

**COURSE OF STUDY AND SCHEME OF EXAMINATION OF  
DIPLOMA VOCATIONAL IN INTERIOR DESIGN  
LEVEL 3**

SN o	Subject	Subject Code	Period per week			Scheme of Examination					Total Marks	Credit
						Theory			Practical			
						L	T	P	ELE	CT		
<b>General Education</b>												
1	HINDI	900351(46)	4	-	-	100	10	10	-	-	120	08
2	ENGLISH	900352(46)	4	-	-	100	10	10	-	-	120	08
3	ECONOMICS	992353(46)	4	1	-	100	10	10	-	-	120	10
4	ENTEREPRENURS HIP	992354(76)	3	1	-	70	10	10	-	-	90	08
5	GEOGRAPHY	992355(46)	3	1	-	70	10	10	-	-	90	08
6	ENTEREPRENURS HIP LAB	992361(76)	-	-	1	-	-	-	30	10	40	02
7	GEOGRAPHY LAB	992362(46)	-	-	1	-	-	-	30	10	40	02
<b>Vocational Education</b>												
8	INTERIOR DESIGN	992356( 35 )	3	1	-	100	10	10	-	-	120	08
9	INTERIOR DESIGN LAB	992363( 35 )	-	-	8	-	-	-	160	100	260	16
	<b>TOTAL</b>		<b>21</b>	<b>4</b>	<b>10</b>	<b>540</b>	<b>60</b>	<b>60</b>	<b>220</b>	<b>120</b>	<b>1000</b>	<b>70</b>

L-Lecture T-Tutorial P- PracticalELE-End Level Exam,

EPE, End Practical Exam CT-Class Test, TA-Teachers Assessment

Assuming Total Duration 30 Weeks

Per Week 35 Pds. Of One hour each

**HOURS**

**General Content.....690**

**Subject of Study Hrs.**

**1. Language I (Hindi) 120**

**2. Language-II(English) 120**

**3. Economics 150**

**4. Entrepreneurship 150**

**5. Geography 150**

**6. Vocational Content.....360**

**(Interior Design)**

**Total.....1050**

**One Credit would mean equivalent of 15 period of 60 minutes each for Theory,Workshop/Labs and Tutorial.**

## 01. LANGUAGE I: (HINDI)

**DIPLOMA VOCATIONAL IN INTERIOR DESIGN**

**LEVEL : III**

**BRANCH DISCIPLINE : INTERIOR DESIGN**

**STUDY & EXAMINATION SCHEME:**

S. No	Subject	Subject Code	Period per week			Scheme of Examination					Total Marks	Credit
						Theory			Practical			
			L	T	P	ELE	CT	TA	EPE	TA		
1	Theory	900351(46)	4	-	-	100	10	10	-	-	120	08

### DISTRIBUTION OF MARKS & HOURS:

CHAPTER NO.	CHAPTER NAME	HOURS	MARKS
क	अपठित बोध (गद्यांश और काव्यांश-बोध)	25	20
ख	रचनात्मक तथा व्यावहारिक लेखन	30	25
ग	अंतरा भाग - 1 : (काव्य भाग)	25	20
	: (गद्य -भाग)	20	15
घ	अंतराल, भाग - 1	20	20
	मौखिक		.
	कुल	120	100

**बनतेम बदजमदजरू**

<b>क</b>	<b>अपठित बोध : (गद्यांश और काव्यांश-बोध)</b>	<b>20</b>
1.	गद्यांश पर आधारित बोध, प्रयोग, रचानांतरण, शीर्षक आदि पर लघूत्तरात्मक प्रश्न -	15
2.	काव्यांश पर आधारित पाँच लघूत्तरात्मक प्रश्न -	05
<b>ख</b>	<b>रचनात्मक तथा व्यावहारिक लेखन :</b>	<b>25</b>
	<b>अभिव्यक्ति और माध्यम के आधार पर सृजनात्मक लेखन से संबंधित दो प्रश्न :</b>	
3.	निबंध -	10
4.	कार्यालयीन पत्र -	05
5.	व्यावहारिक लेखन (प्रतिवेदन, कार्यसूची, कार्यवृत्ति इत्यादि) पर दो प्रश्न -	(5+5) 10
<b>ग</b>	<b>अंतरा - भाग - 1</b>	<b>(20+15) 35</b>
	<b>काव्य - भाग :</b>	<b>20</b>
6.	सप्रसंग व्याख्या (दो में से एक) -	08
7.	कविताओं के कथ्य पर दो प्रश्न -	(3+3) 06
8.	काव्य - सौंदर्य पर दो प्रश्न -	(3+3) 06

<b>गद्य – भाग :</b>	<b>15</b>
9. सप्रसंग व्याख्या (दो में से एक)	04
10. पाठों की विषय वस्तु पर आधारित तीन में से दो प्रश्न –	(3+3) 06
11. किसी एक लेखन / कवि का साहित्यिक परिचय –	05
<b>अंतराल : भाग 1</b>	<b>20</b>
12. विषयवस्तु पर आधारित (तीन में से दो प्रश्न) –	10
13. विधि विधाओं पर आधारित दो बोधात्मक प्रश्न –	10
<b>(घ) मौखिक परीक्षण : (ऐच्छिक) –</b>	

