

- **Tosi, F.** (2019). *Design for Ergonomics*. Springer Nature.
- **Steidl, R.E. & Bratton, E.C.** (1968). *Work in the Home*. John Wiley & Sons Inc.
- **Stanton, N. A., Hedge, A., Brookhuis, K., Salas, E., & Hendrick, H. W.** (2004). *Handbook of Human Factors and Ergonomics Methods*. CRC Press

UNIT III

This unit focuses on the functional design of workplaces, work study techniques, indices of indoor comfort, man- machine interface, as well as the occupational safety and health at the workplace.

- **Chakrabarti, D.** (1997). *Indian Anthropometric Dimensions for Ergonomic Design Practice*. National Institute of Design
- **Hedge, A.** (2016). *Ergonomic Workplace Design for Health, Wellness, and Productivity*. CRC Press.
- **Stanton, N. A., Hedge, A., Brookhuis, K., Salas, E., & Hendrick, H. W.** (2004). *Handbook of Human Factors and Ergonomics Methods*. CRC Press

UNIT IV

This unit provides insight into the occupational safety and health at workplace.

- **Helander, M.** (2005). *A Guide to Human Factors and Ergonomics* (2nd ed.). CRC Press.
- **Shorrock, S., & Williams, C.** (2016). *Human Factors and Ergonomics in Practice: Improving System Performance and Human Well-Being in the Real World*. CRC Press
- **Stanton, N. A., Hedge, A., Brookhuis, K., Salas, E., & Hendrick, H. W.** (2004). *Handbook of Human Factors and Ergonomics Methods*. CRC Press

Suggested Readings

- **DeChiara, J., Panero, J., & Zelnik, M.** (2017). *Time-saver standards for interior design and space planning* (2nd ed.). McGraw-Hill Education.
- **Neufert, E., & Neufert, P.** (2019). *Architects' data* (5th ed.). John Wiley & Sons.

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Bachelors in Arts with With Community Science Category-V

DISCIPLINE SPECIFIC ELECTIVE COURSE – DSE-RMDA 6-HSC: ADVANCED INTERIOR DESIGN

CREDIT DISTRIBUTION, ELIGIBILITY, PRE-REQUISITES OF THE COURSE

Course Title & Code	Credits	Credit distribution of the course			Eligibility Criteria	Prerequisite of the course
		Lecture	Tutorial	Practical		
Advanced Interior Design	4	2	0	2	Class XII	Appeared in Introduction to Resource Management

Learning Objectives

- To gain knowledge of advanced interior design principles elements.
- To apply their knowledge to design functional and aesthetically pleasing interior spaces.
- To critically analyze and evaluate design solutions.

Learning Outcomes

The students would be able to:

- Comprehend the principles and practices of interior design.
- Gain knowledge and necessary skills to design functional, aesthetically pleasing, and sustainable interior spaces.
- Analyze and evaluate design solutions, considering essential interior design elements.
- Engage in creative thinking and problem-solving abilities in the context of interior design.
- Get into entry-level positions in the interior design industry.

THEORY (Credits 2; Hours 30)

UNIT I: Interiors and its Construction

8 Hours

This unit explores the essential elements of interior finishes and their construction, types, materials, and applications.

- Partition, paneling and false ceiling
- Construction of paneling
- Types of Paneling – full partition, part partition, construction of partitions
- Materials used for paneling-ply, glass, gypsum, P.O.P, partition types
- Types of flooring and their applications

UNIT II: Sanitary Ware and Lighting Systems in Interiors

8 Hours

This unit explores types, uses, layouts, materials, and finishes of sanitary ware, along with interior and exterior lighting types and fixtures.

- Sanitary ware:
 - Various types of sanitary ware and their use
 - Types of layouts – concepts in modern day toilet interiors
 - Materials & finishes – colour, texture & pattern.
- Lighting:
 - Different types of lighting for interiors and exteriors
 - Lighting fixtures

UNIT III: Basics of Furniture Construction and Furnishings

8 Hours

This unit explores the fundamental principles of furniture design and construction, encompassing measurement systems, furniture construction techniques, finishing processes and upholstery.

- Measurement systems
- Types of Furniture and its Construction
- Types of finishes and preparation of finishing specific to Furniture Materials
- Upholstery materials – Types and Selection

UNIT IV: Project Estimation

6 Hours

This unit explores the key aspects of project estimation including estimation, budgeting, proposals, tenders, record keeping and filing.

