

CHHATTISGARH SWAMI VEVEKANAND TECHNICAL UNIVERSITY, BHILAI

Course of Study and Scheme of Examination of Diploma in

INTERIOR DECORATION& DESIGN

SEMESTER - IV

S No.	Subject Code	Board of study	Subject	Periods per week			Scheme of Examination					Total marks	Credit L+(T+P)/ 2
							Theory			Practical			
				L	T	P	ES E	CT	TA	ESE	TA		
1	235411 (35)	IDD	Furniture Design & Construction**	3	1	-	100	20	20	-	-	140	4
2	235412 (35)	IDD	Services-I	4	1	-	100	20	20	-	-	140	5
3	235413 (35)	IDD	Interior Construction**-II	3	1	-	100	20	20	-	-	140	4
4	235414 (35)	IDD	Interior Design*- II	4	1	-	100	20	20	-	-	140	5
5	235415 (35)	IDD	Estimating & Costing - IDD	3	1	-	100	20	20	-	-	140	4
6	235421 (35)	IDD	Furniture Design & Construction Lab			4	-	-	-	50	20	70	2
7	235422 (35)	IDD	Interior Construction-II Lab	-	-	4	-	-	-	50	30	80	2
8	235423 (35)	IDD	Interior Design-II Lab	-	-	3	-	-	-	50	30	80	2
9	235424 (35)	IDD	Estimating & Costing - IDD, Lab	-	-	3				50	20	70	2
				17	5	14	500	100	100	200	100	1000	30

L-Lecture, T-Tutorial, P-Practical, ESE-End semester exam, CT-Class Test, TA-Teachers
assessment.

*Theory paper duration 6Hrs.(3Hrs.+1/2 to 1 Hr.Break + 3Hrs.

**Theory paper duration 4Hrs

*** Professional Training will be carried out after IV th sem., in summer vacation. Evaluation will be done
in
5th semester only.

**CHHATTISGARH SWAMI VIVEKANAND TECHNICAL
UNIVERSITY, BHILAI**

- A) **SEMESTER** : IV
 B) **SUBJECT TITLE** : FURNITURE DESIGN & CONSTRUCTION
 C) **CODE** : 235411 (35)
 D) **BRANCH / DISCIPLINE** : INTERIOR DECORATION & DESIGN
 E) **RATIONALE** :

The study of different types of partitions used in different areas, staircase of different types, fixing details & construction of a staircase in a limited area / space. An aspect of compact planning.

Students should have through knowledge of staircase, Partition & Procedure of actual construction of furniture.

F) TEACHING AND EXAMINATION SCHEME:

Course Code	Periods / Week (In Hours) (Teaching Scheme)			Scheme of Examination						Credit L+(T+P)/2
	L	T	P	Theory			Practical		Total Marks	
				ESE	CT	TA	ESE	TA		
235411 (35)	3	1	-	100	20	20	-	-	140	4
235421 (35)	-	-	4	-	-	-	50	20	70	2

G) DISTRIBUTION OF MARKS AND HOURS:

Sl.No.	Chapter No.	Chapter Name	Hours	Marks
1	1	PARTITION-I	6	20
2	2	PARTITION-II	8	
3	3	STAIR	6	40
4	4	TYPES OF STAIR	6	
5	5	STRAIGHT FLIGHT STAIR	6	
6	6	DOGLEGGED STAIR	7	
7	7	MOVABLE FURNITURE	6	
8	8	UPHOLSTERED FURNITURE	6	40
9	9	BUILT-IN FURNITURE	6	
10	10	ORNAMENTAL FURNITURE	7	
		TOTAL	64	100

H) DETAILED CONTENTS:

Chapter -1- PARTITION-I

?? Low Height partition cum showcase of desired thickness to segregate the space & utilized both the faces of the partition in their respective areas with or without opening.

Chapter-2: PARTITION-II

?? Full height partition cum showcase of desired thickness to segregate the space & utilized both the faces of partition in their respective areas with opening or door.

Chapter -3- STAIR

?? Introduction Stair & its various parts like steps, flight etc.

