness
Normal Distribution - Binomial distribution - Probability, use of normal probability tables, area under normal distribution
curve

UNIT IV :

Correlation and Regression and its interpretation - Linear regression and correlation coefficient - Regression and
prediction - Rank correlation, Product-moment method Chi square test and its interpretation - General features,
goodness of fit - Analysis of Variance and its interpretation

UNIT V:

Presentation of Data - Tabulation and Organization of data- frequency distributions, cumulative frequency distribution,
contingency tables - Graphical presentation of data- The Research Report - Basic components of a research report.

REFERENCE:

1. Jain, G. (1998): Research Methodology: Methods and Techniques, Mangal Deep, Jaipur.
2. Kothari, C.R. (2000): Research Methodology: Methods and Techniques, Wishwa Prakashan, New Delhi.
3. Gupta, S. (2001) "Research Methodology and Statistical Techniques", Deep and Deep, New Delhi,
4. Holloway, I. (1997): Basic Concepts of Qualitative Research, Blackwell Science, London.

PAPER II - Construction Materials & Furniture Design -109 PIDT02

UNIT I:

Different type of construction materials used in Interiors - structural systems and different type of techniques used in construction - properties, trends and usability of the material, and its cost

UNIT III:

Walls & wall finishes: Interior walls classification - Wood, glass,- Paints, tiles - Terra cotta, marble wash, Metals, - (stone finishes), selection, laying - cost, estimation, care and maintenance - Exterior walls, stones, rubble tiles, fresco, plaster of paris, murals glass and metals, paints and plastering- Selection, laying, care and maintenance

UNIT IV:

Floors and Floor finishes: Interior floors Mud, cement, brick, granolithic, terrazzo, mosaic, tiled, marble, timber rubber, cork, glass, plastic or PVC floors - Floor covering-rugs and carpets selection, laying, care and maintenance - Exterior floors-Concrete slabs, tiles

UNIT V:

Roofs: Classification of roofs-Flat and pitched - Materials used for interior roofs, plastering, Embossing, fresco, plaster of paris, plastic, Kerala tiles, wooden paneling, glass, false ceilings, selection, care and maintenance joineries - Doors, windows, cupboards-types, materials used, Estimating the cost of construction

UNIT V:

Designs and techniques used in construction of: Single bed with side table - Wardrobe Design - Study tables - Wall units - Kitchen Platform - Conference Table - Reception Table -Partition and Paneling - Display Counter

REFERENCE:

1. Diwan S (1999): Sanskruti- A manual of Interior Design.
2. R Barry, The Construction of Building Vol. I,II,IV ELBS Publication.
3. Arora, S.P., Bindra, S.P. 2005, A Text book of building Construction Dhanpat Rai Publications (P) Ltd., New Delhi.
4. Rangwala S.C, Building Construction, Charotta Pub, Anand
5. B.C. Purnima, Building Construction, Laxmo Publication.
6. Sushil Kumar, Building Construction, Laxmo Publication.
- 7 Francis D.K.Ching, Building Construction Illustrated., Van Nortrand
8. D.A.C.A. Boyne, Architect's Working Detail Vol. I,III,IV,V,VIII,X The Architectural Press Ltd. London.

PAPER III - Light & Colors in Interior Design - 100PIDT03

UNIT I:

Light : Aspects of lighting - physical, psychological, economical aspects. Color of light, color rendition, daylight, artificial light, brightness. The visual environment - study of day lighting as a means of providing light within built spaces. Day light prediction tools. Methods of lightings: Principles of lighting, Lighting systems Artificial lighting: Visual perception and light, Basic artificial lighting sources, Light and visual effects, Light revealing architecture, Designing for artificial lighting quantity and quality, Integration with daylighting, Computer simulation programs that aid artificial lighting design.

UNIT II:

Light distribution, Intensity & diffusion, light & visual effect, lighting & conservation, lighting as a system. Lamping, beam spread, color effects, illumination and calculation, and light manipulation. Electricity, electrification systems, voltage, wiring, breakers, fuses, and switches . Lighting fixtures and fitting types; Output, efficiency & cost.

UNIT III:

Types of lamps - Incandescent, fluorescent & HID lamps, their lighting characteristics & applications. Illumination levels for various tasks and distribution of luminaries for better lighting in the interiors. Space-transforming light techniques in an apartment, retail store, or exhibition space. Design of lighting for various spaces like restaurants, hotel lobbies, institutes, halls, offices and transit facilities

UNIT IV:

Color- History of colors , effect of colors, color mixing , color dynamics, color planning in design. Various color systems - Muncell system, Ostwald system, DIN system, QAS system, color aid System - Color system in practice, color terminology , analysis of color wheel , color schemes, psychological - impact of colors, special color issues, mixed color effects , effect of texture.

