

CURRICULUM FOR THREE YEAR  
(SIX SEMESTER)  
DIPLOMA COURSE IN

=====  
: INTERIOR DECORATION & DESIGN :  
: Effective from Session :  
=====

=====  
UNDER DEVELOPMENT  
=====

=====  
:Semester System :  
=====

Prepared By

=====  
: Curriculum Development Cell :  
=====

INSTITUTE OF RESEARCH DEVELOPMENT  
& TRAINING, U.P., KANPUR

APPROVED BY

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: BOARD OF TECHNICAL EDUCATION :  
: U.P. LUCKNOW, :  
:CORRECTED AS SYLLABUS COMMITTEE OF:  
: B.T.E. MEETING HELD ON 02.06.2015:  
=====

Corrected and Approved By B.T.E. on Dated 02.06.2015

STUDY AND EVALUATION SCHEME FOR  
THREE YEARS (SIX SEMESTER) DIPLOMA COURSE IN INTERIOR DESIGN & DECORATION  
(Effective From )

I SEMESTER

S T U D Y						Scheme of Examination									
P e r i o d s P e r W e e k						T h e o r y				P r a c t i c a l			G r a n d		
S U B J E C T						E x a m i n a t i o n		S e s s .	T o t a l	E x a m i n a t i o n		S e s s .	T o t a l	T o t a l	
L e c t u r e	T u t o r i a l	D r a w i n g	L a b	W o r k S h o p	T o t a l	D u r .	M a r k s	M a r k s	M a r k s	D u r .	M a r k s	M a r k s	M a r k s	M a r k s	
5	-	-	3	-	8	1.1 Professional Communication	2.5	50	20	70	3	20	10	30	100
3	-	10	-	-	13	1.2 Basic Design and Sketching	6.0	100	60	160	-	-	-	-	160
-	-	10	-	-	10	1.3 Graphic Presentation	6.0	100	60	160	-	-	-	-	160
7	-	-	-	-	7	1.4 History of Interior and Furniture	2.5	50	20	70	-	-	-	-	70
15	-	20	3	-	38	<-----TOTAL----->	-	300	160	460	-	20	10	30	490
						Games/NCC/Social and Cultural Activity/Community Development + Discipline (15 + 10)							25		
						Aggregate							515		

II SEMESTER

8	-	7	-	-	15	2.1 Building Construction & Materials-I	4.0	100	60	160	-	-	-	-	160
-	-	20	-	-	20	2.2 Interior Design-I	12.0	150	60	210	-	-	-	-	210
2	-	-	5	-	7	2.3 Introduction To Computer	-	-	-	-	3	60	30	90	90
10	-	27	5	-	42	<-----TOTAL----->	-	250	120	370	-	60	30	90	460
						Games/NCC/Social and Cultural Activity/Community Development + Discipline (15 + 10)							25		
						Aggregate							485		

- NOTE:-
- (1) Each period will be of 50 minutes duration.
  - (2) Each session will be of 16 weeks.
  - (3) Effective teaching will be at least 14 weeks.
  - (4) Remaining periods will be utilised for revision etc.
  - (5) Field visit and extension lectures are to be organised and managed will in advance at institute level as per need
  - (6) For community development work see annexure-1

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III SEMESTER

S T U D Y						Scheme of Examination											
P e r i o d s P e r W e e k						T h e o r y				P r a c t i c a l				G r a n d T o t a l			
S U B J E C T						E x a m i n a t i o n		S e s s .		T o t a l		E x a m i n a t i o n			S e s s .		T o t a l
L e c .	T u t .	D r .	L a b .	W o r k S h o p	T o t a l	D u r .	M a r k s	M a r k s	M a r k s	D u r .	M a r k s	M a r k s	M a r k s	M a r k s	M a r k s	M a r k s	M a r k s
7	-	-	-	-	7	2.5	50	20	70	--	--	--	--	--	--	--	70
5	-	-	-	-	5	2.5	50	20	70	--	--	--	--	--	--	--	70
3	-	10	-	-	13	6.0	100	40	140	--	--	--	--	--	--	--	140
-	-	-	-	10	10	--	--	--	--	4	60	30	90	90	90	90	90
15	-	10	-	10	35	<-----TOTAL----->	200	80	280	--	60	30	90	90	90	90	370
Games/NCC/Social and Cultural Activity/Community Development + Discipline												(15 + 10)	25	25	25		
												Aggregate	395	395	395		

IV SEMESTER

-	-	20	-	-	20	4.1 Interior Design-II	12.0	100	100	200	--	--	--	--	--	--	200
2	-	8	-	-	10	4.2 Building Construction and Materials-II	4.0	100	40	140	--	--	--	--	--	--	140
3	-	-	6	-	9	4.3 Product Design	6.0	100	40	140	--	--	--	--	--	--	140
-	-	-	8	-	8	4.4 Computer Aided Design-I	--	--	--	--	3	60	40	100	100	100	100
5	-	28	14	-	47	<-----TOTAL----->	300	180	480	--	60	40	100	100	100	100	580
Games/NCC/Social and Cultural Activity/Community Development + Discipline												(15 + 10)	25	25	25		
												Aggregate	605	605	605		

- NOTE:-
- (1) Each period will be of 50 minutes duration.
  - (2) Each session will be of 16 weeks.
  - (3) Effective teaching will be at least 14 weeks.
  - (4) Remaining periods will be utilised for revision etc.
  - (5) 4 weeks structured and supervised, branch specific, task oriented industrial/field exposure to be organised after IV Sem. Student will submit a report. There will be 70 marks for this exposure. These marks will be awarded by project examiner in the VI Semester. (Examination marks : 50, Sess. marks : 20 ).
  - (6) Field visit and extension lectures are to be organised and managed well in advance at institute level as per need.

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(Effective From )

V SEMESTER

S T U D Y										Scheme of Examination								
P e r i o d s P e r W e e k										T h e o r y			P r a c t i c a l			G r a d		
S U B J E C T										Examination	Sess.	Total	Examination	Sess.	Total	Tot-		
Lec.	Tut.	Dr.	Lab.	Work	Tot.					Dur.	Marks	Marks	Marks	Dur.	Marks	Marks	al	
al	ori	a/	Shop	Shop	al													
u.	al	St																
5	-	8	-	-	13	5.1 Building Construction & Materials-III	4.0	100	60	160	--	--	--	--	--	--	160	
-	-	-	12	-	12	5.2 Display	2.5	50	20	70	-	--	--	--	--	--	70	
6	-	-	-	-	6	5.3 Estimating, Costing & Specification	2.5	50	20	70	-	--	--	--	--	--	70	
-	-	-	8	-	8	5.4 Computer Aided Design-II	-	-	-	-	3	60	40	100	100	100		
11	-	8	20	-	39	<-----TOTAL----->	--	200	100	300	--	60	40	100	100	400		
															Games/NCC/Social and Cultural Activity/Community Development + Discipline		(15 + 10)	25
															Aggregate			425

VI SEMESTER

4	-	-	-	-	4	6.1 Environmental Education * & Disaster Management	2.5	50	--	--	-	--	--	--	--	--	--	
-	-	24	-	-	24	6.2 Interior Design-III *	18.0	100	150	250	--	--	--	--	--	--	250	
6	2	-	-	-	8	6.3 Management, Accounts & Professional Practice	2.5	50	20	70	-	--	--	--	--	--	70	
-	-	-	10	-	10	6.4 Project -	--	--	--	--	Viva	100	50	150	150	150		
-	-	-	-	-	-	6.5. Field Exposure(Ind. Trg.) Done in IV Sem.	--	--	--	--	Viva	50	30	80	80	80		
10	2	24	10	-	46	<-----TOTAL----->	--	150	170	320	--	150	80	230	230	550		
															Games/NCC/Social and Cultural Activity/Community Development + Discipline		(15 + 10)	25
															Aggregate			575
															30% Carry Over of I & II			300
															70% Carry Over of III & IV			700
															100% Carry Over of V & VI			1000
																		2000

\* Interior Design -III Ist day 8 hours, Half hour break after 4 hour) next 2 sitting will be of 5 hour each day without break.

- NOTE:-
- (1) Each period will be of 50 minutes duration.
  - (2) Each session will be of 16 weeks.
  - (3) Effective teaching will be at least 14 weeks.
  - (4) Remaining periods will be utilised for revision etc.
  - (5) Field visit and extension lectures are to be organised and managed well in advance at institute level as per need.
  - (6) (\*) It is compulsory to appear & to pass in examination, But marks will not be included for division and percentage of obtained marks.

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MAIN FEATURES OF THE COURSE

TITLE OF THE COURSE : THREE YEAR DIPLOMA IN INTERIOR  
DESIGN & DECORATION.

DURATION OF THE COURSE : THREE YEAR (Six Semester)

PATTERN : SEMESTER SYSTEM

INTAKE : 60

TYPE OF THE COURSE : FULL TIME INSTITUTIONAL

ENTRY QUALIFICATION : Passed High School With 35% Marks

MODE OF ADMISSION : 1. THROUGH JOINT ENTRANCE EXAMINATION

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## PROLOGUE TO REVISION

A three year diploma course in "Interior Decoration and Design" was designed and developed by the Board of Technical Education, U. P., Lucknow in 1989. The aim of the course was to develop interior design professionals in to meet the expected want of such professionals in the market in the coming years. After the lapse of about seven years in today's economic scenario the rising incomes and expectations in the wake of rapid urbanisation have created a crying need for aesthetically pleasing, efficient interiors which also incorporate technical advances in fields such as air conditioning, purpose oriented lighting accoustics, etc. However there is a big vacuum of trained professionals in the field who can satisfy such a demand within reasonable cost. This demand is bound to increase rapidly in the coming years. Also there has been great change in the perception of modern living by coming up of new technologies and materials. The course contents of the earlier syllabus remained no more consistent with need of the time, hence revision of the course become imperative. Keeping the aims and objectives of the curriculum same as they were intended before, the course content has been suitably reset, reoriented and enriched in many ways to suit the present needs. The note worthy characteristics of the revised syllabus are as follows.

1. In first year level a new paper "Professional Communication" has been introduced. It is to make the students able to deal with day todays communication of todays business life.
2. In second year of the course a paper "Introduction To Computer" has been introduced. Computer has entered in every walk of todays life. It is imperative to intorduce interior decorators and designers with the computer, so that, if they wish to, they should be able to make use of computer in

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their professional life.

3. Two paper "Appreciation of Architectural Design-I & II" in the previous course are clubbed to make accomodation for new papers, and so the new paper has been suitably named "History of Interior & Furniture" and placed in First year of the course. The contents of the papers are suitably remodelled.
4. Also the paper "Furnishing and Fittings" & "Building Material" in first year of the old course are clubbed so the new paper has been named "Building Construction & Materials" be fitting with proper change in content.
5. "Display - I & II" two papers are clubbed together to place them in final year with common name "Display". The course content has been revised and enriched carefully to meat the need of the time.
6. Workshop - II & III are combined together place them in second year with common name "Workshop/Fabrication".

Besides above the subject matter of the curriculum suitably rearranged logically and enriched when and where it has been felt so. With all these changes it is hoped that the new course will prove conducive to student for employment point of view.

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LIST OF EXPERTS (Workshop Participants)

Workshop held at I.R.D.T., Kanpur on 21-4-15 The experts whose deliberations helped in Semestre System of this syllabus are honourably named below.

1. Sri Vikas Kulsharstra      Lecturer      G.G.P., Lucknow
2. Sri Subodh Jalota      Lecturer(IDD)      G.G.P.,Allahabad
3. Km. Kalpana Devi      Assistant Prof.      I.R.D.T.,UP,Kanpur

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#### PREFACE

Recently, Secretary ,Technical education, U.P. had Suggested that some new courses at Diploma level should be introduced which have good job orientation and ready market. "Interior Decoration and Design" is one such innovative course which offers excellent opportunities for self employment as well as in commercial establishment. It was felt that women have natural talent and temperamentally better equipped to take up Interior Decoration, therefore,the above course is being introduced first time in Girls Polytechnics.