Chapter -4- TYPES OF STAIR

?? Different types of stairs (Plan & Elevation only) Straight flight, Doglegged, Open well, Geometrical, Spiral, and Quarter turn etc.

Chapter -5- STRAIGHT FLIGHT STAIR

?? Latest finish Detail Joinery plus Plan, Elevation & Section of straight flight stair in timber wood & metal composite with latest finishes.

Chapter -6- DOGLEDGED STAIR

?? Latest finish Detail Joinery plus Plan, Elevation & Section of Doglegged stair in timber wood & metal composite with latest finishes.

Chapter -7-MOVABLE FURNITURE.

?? Movable Furniture.

?? Various types of movable furniture like Table, Chair (Executive, Office, and Computer) Dressing table etc.

Chapter -8- UPHOLSTERED FURNITURE

?? Upholstered furniture like sofa-set Lounge chairs etc.

Chapter -9- BUILT IN FURNITURE

?? Built in furniture like cupboard, wardrobe etc..

Chapter -10- ORNAMENTAL FURNITURE

Ornamental furniture like Mirror, Pedestals, Lamps, Pendent Light etc.

I) SUGGESTED INSTRUCTIONAL STRATEGIES:

?? Lecturer Method

?? Market/ Furniture workshop/ factory visit

?? Expert Lecture

?? Demonstration

J) SUGGESTED LEARNING RESOURCES

(a) Reference Books:

Sl.No.	Title	Author, Publisher, Edition & Year
1	Interior Design Principles And Practice	M. Pratap Rao, Standard Publishers Distributors, 1705-B, Nai Sarak, Delhi-110006, 2001
2	An Introduction To Art, Craft, Science Technique & Profession Of Interior Design Interior Design	Ahmed Abdullah Kasu, Iqaira Publ. Pvt. Ltd., Mumbai
3	Building Construction Vol.I,II,III,IV	Mckay, Orient Longman Kolkata.

(b) Magazines (Same as above subject Landscape VI th Sem.)

© Others

- (i) Video Programs
- (ii) Learning Packages

SUBJECT TITLE : FURNITURE DESIGN & CONSTRUCTION LAB

PRACTICAL CODE: 235421 (35)

HOURS: 64

LIST OF PRACTICAL / TUTORIALS:

- ?? Low height partition cum showcase Details, Plan, Elevation, Section, Views
- ?? Full height partition cum showcase Details, Plan, Elevation, Section, Views.
- ?? Different types of stair Plan & Elevations Only..
- ?? Straight Flight Staircase Details, Plan, Elevation, Section, Views
- ?? Doglegged Stair Details, Plan, Elevation, Section, Views
- ?? Movable Furniture Details, Plan, Elevation, Section, Views
- ?? Upholstered furniture Details, Plan, Elevation, Section, Views
- ?? Built in furniture Details, Plan, Elevation, Section, Views
- ?? Ornamental furniture Details, Plan, Elevation, Section, Views

**CHHATTISGARH SWAMI VIVEKANAND TECHNICAL
UNIVERSITY, BHILAI**

- A) **SEMESTER** : IV
 B) **SUBJECT TITLE** : SERVICES-I
 C) **CODE** : 235412 (35)
 D) **BRANCH / DISCIPLINE** : INTERIOR DECORATION & DESIGN
 E) **RATIONALE** :

Human life and its comforts are basically dependent on the services he has at home and at the place of his work. Present day experiences, number of technological and functional advances in designing, laying and upkeep of services. This course provides a basic knowledge about the building services in all its related areas. The emphasis is laid on its smooth employment in all types of building so that life is at ease. The main objective of this subject is to develop different the following skill and knowledge:

- a) Gain knowledge about different types of services.
- b) Prepare a framework for layout of services.
- c) Develop confidence in design consideration.
- d) Achieve skill in presenting services layout.
- e) Modify the existing services pattern and modernise it.