**श्रवण (सुनना) :** वर्णित या पठित सामग्री को सुनकर अर्थग्रहण करना, वार्तालाप करना, वाद-विवाद, भाषण, कवितापाठ आदि को सुनकर समझना, मूल्यांकन करना और अभिव्यक्ति के ढंग को समझना।

**बोलना :** भाषण, सस्वर, कविता-पाठ, वार्तालाप और उसकी औपचारिकता, कार्यक्रम – प्रस्तुति, कथा-कहानी अथवा घटना सुनना, परिचय देना, भावानुकूल संवाद – वाचन।

**वार्तालाप की दक्षताएँ :**

**टिप्पणी :** वार्तालाप की दक्षताओं का मूल्यांकन निरंतरता के आधार पर परीक्षा के समय ही होगा। निर्धारित 10 अंकों में से 5 श्रवण (सुनना) के मूल्यांकन के लिये और 5 (बोलना) के मूल्यांकन के लिए होंगे।

**श्रवण (सुनना) का मूल्यांकन :**

परीक्षक किसी प्रासंगिक विषय पर एक अनुच्छेद का स्पष्ट वाचन करेगा। अनुच्छेद तथ्यात्मक या सुझावात्मक हो सकता है। अनुच्छेद लगभग 250 शब्दों का होना चाहिए। अध्यापक को सुनते-सुनते परीक्षार्थी / परीक्षक अलग कागज पर दिए हुए श्रवण बोध के अभ्यासों को हल कर सकेंगे।

अभ्यास रिक्तस्थान – पूर्ति, बहुविकल्पी अथवा सत्य/असत्य का चुनाव आदि विधाओं में हो सकते हैं। प्रत्येक आधे अंक के लिये 1-1 परीक्षण प्रश्न होगा।

**मौखिक अभिव्यक्ति (बोलना) का मूल्यांकन :**

1. चित्रों के क्रम पर आधारित वर्णन : इस भाग में अपेक्षा की जाएगी कि विद्यार्थी विवरणात्मक भाषा का प्रयोग करें।
2. किसी चित्र का वर्णन : चित्र लोगों या स्थानों के हो सकते हैं।
3. किसी निर्धारित विषय पर बोलना : जिससे विद्यार्थी अपने व्यक्तिगत अनुभव का प्रत्यास्मरण कर सकें।
4. कोई कहानी सुनाना या किसी घटना का वर्णन करना।

**टिप्पणी :**

- परीक्षण से पूर्व परीक्षार्थी को कुछ तैयारी के लिये दिया जाए।
- विवरणात्मक भाषा में वर्तमान काल का प्रयोग अपेक्षित है।
- निर्धारित विषय परीक्षार्थी के अनुभव – जगत के हों। जैसे :  
काई चुटकला या हास्य प्रसंग सुनना।  
हाल में पढ़ी पुस्तक या देखे हुए चलचित्र (सिनेमा) की कहानी सुनाना।

जब परीक्षार्थी बोलना आरंभ कर दे तो परीक्षक कम से कम हस्तक्षेप करे।  
कौशलों के अंतरण का मूल्यांकन

श्रवण (सुनना)

वाचन (बोलना)

विद्यार्थी में –

विद्यार्थी –

1. परिचित संदर्भों में प्रयुक्त शब्दों और पदों समझने की सामान्य योग्यता है। किन्तु वह सुसंबद्ध आशय को नहीं समझ पाता।
  2. परिचित संदर्भों में से छोटे संबद्धा कथनों को समझने की योग्यता है।
  3. परिचित या अपरिचित दोनों संदर्भों में कथित को स्पष्ट सूचना समझने की योग्यता है।
  4. दीर्घ कथनों की श्रृंखला को पर्याप्त शुद्धता से समझने और निष्कर्ष निकालने की योग्यता है।
  5. जटिल कथनों के विचार – बिंदुओं को समझने की योग्यता प्रदर्शित करने की क्षमता है। वह उद्देश्य के अनुकूल सुनने की कुशलता प्रदर्शित करता है।
1. केवल अलग-अलग शब्दों और पदों के प्रयोग की योग्यता प्रदर्शित करता है, किन्तु एक सुसंबद्ध स्तर पर नहीं बोल सकता।
  2. परिचित संदर्भों में केवले छोटे संबद्धा कथनों का सीमित शुद्धता से प्रयोग करता है।
  3. अपेक्षाकृत दीर्घ भाषण में अधिक जटिल कथनों के प्रयोग की योग्यता प्रदर्शित करता है, अभी भी कुछ अशुद्धियां करता है जिससे प्रेषण में रूकावट आती है।
  4. अपरिचित स्थितियों में विचारों को तार्किक ढंग से संगठित कर धारा –प्रवाह रूप में प्रस्तुत करता है। वह ऐसी गलतियां करता है, जिनसे प्रेषण में रूकावट नहीं आती।
  5. उद्देश्य और श्रोता के लिए उपयुक्त शैली को अपना सकता है, ऐसा करते समय वह केवल मामूली गलतियां करता है।