Four workshops of experts were organised to develop and standardise the curriculum and efforts have been made to keep the course cotent updated. It is students who seek a carier in Interior Decoration and Disign.

We are grateful to Smt. l.M.Vas, Special Secretary, Technical Education for the encouragment and support given by her. We thank all experts who came to take part in the deliberations of workshop held to envolve the course Design. Finally, we are indebted to Shri Gurdeep Singh, Secertary, Board of Technical Education for his guidance and help in caryying out this project.

Lucknow.  
Dated 13th July, 1989.

Smt. Sushma Gaur,  
Asstt.Professor,  
Incharge,  
Curriculum Development Cell.

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## I SEMESTER

## 1.1 PROFESSIONAL COMMUNICATION

[ Common to All Engineering/Non Engineering Courses]

L	T	P
5	-	3

## Rationale:

Communication forms an important activity of diploma holder. It is essential that he/she should be in a position to communicate in writing and orally with superiors, equals and subordinates. This subject aims at providing working knowledge of languages like Hindi and English so as to train the students in the art of communication. It is suggested that maximum attention should be given in developing Communication abilities in the students while imparting instructions by giving maximum emphasis on practice.

Sr.No.	Units	Coverage time		
		L	T	P
1.	Introduction to communication methods meaning, channels & media written and verbal.	5	-	-
2.	Development of comprehension of English & Hindi through study of text material & language exercises.	10	-	-
3.	Development of expression through A. Letters (English & Hindi) B. Report writing (English) Note making and minutes writing	10 10	-	-
4.	Paragraph writing, Essay writing, Proposal writing	10	-	-
5.	Composition	10	-	-
6.	Remedial Grammar & Vocabulary Building	15	-	-
		70	-	42

## 1. PART I : COMMUNICATION IN ENGLISH (40 Marks)

1.1 Concept of communication, importance of effective communication, types of communication, formal, informal, verbal and nonverbal, spoken and written. Techniques of communication, Listening, reading, writing and speaking, Barriers in communication, Modern tools of communication- Fax, e-mail, Telephone, telegram, etc.

1.2 Technical communication Vs. General Communication : Development of comprehension and knowledge of English through the study of text material and language exercises based on the prescribed text book of English.

1.3 Development of expression through:

1.3.1 Paragraph writing, Essay writing, Proposal writing.

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1.3.2 Business and personal correspondence (Letters) :  
Kinds of letters:-  
Official, demi-offical, unofficial , for reply or in  
reply, quotation, tender and order giving letters.  
Application for a job, Resume.

1.3.3 Report writing and Note making and minutes writing.

1.4 Functional Grammer : Study of sentences and parts of speech  
(word class), Preposition, Verb, Articles, Abbreviations.

1.5 Vocabulary Building : Homophones, One word substitution,  
Idioms and Phrases.

1.6 Composition on narrative, descriptive, imaginative,  
argumentative, discussion and factual topics.

2. PART II : COMMUNICATION IN HINDI (10 Marks)

2.1 Development of comprehension and knowledge of Hindi usage  
through rapid reading and language exercises based on  
prescribed text material developed by IRDT.

2.2 Development of expression through ;

Letter writing in Hindi:

Kinds of letters:-

Official, demi-offical, unofficial , for reply or in  
reply, quotation, tender and order giving letters,  
Application for a job, Press release in Hindi, Report  
writing.

Note: Paper should be in two parts, part I - English and part II  
Hindi.

#### REFERENCE BOOKS

1. Bookshelf worksheet of Professional Communication, New Delhi  
: Bookshelf 2008
2. Functional Skills in language and literature by R. P. Singh,  
New Delhi : Oxford University Press.
3. Oxford English Hindi English Dictionary, New Delhi : Oxford  
2008

#### LANGUAGE LAB PRACTICE

For the practice/exercise the following is suggested :-

- 1.A. Phonetic transcription  
B. Stress and intonation :  
(At least 10 word for writting and 10 word for pronunciation)
2. ASSIGNMENT : (Written Communication)

Two assignment of approximately 400 word each decided by the  
teacher concerned.

THE FOLLOWING MODEL IS PROPOSED :

1. a picture/photograph

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2. an opening sentence or phrase
  3. a newspaper/magazine clipping or report
  4. factual writing which should be informative or argumentative.
- (The students may refer to "Bookshelf worksheet" for technical communication)

3. Oral Conversation:

1. Short speeches/declamation : Bid farewell, Felicitate somebody, Celebrate a public event, Offer condolences
2. Debate on current problems/topics
3. Mock Interview : Preparation, Unfolding of personality and Expressing ideas effectively
4. Group discussion on current topics/problems
5. Role Play/ general conversation : Making polite enquiries at Railway Station, Post Office, Banks and other Public places, Replying to such enquiries, enquiring about various goods sold in the market and discussing their prices. Complaining about service at Hotel, restaurant, Offering apologies in reply to such complaints, complain to a company about a defective product you have brought, reply to such complaints.
6. Presentation skill, Use of OHP and LCD.
7. Through drilling of model words involving different phonetic symbols (Vowels, Consonants, Diphthongs).

4. Aural :

Listening to conversation/talk/reading of short passage and then writing down the relevant or main points in the specified number of words and answering the given questions

The assignments/project work are to be evaluated by the internal/ external examiner. The distribution of 30 marks e.g.

10 marks for assignment (Given by subject teacher as sessional marks)

10 marks for conversation and viva-voce

10 marks for phonetic transcription

STRUCTURE OF THE PAPER OF PROFESSIONAL COMMUNICATION

Distribution of Marks

Theory Paper : 50 Marks

Sessional : 20 Marks

Practices : 30 Marks

- Q1. Question based on the topics of the prescribed syllabus will be set for testing candidates ability to understand the content, explain words and phrases, making sentence of given words and ability to summarise will be included. All questions will have to be answered.

A. from English Text Book 10 Marks

B. from Hindi Text Book 5 Marks

- Q2. Candidates will be required to write one letter (English) and one letter in (Hindi) from a choice of two -

A. English Letters 5 Marks

B. Hindi Letters 5 Marks

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Q3. Report Writing on given outlines 5 Marks

Q4. There will be a number of short answer questions to test the candidates knowledge of functional grammar, structure and usage of the language. All the items in this question will be compulsory. The grammar questions has four parts -

(Total Part: A For 5 Marks, B For 3 Marks, C For 3 Marks and D For 4 Marks)

A. This part of the question has to do with the transformation of sentences. English uses several patterns of sentence formation and the same meaning can be expressed by several patterns e.g. Active to Passive voice and vice versa, Direct to Indirect and vice versa, Reframing sentences by changing part of speech e.g. Noun to Adjective, Interchanging degree of comparison.

Interchanging Moods - Affirmative to Negative, Assertive to Interrogative or to exclamatory

B. The second part usually requires blanks in a sentence to be filled in with a suitable preposition and articles.

C. The third part is usually an exercise on tenses.

D. The fourth part concerns with one word substitution and abbreviation, uses of idioms and Phrases, Homophones.

Q5. COMPOSITION : (About 300 Words) (5 marks)

Candidates will be required to select one composition topic from a choice of five. The choice will normally include narrative descriptive, argumentative, discussion and factual topics. The main criteria by which the composition will be marked are as follows

A. the quality of the language employed, the range and appropriateness of vocabulary and sentence structure the correctness of grammatical construction, punctuation and spelling.

B. The degrees to which candidate have been successfully in organising both the composition as a whole and the individual paragraphs.

1.2 BASIC DESIGN AND SKETCHING

L T D  
3 - 10

Rationale :

Art and basic design is the foundation and first step for the beginners who enter the field of interior decoration and design. For performing this knowledge of principles & elements of design and design methodology is required. Following points should be discussed in relation with particular design.

TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No.	Topics	Coverage Time		
		L	T	P
1.	Introduction	4	-	-
2.	Design	2	-	-
3.	Element of Design	4	-	-
4.	Principles of Design	16	-	-
5.	Three Dimensional Design	8	-	-
6.	Sketching	8	-	-
Total		42	-	140

DETAILED CONTENTS

1. INTRODUCTION :

- A. Medium of expression : Pencil, Ink, Crayons, Types of colours.
- B. Tools and materials : T-square, Set-square, Drawing Board, Compass, Liner equipments for creating texture.
- C. Visual, Performing art for expression, entertainment and commercial propoganda.

2. DESIGN :

Definition, Functional design, Traditional design, Folk and modern design. Purpose of design, All this must be supported with examples from everyday life and nature.

3. ELEMENTS OF DESIGN:

3.1 LINE :

Its emotional effect, direction, shape, size, form, value and colour. Type of line, Straight, Vertical, Horizontal diagonal, curve.

3.2 COLOUR :

Classes of colour according to prang system, Primary, Secondary (binary), Intermediates, Tertiary, Quaternary. Standard system of colour, Arrangement and notation, Theories of colour, Principles and practice of colour

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relation of colour, Principles and practices of colour relation of colour to shape, Scale and proportion, Colour harmony. Physiological aspects of colour, Hue war, Name of the colour, Cool,advancing and receding colours. value scale, lightness and darkness, tint and shades and colour intensities. Colour schemes (6 different types); Simple exercises on making colour charts, value, scales, Colour schemes for different interiors. Practice in colour matching. Standard colour harmonies,related colour harmony, Colour harmony and contrast, Law of colour, Munsell colour system.

### 3.3 PATTERN, TONES AND TEXTURE :

Shapes and patterns derived from natural forms, Textures of surface and their appearance, geometric forms, symmetry and asymmetry, ornamentation and abstraction, surface quality and light variations, articulation of planes, area division according to tones, Art exercises, Compositions in geometric shapes, patterns, tones textures variations.

### 4. PRINCIPLES OF DESIGN :

Proportion, Scale, Balance, Contrast, Harmony/Rhythm and Emphasis, Unity and duality simple exercises based on above principles.

#### 4.1 BALANCE :

Definition, Types of formal and informal balance by symmetric and obvious.

#### 4.2 HARMONY :

Definition, aspect of harmony, Line, shape, Size, texture, Colour idea.

#### 4.3 RHYTHM :

Definition, Methods of obtaining rhythm, Repetition of shapes, Progression of size, Continuous line movement, Radiation.



4.4 EMPHASIS (Focus):

Definition, How to emphasise, Grouping of objects using contrasting colours, Using decoration having sufficient plain back ground using unusual lines, Shapes, Sizes.

5. THREE DIMENSIONAL DESIGN :

The designing on paper of different three dimensional objects on the basis of experience of composition, pattern, tone, texture and colour and using various medium express the forms, physiological aspects of colour.

6. SKETCHING :

1. Natural environment, Leaves, Flower, Tree, Living forms and organism, Human form, Structure and proportion, Man made sources, Architectural forms, Buildings, Interiors and furniture. Use of variety of sketching materials- pencil, pen, ink crayon, water colour, quick drying inks. All drawings to be made directly from the subject and not from illustrations.
2. Free hand sketching of interiors in different media both black and white and in colours.

NOTE :

No examination question from sketching. The aim here is to familiarise the students with various sketching techniques and materials and thereby develop an acumen for sketching through observation of both the natural and man-made environment. Ultimately these sketching techniques shall help to develop the students design ability.

### 1.3 GRAPHIC PRESENTATION

L T D  
- - 10

Rationale :

Graphic presentation is the language of designers, which is a means of communication among the designers, engineers technicians, architects and draughtmen engaged in the field of construction of buildings. The translation of ideas in practice with the use of this graphic language is beyond imagination. Thus for effective efficient communication among all those involved in the system, it becomes necessary that the personal working in different capacities acquire appropriate skill in the use of this graphic language. The paper aims at fulfilling the need.

#### TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No.	Topics	Coverage Time		
		L	T	P
1.	Geometry	-	-	-
2.	Lettering	-	-	-
3.	Isometric & Axonometric Views	-	-	-
4.	Perspective	-	-	-
5.	Sciography	-	-	-
6.	Rendering and presentation	-	-	-
7.	Model Exercises of Art	-	-	-
Total		-	-	140

#### DETAILED CONTENTS

##### 1. GEOMETRY :

Exercises in graphic presentation of solid forms, Solid Geometry : Projection of solids - cube, Prism, Cylinder, Cones and pyramids, section by horizontal and vertical plane. Scale drawing of interior elements.