F) TEACHING AND EXAMINATION SCHEME:

Course Code	Periods / Week (In Hours) (Teaching Scheme)			Scheme of Examination						Credit L+(T+P)/2
	L	T	P	Theory			Practical		Total Marks	
				ESE	CT	TA	ESE	TA		
235412 (35)	4	1	-	100	20	20	-	-	140	5

G) DISTRIBUTION OF MARKS AND HOURS:

SL NO.	CHAPTER ON.	CHAPTER NAME	HOURS	MARKS
1	1	INTRODUCTION	16	20
2	2	WATER SUPPLY	16	20
3	3	PLUMBING FIXTURES	16	20
4	4	SANITARY SERVICES	16	20
5	5	SANITARY FIXTURES AND FITTINGS	16	20
TOTAL			80	100

H) DETAILED COURSE CONTENTS:

Chapter-1- INTRODUCTION

- ?? Definition
- ?? Different types of services for residential and commercial buildings.

Chapter-2-WATER SUPPLY

- ?? Different types of water supply
- ?? Pipes and its types
- ?? Fixing method.
- ?? Open and concealed joints in pipes.

Chapter-3-PLUMBING FIXTURES

- ?? Taps.
- ?? Cisterns.
- ?? Shower systems.
- ?? Hot and cold water supply systems.
- ?? Bathroom accessories.

Chapter-4- SANITARY SERVICES

- ?? Waste water disposal.
- ?? Types of sanitary pipes.
- ?? Fixing detail.
- ?? Precaution for laying pipes.

Chapter-5- SANITARY FIXTURES AND FITTINGS

- ?? Different type of traps (P, Q, S, intercepting. Gully trap, Nahani trap).
- ?? Washbasins.
- ?? Sink
- ?? Urinals and bidet.

I) SUGGESTED INSTRUCTIONAL STRATEGIES:

- ?? Lecture Method
- ?? Site visits.
 - Collection of catalogues.
 - Market price of accessories.
- ?? Demonstration
 - Lecture can be demonstrated using slides , projectors , and , other recent technologies .

J) SUGGESTED LEARNING RESOURCES.

(a)Reference Books:

SL No.	Title	Author, publisher, edition & year
1.	Water supply and sanitary engineering	S.C.Rangwala ,Charottor. Pub, House, opposite amul dairy,court road,Anand -388001
2.	Building construction	Sushil kumar, Standard publishers & distributors, 1705-B, nai sarak, Delhi.
3.	Building construction	S.C.Rangwala, Charottor. Pub, House, opposite amul dairy,court road,Anand -388001
4.	Water supply and sanitary engineering	G.S.Birdie, J.S. Birdie, Danpat Rai publishing company private ltd,4748/23, Ansari road, Daryaganj, New Delhi.-110002
5	Water supply and sanitary engineering	Gurcharan Singh, Standard publishers & distributors, 1705-B,nai sarak, Delhi.
6	Building construction	B.C.Punamia, Laxmi Publication Pvt ltd ,New Delhi.(fifth ed.-1997)

(b) Others

(i)Video Programs

(ii)Learning Packages

**CHHATTISGARH SWAMI VIVEKANAND TECHNICAL
UNIVERSITY, BHILAI**

- A) **SEMESTER** : IV
 B) **SUBJECT TITLE** : INTERIOR CONSTRUCTION-II
 C) **CODE** : 235413 (35)
 D) **BRANCH / DISCIPLINE** : INTERIOR DECORATION & DESIGN
 E) **RATIONALE** :

The course content aims at providing knowledge for the constructional aspects of interior design that is how the designs can actually be executed with details. The subject intends to develop the skill of construction techniques and presentation of these techniques in making of partition, Doors, Windows, floors etc.

F) TEACHING AND EXAMINATION SCHEME:

Course Code	Periods / Week (In Hours) (Teaching Scheme)			Scheme of Examination						Credit L+(T+P)/2
	L	T	P	Theory			Practical		Total Marks	
				ESE	CT	TA	ESE	TA		
235413 (35)	3	1	-	100	20	20	-	-	140	4
235422 (35)	-	-	4	-	-	-	50	30	80	2

G) DISTRIBUTION OF MARKS AND HOURS:

Sl.No.	Chapter No.	Chapter Name	Hours	Marks
1	1	WALL SURFACES FINISHES	10	15
2	2	PARTITION-I	10	15
3	3	PARTITION-II	10	15
4	4	TIMBER FLOOR	10	15
5	5	FALSE CEILING	12	20
6	6	SHOP FRONT	12	20
			64	100

H) DETAILED CONTENTS:

Chapter -1- WALL SURFACE FINISHES

?? Different types of wall panelling.