निर्धारित पुस्तकें :

1. आरोह भाग –1 एन.सी.ई.आर.टी. द्वारा प्रकाशित
2. वितान भाग –1 एन.सी.ई.आर.टी. द्वारा प्रकाशित
3. अभिव्यक्ति और माध्यम एन.सी.ई.आर.टी. द्वारा प्रकाशित

## 02. LANGUAGE II: (ENGLISH)

**DIPLOMA VOCATIONAL IN INTERIOR DESIGN**

**LEVEL : III**

**BRANCH DISCIPLINE : INTERIOR DESIGN**

**STUDY & EXAMINATION SCHEME:**

S No	Subject	Subject Code	Period per week			Scheme of Examination					Total Marks	Credit
						Theory			Practical			
			L	T	P	ELE	CT	TA	EPE	TA		
1	Theory	900352(46)	4	-	-	100	10	10	-	-	120	08

### **DISTRIBUTION OF MARKS & HOURS:**

S. No.	Unit	Topic	No. of Hours/ Periods	Marks Allotted
1.	Unit -01	PASSAGE FOR COMPREHENSION	20	30
2.	Unit -02	SHORT STORIES	10	10
3.	Unit -03	GRAMMAR	60	30
4.	Unit -04	BUSINESS CORRESPONDENCE	20	20
5.	Unit -05	READING, WRITING, SPEAKING & LISTENING PRACTICE	10	10
<b>TOTAL</b>			<b>120</b>	<b>100</b>

### **Course Content:**

#### **I. PASSEGES FOR COMPREHENSION:**

1. THE LANGUAGE OF SCIENCE
2. MY THOUSANDTH GOAL
3. RIP VAN WINKLE COMES TO TOWN
4. SAFETY PRACTICES
5. ENTREPRENEURSHIP
6. OUR ENVIRONMENT

#### **II. SHORT STORIES:**

1. AN ASTROLOGER'S DAY
2. THE LAST LEAF

#### **III. GRAMMAR:**

1. DETERMINERS
2. AUXILIARY VERBS
3. TENSES

4. TENSES IN CONDITIONAL SENTENCES
  
5. SUBJECT-VERB AGREEMENT
6. THE PASSIVE
7. INFINITIVES
8. PREPOSITIONS
9. MODIFIERS
10. CLAUSES & CONNECTORS
11. VOCABULARY: ONE WORD SUBSTITUTION, WORDS OFTEN MISUSED & WRONGLY SPELT

#### **IV. BUSINESS CORRESPONDENCE:**

1. PURPOSE OF BUSINESS CORRESPONDENCE
2. PRINCIPLES OF EFFECTIVE BUSINESS CORRESPONDENCE: MECHANICS, STYLES & FORMS
3. APPLICATION FOR JOB, BIODATA & C. V.
4. LETTER OF ENQUIRY
5. LETTER OF ORDER
6. LETTER OF COMPLAINT

#### **V. READING, WRITING, SPEAKING & LISTENING PRACTICE BASED ON PRESCRIBED PASSAGES FOR COMPREHENSION**

#### **REFERENCE BOOKS:**

1. COMMUNICATION SKILLS FOR TECHNICAL STUDENTS  
BOOK-I, TTTI BHOPAL
2. BASIC TECHNICAL COMMUNICATION: PHI LEARNING PRIVATE LIMITED,  
NEW DELHI

### 03. ECONOMICS

**DIPLOMA VOCATIONAL IN INTERIOR DESIGN**

**LEVEL : III**

**BRANCH DISCIPLINE : INTERIOR DESIGN**

**STUDY & EXAMINATION SCHEME:**

S No	Subject	Subject Code	Period per week			Scheme of Examination					Total Marks	Credit
						Theory			Practical			
			L	T	P	ELE	CT	TA	EPE	TA		
1	Theory	992353(46)	4	1	-	100	10	10	-	-	120	10

#### **DISTRIBUTION OF MARKS & HOURS:**

S. No.	Unit	Topic	No. of Hours/ Periods	Marks Allotted
1.	Part A Statistics for Economics(50)	. Introduction	5	3
2.		Collection, Organisation and Presentation of Data	18	12
3.		Statistical Tools and Interpretation	44	30
4.		Developing Projects in Economics	8	5
5.	Part B Indian Economic Development(50)	. Development Policies and Experience (1947-90)	15	10
6.		Economic Reforms since 1991	12	8
7.		Current Challenges facing Indian Economy	37	25
8.		Development experience of India-A comparison with neighbours	11	7
<b>TOTAL</b>			<b>150</b>	<b>100</b>

#### **Course Content:**

##### **Part A : Statistics for Economics**

In this course, the learners are expected to acquire skills in collection, organisation and presentation

of quantitative and qualitative information pertaining to various simple economic aspects systematically. It also intends to provide some basic statistical tools to analyse, and interpret any economic information and draw appropriate inferences. In this process, the learners are also expected to understand the behaviour of various economic data.

### **UNIT 1: INTRODUCTION**

What is Economics?