UNIT V:

Use of colors in various functional contexts; color in historic interiors, color in current practice. Selection of colors for various spaces like restaurants, hotel lobbies, institutes, halls, offices and transit facilities .

PAPER IV - Building Construction for Interior Designers - 109PIDT04

UNIT I:

Elements of the building and building materials. Construction regulations, building regulations, Site security, material storage. Architectural symbols, Building methods, Bonds, Tools, Wall thickness, Openings. Foundation; types of foundations, objectives, Rcc footing, SBC of soil.

UNIT II:

Building systems -bearing walls, skeleton, shell construction, Constructional details for Bearing wall buildings (bricks and stones), partitions, reinforced brick work.

UNIT III:

Construction details for Lintels and arches, Vaults and domes. Scaffolding, Form work - Erection of form work for Rcc slab, Rcc columns, beams, Damp proofing, water proofing, anti-termite treatments, heat and sound insulation.

UNIT IV:

Expansion and settlement joints-purpose and function .Retaining walls, Stairs, -details with erection requirements, internal sanitary installations, Internal and external finishes.

UNIT V:

Construction equipments- Transportation vehicles, excavating and dozing machines, hoists, concrete mixing plants, batching plants. Gas supply, gas fires, electronic communications. Prefabrication of building elements, principles of jointing and principles of modular coordination

REFERENCE:

- Ramsey, Sleeper Architectural Graphic Standards, Wiley, Latest Ed.
- Mitchell, Building Construction, Batsford, Latest Ed.
- Building Construction- Punmia B.C.
- Building Construction- Varghese P.C.
- Building Construction- Susheel Kumar.
- McKay's, Building Construction, Volume One, Longmans, Latest Ed

REFERENCE:

1. Koenigsberger, et.al. (1974), "Manual of Tropical Housing and Building (Part-II)", Climate Design, Longman, London
2. Designing with light - Janet turner.
3. Mather, J.R., Climatology: Fundamentals and Applications, McGraw Hill Book Co.
4. Nayak J.K. et.al, (1999), Manual on Solar Passive Architecture, Solar Energy Center, Ministry of Non-Conventional Energy Sources, Government of India, New Delhi
5. Robbins, C.L., (1986), Daylighting: Design and Analysis, Van Nostrand Reinhold Co.
6. Egan, M.David, (1983), Concepts in Architectural Lighting, McGraw Hill Book Company
7. Jankowski Wanda Lighting ,1993,PCB International New York
8. Wilhide Elizabeth; Lighting, 1998,Ryland Peters and Small, London
9. Neisewand Nonie; Lighting Octopus, 1999, Publishing Group, London
10. Mos RogerW , Lighting for historic buildings, 1988,John Wiley, New York
11. Color in interior design - John.F. Pile
12. Color scheme bible - Anna Starmer.
13. Color Notation - Munsell.
14. Introduction to color - R.M. Evans.

PRACTICAL I - DRAWING TECHNIQUES - 109PIDP01

UNIT I: Drawing Equipment

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

UNIT II: Drawing Media

- Pencils
- Charcoal
- Pastels
- Conte Crayons
- Pen and Ink
- Markers and fibre tip pens
- Accessories
- Drawing with different media

UNIT III: Painting Media

- Water colour – gouache, Tempera and Acrylics
- Oils-paints, binders, diluents, mediums palettes and accessories
- Developing wall hangers with water colour and oil paints

UNIT IV: Techniques of drawing

- Line
- Points
- Tone
- Wash
- Texture
- Developing greeting cards using different techniques

UNIT V: Colour and composition

- Colour-language, tonal value, mixing, colour expression and colour contrast
- Composition-creating focal points
- Evaluating three famous artists work
- Submission of a record

REFERENCE:

1. Gair, A., 1999, Artists' Manual, Hopper Collins Publishers, London.
2. Holt, F.T. and Smith, S. 1997. The Artists Manual – Equipment, Materials, techniques, Grange books, London.
3. Malhotra and Malhotra, 2001, Drawing Techniques, Blue bird books, Delhi.
4. Monahan, P., Seligman, P. and Clouse, W. 2003, Art School – A Complete Painters Course, Chancellor Press, London.
5. Stanyer, P. 2003. The Complete Book of Drawing Techniques, Areturus Publishing Limited for book Mark Limited, Leicester.
6. Stewart and Walton, S. 2000, Paint Recipes for Surfaces, Anness Publishing Ltd., London.