##### 2. LETTERING :

Mechanical and free hand lettering both in a pencil and ink. Ratio between height and width of letters and numerals (Capital and Small). Roman lettering; Gothic and Italic lettering types. Free hand lettering, Broad pen lettering,

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Stylish lettering. Spacing, Use of stencil and other geometrical instruments used for lettering. Exercises in letters, numerals and continuous prose.

3. ISOMETRIC AND AXONOMETRIC VIEWS:

Making Isometric and Axonometric views of simple furniture and other objects in interior.

4. PERSPECTIVE :

Techniques and methods of perspective drawing for interior including furniture, fittings, accessories using; One point and two point method.

5. SCIOGRAPHY :

Study of shade and shadows of objects, such as Cubes, cuboids and other geometrical shapes.

6. RENDERING AND PRESENTATION :

Familiarity with techniques, materials and tools used in drawing and Graphic treatment used in architectural drawings, symbolic representation of trees, human figures. Rendering techniques in pencil and ink, stippling work in ink to create three dimensional effects of objects and shadows, etc. including colour in order to develop the skills of presentation and to visualise forms in space. Arrangement of geometrical forms within the space area and finishes in colours of colour units and motifs.

Geometrical forms which is to be involved are square, rectangle, circle and triangle.

7. MODEL EXERCISES OF ART :

Should be given on -

- Collage Making
- Architectural Theme based Art Work
- Murals by using various materials
- Making of illusions

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#### 1.4 HISTORY OF INTERIOR AND FURNITURE

L T P  
7 - -

##### Rationale :

The past work is always the foundation for progress. The knowledge of past achievements in any field is helpful for improvement and renovation. So is the paper here to give the students a sense of historical development in this field to appreciate the past skills, technology and materials used in the interior decoration.

##### TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No.	Topics	Coverage Time		
		L	T	P
1.	Architectural & Interior Characteristics of Egyptian, Greek & Roman Interiors	15	-	-
2.	Budhist, Muslim & Hindu Period	30	-	-
3.	Chinese & Japanese			
4.	Architectural Elements in Interior in India From Mughul Period to date	23	-	-
5.	Study of period of furniture and ornamentation	30	-	-
Total		98	-	-

##### DETAILED CONTENTS

1. ARCHITECTURAL AND INTERIOR CHARACTERISTICS IN INTERIORS :  
Concept and architectural characteristics of Egyptian, Greek and Roman interior with special emphasis on decoration, Ornamentation, Motifs and furniture.
2. ARCHITECTURAL AND INTERIOR CHARACTERISTICS OF BUDHIST, HINDU & MUSLIM PERIOD :  
Architectural characteristics of Budhist, Hindu and Muslim with special emphasis on decoration, ornaments.
3. CHINESE AND JAPANES :  
Chinese and Japanes interior and frniture.
4. ARCHITECTURAL ELEMENTS IN INDIA FROM MOGHAL PERIOD TO DATE :  
Study of architectural elements in interiors in India from Mughul period onwards such as doors, windows, pillars,

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columns, staircases, fireplaces, panelling, dado, frieze, architectural decoration, study sketches and creative designs.

5. STUDY OF PERIOD OF FURNITURE AND ORNAMENTATION :
    - A. History of furniture - European (Starting from renaissance onwards)
    - B. Period style - Italian, British and French.
    - C. Renaissance and its influence on ornamentation and furniture.
    - D. American colonial and modern furniture and ornamentation.
    - E. Modern Furniture (1900 onwards), Modular, Steel & Glass
- NOTE :
1. Emphasis should be given to interior aspects of buildings
  2. For paper setter- Question must be framed on theory asking students to answer with sketches, in order to assess the artistic skill earned during studies by the students.

II Semester

2.1 BUILDING CONSTRUCTION & MATERIALS- I

L T P  
8 - 7

Rationale :

This subject deals with the construction principles of various components of buildings like foundation, masonry, levels, arches, etc. This paper aims at fulfilling such a need.

TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No.	Topics	Coverage Time		
		L	T	P
MATERIALS -PART A				
1.	Stones	6	-	-
2.	Bricks/Tiles	6	-	-
3.	Cement	6	-	-
4.	Decorative Items	6	-	-
5.	Concrete	6	-	-
6.	Plaster	6	-	-
7.	Metals	8	-	-
8.	Wood	8	-	-
CONSTRUCTION -PART B				
9.	Terminology	12	-	-
10.	Brick Masonry	15	-	-
11.	Arches	15	-	-
12.	Timber Joinery work	8	-	-
13.	Design in stone, bricks & concrete	10	-	-
Total		112	-	98

DETAILED CONTENTS

MATERIALS -PART A

Basic Building components: Elementary knowledge of different components.

Study of constituents, properties and uses of different building materials

1. STONES:

Various types, their properties and uses in interior of various types such as offices, residences, restaurants, shops, etc.

2. BRICKS/TILES :

Qualities of various buildings, types of bricks and their

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uses in various types of interiors. Clay products- tiles, terracota, ceramics - uses and application.

3. CEMENT :

Properties of various types of cement and their application.

4. DECORATIVE TILES :

Various types - ceramic, glazed, vinyl tiles, their properties and use.

5. CONCRETE :

Ingredients of concrete, properties of concrete, various finishes types of concrete such as Lime concrete, cement concrete, etc., their uses and applications in various finishes, etc.

6. PLASTERS :

Different types of plaster finishes - neeru, sand, faced, rough cast, pebble - dash, gypsum their defects & repairs, various mixes used in plaster curing and finishing of plaster, Mud plaster, ingredients, advantages and disadvantages of special materials used in Plastering, Plaster of paris, barium, gypsum, etc.

7. METALS :

The application of various metals in interiors and various finishing options like electroplating, enameling, buffing, etc. Metals such as Cast iron, Wrought Iron, Steel, Mild Steel, Stainless Steel, Aluminium, Brass, Coper, Zink, Lead Alloys, Bronze.

8. WOOD :

Properties, uses, availability and cost of soft, hard and medium wood. Wood for interiors. Defects in wood, recognition methods of superiors & inferior qualities. Preservation of wood, cane and bamboo.

CONSTRUCTION -PART B

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9. TERMINOLOGY :

Terminology of building components like foundation footings, beams, column, plinth, wall, floors, ceiling, stair case, ramp, etc. Types of structural system with relation to interior space, remodeling load bearing and frame structure dome and vaults.

10. BRICK MASONARY :

Brick Masonary : Types of bonds in brick work : Preparation of drawings for different bonds for walls and piers.

Decorative bricks work in interior for partition/screens,etc.

11. ARCHES :

Opening in the form of arches; types of arches, lintels, doors and windows.

Preparing drawings for :

1. Types of doors(simple) glazed, panelled, flushed flyproof single and double leafed doors.

2. Window (wooden metal and P.V.C. window) side hinge, bottom hinge, top hinge.

3. Types of arches.

12. TIMBER JOINERY WORKS :

Timber and joinery work, as applicable to interior.

13. DESIGN IN BRICKS, STONE & CONCRETE :

Paving design in stone, bricks and concrete. Studio and workshop periods are devoted to the solution of simple construction problems and details as applicable to various types of interiors such as offices,residential, commercial, etc..



## 2.2 INTERIOR DESIGN - I

L T P Studio work  
- - - 20

### Rationale :

Diploma holders in interior decoration and design have to assist design and execute interior design projects. For performing this, knowledge of principles of design, elements of design, design methodology is required, hence the paper.

### TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No.	Topics	Coverage Time		
		L	T	P
1.	Design	-	-	-
2.	Design Standardisation	-	-	-
3.	Interior schemes	-	-	-
4.	Practice I	-	-	-
5.	Practice II	-	-	-
Total				280

### DETAILED CONTENTS

1. DESIGN :
  1. Definition, attributes, composition of design, factors influencing design. Functional and aesthetic components of design, Principles of spatial order in design of interior spaces.
  2. Disposition of functions vis-a-vis available space circulation pattern and anthropometric study, space requirements for various activities. Drawing line plans, elevations and section of interior spaces showing location and placement of various elements.
2. DESIGN STANDARDISATION :

Standardisation of various interior elements i.e. window, doors, furniture, lighting and office automation system.
3. INTERIOR SCHEMES :

Preparing interior schemes for single room of generalised nature, Emphasis will be on lay out and circulation, Three

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dimensional views and rendering.

4. Designing of residential interiors i.e. (Drawing rooms, Bed room, Lobby, Living room, Kitchen, toilet) with specific application materials, finishes.
5. Plans elevations and sections, with presentation in ink colour and other mediums.

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### 2.3 INTRODUCTION TO COMPUTER

[Common with Civil Engg., Civil (Spl. With Rural), Mechanical Engg., (Specialisation in Production, Automobile, Refrigeration and Air conditioning), Electronics Engg., Instrumentation and Control Engg., Dairy Engg., Leather Technology, Footwear and Leather Goods Tech., Ceramics, Chemical Engg. (Four year Sandwich), Chemical Tech. (Rubber & Plastic), Chemical Tech. (Fertilizer) ]

L T P  
2 - 5

#### Rationale:

Computers are being used for design and information processing in all branches of engineering. An exposure to fundamentals of computer programming is very essential for all diploma holders. This subject has been included to introduce students in the use and application of computers in engineering.

#### TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No.	Units	Coverage Time		
		L	T	P
1.	Introduction to Computer	4	-	-
2.	Introduction To Operating System (MS DOS/Windows)	3	-	-
3.	Word Processing	4	-	-
4.	Worksheet	4	-	-
5.	Presentation	4	-	-
6.	Data Base Operation	3	-	-
7.	Introduction to Internet	2	-	-
8.	Introduction to advance tools	4	-	-
		28	-	70

#### DETAILED CONTENTS

1. Introduction to Computer:
  - A. Block Diagram of Computer.
  - B. Types Of Computer
  - C. Types of Input and Output devices
  - D. Memories Devices (Its Types and Basic).
2. INTRODUCTION TO OPERATING SYSTEMS (MS-DOS/MS-WINDOWS:)
 

What is operating system, its significance, Commands of DOS, Features/Application of window.
3. WORD PROCESSING:
 

File : Open, Close, Save, Save as, Search, Send to, Print Preview, Print and Page Setup

Edit : Cut, Copy, Paste, Office Clipboard, Select All, Find, replace, Goto, etc.

View : Normal/Web Layout/Print Layout; Tool Bars; Header/Footer; Zoom, etc.

Insert: Break, Page Number, Date & Time, Symbol, Comment, Reference, etc.

Format: Font, Paragraph, Bullets & Numbering, Borders &

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Shading, Column, Change case, Back ground, etc.  
Tools : Spelling & Grammer, Language, Word Count, Letters &  
Mailing, Options, Customize, etc.  
Table : Draw, Insert, Delete, Select, Auto Format, AutoFit,  
Convert, Sort, Formula, etc.  
Mail Merge

4. WORKSHEET:

Introduction, Use of Tools/Icons for preparing simple  
Mini Project.

5. PRESENTATION :

Introduction, Use of Tools/Icons for preparing simple  
presentation on Power Point.

6. DATABASE OPERATION :

Create database using MS Access, Create Table and Creating Reports.

7. Introduction to Internet:

What is Network, How to send & receive messages, Use of  
Search Engines, Surfing different web sites. Creating Mail  
ID, Use of Briefcase, Sending./replying emails.

8. INTRODUCTION TO ADVANCE TOOLS :

I. Steps requires to solving problems.  
A. Flow Chart  
B. Algroithm  
C. Programming

II. Use of advance Tools such as Skype, Teamviewer, Installation of Modem,  
use of WiFi, Etc.

INTRODUCTION TO COMPUTER LAB

List Of Practicals

1. Practice on utility commands in DOS.
2. Composing, Correcting, Formatting and Article (Letter/Essay/Report) on Word Processing tool Word and taking its print out.
3. Creating, editing, modifying tables in Database tool.
4. Creating labels, report, generation of simple forms in Database tool.
5. Creating simple spread sheet, using in built functions in Worksheet tool..
6. Creating simple presentation.
7. Creating mail ID, Checking mail box, sending/replying e-mails.
8. Surfing web sites, using search engines.