Meaning, scope and importance of statistics in Economics

### **UNIT 2: COLLECTION, ORGANISATION AND PRESENTATION OF DATA**

Collection of data - sources of data - primary and secondary; how basic data is collected; methods of collecting data; Some important sources of secondary data: Census of India and National Sample Survey Organisation.

Organisation of Data: Meaning and types of variables; Frequency Distribution.

Presentation of Data: Tabular Presentation and Diagrammatic Presentation of Data: (i) Geometric forms (bar diagrams and pie diagrams), (ii) Frequency diagrams (histogram, polygon and ogive) and (iii) Arithmetic line graphs (time series graph).

### **UNIT 3: STATISTICAL TOOLS AND INTERPRETATION**

(For all the numerical problems and solutions, the appropriate economic interpretation may be attempted. This means, the students need to solve the problems and provide interpretation for the results derived)

Measures of Central Tendency- mean (simple and weighted), median and mode

Measures of Dispersion - absolute dispersion (range, quartile deviation, mean deviation and standard deviation); relative dispersion (co-efficient of quartile-deviation, co-efficient of mean deviation, coefficient

of variation); Lorenz Curve: Meaning and its application.

Correlation - meaning, scatter diagram; Measures of correlation - Karl Pearson's method (two variables

ungrouped data) Spearman's rank correlation.

Introduction to Index Numbers - meaning, types - wholesale price index, consumer price index and index

of industrial production, uses of index numbers; Inflation and index numbers.

Some Mathematical tools used in Economics : Equation of a line, slope of a line, slope of a curve.

### **UNIT 4: DEVELOPING PROJECTS IN ECONOMICS**

The students may be encouraged to develop projects, which have primary data, secondary data or both.

Case studies of a few organisations / outlets may also be encouraged. Some of the examples of the projects are as follows (they are not mandatory but suggestive):

(i) A report on demographic structure of your neighborhood; (ii)

Consumer awareness amongst households

(iii) Changing prices of a few vegetables in your market

(iv) Study of a cooperative institution: milk cooperatives

The idea behind introducing this unit is to enable the students to develop the ways and means by which a

project can be developed using the skills learned in the course. This includes all the steps involved in designing a project starting from choosing a title, exploring the information relating to the title, collection of



primary and secondary data, analysing the data, presentation of the project and using various statistical tools and their interpretation and conclusion.

**UNIT 5: DEVELOPMENT POLICIES AND EXPERIENCE (1947-90):**

- a. Indian Economy on the eve of independence.
  - (i) Agricultural Sector.
  - (ii) Industrial Sector.
  - (iii) Foreign Trade.
- b. Indian Economy: 1950-1990:  
The goals of Five Year Plan.

**UNIT 6: ECONOMIC REFORMS SINCE 1991:**

Need and main features - liberalisation, globalisation and privatisation; An appraisal of LPG policies

**UNIT 7: CURRENT CHALLENGES FACING INDIAN ECONOMY:**

Poverty- absolute and relative; Main programmes for poverty alleviation: A critical assessment; Rural

development: Key issues - credit and marketing - role of cooperatives; agricultural

diversification; alternative farming - organic farming

Human Capital Formation: How people become resource; Role of human capital in economic development; Growth of Education Sector in India

Employment: Formal and informal, growth and other issues: Problems and policies. Inflation : Problems and Policies

Infrastructure: Meaning-and Types: Case Studies: Energy and Health: Problems and Policies- A critical assessment;

Sustainable Economic Development: Meaning, Effects of Economic Development on Resources and Environment, including global warming.

**UNIT 8: DEVELOPMENT EXPERIENCE OF INDIA:**

**A comparison with neighbours**

India and Pakistan

India and China

Issues: growth, population, sectoral development and other developmental indicators

Recommended Text Book:

1. **Indian Economic Development Class XI NCERT**
2. **Statistics Class XI NCERT**

**04. ENTREPRENEURSHIP**  
**DIPLOMA VOCATIONAL IN INTERIOR DESIGN**

**LEVEL : III**  
**BRANCH DISCIPLINE : INTERIOR DESIGN**  
**TEACHING & EXAMINATION SCHEME:**

S No	Subject	Subject Code	Period per week			Scheme of Examination					Total Marks	Credit
						Theory			Practical			
						L	T	P	ELE	CT		
1	Theory	992354(76)	3	1	-	70	10	10	-	-	90	08
2	Practical	992361(76)	-	-	1	-	-	-	30	10	40	02
	Total					70	10	10	30	10	130	10

**DISTRIBUTION OF MARKS & HOURS**

CHAPTER NO.	CHAPTER NAME	HOURS	MARKS
01	ENTREPRENEURSHIP AND HUMAN ACTIVITIES	50	30
02	ACQUIRING ENTREPRENEURIAL VALUES AND MOTIVATION	50	30
03	Introduction to Market Dynamics	20	10
	Practical	30	30
	<b>TOTAL</b>	<b>150</b>	<b>100</b>

## **Course Content:**

### **UNIT I: ENTREPRENEURSHIP AND HUMAN ACTIVITIES**

**30 Marks**

#### Entrepreneurship

- Concept, Functions and need
- Entrepreneurship: Characteristics and Competency, Small and Medium Enterprises, Process of Entrepreneurship Development.