Chapter -2-PARTITION-I

?? Low height partition, fully panelled using timber frame with opening.

?? Full height partition, fully / partially glazed using timber frame with door.

Complete with plan, elevation, section, joinery & fixing details.

Chapter -3- PARTITION-II

?? Low height partition, fully panelled using Aluminium section with opening.

?? Full height partition, fully / partially glazed using Aluminium section with door.

Complete with plan, elevation, section, & fixing details.

Chapter -4- TIMBER FLOOR

?? Introduction to single, Double & Triple timber floor.

?? Complete constructional plus joinery detail with plan, elevation & section of single floor in timber.

Chapter -5- FALSE CEILING

?? Introduction

?? Complete constructional plus joinery detail with plan, elevation & section of false ceiling.

Chapter -6-SHOP FRONT

?? Introduction.

?? Complete constructional plus joinery detail with plan, elevation & section of Shop front.

D) SUGGESTED INSTRUCTIONAL STRATEGIES:

?? Lecturer Method

?? Lecturer with media OHP, LCD

?? Expert Lecture

?? Site visit (Under construction)

?? Case study

?? Market survey for collection of catalogues & samples.

J) SUGGESTED LEARNING RESOURCES

(a) Reference Books:

Sl.No.	Title	Author, Publisher, Edition & Year
1	Building Construction Vol.I,II,III,IV	Mckay, Orient long man Kolkota.
2	A Text Book of Building Construction	S.P.Arora & Bindra, Dhanpat Rai & Sons, New Delhi.
3	Building Drawing	Shah, Kale, Patki, Tata McGraw Hills
4	Building Construction	Sushil Kumar, Standard Publication Distributors, 1705, B, Nai Sadak, Delhi
5	Building Construction	S.C.Rangwala, Charotar Publications, ANAND
6	Building Construction	B.C.Punmia, Laxmi Publications, New Delhi

(a) Others

?? Video Programs

?? Learning Packages

SUBJECT TITLE: INTERIOR CONSTRUCTION-II, LAB

PRACTICAL CODE: 235422 (35)

HOURS: 64

LIST OF PRACTICAL / TUTORIALS:

Plan, Section & Elevations of

- ?? Wooden panelling
- ?? Low height fully partition using timber frame with opening.
- ?? Full height fully / Partially panelled partition using timber frame with door.
- ?? Low height fully partition using aluminium section frame with opening.
- ?? Full height fully / Partially panelled partition using aluminium section frame with door.
- ?? Complete constructional plus joinery detail single floor in timber.
- ?? Complete constructional plus joinery detail of false ceiling
- ?? Complete constructional plus joinery detail Shop front.

**CHHATTISGARH SWAMI VIVEKANAND TECHNICAL
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- A) **SEMESTER** : IV
 B) **SUBJECT TITLE** : INTERIOR DESIGN-II
 C) **CODE** : 235414 (35)
 D) **BRANCH / DISCIPLINE** : INTERIOR DECORATION & DESIGN
 E) **RATIONALE** :

This subject intends to equip the students with concept and principles of advanced design pertaining to interiors. It will develop their skill in advanced design of various interior space like toilets, small office space, ice cream parlour, clinic etc. with due consideration to the environmental conditions and with special emphasis on the application of colours in these spaces.