Note : In the final year, related students have to use the concept of MS Word/MS Excel/MS Access/ MS Power Point in their respective branch's project work such as creating project report through MS Word/Creation of statistical data in MS Excel/Creation of database in MS Excel/ Demonstration of project through Power Point Presentation.

III SEMESTER

3.1 APPRECIATION OF DECORATIVE DESIGN

L T P  
7 - -

Rationale :

A true designer must be able to understand and appreciate the works of his earlier designers and his contemporary ones. It adds to his perceptions and enriches him with the new thoughts. The paper aims to inculcate this ability in the designers.

TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No.	Topics	Coverage Time		
		L	T	P
1.	Introduction to style and fashion	15	-	-
2.	Traditional Indian Designs	15	-	-
3.	Contemporary Indian Designs & Motivies	25	-	-
4.	Indian Folk Designs	25	-	-
5.	Decorative Design	18	-	-
Total		98	-	-

DETAILED CONTENTS

1. INTRODUCTION :

Study of symbolic figures forms and motives of different schools and periods from Renaissance onward Itly, France and England.

2. TRADITIONAL INDIAN DESIGNS :

Designs and motifs used on surfaces and objectives including pottery, stone and metal ware, wood crafts, carpets, textiles, lamps and other handicrafts.

Study sketch from meseums and other sources and development of creative designs and based on study and research.

3. CONTEMPORARY INDIAN DESIGNS AND MOTIVES :

Designs and motifs used in carpets, textiles, lamps, vases, handicrafts, wood, stone and metalware, visits to sources - emporia specialised stores, etc.

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4. INDIAN FOLK DESIGNS :

Folk designs and motifs used on walls, floors and utility objects, such as Madhubani, warli, rangoli, Sankhera, etc.

5. DECORATIVE DESIGN :

On the basis of composition, colour, pattern and texture, exercises should be given in making decorative designs of murals, wall paper, posters, textiles, carpets wall hanging, etc. Historic, National, Regional, Seasonal, Festivals, motifs and patterns to be considered.

VISITS : To sources, museums, art galleries and constructional sides, etc.

### 3.2 INTERIOR SERVICES

L T P  
5 - -

#### Rationale :

The student should have adequate knowledge of various services used in interior design projects, their types, characteristics, application, installation method and means, so that the student must be able to judiciously select services which are the most appropriate to a given situation/specific project.

#### TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No.	Topics	Coverage Time		
		L	T	P
1.	Water supply & drainage	15		
2.	Thermal & Sound Insulation	10		
3.	Lighting & Other Electrical Plans	10		
4.	Air conditioning & Ventilation	10		
5.	Communication	15		
6.	Fire Fighting	10		
Total		70	-	-

#### DETAILED CONTENTS

##### 1. WATER SUPPLY AND DRAINAGE :

###### A. Water Supply :

Hot and cold water supply system Geyser and boilers, types and sizes of pipes, water supply fittings to bathrooms, WCs, sink, bathtubs, washbasins, bidets, showers, urinals, etc. Sanitary fixtures like water closet, Uropean and Indian, urinals, bath tubs, bides, washbasin, etc. soap tray, towel rods, shower curtains. Jacuzzi, Bath enclosure, Multi functional shower panels sauna, sensors.

###### B. Drainage :

Principles of drainage; Materials for drains - Traps - their types, function and uses. Earthen pipes, Cement

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pipe, P.V.C. pipes and C.I. pipes.

Sanitary fixture - Wcs, washbasins, bath tube, sinks -  
their types, sizes.

Septic tank - types, sizes, etc.

2. THERMAL AND SOUND INSULATION :

Thermal conductivity of different material, Acoustical defects such as Echo, Reverberation, Sound foci and methods of correction, Sound absorbing materials.

3. LIGHTING AND OTHER ELECTRICAL PLANS :

(A) Different system of lighting - (Incandescent, Fluorescent) Kinds and media; Planning lighting for different work areas, Matching light with site such as drawing room, bed room, study, bath, kitchen, etc. and public places like offices, theatres, exhibition, display and such other areas including basic knowledge of materials, finishes and maintenance.

(B) Preparation of electrical layout for residences by symbolic representation as per IS : 962/1967 including selection of matching fittings. Study of different wiring systems.

(C) Conduit - types and uses

4. AIRCONDITIONING AND VENTILATION :

Introduction to different kinds of air conditioning system and their merit and demerits for air conditioning (Window, Split and Central).

5. COMMUNICATION :

Telephone, Computers, PBX and other communication devices.

6. FIRE FIGHTING :

Fire detection, Fire alarm, fire Fighting.

### 3.3 FURNITURE DESIGN

L T P  
3 - 10

Rationale :

The furniture, apart from its utility has its significant contribution to interior decoration. The knowledge of basic design ideas in furniture making is necessary for any professional interior decorator.

#### TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No.	Topics	Coverage Time		
		L	T	P
1.	Topic 1	-	-	-
2.	Topic 2	-	-	-
3.	Topic 3	-	-	-
4.	Topic 4	-	-	-
5.	Topic 5	-	-	-
6.	Topic 6	-	-	-
7.	Topic 7	-	-	-
Total		42	-	140

#### DETAILED CONTENTS

1. Environmental conditions influencing furniture climate, social and economic conditions, versatile materials and their availability.
2. Applications of various materials used in furniture - wood, metals, furnishings, upholstery, plastics, laminates, glass. Methods of care and maintenance, economics of furniture durability, usability.
3. Anthropometric sizes of furniture - sizes of furniture as related to the human body, working levels, viewing levels diagrammatic.
4. Joinery as applied to furniture.
5. Upholstered furniture
6. Ornamental furniture : Mirrors, Pedestal, Lamps
7. Designing and preparing working drawings and scaled model of basic furniture components like tables, chairs (without

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arms) stools, counters and cabinets.

8. A brief study of -

Furniture like Double Bed, Bunker Bed, Sofa Cum Bed, Chairs, Table, Sofa, Jewellery Box, Easy Chair, Rocklining Chair, Chest, Stacking of furniture, Folding Chairs and Tables, Tubellar Pipe Furniture (Alinimum, Steel, Stainless Steel, PVC), Lether Upholstered Furnitures, Low Sitting Furniture (Sofa & Bed), Modullar Kitchen, Modullar Wardropes, Steel Ralling, Steel Cladding in Interior, Toilet accessories, Stone, Marbles, Granite Furniture, Wrought Iron, Cost Iron, Tuffened Glass, Moulded Glass Furniture

Chairs designed by great architects- Frank Loyed Wright (FLW), Luedving, Mies Wander Rohe, Li-Corbusier, Charls Eames, Earosarinon.

NOTE: Visit to furniture workshop, collection of samples and information.

### 3.4 WORKSHOP/FABRICATION SHOP

L T P  
- - 10

1. CARPENTRY WORKSHOP :
  - I. Introduction to carpentry tools and equipments.
  - II. Demonstration of wood working machines.
  - III. Simple exercises on sawing, planing, sanding, chiseling, etc.
  - IV. Practice exercise or making of important joints in wood such as lap joint, tension-mortise joint, bridle joint, Dovetail joint commonly used.
2. PAINTING AND POLISHING WORKSHOP :
  - I. Introduction to painting and polishing for wood and metal.
  - II. Exercises on the following -
    - Surface preparation and painting on wood.
    - Surface preparation and painting on metal.
    - Surface preparation and painting on wall surface.
    - Surface preparation of wood for polishing of all mediums such as lacquer, matt and melamine finish.
3. PLUMBING WORKSHOP :
  - I. Study of tools and equipments used.
  - II. Study of bob cock, ilstern or stop cock, wheel valve, gate valve, etc.
4. METAL WORKSHOP :
  - I. Introduction of the tools and equipment used for metal workshop.
  - II. Simple exercises on cutting, filing, drilling, tapping, etc.
  - III. Demonstration and idea about the surface finishing techniques for metal furniture including painting, spray, priming, powder coating, knowledge about moulded furniture through visits to factories/showrooms, etc.
5. Simple exercises on glass fixing using putty, teak beading metal beading, rubber, etc.
6. Demonstration and idea about the polishing techniques of floorings.
7. Demonstration of upholstery work on sofa, stool, diwan, chair, pouffe, etc.

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L T P/Studio  
- - 20

## Rationale :

The basic elements and concepts of interior designs have been dealt within length in previous years. Now the application of this in designing and planning of certain category of building such as rooms, shops, offices, etc are to be dealt with in this paper.

## TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No.	Topics	Coverage Time		
		L	T	P
1.	Practice - 1			
2.	Practice - 2			
3.	Practice - 3			
Total		-	-	280

## DETAILED CONTENTS

1. Planning of commercial interiors such as consulting rooms, shops. Small Offices, study of use of space, circulation, system of storages, filing, etc. Maximum area to be designed 100 Sq. mts.
- 2.i. Introduction of perspective views.  
ii. One point, two Point.
3. Plans elevations, sections, perspective in colour some special details including services, material, sample chart, lighting and ventilation.

## Note :

At least one design submission should be prepared by using computers.

4.2 BUILDING CONSTRUCTION & MATERIALS-II

L T P  
2 - 8

Rationale :

A diploma student in interior decoration and design are supposed to prepare design and detail drawing representing interior design, constructional system and component. In this subject skill will be given to prepare design and details of doors, window, partitions, wall panelling and claddings, staircase cases and floor finishes, etc. by using various materials.

TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No.	Topics	Coverage Time		
		L	T	P
MATERIALS-PART A				
1.	Wood Product	-	-	-
2.	Laminates	-	-	-
3.	Thermal Acoustic Materials	-	-	-
4.	Glass & Mirror	-	-	-
5.	Paints, Varnishes, Polisher Distempers, etc	-	-	-
6.	Claddings	-	-	-
7.	Water proofing materials	-	-	-
8.	Finishing Materials	-	-	-
9.	Furnishing Materials	-	-	-
10.	Fittings	-	-	-
CONSTRUCTION-PART B				
1.	Practice 1	-	-	-
2.	Practice 2	-	-	-
3.	Practice 3	-	-	-
4.	Practice 4	-	-	-
5.	Practice 5	-	-	-
6.	Practice 6	-	-	-
7.	Practice 7	-	-	-
Total		28	112	

DETAILED CONTENTS

MATERIALS-PART A

1. WOOD PRODUCTS :

Comparative properties and uses of the following : veneers, Commercial plywood, Block board, particle board, teak plywood, hard board, soft board, acoustical tiles.

2. LAMINATES :

Properties and application of all types of plastic laminates.

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3. THERMAL ACOUSTIC MATERIALS :  
Study of different types of materials used for sound proofing. Properties and use of the following : Polyurethane products such as low density and high density, fibre glasses
4. GLASS AND MIRRORS :  
Properties, sizes, design, price and availability of : Sheet, Plate, Wired, Laminated, Safety, insulating, coloured, tinted, heat resistant and glass blocks.
5. PAINTS, VARNISHES, POLISHES, DISTEMPERS, ETC. :  
Wall and furniture finishes like paints. Water base paints, dry distempers, plastic emulsion distempers, cement paints, varnishes, polishes lacquer, tar and bitumen, silica paints, solignum black paints and their trade names, properties, covering capacity, handling technique & uses.
6. CLADDING :  
Wall papers, Fabric for wall lining. Flooring/Cladding materials - such as stones, granite, slate, marble, mosaic and cement tiles & ceramic tiles, P.V.C. and metallic claddings, Aluminium composite panel in wall cladding..
7. WATER PROOFING MATERIALS :  
Types available and where to use them.  
  