#### Human Activities

Optimizing Human and Natural Resource and Solving Problems in the path of prosperity, Nature, Purpose and pattern of Human Activities: Economic and Non-Economic, Need for innovation.

### **UNIT II: ACQUIRING ENTREPRENEURIAL VALUES AND MOTIVATION**      **30Marks**

Entrepreneurial Values, Attitude and Motivation-Meaning and concept. Developing Entrepreneurial Motivation and Competency - concept and process of Achievement, Motivation, Self-efficacy, Creativity, Risk Taking, Leadership, Communication and Influencing Ability and Planning Action.

### **Unit III: Introduction to Market Dynamics**

**10 Marks**

Understanding a Market, Competitive Analysis of the Market, Patent, Trademark and Copyright Barriers to Entrepreneurship, Help and support to Entrepreneur.

### **PRACTICAL**

**30hours**

**30 Marks**

- I. Study visit by students to any enterprise of own choice. With the help of schedules the students will record observation regarding - the background of entrepreneur, reasons for selecting the entrepreneurial career, starting the enterprise, the type of enterprise, the process of setting this enterprise, products/services, production process, investment made and marketing practices followed, profit or loss, growth and development, problems faced, institutions/ organisations which offer support and entrepreneur's level and type of satisfaction.
- II. Preparation of a brief report based on the observations made during study-visit to an enterprise

Reference Book : NCERT XI th class.

**05. GEOGRAPHY**  
**DIPLOMA VOCATIONAL IN INTERIOR DESIGN**

**LEVEL : III**  
**BRANCH DISCIPLINE : INTERIOR DESIGN**  
**TEACHING & EXAMINATION SCHEME:**

S No	Subject	Subject Code	Period per week			Scheme of Examination					Total Marks	Credit
						Theory			Practical			
			L	T	P	ELE	CT	TA	EPE	TA		
1	Theory	992355(46)	3	1	-	70	10	10	-	-	90	08
2	Practical	992362(46)	-	-	1	-	-	-	30	10	40	02
	Total					70	10	10	30	10	130	10

**DISTRIBUTION OF MARKS & HOURS**

Unit	Part	Topic	No. of Hours/ Periods	Marks Allotted
1.	Part A Fundamentals of Physical Geography (35)	Geography as a discipline	5	3
2.		The Earth	09	5
3.		Landforms	14	8
4.		Climate	17	10
5.		Water (Oceans)	7	4
6.		Life on the Earth	5	3
7.		Map Work	4	2
8.	Part B India - Physical Environment (35)	Introduction	5	3
9.		Physiography	17	10
10.		Climate, vegetation and soil	17	10
11.		Natural hazards and Disasters	15	9
12.		Map Work	5	3
	<b>Part C-Practical</b>	.		
	<b>Unit-I</b>	Fundamentals of Maps	10	10
	<b>Unit-II</b>	Topographic and Weather Maps: Introduction and Significance.	15	15
	<b>Unit-III</b>	Practical Record Book & Viva	5	5
		<b>TOTAL</b>	<b>150</b>	<b>100</b>

**Course Content:**

## **UNIT-1: GEOGRAPHY AS A DISCIPLINE**

- ◆ Geography as an integrating discipline, as a science of spatial attributes;
- ◆ Impact of Physical features on living beings.

## **UNIT-2: THE EARTH**

- ◆ Origin of the earth; Interior of the earth;
- ◆ Wegener's continental drift theory and plate tectonics;: Meaning , Types of plates, Distribution of plates

Earthquakes and volcanoes.: Causes of origin, types and distribution.

## **UNIT-3: LANDFORMS**

- ◆ Rocks: major types of rocks and their characteristics;
- ◆ Landforms and their evolution

**Geomorphic processes:weathering, mass wasting, erosion and deposition; soil-formation**

## **UNIT 4: CLIMATE**

- ◆ Atmosphere- Composition and structure of Atmosphere.
- ◆ Insolation-angle of incidence and distribution; heat budget of the earth-heating and cooling of atmosphere (conduction, convection, terrestrial radiation and advection); temperature factors
- ◆ controlling temperature; distribution of temperature-horizontal and vertical; inversion of temperature.
- ◆ –Air circulation: Winds-planetary, seasonal and local; air masses and fronts; tropicaland Temperate cyclones.
- ◆ Precipitation-evaporation; condensation-dew, frost, fog, mist and cloud; rainfall-typesand world distribution.
- ◆ World climates-classification (Koeppen and Thornthwaite), greenhouse effect, global
- ◆ warming and climatic changes.

## **UNIT 5: WATER (OCEANS)**

- ◆ Hydrological Cycle.
- ◆ Oceans - distribution of temperature and salinity; movements of ocean water-waves,tides and currents; submarine reliefs.of any one ocean.

## **UNIT 6: LIFE ON THE EARTH**

Biosphere - importance of plants and other organisms; biodiversity and conservation; ecosystem and ecological balance.

**Unit 7: Map work on identification of features based on the above units on the outline political map of the world.**

## **Part B. India - Physical Environment**

### **Unit 8: Introduction**

Location-space relations and India's place in the world.