F) TEACHING AND EXAMINATION SCHEME:

Exam. Time: 6 hours

Course Code	Periods / Week (In Hours) (Teaching Scheme)			Scheme of Examination						Credit L+(T+P)/2
	L	T	P	Theory			Practical		Total Marks	
				ESE	CT	TA	ESE	TA		
235414 (35)	4	1	-	100	20	20	-	-	140	5
235423 (35)	-	-	3	-	-	-	50	30	80	2

G) DISTRIBUTION OF MARKS AND HOURS:

Sl.No.	Chapter No.	Chapter Name	Hours	Marks
1	1	COLOUR	8	10
2	2*	BASIC DESIGN FOR INTERIOR SPACE LIKE (I)SMALL RESTAURANT (II)SMALL SHOP	50	60
3	3	BASIC DESIGN FOR TOILET	11	15
4	4	PRESENTATION	11	15
		TOTAL	80	100

* In examination any ONE interior space will be asked

H) DETAILED CONTENTS:

Chapter -1- COLOUR

- ?? Colour
- ?? Role of colour in interior
- ?? Scientific use of colour in different interior space like living units (i.e. Bed room, Living room, Kitchen, Toilets, Dining, Drawing), Hospital, Shops, Offices etc.

Chapter -2- BASIC DESIGN FOR INTERIOR SPACE

- ?? Design for small interior space like Small restaurant (Ice cream parlour, Fast food centre, Restaurant) Small Shop (Article, Stationary, Internet zone etc) with environment consideration..

Chapter -3- BASIC DESIGN FOR TOILET

- ?? Basic design for toilet with environment consideration

Chapter-4-PRESENTATION

- ?? Presentation Drawing for above small interior space like Small restaurant (Ice cream parlour, Fast food centre, Restaurant) Small Shop (Article, Stationary, Internet zone etc) Perspective or any other view and its presentation in suitable media & techniques.

I) SUGGESTED INSTRUCTIONAL STRATEGIES:

- ?? Lecturer Method
- ?? Lecturer with media OHP, LCD
- ?? Expert Lecture
- ?? Demonstration

J) SUGGESTED LEARNING RESOURCES

(a) Reference Books:

Sl.No.	Title	Author, Publisher, Edition & Year
1	Interior Design Principles and Practice	M. Pratap Rao, Standard Publishers Distributors, 1705-B, Nai Sarak, Delhi-110006, 2001
2	An Introduction To Art, Craft, Science Technique & Profession Of Interior Design Interior Design	Ahmed Abdullah Kasu, Iqaira Publ. Pvt. Ltd., Mumbai
3	Time saver standard for Interior design & space planning	Joseph De Chira, Jullius Panero, Martin Zelnik, McGraw Hill, Newyork, 1991
4	Ernst Neufert Architects' Data	Editor John Thackara, @1980 by Black well sciences ltd. Osney Mead Oxford OX2 OEL New International edition. 1986.

(b) Magazines (Same as above subject Interior Design-I, III sem)

(c) Others

- (i) Video Programs
- (ii) Learning Packages
- (iii) Complete Computer Unit.

SUBJECT TITLE: INTERIOR DESIGN-II LAB

PRACTICAL CODE: 235423 (35)

HOURS: 48

LIST OF PRACTICAL / TUTORIALS:

- ?? Suitable colours for various interior space
- ?? Basic design for the interior space (Plan, Elevation, Section, only) Design for small interior space like Small restaurant (Ice cream parlour, Fast food centre, Restaurant) Small Shop (Article, Stationary, Internet zone etc) with environment consideration..
- ?? Basic design for toilet (Plan Sectional elevation only)
- ?? Presentation on suitable media & Techniques interior perspective view or interested detail. Of any one from above.

**CHHATTISGARH SWAMI VIVEKANAND TECHNICAL
UNIVERSITY, BHILAI**

- A) **SEMESTER** : IV
 B) **SUBJECT TITLE** : ESTIMATING AND COSTING-IDD
 C) **CODE** : 235415 (35)
 D) **BRANCH / DISCIPLINE** : INTERIOR DECORATION & DESIGN
 E) **RATIONALE** :

All economic activities have their roots in estimating, so also interior design. The course aims at providing necessary input on current practices of estimating and costing. The emphasis is also laid on using computer for estimation. The student can develop analytical ability through the contents of course. The students will be able to:-

- 1) Appreciate the need and importance of the estimating and costing.
- 2) Acquire ability to prepare estimate.
- 3) Obtain insight into the contract and execution documents.