NOTE :
  1. Sample for each of the above may be collected and demonstrated/exhibited to the students during the course of the lecturers.
  2. Students should be encouraged to collect these samples and maintain their own record through scrap book containing brochures samples, etc.
8. FINISHING MATERIALS :
  - Different types of flooring materials
  - Different types coatings such as distemper, emulsion, paints and acrylic paints, etc.

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- Claddings such as wall paper, wood board, metals, plastic tiles, fabric, etc.
- Different types of ceiling materials such as :
  - Plaster of paris/gypsum
  - Various types of tiles
  - Metals (Aluminium, Steel)
  - Plastics
  - Fibre glass/glass
  - Wood based

9. FURNISHING MATERIALS :

9.1 Flooring :

Different types of carpets and drugets :

9.1.1 Woollen Carpet :

- (a) Hand Made Carpets    (b) Hand tufted carpets
- (c) Machine made carpet (i) Cutpile    (ii) Uncutpile

Quality of raw wool, quality of other raw materials used; Impact of colours; Technical specification : Knots/Tuffs per Sqr. cm. pile height, Ply of yarn, count of yarn, weight, fastness, flame resistance tests, resilience tests and accousitic quality, trade names, ISI and wool mark.

Sizes and mode of measurements.

9.1.2 Installation :

Installation of wall to wall carpets on floor fixing, carpets on wall ceiling for acoutics; joining, edge binding and fringing of carpets. Fitting and accessories; Types of underlays; How to remove a fitted wall to wall carpet; How to relay wall to wall carpet.

9.1.3 Care & Maintenance :

Visits to manufacturing units and study wall to wall laying of carpet in process.

9.2. Curtain Materials (Draperies) :

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9.2.1. TYPES :

Cotton curtains; Silk curtains; Cotton silk mixed;  
Synthetic fibre curtain; Woollen curtains; Synthetic  
and wool blended curtains; Flame resistant property.

Wrap and weft texture, dyes blends, weight, cost, care  
of the above.

9.2.2. Types of curtains like plain, french pleated, etc.

9.2.3. Lining materials

9.2.4. Fittings used - Curtain rods, rings, railing, hooks,  
sliding, stage curtains.

9.2.5. Venetian blinds and space curtains.

9.3 Upholstery Covering Material (Tapestries & Other Items)

1. Introduction to various kinds of tapestries and  
their basic distinguishing qualities

- Cotton
- Silk
- Synthetic
- Woolen
- Raxine
- Leather
- Blended

To study the their properties, design, dye,  
texture, size, weight, stitching and care

9.4 Cushioning materials:

Springs; Jute, cotton, foams, rubber.

9.5 Miscelleneous Items:

cane, jute, leather straps, slip covers, fasteners, etc.

9.6. Other Furnishings :

- Bed cover, cushion covers - their designs,  
stitchings, (handloom, mill made, tufted  
candlewick, khadi and other types - both woven and  
printed).
- Table liner bath mats, toilet sets, etc.
- Latest items of furnishings and visits.

10. FITTINGS :

1. Doors, windows, ventilators fittings in various metals like iron, brass, aluminium, plastics, etc. Fittings like Handles, bolts, hinges, springs, locks, latches, etc.
2. Visits to factories/show rooms for varieties, design and prices, etc.

NOTE :

Demonstration of the various furnishing and fittings materials may be arranged in the class room to make the subject more interesting and meaningful. Students should be encouraged to collect samples and maintain a museum of material of their own. They may be advised to collect photographs of fittings and maintain an album/scrap book.

Preparation of drawings for the following :

CONSTRUCTION-PART B

1. Sliding doors and Windows. (Wooden & Metal)
2. Sliding and folding doors. (Wooden & Metal)
3. Simple partition (in wood, glass and metal)
4. Different types of damp proofing of interiors.
5. Panelling in plywood, plyboard, wood, laminates, aluminium composite panel, claddings.
6. Stair cases - Layout of stair cases; types of stair cases; method of calculating treads and rises; Definition of various terms.  
Preparing drawing for a simple staircase in R.C.C./Timber/Steel.
7. Floor finishes - various types of floor finishes and their constructional details

#### 4.3 PRODUCT DESIGN

L T P  
3 - 6\*

Rationale :

To make the students learn the production technique of furniture and accessories related to interiors in any medium.

##### TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No.	Topics	Coverage Time		
		L	T	P
1.	Topics 1			
2.	Topics 2			
Total		42	-	84

##### DETAILED CONTENTS

1. Selection of an area in furniture/ceramics/Pottery/Stone/Metals/ light fittings, fixtures or other accessories in relation to interiors and develop a design scheme based on design process. The medium could be selected out of wood, fibre glass, metal, cane, Thermocol, Plaster of paris, etc. Ceramic painting, Small pieces of Sculpture using Mud/Ceramic/Plaster of Paris.
- Preparation of working drawings of finally selected furniture design keeping in mind the anthropometers, Preparing a design on paper of one furniture items with details of materials and budget
- Product design using waste materials, Using wood stems, Small plant, Dry roots etc., Planters stand, Flower arrangement scheme using different products.
2. Preparation of product design using computer software.  
\*-10 periods for workshops, 6 periods for study

NOTE :

A product designer workshop with an one of at least 100 m.s. shall be developed exclusively for I.D.D.

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#### 4.4 COMPUTER AIDED DESIGN -I

L T P  
- - 8

Rationale :

To expose the students to AUTOCAD and other computer softwares related to interior design to enable them to work in different computer environments

##### TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No.	Topics	Coverage Time		
		L	T	P
1.	Topics-1			
2.	Topics-2			
Total		-	-	112

1. INTRODUCTION TO AUTOCAD:  
Basic Autocad commands line, fill, solids, arc, zoom, etc. use of layers, Dimensioning, Text writing, Use of W-block command and readymade symbols, Fixing of drawing sheet-size, Use of units, Scaling in AUTOCAD.
2. Methods of preparation of simple interior drawings and sketches.
  - 2.1 Preparation of any one layout plan, including furniture.
  - 2.2 Preparation of sections and elevations.
  - 2.3 Preparation of electrical plans.

NOTE :

Student should be exposed to different computer softwares in the area of interior design being used at commercial level in the market through visits and demonstration.

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## 5.1 BUILDING CONSTRUCTION &amp; MATERIALS-III

L	T	P
5	-	8

## Rationale :

A diploma student of interior decoration and design is supposed to prepare design and detailed drawing representing interior design, constructional systems and components. Through this paper they will learn to prepare design and details of door, windows, internal partitions, false ceiling, movable furniture, built in furniture, etc. by using various materials.

## TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No.	Topics	Coverage Time		
		L	T	P
1.	Practice-I	-	-	-
2.	Practice-II	-	-	-
3.	Practice-III	-	-	-
4.	Practice-IV	-	-	-
5.	Practice-V	-	-	-
6.	Practice-VI	-	-	-
7.	Practice-VII	-	-	-
Total		70	-	112

## DETAILED CONTENTS

## PREPARING DRAWING FOR

1. Doors & Windows :
  - A. Aluminium and steel doors and windows with grills.
  - B. Swing doors/Pivot doors.
  - C. Revolving doors.
  - D. Shop window front.
2. Movable Partitions.
3. Sound proof cabin design.
4. Different methods of support and finishes of false ceilings.
5. Movable Furniture.
6. Built in furniture and fixtures.
7. Modular furniture and modular kitchen. Prefabricated

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interior materials and techniques.

NOTE :

Empahsis should be on studio work for original design and its detailing. The lecture and studio are inter related and the teacher should explain the basic concepts before actually starting the drawing work.

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## 5.2 DISPLAY

L   T   P  
-   -   12

Rationale :

It is to make the student learn the scope of display for sales promotion and to train the students to take up the assignments of design, display and decoration for the window display, specialised group display, exhibitions, trade fairs, etc. and to make scheme for different types of display.

### TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No.	Topics	Coverage Time		
		L	T	P
1.	Topic-1	-	-	-
2.	Topic-2	-	-	-
3.	Topic-3	-	-	-
4.	Topic-4	-	-	-
5.	Topic-5	-	-	-
6.	Topic-6	-	-	-
7.	Topic-7	-	-	-
8.	Topic-8	-	-	-
9.	Topic-9	-	-	-
10.	Topic-10	-	-	-
<b>Total</b>		-	-	168

1. Introduction : Display of various products/commodities, display and their scopes for sales promotion.
2. Broad Classification : Store display, window display, exhibition display, wall display, counter display and Island display.
3. Types of Lettering : Bold, Decorative, Free hand, etc.
4. Effect of colour and light on display, colour and its effects lighting preferences for different seasons, light and its effects, light as a means to highlight or subdue the display feature, different types of light.
5. Designing of logo trademarks, poster, banner, leaflets, hoarding, etc.
6. Importance of balance and harmony, different types of compositions, centre of interest and composing in three dimension.
7. Application of accessories and fixtures in display -
  - Special equipments and display aids,

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- Different types of partitions and panels,
  - Materials for stand construction.
  - Electronic and Mechanical Devices such as tape recorders, projectors, etc. for movement and light control and their use in display.
8. Role of exhibitions and trade fairs in promoting sales (both at National and International levels), types of exhibition (Education, Commercial mobile exhibitions).
  9. Concept planning : Selection of the theme and preparing in display scheme based on it -
    - Preparation of plans, elevations, working drawings, perspective, materials specifications. With suggested audio visual effects and estimated costs for show window island display, corner display, etc. for the shop.
    - Preparation of layouts plans, elevations, sections, working details and perspective for designing and planning of small exhibitions, stalls, pavillions for trade fairs, etc.
  10. Visits to various shops and stores, exhibitions and trade fairs during their constructions stages to gain knowledge of construction techniques and technology involved.



### 5.3 ESTIMATING, COSTING AND SPECIFICATIONS

L T P  
6 - -

Rationale :

Estimating is a process of deciding the cost and material requirements for a definite purpose. The paper aims to develop such capacity in the student.

#### TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No.	Topics	Coverage Time		
		L	T	P
1.	Specification	22	-	-
2.	Estimating & Costing	40	-	-
3.	Tendering	22	-	-
Total		84	-	-

#### DETAILED CONTENTS

1. SPECIFICATION :  
Specification and analysis of all types of interior decoration material such as panelling, partitioning, false ceilings, flooring and floor covering, furniture.
2. ESTIMATING :  
Types of Estimates  
Methods of preparing estimates.  
Preparing bills of quantities from drawings and pricing  
Preparing estimates from bills of quantities.
3. TENDERING :  
Essential of tender documents.  
Preparation of schedules and progress charts.  
Study of writing schedules for civil work, furniture items finishing items, services, etc. Study of units, mode of measurements, system of calculating quantities of different items like furniture, wall finishes, floor finishes, civil and plumbing works related to interiors.  
N.B.: Estimation of class problems.

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#### 5.4 COMPUTER AIDED DESIGN-II

L T P  
- - 8

Rationale :

To enable the student to plan and make schemes on 2-D and 3-D drawings for interior projects using latest software such as Photo Shop, 3-D Max, AUTO CAD.

1. Preparation of drawings of any one interior design project work done by the students.
  - 1.1 Drawing of Plan.
  - 1.2 Drawings of Furniture Plan.
  - 1.3 Drawing of Electrical Plan.
  - 1.4 Drawing of Services Plan
2. Brief introduction to 3-D drawings commands
3. Printing and Plotting
4. Plotting of drawing of any design project with estimate.

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VI SEMESTER

6.1 ENVIRONMENTAL EDUCATION & DISASTER MANAGEMENT

L T P  
4 - -

RATIONALE:

A diploma student must have the knowledge of different types of pollution caused due to industrialisation and construction activities, so as he may help in balancing of eco-system and control pollution by providing controlling measures. They should be also aware of the environmental laws for effectively controlling the pollution of environment. The topics are to be taught in light of legislation Para-3.