### **Unit 9: Physiography(India)**

- ◆ Structure and Relief; Types , Distribution.
- ◆ Drainage systems: concept of watershed; the Himalayan and the Peninsular; Physiographic divisions.

### **Unit 10: Climate, Vegetation and Soil of India:**

Weather and climate — spatial and temporal distribution of temperature, pressure winds and rainfall, Indian monsoon: mechanism, onset and withdrawal, variability of rainfalls in monsoon.

### **spatial and temporal; Climatic types (Koeppen)**

Natural vegetation-forest types and distribution; wild life; conservation; biosphere reserves; Soils - major types (ICAR's classification) and their distribution, soil degradation and conservation.

### **Unit 11: Natural Hazards and Disasters: Causes, Consequences and**

**Management (One case study to be introduced amongst given topic)**

Floods, Clouds bursts and droughts

Earthquakes and Tsunami

Cyclones

Landslides

**Unit 12: Map Work of features based on above units for locating and labelling on the Outline Political map of India.**

**C. Practical Work**

**Part C. Practical Work 3 Hours 30 Marks**

Unit-1: Fundamentals of Maps 10

Unit-2: Topographic and Weather Maps: Introduction and Significance. 15

Unit-3 : Practical Record Book & Viva 5

**Unit 1: Fundamentals of Maps**

Maps -types; scales-types; construction of simple linear scale, measuring distance; finding direction and use of symbols.

Latitude, longitude and time.

**Unit 2: Topographic and Weather Maps**

Study of topographic maps (1 : 50,000 or 1 : 25,000 Survey of India maps): contour cross section and identification of landforms-slopes, hills, valleys, waterfall, cliffs; distribution of settlements.

Aerial Photographs: Types & Geometry-vertical aerial photographs; difference between maps & aerial photographs; photo scale determination.

Satellite imageries, stages in remote sensing data-acquisition, platform & sensors and data products, (photographic & digital).

Use of weather instruments: thermometer, wet and dry-bulb thermometer, barometer, wind vane, raingauge.

Use of weather charts: describing pressure, wind and rainfall distribution.

Unit 3: Practical Record Book and Viva-voce'.

**Reference Book:** NCERT-XI class

**06. INTERIOR DESIGN**  
**DIPLOMA VOCATIONAL IN INTERIOR DESIGN**

**LEVEL : III**  
**BRANCH DISCIPLINE : INTERIOR DESIGN**  
**TEACHING & EXAMINATION SCHEME:**

S No	Subject	Subject Code	Period per week			Scheme of Examination					Total Marks	Credit
						Theory			Practical			
			L	T	P	ELE	CT	TA	EPE	TA		
1	Theory	992356( 35 )	3	1	-	100	10	10	-	-	120	8
2	Practical	992363( 35 )	-	-	8	-	-	-	160	100	260	16
	Total		3	1	8	100	10	10	160	100	380	24

**DISTRIBUTION OF MARKS & HOURS**

CHAPTER NO.	CHAPTER NAME	HOURS	MARKS		
			ESE	EPE	TA(P)
01	Basic Design – Introduction. Manual Drawings. (Plans, Elevations, Sections)	75	20	30	20
02	Basic Services – Introduction.	30	10	20	10
03	Arts and Graphics – Advanced, Print Making, 3-D drawings	75	20	30	20
04	Materials and Finishes – Uses	30	10	20	10
05	Theory of Creativity and Theory of Design.	75	20	30	20
06	Construction Process – Introduction.	75	20	30	20
	TOTAL	360	100	160	100

## Course Content:

### 01. Basic Design – Introduction. Manual Drawings. (Plans, Elevations, Sections)

- Use of scale, drafting of various geometrical shapes in given dimension using different scales.
- Explaining different terms & Graphical representation of various components of Building like foundation, plinth, sill, lintel, slab, stair, door, window, etc.
- Plans and elevations of various commonly used furniture.
- Plans and elevation of different sanitary fixtures like Indian W.C., wash basin, urinals, bath tub etc.
- Drawing various human Body stances.
- Space required for various human activities.
- Measurements of existing room with tape & Drafting its plan, elevations & sections.
- Drawing plan, elevations & sections of any room as per given sketch & data.
- Furniture layout in any room. Presentation of plan elevations and sections in proper & suitable medium.

### 02. Basic Services – Introduction.

- INTRODUCTION:  
Definition, Different types of services for residential and commercial buildings.
- WATER SUPPLY:

Different types of water supply, Pipes and its types, Fixing method.

Open and concealed joints in pipes.

- PLUMBING FIXTURES & SYSTEMS:  
Taps. Cisterns. Shower systems. Hot and cold water supply systems. Bathroom accessories.  
Types of Plumbing pipe line system.
- SANITARY SERVICES:  
Waste water disposal. Types of sanitary pipes. Fixing detail.  
  
Precaution for laying pipes.
- SANITARY FIXTURES AND FITTINGS:
- Different type of traps (P, Q, S, intercepting. Gully trap, Nahani trap). Washbasins

### 03. Arts and Graphics – Advanced, Print Making, 3-D drawings

- Free hand sketching of various objects like flower pot, Showcase, any building by visualization & memory.
- Measured & Free hand lettering in pencil, ink, use of stencil & other Equipment.