SECOND YEAR

PAPER V - Furnishings of Interiors - 209PIDT01

UNIT I: Upholstery covering materials and other items. Process of upholstery. Cushioning materials- springs, jute, cotton, Foams, rubber. Miscellaneous items such as cane, jute leather straps, slip covers fasteners, etc Tapestries-basic properties, raw material-cotton, synthetic, woolen Rexene, leather, blended etc., Design, Dye, textures, sizes, weight, stitching, prices, care.,

UNIT II: Curtains:- Curtains & draperies, Types of window shapes Pleats:-Plain, French pleated etc., length of curtain. Cotton curtain, silk curtains, cotton-silk mixed, synthetic fiber curtain, woolen, synthetic & wool blended curtains, Flame resistant property, warp & weft texture, dyes, blends, weight, cost, care & maintenance, top treatment of windows- Pelmet, valances, swags & tails Hardware for Curtains:- Rods, Poles, tracks, tiebacks, etc.,

Other Furnishings:- Bed covers, cushion covers-shapes, sizes, types of fillings, designs stitching , Handlooms, mill made, Tufted, chandelier Khadi & other types both & printed Table linen, bath mats, Toilet mats etc.,

Fittings: Doors, Windows, Ventilator fittings in various materials, like MS, Brass, and Aluminum Plastic etc., Handles, bolts, Hinges, Springs, Locks, Latches etc.,

Bathroom: Sanitary Accessories like Washbasins WC's Bathtubs, Showers, Taps etc.

UNIT III: History of Furnitures

Significance of furniture, furniture periods, Classification of periods, period furniture, Oriental furniture, Historic & period furniture - History of furniture of ancient world - Ancient Egyptian furniture - Characteristics - Early Greek Furniture - study of Greek furniture. Influence of other countries on Greek Furniture, its importance, types of furniture items - Roman furniture Forms - furnishings - History of furniture in the middle ages: Early Medieval period, Characteristics of furniture - Romanesque-furniture, Gothic style of furniture - Evolution, Characteristics, items of furniture - Furniture Development in Italy - Pre Renaissance, Baroque - Characteristics & types of furniture - Characteristics of Neo- Classical - Furniture Development in France- Pre Renaissance, High Renaissance, its Characteristics - Characteristics of style Regency & rococo - Art Nouveau - Aesthetic revolution of 1870s, Great designers, French Provincial - Characteristics , Ranges & important items of furniture

UNIT IV: Furniture Development in England: of English furniture -Tudor, Early Stuart, Restoration, Early Georgian, Age of Great designers, Victorian styles - The Arts & Crafts movement - Wood based classification of furniture periods - History of the 20th Century Interior & Furniture :- Furniture Development in Germany. The Deutsche Werkbund, 1907, Bauhaus, Developments in Bauhaus, Contribution of Breuer & Mies - Furniture Development in France: Art Deco- types, Characteristics, items, Designers - Furniture Development in England, U.S.A etc.,

UNIT V: Indian Interior Design:

Influence of religious beliefs, Characteristics, decoration & ornamentation. Glossary of furniture terms: Related to furniture items, processes, finishes & furnishings.

REFERENCE: Interior Design - Ahmed A. Kasu

PAPER VI - ADVANCED BUILDING SERVICES - 209PIDT02

UNIT I:

Water supply & drainage:

1. Water supply requirements for buildings.
2. Types & sizes of pipes- water supply fittings to bathrooms, WC's , sinks, abth tubs, showers, urinals etc.
3. Types & sizes, functional & uses of drains & taps
4. Types & sizes of sanitary fixtures- WC's, sinks, bath tubs, bidets, etc,-

UNIT II:

Environmental science:

Sources of pollution, courses & effects of air pollution and water pollution, waste water treatment for industrial purposes, sources of air pollution & effects on buildings, plants, animals & humans, Role of civic & voluntary bodies in planning.

UNIT III:

Thermal Insulation;

Definition & purpose of insulation, General principles of thermal insulation, study of heat insulating materials, coefficient of thermal conductivity of different materials, method of thermal insulation for roofs, exposed walls, window, doors ventilators etc.

UNIT IV:

Acoustics:

Definition , properties of sound & basic definition, principals of acoustics, Acoustics Phenomena in enclosed spaces like studios , auditorium, conference halls, sound absorbents & their classifications, Effects, types & classifications of noise, construction measures of noise control & sound insulation for partitions, walls, floors, ceilings, window , doors etc.

UNIT V:

Lift and escalators:

Definition & components, types of lifts. Principles & working lifts, space requirements. Application location & arrangements of buildings. Safety regulations.

Air conditioning & ventilation

Definition of air-conditioning. Purpose & classification of air conditioning. System & applications of air conditioning. Definition of ventilation. Purpose & classification of ventilations.