TOPIC WISE DISTRIBUTION OF PERIODS:

SL. NO.	TOPIC	L	T	P
1.	Introduction	6		
2.	Pollution	4		
2.1	Water Pollution	8		
2.2	Air Pollution	8		
2.3	Noise Pollution	4		
2.4	Radio Active Pollution	6		
2.5	Solid Waste Management	6		
3.	Legislations	4		
4.	Environmental Impact Assessment	4		
5.	Disaster Management	6		
TOTAL		56	-	-

DETAILED CONTENTS

1. INTRODUCTION :

- Basics of ecology, Ecosystem, Biodiversity Human activities and its effect on ecology and eco system, different development i.e. irrigation, urbanization, road development and other engineering activities and their effects on ecology and eco system, Mining and deforestation and their effects.
- Lowering of water level , Urbanization.
- Biodegradation and Biodegradability, composting, bio remediation, Microbes .Use of biopesticides and biofungicides.
- Global warning concerns, Ozone layer depletion, Green house effect, Acid rain,etc.

2. POLLUTION :

Sources of pollution, natural and man made, their effects on living environments and related legislation.

2.1 WATER POLLUTION :

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- Factors contributing water pollution and their effect.
- Domestic waste water and industrial waste water. Heavy metals, microbes and leaching metal.
- Physical, Chemical and Biological Characteristics of waste water.
- Indian Standards for quality of drinking water.
- Indian Standards for quality of treated waste water.
- Treatment methods of effluent (domestic waste water and industrial/ mining waste water), its reuse/safe disposal.

## 2.2 AIR POLLUTION :

Definition of Air pollution, types of air pollutants i.e. SPM, NOX, SOX, CO, CO<sub>2</sub>, NH<sub>3</sub>, F, CL, causes and its effects on the environment.

- Monitoring and control of air pollutants, Control measures techniques. Introductory Idea of control equipment in industries i.e.
  - A. Settling chambers
  - B. Cyclones
  - C. Scrubbers (Dry and Wet)
  - D. Multi Clones
  - E. Electro Static Precipitations
  - F. Bog Fillers.
- Ambient air quality measurement and their standards.
- Process and domestic emission control
- Vehicular Pollution and Its control with special emphasis of Euro-I, Euro-II, Euro-III and Euro IV.

## 2.3 NOISE POLLUTION :

Sources of noise pollution, its effect and control.

## 2.4 RADISACTIVE POLLUTION :

Sources and its effect on human, animal, plant and material, means to control and preventive measures.

## 2.5 SOLID WASTE MANAGEMENT :

Municipal solid waste, Biomedical waste, Industrial and Hazardous waste, Plastic waste and its management.

## 3. LEGISLATION :

Preliminary knowledge of the following Acts and rules made thereunder-

- The Water (Prevention and Control of Pollution) Act - 1974.
- The Air (Prevention and Control of Pollution) Act - 1981.

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- The Environmental Protection (Prevention and Control of Pollution) Act -1986. Rules notified under EP Act - 1986 Viz.
  - # The Manufacture, Storage and Import of Hazardous Chemical (Amendment) Rules, 2000
  - # The Hazardous Wastes (Management and Handling ) Amendment Rules, 2003.
  - # Bio-Medical Waste (Management and Handling) (Amendment) Rules, 2003.
  - # The Noise Pollution (Regulation and Control) (Amendment) Rules, 2002.
  - # Municipal Solid Wastes (Management and Handling) Rules, 2000.
  - # The Recycled Plastics Manufacture and Usage (Amendment) rules, 2003.

4. ENVIRONMENTAL IMPACT ASSESSMENT (EIA) :

- Basic concepts, objective and methodology of EIA.
- Objectives and requirement of Environmental Management System (ISO-14000) (An Introduction).

5. DISASTER MANAGEMENT :

Definition of disaster - Natural and Manmade, Type of disaster management, How disaster forms, Destructive power, Causes and Hazards, Case study of Tsunami Disaster, National policy- Its objective and main features, National Environment Policy, Need for central intervention, State Disaster Authority- Duties and powers, Case studies of various Disaster in the country, Meaning and benefit of vulnerability reduction, Factor promoting vulnerability reduction and mitigation, Emergency support function plan.

Main feature and function of National Disaster Management Frame Work, Disaster mitigation and prevention, Legal Policy Frame Work, Early warning system, Human Resource Development and Function, Information dissemination and communication.

6.2 INTERIOR DESIGN-III

L T P  
- - 24

Rationale :

A diploma student of interior decoration and design is supposed to prepare drawings for interiors of various types of spaces. Through this paper they are supposed to achieve the skill for preparing the interiors of various types of buildings, i.e. offices, shops, banks, restaurants, hotel, lounge, airport, station, lounges and cinema theatre.

TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No.	Topics	Coverage Time		
		L	T	P
1.	Practice-I	-	-	-
2.	Practice-II	-	-	-
3.	Practice-III	-	-	-
Total				336

DETAILED CONTENTS

1. Preparing Interior schemes for offices, shops, banks, restaurants, hotel lounge, airport and Station Lounges, Cinema theater. The schemes will include plans, Elevations, Views with working drawing, Furniture details, design, furnishing chart, Fittings accessories. Lighting, ventilation, plumbing, climate control, plants (Indoor/Outdoor). Drawing and rendering perspectives of large spaces in different mediums. The work to be completed in all respects for design problem to cover a minimum area of 200-300 Sq. mts.
2. Interior land scaping (Plants, Water bodies, Fountains, etc. rock garden, Terrace garden).
3. Drawing to be presented on white paper either on cartridge or scholars or similar to be supplied by institution. Size full imperial.

NOTE:

Drawings of atleast 2 submission to be prepared on Auto Cad.

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### 6.3 MANAGEMENT, ACCOUNTS AND PROFESSIONAL PRACTICE

(Common To Architectural Assistantship)

L T P  
6 2 -

#### RATIONALE

This paper aims to develop the students as professional architects to face the challenges in the world of work. To face these challenges, they should have thorough knowledge of various Architect's Act, Code of conduct in effect, handling the accounts and personnel management. The paper is expected to fulfill such a need.

#### TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No.	Topics	L	T	P
1.	Management	25	8	-
2.	Accounts	25	8	-
3.	Professional Practice	25	8	-
4.	Intellectual Property Rights	9	4	-
		84	28	-

#### DETAILED CONTENTS

1. MANAGEMENT:  
Introduction, Classification of construction - Light and Heavy, Stages of construction, Construction team - Owner, Engineer and Contractor their functions and interrelationship, Resources of construction industry -Man, Material, Machine, Money. Functions of construction management, Planning, Organisation and building contracts. Acquaintance with building bye-laws (R.B.O. Act), Accident and Safety.
2. ACCOUNTS:  
Introduction, Necessity of accounts, Cash - Definition of cash, Treasury challan and its Procedure of filling Imprest account.
3. PROFESSIONAL PRACTICE :  
Introduction, Code of practice, Scale of charges, Code of conduct as per Architects Acts 1972, Council of Architects, Tender documents, Stages of payments, Settlement of disputes and arbitrations.
4. INTELLECTUAL PROPERTY RIGHTS :  
Introduction to IPR (Patents, Copy Right, Trade Mark), Protection of undisclosed information, Concept and history of patents, Indian and International Patents Acts and Rules, Patentable and Nonpatentable invention including product versus Process.

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#### 6.4 PROJECT

L T P  
- - 10

##### Rationale :

The purpose of introducing the project is to enable students to apply the knowledge, skill and attitude, acquired during this course, to solve real life problems.

Each student will be assigned a specific problem for solving, right from conception of the design up to the execution of design

##### PROJECT DETAILS

Design project shall be of four months duration. The main emphasis will be on developing the problem for coordinating various factors affecting the interior design. It will be supported by discussion and seminars arranged time to time. Design project problems shall be interior design proposals of house/hotel/office/bank/resturent/shop.

A project report along with the following will be submitted : Plans, elevations, sections, view coloured, working drawing of furniture or interior elements. Detailed specification, estimations, material and finishes charts, general lay-out of necessary services. They shall be an external jury (Architect Interior Designer of at least 10 years professional/teaching experience) for the final assessment of the project

##### NOTE : MARKS DISTRIBUTION

- 100 marks : For documentation of project reports giving details of drawing and presentation & viva-voice
- 100 marks : For sessional - 50 marks report and documentation and method of preparation and 50 marks for all efforts put by the students in preparing reports or solving the problems



6.5 FIELD EXPOSURE  
Industrial Training Done In after IV semester

DIPLOMA IN INTERIOR DECORATION & DESIGN  
STAFF STRUCTURE

1.	HEAD OF DEPARTMENT	ONE	(i) Degree in Interior design/Architecture (with special paper in Interior design  (ii) 8 year professional/Teaching experience
2.	LECTURER IN INTERIOR DESIGN	Five	Degree in Interior Design or equivalent
3.	LECTURER IN ARCHITECTURE	Three	Degree in Architecture
4.	LECTURER IN FINE ART/COMMERICAL ART	ONE	Five years degree/equivalent diploma in fine art/commerical art
5.	MANAGEMENT	P.T	Parttime lecturer with professional experience in relevant field
6.	WORKSHOP INSTRUCTOR (Mechanical)	ONE	Three years diploma in Mechanical Engineering
7.	INSTRUCTOR CARPENTARY	ONE	Diploma in carpentary with experience in furniture making
8.	Computer Programmer		1
9.	Steno Typist		1
10.	Accountant / Cashier		1
11.	Student / Library Clerk		1
12.	Store Keeper		1
13.	Class IV		6
14.	Sweeper		Part time or as per requirement
15.	Chaukidar & Mali		as per justification

Note :

1. Services of other discipline teachers and already existing staff of the Institute may be utilized and corresponding posts can be related, if possible
2. Qualifications of Staff : as per service rule
3. The post of "Computer Programmer" is not needed in the institutions where diploma in "Electronics Engineering" is running.

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SPACE REQUIREMENT  
[A] ADMINISTRATIVE BLOCK

	No.	M2
1. Principal's room	1	30
2. Steno room	1	6
3. Confidential room	1	10
4. Reception Lounge	1	25
5. Main Office	1(0.25 Sqm./Student)	
6. Library (common with other disciplines)	1	150
7. Common room		
A. Boys Common Room	1	50
B. Girls Common Room	1	50
C. Staff Common Room	1	50
8. Store (100+0.1xStudent Population)	1	109
9. Confrence Room	1	75
10. Head of Department Room	1	30
11. Lecturer Room	3	(30 Sqm./Lecturer)
12. Confidential Office for Examination work	1	25
13. Estate Office (Security,Campus,Services)	1	25

[B]Academic Block/Workshop

Sl.No.	Detail of Space	No.	@ Sq.m	Floor Area Sq.m.
1.	Class Room	2	60	120
2.	Drawing Hall	1	120	120
3.	Studio Rooms	2	120	240
4.	Display Room	2	120	240
5.	Sketching Studio	1	120	120
6.	Museum of materials	1	120	120
7.	Store Room	1	20	20
8.	Carpentary Shop	1	120	120
9.	Fabrication Workshop	1	120	120
10.	Dark Room	1	15	15
11.	Computer Lab (Air Cond.Glass Partition and Special type pvc flooring and false ceiling )			60

[C]. Common Facilities

1.	Dispensary	1	75
2.	Canteen, Cooperative Store,Bank Extension Centre, Postal Services etc.	1	150
3.	Parking space		
	A. Cycle Stand	(1 Sqm./Cycle For 25% Students)	
	B. Scooter Stand	(3 Sqm./Scooter For 25% Students)	
	C. Car Garage	(15 Sqm./ Car )	
	D. Bus Garage	(55 Sqm./ Bus )	
4.	N.C.C. block	1	(2 Sqm/Student)
5.	Guest room (with 2 guest rooms and service facility)	1	100

[D]. Residential Facilities

1.	Hostel for students	1	for 50% boys & 100% girls students to be provided in
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		seperate block)
2.	Staff quarters	
	Principal	1 Type IV
	HOD/Warden	1 Type IV
	Sr. Lect./Lect.	9 Type IV
	Technical/Ministerial staff	7 Type II
	Class IV	6 Type I
3.	Play ground (common)	1 1500-2500 Sqm depending upon availability of land