- Study of various planes: Triangle, Pentagon, Hexagon, etc.
- Study of various solids: Cylinder, Prism, Cone, Pyramid, sphere etc.
- Area of various planes.
- Whole area, Lateral surface area & Volume of various solids.
- Plain, Diagonal & Isometric scale.
- Orthographic projection of various simple geometric solid such as Cylinder, Prism, Cone, Pyramid etc.
- Isometric, Axonometric & Oblique view of above solids
- Development of surfaces of above solids

#### **04. Materials and Finishes – Uses**

Qualities, Types, Uses ,Test etc.of :

1. Clay Product /Brick
2. Stone
3. Cement
4. Concrete
5. Steel

#### **05. Theory of Creativity and Theory of Design.**

- Introduction drafting equipments. & Use of drawing equipments with their own hands.
- Various exercise on free hand drawing & Figures by using equipments.
- Study of elements of Design: Point, Line, Plane, Shape, Form, Space, Texture etc.
- Study of Principles of Design: Balance, Rhythm, Monotony, Harmony, Contrast, Scale, Proportion.
- Colour Wheel, Primary Secondary & Tertiary colours, Tint, Shade, Tone, Warm & Cool colours
- Colour scheme: Monochromatic, Complementary, Split complementary, Analogous, Triad, Tetrad etc.
- Application of colour schemes in different spaces i.e. Kitchen, Bed Room, Drawing room, Study Room, Offices, Restaurant etc.
- Two dimensional compositions in Geometrical & Floral form using Line, Plane, Colours and Textures.
- Study of elements of three dimensional compositions e.g. Volume, Forms, Mass & Void, Unity and Character.
- Introduction, Types of Light and its effect.

#### **06. Construction Process – Introduction.**

- Carpentry Joints :Lap joint, Housed Joint, Double lap joint, Tounge and groove joint,Mortise & tenon joint,Oblique tenon joint,Dove tail joint etc.
- Timber Doors : Plan & Elevations of various Panelled Door & Flush doors.
- Timber Window : Plan & Elevations of various Fully glazed, Partially glazed, Fully Panelled windows.

- Difference types of Arches
- Wooden Panneling / Lining.

## Practical/Viva

### 1. Basic Design : Prepare drawings of following

- Drafting of various geometrical shapes in given dimension using different scales in metric and feet inch system.
- Explaining different terms & Graphical representation of various components of Building like foundation, plinth, sill, lintel, slab, stair, door, window, etc.
- Plans and elevations of various commonly used furniture.
- Plans and elevation of different sanitary fixtures like Indian W.C., wash basin, urinals, bath tub etc.
- Drawing of various human Body stances.
- Drawing showing Space required for various human activities.
- Measurements of existing room with tape & Drafting its plan, elevations & sections.
- Drawing plan, elevations & sections of any room as per given sketch & data.
- Furniture layout in any room. Presentation of plan elevations and sections in proper & suitable medium.

### 2. Basic Services:

- Observation of the Water supply, Plumbing and sanitary system/ services on site.
- Market survey to collect the information regarding the various fixtures / accessories available and its presentation.

### 3. Art and Graphics: Prepared drawings of following

- Free hand sketching of various objects like flower pot, Showcase, any building by visualization & memory.
- Measured & Free hand lettering in pencil, ink, use of stencil & other Equipment.
- Drafting various geometrical shape like Triangle, Pentagon, Hexagon, etc. and its area calculation.
- Drafting of various solids like: Cylinder, Prism, Cone, Pyramid, sphere etc. and its Whole area, Lateral surface area & Volume calculation.
- At least 2 Plain, 2 Diagonal and Isometric scale.
- Orthographic projection of various simple geometric solid such as Cylinder, Prism, Cone, Pyramid etc. (Plan Front & Sides Elevations)
- Isometric, Axonometric & Oblique view of above solids
- Development of surfaces of above solids

### 4. Materials and finishes-Uses:

- Observation of the uses of material on site,

- Market survey to collect the information regarding the various Materials available and its presentation.

#### 5.Theory of creativity and Theory of Design : Prepared drawings of following

- Various exercise on free hand & by using equipments.
- elements of Design: Point, Line, Plane, Shape, Form, Space, Texture etc.
- Principles of Design: Balance, Rhythm, Monotony, Harmony, Contrast, Scale, Proportion.
- Colour Wheel, Primary Secondary & Tertiary colours, Tint, Shade, Tone, Warm & Cool colours
- Colour scheme: Monochromatic, Complementary, Split complementary, Analogous, Triad, Tetrad/ Triangle, Square colour scheme etc.
- Two dimensional compositions in Geometrical & Floral form using Line, Plane, Colours and Textures.
- Case study and design of Logo, Sign Boards, Book cover, Tiles etc.
- Elements of three dimensional compositions e.g. Volume, Forms, Mass & Void, Unity and Character.
- Light and its effect.