F) TEACHING AND EXAMINATION SCHEME:

Course Code	Periods / Week (In Hours) (Teaching Scheme)			Scheme of Examination						Credit L+(T+P)/2
	L	T	P	Theory			Practical		Total Marks	
				ESE	CT	TA	ESE	TA		
235415 (35)	3	1	-	100	20	20	-	-	140	4
235424 (35)	-	-	3	-	-		50	20	70	2

G) DISTRIBUTION OF MARKS AND HOURS:

S NO.	CHAPTER NO.	CHAPTER NAME	HOURS	MARKS
1	1	INTRODUCTION	4	5
2	2	ESTIMATION TECHNIQUES	8	5
3	3	ANALYSIS OF RATES	4	5
4	4	MODE OF MEASUREMENT	4	5
5	5	ESTIMATE OF FURNITURE	8	15
6	6	ESTIMATE OF DIFFERENT TYPES OF FALSE CEILING	8	15
7	7	ESTIMATE OF FLOORING	8	15
8	8	ESTIMATE OF DOORS & WINDOWS	8	15
9	9	ESTIMATE OF WALL FINISHING	8	15
10	10	ESTIMATE OF DIFFERENT DECORATIVE ITEMS	4	5
TOTAL			64	100

I) DETAILED COURSE CONTENTS:

Chapter-1- INTRODUCTION

- ?? Definition
- ?? Types of estimate

Chapter-2-ESTIMATION TECHNIQUES

- ?? Method of finding out quantities for different types of works
- ?? Preparation of abstract sheet

Chapter-3-ANALYSIS OF RATES

- ?? Rate analysis for different items of work i.e. floor finish , wall finish, furniture etc.
- ?? CSR (Current Schedule of Rates)
- ?? Survey of market rates

Chapter-4- MODE OF MEASUREMENT

- ?? How to measure quantities
- ?? Different standard mode of measurement

Chapter-5- ESTIMATE OF FURNITURE

- ?? Estimation of cost of the given furniture

Chapter-6- ESTIMATE OF DIFFERENT TYPES OF FALSE CEILING

- ?? Estimation of different types of false ceiling

Chapter-7- ESTIMATE OF FLOORING

- ?? Estimate of Flooring using different materials.

Chapter-8-ESTIMATE OF DOORS AND WINDOWS

- ?? Estimate of doors and windows made with different types of material

Chapter-9-ESTIMATE OF WALL FINISHING

- ?? Estimate of different wall finishes

Chapter-10-ESTIMATE OF DIFFERENT DECORATIVE ITEMS

- ?? Estimate of different decorative items

II) SUGGESTED INSTRUCTIONAL STRATEGIES:

- ?? Lecture Method
- ?? Site visits
 - 1) Collection of catalogues
 - 2) Collection of market price of products
- ?? Demonstration
 - (i) Lecture can be demonstrated through OHP,LCD etc.
 - (ii) Estimate can be made using computer.

J) SUGGESTED LEARNING RESOURCES.

(a)Reference Books:

SL NO.	TITLE	AUTHOR	PUBLISHER,EDITION& YEAR
1.	Estimating and costing in Civil Engineering Theory + Practice	B.N.Dutta	UPS Publishers Distribution Ltd., New Delhi
2	A text book of Estimating ,costing and valuation	Gurcharan Singh & Jagdish Singh	Standard publishers & distributors, 1705-B, Nai Sarak, Delhi.(2 nd Ed.-1998)

(d) Others

- (i) Video Programs
- (ii) Learning Packages
- (iii) Complete Computer Unit.

SUBJECT TITLE: ESTIMATING AND COSTING-IDD LAB

PRACTICAL CODE: 235424 (35)

HOURS: 48

LIST OF PRACTICAL / TUTORIALS:

- ?? Estimate of different types of false ceiling
- ?? Estimate of Flooring.
- ?? Estimate of Doors & Windows.
- ?? Estimate of Wall Finishes.
- ?? Estimate of any decorative items