Functions of ventilations. With graphical representation in plans

REFERENCE:

BUILDING CONSTRUCTION- B.C. PUNMIA, or RANGWALA or SUSHIL KUMAR
INTERIOR DESIGN- AHMED A. KASU
ENVIROMENTAL & SANITARY ENGINEERING - G.S.BIRDIE

PAPER VII - Residential Interior Space Design - 201PIDT03

UNIT I:

Introduction to designing residential interior spaces - Purpose of designing residential interior spaces - Considerations for designing residential interior spaces - big and small

UNIT II:

Criteria for planning a house - Orientation - Grouping of rooms - Circulation between and within the rooms - Flexibilities - Privacy - Roominess - Light and ventilation - Services - Aesthetics - Cost

UNIT III:

Factors contributing to selection of furniture and furnishing: climate, needs and preferences, availability of materials, cost etc

UNIT IV:

Ergonomic principles, its importance and application in designing - residential interior spaces with focus on special population

UNIT V:

Anthropometric data - Relation of human body measurements to furniture design and work station design - Study of body postures and its importance in designing work spaces

REFERENCE:

- . Alexander, N.S. and Mercourt, B. (1972): Designing Interior Environment, Havanovich Inc.
- . Ball V.K.: The Art of Interior Design; The Macmilan and Co., New York.
- . Chudley, R. (1978): Construction Technology; Vol. 1 to 4, ELBS and Longman Group Ltd.
- . Grandjean, E. (1978): Ergonomics of the Home, Taylor and Francis Ltd., London.
- . Kasu, Ahmed Abdullah, (1992): An introduction to art craft technique, science and profession of Interior design; Bombay: Iquara Publications.
- . Panero, J. and Zelink, M. (1979): Human Dimensions and Interiors Spaces; Whitney Library of Design, New York.
- . Steidle, R. and Braton, E.C. (1968): Work in the Home; John Wilen & sons, London.
- . Design 02, Residential Space I, Juzhu Kongjan
- . Design 09, Residential Space III, Juzhu Kongjan
- . Shenzen Nanhir Art Design Co./ed, RS 03 Residential Space III, Juzhu Kongjan
- . Thames & Hudson, Living Large in Small Spaces, Thames 7 Hudson
- . Aurora Cuito, New small homes, Loft Publications. S.I.
- . Ruth Pretty, The Ultimate Interior Designer, Ward Lock
- . Stephen Cratti, Making the Most of Small Spaces, Images Publishing Group. Pvt. Ltd
- . James Grayson Trulove, Studio Appartments, James Grayson Trulove

PAPER VIII - Commercial Interior Space Design - 209PIDT04

UNIT I:

Introduction to commercial interior space design. - Types of commercial interior spaces - Factors influencing designing of commercial interior spaces - Materials used in designing commercial interior Spaces

UNIT II:

Designing considerations for commercial spaces: Shops, Restaurants, Clinic, Offices, Library etc.

UNIT III:

Application of Ergonomic Principles in Designing commercial interior spaces.

UNIT IV: Study of different body postures adopted in carrying out activities and its relation in designing different work counters in various commercial spaces

UNIT V:

Importance and use of accessories, plants, indoor, landscapes in designing commercial interior spaces

REFERENCE:

1. Lea , Hea, Yon, Interior world no- 14, Beauty: Fashion shop, Hair Shop/ Wedding- Fashion Shop, Archiworld Co. ltd
2. Grant Camden Kirkpatrick, Shops and Boutiques.
3. Stafford Cliff, The Best Exhibition Stand DesIGN 2, Roto Vision Sa Switzerland
4. Vilma Barr Katherine Field, Stores:n Retail Display and Design, PBC International Inc.
5. Carles Broto, New Shop Design, Arian Mostaedi
6. Rolshoven Martin, Exhibition Design, Rockport Publications
7. Jeong JI Seong ed, Interior Design Bar and Restaurant, Jeong JI Seong
8. Nanuelli Sara, Design for Shopping New Retail Interiors, Laurence King Publishing Ltd.
9. Jeong JI Seong, Interior Design Boutique, hotel & spa (Motel & hotel) Jeong JI Seong.

PRACTICAL II - Interior Space Design - 269PIDP01

1. Interior Designing layout of small (60 -80 m2) residential interior space .
2. Interior Designing layout of large (100-150 m2) residential interior Spaces
3. Application of Ergonomics in Designing interiors for special population.
4. Interior designing layout of small (15 m2 to 20 m2) commercial spaces (shops, restaurants, clinic Etc.)
5. Interior designing layout of large (100 m2 to 250 m2) commercial spaces (banks, offices, Poly clinics etc.)