Priority to be given in following order

- (1)
  - a. Administrative Building
  - b. Labs
  - c. Workshop
  - d. Over head Tank
  - e. Boundary Wall
  - f. Principal Residence
  - g. Fourth Class Quarters (2/3)
- (2)
  - a. Hostel
  - b. Students Aminties
- (3) Residences of employee

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LIST OF EQUIPMENTS

A. EQUIPMENT :		
1.	Rapidograph (Rotaring )	5 Set 15,000.00
2.	Stencil Set (Complete)(Rotaring)	2 Set 20,000.00
3.	Templates for :-(Rotaring)	2 Set 10,000.00
	A. Furniture	
	B. Electrical Fittings	
	C. Samtary Fitting	
	D. Circular	
4.	Architectural Scale Triangular (Indian)	1 Set 500.00
5.	Measuring Tapes different length (Indian)	2 Set 600.00
6.	Digital Camera with Flash Gun Automatic Focusing (Indian) (12 MB)	1 Set 4,000.00
B. FURNITURE :		
1. STUDIO REQUIREMENTS		
(a)	Studio tables : measuring 4'-6"x2'-9" with slant and adjustable heigh with one drawer measuring 3'x4'x6" with lock device	60 60,000.00
(b)	Stools 14" X 14" X1'-9"	60 6,000.00
(c)	Chest of drawers with 4/6 drawers measuring 3'x4' with 6" height for each drawer for members of teaching faculty	6 80,000.00
(d)	Parallel Liner with Drawings Board (imperial size)	60 12,000.00
(e)	Set square 8"X10:, 45o,30o-60o	2 Set 500.00
2. DISPLAY ROOM REQUIREMENT:		
(a)	Square tables 4' X 4' x15"	4 2,000.00
(b)	Round Tables 4' X 4' X 15" high	2 1,000.00
(c)	Ladders with seats for working at higher levels of the windows	1 1,000.00
(d)	Work Tables 5' X 2' X 2'-6"	4 4,000.00
3. SKETCH ROOM :		
(a)	Easles : One per student with drawing board.	30 15,000.00
(b)	Object/model drawing tables 4' X 4' X 1'	1 1,000.00
(c)	Object drawing tables 15" dia X 3' high	1 500.00

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## WORKSHOP PRACTICE

## CARPENTRY SHOP

S.No.	Name of Equipment	No.	@ Rs.	Amt.in Rs.
1.	60 cm.rule	10	15	150
2.	Flexible steel rule 2 metre	2	20	40
3.	T square 23 cm. steel	10	20	200
4.	Bevel square 23 cm. steel	2	30	60
5.	Marking knife 25 cm. steel	10	30	300
6.	Marking gauge wooden & brass 25 cm.	10	30	300
7.	Mortise gauge wooden & brass 25 cm.	10	50	500
8.	Caliper inside, steel 20 cm.	2	50	100
9.	Caliper outside , steel 20 cm.	2	50	100
10.	Compass steel 20cm.	2	40	80
11.	Deviver steel 20 cm.	2	40	80
12.	Plumb	2	20	40
13.	Wooden bench vice steel 20 cm.	10	200	2000
14.	Bench hold fast steel 30 cm.	10	40	400
15.	Bar clamp 2 m.	2	300	600
16.	G clamp of flat spring steel 20x30 cm.	4	60	240
17.	Rip saw 40-45 cm.	10	80	800
18.	Cross cut saw 40-45 cm.	2	80	160
19.	Tennon saw 30-35 cm.	10	50	500
20.	Dovetail saw 30-35 cm.	2	60	120
21.	Compass saw 35 cm.	4	60	240
22.	Key hole saw or pad saw 30-35 cm.	2	25	50
23.	Bow saw	2	25	50
24.	Frame saw	2	25	50
25.	Chisel fish brand 1" to 1/8" firmer	3 set	100	300
	Dovetail	3 set	100	300
	Mortise	3 set	100	300
26.	Gauge or Golchi 1" to 1/8"	3 set	150	450
27.	Wooden jack plane complete	10	100	1000
28.	Wooden smoothing plane	10	80	800
29.	Iron jack plane complete	10	200	2000
30.	Iron rebate plane complete	3	80	240
31.	Iron grooving plane complete	3	120	360
32.	Iron compass plane complete	3	200	600
33.	Wooden moulding plane complete	3	200	600
34.	Bradawl	3	150	450
35.	Gimlet drills set	1 set	150	150
36.	Center bit	2	120	240
37.	Twist bit	2	80	160
38.	Auger bit	2	40	80
39.	Dovetail bit	2	15	30
40.	Counter shank bit	2	20	40
41.	Ratchet brace machine	2	175	350
42.	Grand drill machine 1/4" burmi	2	200	400
43.	Wooden hand drill	5	200	1000
44.	Wooden mallet	10	25	250
45.	Claw hammer	3	30	90
46.	Carpenters hammer	10	30	300
47.	Turning tool set for lathe	3 set	800	2400
48.	Screw driver 18" & 15"	6	50	300

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S.No.	Name of Equipment	No.	@ Rs.	Amt.in Rs.
49.	Adze 500 gm.	10	50	500
50.	Pincer 175 mm.	6	75	750
51.	Plier 150 mm.	4	90	360
52.	Oil stone 8"	4	75	300
53.	Rasp file 12"	4	100	400
54.	Half round file 12"	4	80	320
55.	Round file 12"	4	80	320
56.	Triangular file 5", 4"	8	60	480
57.	Water stone	4	20	80
58.	Carpentry work benches	4	2000	8000
59.	Band saw machine complete	1	30000	30000
60.	Circular saw machine	1	15000	15000
61.	Grinding machine with motor	1	6000	6000
62.	Universal wood working machine	1	15000	15000
	misc. for foundation of machines	LS		10000
SMITHY SHOP				
1.	Anvil 150 Kg. with stand	5	2500	12500
2.	Swage block 50x30x8cm.&45x45x10cm.	2	1250	2500
3.	Hammers			
	Ball peen 8 Kg.	10	150	1500
	Cross peen 8 Kg.	10	150	1500
4.	Beak iron 25 Kg.	1	500	500
5.	Swages different types	6	40	240
6.	Fullers different types	6	30	180
7.	Leg vice 15 cms. opening	1	150	150
8.	Electric blower with motor	1	5000	5000
9.	Furnace chmney with exhaust pipe	5	5000	25000
	Misc. tools		L.S.	2500
SHEET METAL, SOLDERING & BRAZING				
1.	Dividers - 15cm.	5	60	300
2.	Trammel 1 m.	1		
3.	Angle protector	5	60	300
4.	Try square 30 cm.	5	40	200
5.	Centre punch	5	20	100
6.	Steel rule 30 cm. , 60 cm.,	5	25	125
7.	Sheet metal gauge	1	120	120
8.	Straight snips 30 cm.	2	250	500
9.	Curved snips 30 cm.	2	300	600
10.	Bench shear cutter 40 cm.	1	5000	5000
11.	Chisel 10 cm.	5	100	500
12.	Hammer	5	150	750
13.	Bench vice 13 cm.	5	1000	5000
14.	Plier	5	50	250
15.	Nose plier	5	60	300
16.	Sheet metal anvil/stakes	5	2000	10000
17.	Shearing machine 120 cm.	1	2500	2500
18.	Solder electric	2	500	1000
19.	Solder furnace type	2	250	500
20.	Brazing equipments and accessories	1	5000	5000
21.	Blow lamp	2	250	500
22.	Sheet bending machine	1	10000	10000
	Misc.		L.S.	5000

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FITTING SHOP

S.No.	Name of Equipment	No.	@ Rs.	Amt.in Rs.
1.	Bench vice jaw 10 cm.	10	300	3600
2.	Surface plate 45x45 cm.	2	2000	4000
3.	V. Block 10x7x4 cm.	5	350	1650
4.	Try square	10	40	400
5.	Bevel protractor 30 cm.	1	2100	2100
6.	Combination set	1	2500	2500
7.	Divider	5	60	300
8.	Centre punch	5	20	100
9.	Calipers (Different sizes)	12	20	240
10.	Vernier calipers 30 cm.	2	600	1200
11.	Micrometer 0-25, 25-50 m.m.	4	500	2000
12.	Vernier depth gauge	1	350	350
13.	Feeler gauge--15 blades	1	30	30
14.	Radius gauge	1	100	100
15.	Angle gauge	1	100	100
16.	Thread gauge	1	100	100
17.	Bench drilling machine 13 mm.	1	5000	5000
18.	Double ended electric grinder	1	4000	4000
19.	Drill set	1set	1000	1000
20.	Reamer set	1set	2000	2000
21.	Tap set	1set	2000	2000
22.	Adjustable wrenches	1set	2000	2000
23.	Allen key set	1set	350	350
24.	Spanners	6	60	360
25.	Work benches	6	2000	12000
26.	Power hacksaw	1	4000	4000
	Misc. Files, Dieset, Hexa frames etc.		L.S.	10000

WELDING SHOP

1.	Ellectric welding set oil cooled	1	10000	10000
2.	Industrial regulator type oil cooled arc welder	1	12000	12000
3.	Air cooled spot welder 7.5 KVA	1	15000	15000
4.	General accssories for air cooled spot welder of 7.5 KVA			8000
5.	Gas welding set with gas cutting torch and complete with all accessories	1	15000	15000
6.	Misc. work benches		L.S.	20000

PAINTING & POLISHING SHOP

1.	Air compressor complete with 2 HP motor	1set	12000	12000
2.	Spray gun with hose pipe	1	1000	1000
3.	Stoving oven	1	3000	3000
4.	Buffing machine with leather and cotton wheels	1	4000	4000
5.	Electroplating Equipment for cromium Nikle plating.	1	10000	10000
	Misc.		L.S.	2000

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PLUMBING SHOP

S.No.	Name of Equipment	No.	@ Rs.	Amt.in Rs.
1.	Pipe vice 5 cm.	4	250	1000
2.	Chain wrenches	5	250	1250
3.	Ring spanner Set	5	125	625
4.	Wheel pipe cutter	2	300	600
5.	Water pump plier	4	50	200
6.	Pipe die set 2" set	2 set	600	1200
7.	Pipe bending device	1	5000	5000
8.	Work benches	4	4000	16000
9.	Set of various types of plumbing fittings e.g. Bib cock, Cistern, Stop cock, Wheel volve, Gat volve etc.		L.S.	2000
10.	Misc. Hacksaw frame and others		L.S.	2000

FOUNDRY SHOP

1.	Moulding boxes	50		12000
2.	Laddles	5		1000
3.	Tool kits	10 sets		2500
4.	Quenching tanks water or oil	2		1000
5.	Permiability tester	1		1000
6.	Mould hardness tester	1		6000
7.	Sand tensile testing equipment	1		7500
8.	Portable grinders	1		3000
9.	Temperature recorders/controllers	LS		5000
10.	Pit furnace with Blower	1		5000

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MISCELLANEOUS ITEMS FOR MODEL ROOM (MUSEUM-CUM-DISPLAY)

1. Samples and brochures of wall finishes in bricks, stone, ceramic tiles
2. Samples and brochures of wood products
3. Samples and brochures of finishing materials other than brick and stone
4. Samples and brochures of different kinds of wires, fixtures and fittings (electrical)
5. Samples and brochures of different kinds of sanitary wares
6. Samples and brochures of different kinds of hardware used in interiors
7. Samples and brochures of different kinds of fabrics and other materials need for upholstery and drapery
8. Samples of different kinds of glasses
9. Windows of different shapes for shop window display
10. Samples of decorative accessories both historical and contemporary in different materials

TOTAL COST L.S. Rs. 50000.00

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COMPUTER LAB  
(Common with Diploma In Architectural Assistantship)

Equipment

Computer	Systems for students	60	35000	2100000
	Systems for staff	1	35000	35000

Display

Other                      Digital/ Power/ Software/ Consumable

A.            Configuration

CPU	Core 7
RAM	2 GB (Min)
Cache	2 MB
HDD	500 GB

DVD Writer                24 X

LCD Monitor 17" Keyboard Mouse with Mouse  
PAD, Speaker

B    Display and hard copy devices

i Laser Printer A4	2	8000.00	16000.00
ii Ploters    A0 size	1		200000.00
iii LCD Projector 2000 Lumen	1		75000.00
iv Screen (High Reflectance)	2	5000.00	10000.00