- Specifications of materials
- Estimating & budgeting: Types of cost estimations and preparing estimates and budgets
- Proposals & tenders
- Implementation of plan of work and meeting deadlines

PRACTICAL (Credits 2; Hours 60)

1. Floor plan of Studio apartment/ Bedroom/ Living room with elevation plan/ section plan of the same; Create 3D views of the plans (Manual/CAD)
 2. Preparation of a ceiling plan
 3. Preparation of Wall Paneling/ partition.
 4. Preparation of electrical layout plan.
 5. Preparation of plumbing layout plan indicating various fittings and fixtures of water supply and sanitary installations.
 6. Survey on concepts in modern day interiors – materials & finishes
- OR**
7. Create a mood board based on a style/ theme for interior designing of a selected area; create a setup for the same.
 8. Create a portfolio of the interior design plans made in class

Essential Readings

UNIT I

This unit focuses on the various elements of interior finishes, with emphasis on their construction, types, materials, and applications. Topics include partitions, paneling, false ceilings, and different types of flooring along with their uses.

- **Arora, S. P., & Bindra, S. P.** (2010). *Building Construction* (Vols. 1–2). Dhanpat Rai Publications.
- **Allen, E., & Iano, J.** (2019). *Fundamentals of Building Construction: Materials and Methods* (7th ed.). John Wiley & Sons.
- **Bureau of Indian Standards.** (2016). *National Building Code of India 2016 (NBC 2016)*.
- **Ching, F. D. K., & Binggeli, C.** (2018). *Interior Design Illustrated* (4th ed.). John Wiley & Sons.
- **Pile, J. F., & Gura, J.** (2014). *A History of Interior Design* (4th ed.). John Wiley & Sons.

UNIT II

This unit covers the different types, uses, layouts, materials, and finishes of sanitary ware. It also explains the fundamentals of lighting design, including lighting types, fixtures, and applications.

- **Arora, S. P., & Bindra, S. P.** (2010). *Building Construction* (Vols. 1–2) Dhanpat Rai & Sons.
- **Bureau of Indian Standards.** (2016). *NBC 2016*.

- **Ching, F. D. K., & Binggeli, C.** (2018). *Interior Design Illustrated* (4th ed.).
- **Karlen, M., & Benya, J.** (2017). *Lighting Design Basics* (3rd ed.). John Wiley & Sons.

UNIT III

This unit introduces the principles of furniture design and construction, with special emphasis on measurement systems and anthropometrics. It also covers furniture construction techniques, finishing processes, and upholstery to help students develop a thorough understanding of furniture design.

- **Arora, S. P., & Bindra, S. P.** (2010). *Building Construction* (Vols. 1–2). Dhanpat Rai & Sons
- **Allen, E., & Iano, J.** (2019). *Fundamentals of Building Construction*. John Wiley & Sons.
- **Panero, J., & Zelnik, M.** (1979). *Human Dimension and Interior Space: A source book of design reference standards*. Whitney Library of Design.
- **Nielson, K. J., & Taylor, D. A.** (2011). *Interior Construction and Detailing for Designers and Architects* (5th ed.). Fairchild Books.

UNIT IV

This unit discusses key aspects of project estimation, including cost estimation, budgeting, proposals, tenders, record keeping, and documentation. It also emphasizes planning, implementation, and scheduling of project work.

- **Arora, S. P., & Bindra, S. P.** (2010). *Building Construction* (Vols. 1–2). Dhanpat Rai & Sons
- **Allen, E., & Iano, J.** (2019). *Fundamentals of Building Construction*. John Wiley & Sons.
- **Bureau of Indian Standards.** (2016). *National building code of India 2016 (NBC 2016)*. Bureau of Indian Standards
- **Rangwala, S. C.** (2016). *Estimating, Costing and Valuation* (18th ed.) Charotar Publishing House.
- **Brook, M.** (2016). *Estimating and Tendering for Construction Work* (5th ed.). Routledge.

Suggested Readings

- **Pile, J.** (2012). *Interior Design: A Comprehensive Guide*. Harry N. Abrams, Inc.
- **Grimley, C., & Love, M.** (2018). *The Interior Design Reference & Specification Book Updated & Revised: Everything Interior Designers Need to Know Every Day*. Rockport Publishers Incorporated.
- **Diamonstein-Spielvogel, B., & Diamonstein, B.** (1982). *Interior Design, the New Freedom*. Rizzoli International Publications.
- **DeChiara, J., Panero, J., & Zelnik, M.** (2017). *Time-saver standards for interior design and space planning* (2nd ed.). McGraw-Hill Education.
- **Neufert, E., & Neufert, P.** (2019). *Architects' data* (5th ed.). John Wiley & Sons.

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