C.    Others

i Colour Scanner with OCR Software (A4)	1 x		15000.00
ii UPS for supplying Power to laboratory 5 KVA	2	75000	150000.00
v AC 1.5 t	8	30000	240000.00
vi Computer tables 5 x 3 ft	60	5000	300000.00
vii Computer Chairs	60	1500	90000.00
viii Storage Rack	2	5000	10000.00
ix Vacuum Cleaner	1	12000	12000.00
x Printer Table	2	3000	6000.00

D. Software Auto CADD, Revit etc.                      4,00000.00  
3 DS Max.

i Window 98/2000			
ii Microsoft office or lotus smartsuite			
iii Autocad Release 2000			
iv 3D Home architect Photo shop with image ready (ADOBE)			

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RAW MATERIAL

1. Scholar Paper
2. Kent Paper
3. Cartridge Paper
4. Gauze tracing kilburn
5. Tracing paper ordinary
6. Postal Paper
7. Glazed paper
8. Cellophane paper
9. Crape paper
10. Kite paper
11. Brown Paper : Thick and thin
12. Hand made paper : White coloured and textured
13. Mount board
14. Cellotapes different colours
15. Fevicol
16. Quickfix
17. Gum
18. Celotax board
19. Thermocole
20. Plain sheet glass
21. Brackets for glass
22. Oil paints tube
23. Water colour
24. Water colour
25. Poster colours
26. Postal colour (Oil crayons)
27. Colour mixing
28. Water proof drawing inks
29. Sable hair brushes
30. Hog hair brush
31. Pencil soft and hard full range.
32. Eraser - Pencil and Ink
33. Printing colours for batik, tie and dye block, screw paint & screen prints
34. Canvas cloth
35. Canvas paper
36. Velvet paper
37. Varnishes
38. Polish
39. Enamel paints
40. Bulbs, fluorescent tubes
41. Linseed oil and thinner
42. Nylon cards
43. Nails and screw
44. Hammers
45. Pliters
46. Scissors
47. Wax paraffin and bees
48. Samples of furnishing material

TOTAL COST L.S. ONE LACKS (Rs. 1,00,000.00)

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INTRODUCTION TO COMPUTER (Common to all Trades)

COMPUTER CENTRE

S.No.	DESCRIPTION	QTY.	APPROX. COST (in Rs.)
1.	Core-2 Quad Processor, 4GB RAM 1 GB SATA HDD, 19" TFT Monitor/ Server of Latest Specification OS-Windows 2007/2008/Latest Version	02 Server	1,20,000=00
2.	General Desktop Computer-Intel i5 60 node or Higher(with latest Specification Pre loaded latest Anti Virus with Life time Subscription, Licence Media and Manual with UPS 660 VA with latest window OS Including licence OR Computer of latest Specification With latest window os including licence		36,00,000=00
3.	Software :((Latest Version)		
	i. MS OFFICE 2010/Latest Version		LS LS
	ii COMPILER 'C', C++, JAVA-7		LS LS
4.	Hardware		4,50,000.00 LS
	i. Switch-32 Port		02
	ii. Router		02
	iii. Hub		04(8 Port)
	iv. Ext. Modem		02
	v. Wireless N/W Adaptor		02
	vi. Series Access Point		02
	vii.LAN Cable Meter		05
	viii. LAN Cable Analyzer		05
	ix. Crimping Tool		15
	and all other accessories related to Networking		
5.	Scanner- Flat Bed A4/Auto Lighter (Bit depth 48)		02 20,000
6.	132 Column 600 CPS or faster 9 Pin dot matrix printer with 500 million character head life		02 50,000
7.	Laser Jet-A4 All In one 20 page per min (2 Each)		04 50,000
8.	Desk Jet-A4 Photo Smart (2 Each)		04 40,000
9.	5 KVA on line UPS with minimum 30 minute battery backup along with sealed maintenance free batteries. Provision for connecting external batteries with network		04 8,00000

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	connectivity.(For 2 Labs)		
10.	Split Air Conditioner 1.5 tones capacity with ISI mark along with electronic voltage stabilizer with over voltage and time delay circuit	08	35,0000
11.	Room preparation and furniture	LS	
12.	19" rack, 24-port switch. connector RJ-45 Cat-6 cabling for network	LS	10,0000
13.	2 KVA Inverter Cum UPS	02	6,0000
14.	Fire Extinguisher (2 Kg.)	04	15000
15.	Fire Extinguisher (5 Kg.)	04	25000
16.	Vacuum Cleaner	02	25000
17.	LCD Projector 3000 Lumen with all Accessories	02	350000
18.	Pen Drive 16 GB	10	10000
19.	DVD Writer External	02	10000
20.	HDD External 500 GB	02	15000
21.	PAD (Latest Configuration)	02	15000
22.	Broadband For Internet(Speed Min. 8mbps)	04	LS
23.	USB Modem	02	8000
24.	Generator 15 KVA Water Coolant	01	450000

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7.	LEARNING RESOURCE MATERIALS			
1.	LCD Projector with Screen	1	--	20000
2.	Handicam	1	--	30000
3.	Cutting, Binding & Stitching equipment.	1	--	30000
4.	Desk Top Computer with Internet Core i5/i7- 760, Processor, Genuine Windiw 7, Professional 18 inch HD, Flat Panel Monitor Optical Mouse, Key Board & all related media or latest version	1	--	40000
5.	Home Theater Support Disc type CD. CDR/CDRW DVDR/DVDRW, VCD Supported with USB Port Support-DIVX/JPEG/MP3	1	--	25000
6.	Commerical P A System 16 W-220W output, AC & 24V DC Operated, 5 Mic. & 2 Auxilary input, Speaker output 4 Ohm, 8 Ohm, 17 V & 100 V	1	--	20000
7.	Interactive Board	1	--	50000

Note :

1. This center will be only one at the institute level irrespective of all branches.

ANNEXURE - 1  
COMMUNITY DEVELOPMENT WORK

For Community Development work two 15 days camps will be organised during the session in identified villages. The students shall stay in the camps and under the supervision of concerned faculty members shall undertake/execute the assigned works in the following fields.

1. To launch and sustain functional literacy programmes.
2. To train the rural youth in different trades/skills.
3. Training by innovating and improving the efficiency of household gadgets.
4. To control and reduce pollution affecting the social fabric of rural life i.e.
  - Construction of Soak Pits and Sanitary Latrines, Tree Plantation, Social Forestry, Installation of Smokeless Chulhas.
5. To disseminate information on sources of non conventional energy. Installation and maintenance of Solar Street Lights, Solar Photovoltaic Pumps, Wind Mills, Bio Gas Plants etc shall be undertaken.
6. Transfer of appropriate Technology/Demonstration of cheap houses by use of locally available material, treatment of mud walls innovation of mud floor, treatment of thatch roofs etc shall be taken with provisions for training to the villagers.
7. Training and demonstration of new agricultural implements, household gadgets and appliances of non conventional energy.
8. To help the rural youth in preparing project reports to set up industrial units and entrepreneurial development.
9. All community polytechnics shall render repair and maintenance of agricultural implements, appliances of non conventional energy, household gadgets etc and train the rural youth in such skills.

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ANNEXURE-2

After second year annual exam the student will go for a four week training. They will be sent to work and learn under professionals running their design office or to an industrial organisation maintaining a design office.

The student will present a report after completion of training to be put before diploma project examiner for evaluation of his learning for 50 marks - 30 for viva and 20 for the reports. The report will include discription of design office infrastructure, work procedure and his day today engagement and his observations to the approach to solve design problems at hand.

1. Name & Address of the unit
2. Date of
  - i. Joining.
  - ii. Leaving.
3. Nature of Industry
  - i. Product.
  - ii. Services.
  - iii. Working Hrs.
4. Sections of the unit visited and activities there in.
5. Details of machines/Tools & instruments used in working in the section of the unit visited.
6. Work procedure in the section visited.
7. Specifications of the product of the section and materials used.
8. Control of Work & Quality
9. Inspection procedures packing, storing and disparting of products.
10. Use of computer - if any.
11. Visit of units store, Manner of keeping store items, Their receiving & distribution.
12. Safety measures on work place & working conditions in general - comfortable, convenient & hygeinic.
13. Pollution, Professional deseases & hazards if any. Precautionary measures.

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ANNEXURE - 3 QUESTIONAIRE

INSTITUTE OF RESEARCH, DEVELOPMENT AND TRAINING U.P. KANPUR -208024

SUBJECT: Questionnaire for ascertaining the job potential and activities of diploma holder in Interior Decoration & Design

PURPOSE: To design and develop Three Year diploma curriculum in Interior Decoration & Design.

NOTE: 1. Please answer the questions to the points given in the questionnaire.  
2. Any other point or suggestion not covered in this questionnaire may be written on a separate paper and enclosed with the questionnaire.

1. Name of the organisation: \_\_\_\_\_  
\_\_\_\_\_

2. Name & Designation of the officer \_\_\_\_\_  
filling the questionnaire \_\_\_\_\_

3. Name of the department/section/  
shop \_\_\_\_\_  
\_\_\_\_\_

4. Important functions of the \_\_\_\_\_  
department/section/shop \_\_\_\_\_

5. Number of diploma holder employees  
under your charge in the area of \_\_\_\_\_  
Interior Decoration & Design

6. Please give names of modern equipments/machines handled by a  
diploma holder in Interior Decoration & Design

1.	2.	3.
4.	5.	6.

7. What proficiencies are expected from a diploma holder in

1.	2.	3.
4.	5.	6.

8. Mention the approximate percentage of the following desired in  
Diploma teaching.

1. Theoretical knowledge	-----%
2. Practical knowledge	-----%

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3. Skill Development -----%

9. Do you think "on the job training" / Industrial training should form a part of curriculum. ( Yes/ No)

if yes then

- (a) Duration of training -----  
(b) Mode of training 1. Spread over different semesters  
2. After completion of course  
3. Any other mode

10. What mode of recruitment is followed by your organisation.

1. Academic merit
2. Written test
3. Group discussion
4. Interview
5. On the job test.

11. Mention the capabilities/ Qualities looked for while recruiting diploma holder in Interior Decoration & Design

- (a) Technical knowledge -----  
(b) Practical skill -----  
(c) Etiquettes and behaviour -----  
(d) Aptitude -----  
(e) Health, habit and social background -----  
(f) Institution where trained -----

12. Does your organisation have any system for the survey of Home articles of different countries/States. Yes/No

13. Does your organisation conduct field survey to know users views regarding. Yes/No  
1. Home Articles for different age groups and sex.  
2. Effect of climatic conditions  
3. Any other  
If yes ; Please give brief account of each.

14. Which type of assignment do you suggest for an entrepreneur in Interior Decoration & Design

15. In which types of organisations can a diploma holder in Interior Decoration & Design

- |   |   |   |
|---|---|---|
| 1 | 2 | 3 |
| 4 | 5 | 6 |

16. Job prospects for the diploma holder in Interior Decoration & Design the next ten years in the state / country.

17. In your opinion what should be the subjects to be taught to a diploma student in Interior Decoration & Design

Theory Practical

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18. Kindly mention particulars regarding topics/areas which should be given more emphasis in the curriculum .

Theory

Practical

19. Kindly state whether your organisation can contribute towards improvement of curriculum in above field. Yes/ No  
If yes : Please give names of experts in your organisation to whom contact.
20. Kindly give your valuable suggestions for being considered at the time of finalisation of curriculum.
21. What changes in technologies are to be incorporated in the development of curriculum in Interior Decoration & Design

( Signature )

Kindly mail the above questionnaire duly filled to:-

Kalpana Devi  
Asstt. Professor  
Institute of Research, Development & Training, U.P.  
Govt. Polytechnic Campus  
Kanpur-208002

( Please note that all information in this survey is confidential for the use of curriculum design only )

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