#### 5.Construction Process : Prepared drawings of following

- View of Various Carpentry Joints like:Lap joint, Housed Joint, Double lap joint, Tounge and groove joint,Mortise & tenon joint,Oblique tenon joint,Dove tail joint etc.
- Timber Doors : Plan Elevation Section & detail of various Timber Panelled Door & Flush doors.
- Timber Window : Plan Elevation Section & detail of various Fully glazed, Partially glazed, Fully Panelled windows.
- Elevations of Difference types of Arches
- Plan Elevation Section & detail of Wooden Panneling / Lining.

### Suggested references

- Engineering Drawing (plane & Solid) by N.D.Bhatta, Published by Charotar Publishing House, Opposite Amul Dairy, Court Riad, Anand (W. Rly.) India.
- Prambharik Engineering Drawing By Prakash Ashtana, Deepak Prakashan, Khula Santar, Murar, Gwalior (Hindi).
- An Introduction to Art, Craft, Technique, Science and profession of Interior Design by Ahmad Abdullah Kasu, Publisher Iqaira Pub. Pvt. Ltd., Mumbai
- Engineering Materials, S.C.Rangwala, Charotar publishing House, Anand.
- Water supply and sanitary engineering, S.C.Rangwala, Charotar publishing House, Anand.
- Building Construction Vol. I,W.B.Mckay, Pearson Publication.

**COURSE OF STUDY AND SCHEME OF EXAMINATION OF  
DIPLOMA VOCATIONAL IN INTERIOR DESIGN  
LEVEL IV**

SN o	Subject	Subject Code	Period per week			Scheme of Examination					Total Marks	Credit
						Theory			Practical			
			L	T	P	ELE	CT	TA	EPE	TA		
<b>General Education</b>												
01	HINDI	900451(46)	4	-	-	100	10	10	-	-	120	08
02	ENGLISH	900452(46)	4	-	-	100	10	10	-	-	120	08
03	ECONOMICS	992453(46)	4	1	-	100	10	10	-	-	120	10
04	ENTREPRENUR SHIP	992454(76)	3	-	-	70	10	10	-	-	90	06
05	GEOGRAPHY	992455(46)	3	-	-	70	10	10	-	-	90	06
06	ENTREPRENUR SHIP LAB	992461(76)	-	-	2	-	-	-	30	10	40	04
07	GEOGRAPHY LAB	992462(46)	-	-	2	-	-	-	30	10	40	04
<b>Vocational Education</b>												
08	INTERIOR DESIGN	992456(35)	3	1	-	100	10	10	-	-	120	08
09	INTERIOR DESIGN LAB	992463(35)	-	-	8	-	-	-	160	100	260	16
	<b>TOTAL</b>		21	2	12	540	60	60	220	120	1000	70

L-Lecture, T-Tutorial, P- Practical, ELE-End Level Exam, EPE= End Practical Exam, CT-Class Test, TA-Teachers Assessment

\*Assuming Total Duration 30 Weeks Per Week 35 Pds. Of One hour each **HOURS** General Content.....690\

Subject of Study	Hrs.
1. Language I (Hindi)	120
2. Language-II(English)	120
3. Economics	150
4. Entrepreneurship	150
5. Geography	150
6. Vocational Content.....360 (Interior Design)	

**Total.....1050**

**One Credit would mean equivalent of 15 period of 60 minutes each for Theory,Workshop/Labs and Tutorial.**

## 1. LANGUAGE I: (HINDI)

DIPLOMA VOCATIONAL IN INTERIOR DESIGN

LEVEL : IV

BRANCH DISCIPLINE : INTERIOR DESIGN

### TEACHING & EXAMINATION SCHEME:

S. No	Subject	Subject Code	Period per week			Scheme of Examination					Total Marks	Credit
						Theory			Practical			
			L	T	P	ELE	CT	TA	EPE	TA		
1	Theory	900451(46)	4	-	-	100	10	10	-	-	120	08

### DISTRIBUTION OF MARKS & HOURS:

CHAPTER NO.	CHAPTER NAME	HOURS	MARKS
क	अपठितबोध (गद्यांश औरकाब्यांश-बोध)	20	20
ख	रचनात्मकतथाव्यावहारिकलेखन	30	25
ग	अंतराभाग- 2 : (काब्य भाग	30	20
	: (गद्य -भाग)	25	20
घ	अंतराल, भाग-2	15	15
	कुल	120	100

#### बतै बछज्मछज्म

क	अपठितबोध : (गद्यांश औरकाब्यांश-बोध)	20
1.	गद्यांशबोध: गद्यांशपरआधारितबोध, प्रयोग, रचानांतरण, शीर्षकआदिपरलघूत्तरात्मकप्रश्न	10
2.	काब्यांशबोध : काब्यांशपरआधारितपांचलघूत्तरात्मकप्रश्न-	10
ख	रचनात्मकतथाव्यवहारिकलेखन :	25
3.	निबंध (विकल्प)	10
4.	कार्यालयीनपत्र -	05
5.	“अभिव्यक्तिऔरमाध्यम” के आधारपरव्यवहारिकलेखनपरपांचलघूत्तरात्मकप्रश्न :	05
	6. रचनात्मकलेखनपर एक प्रश्न	05
ग	अंतरा-भाग- 2	(20+20)
	काब्य -भाग :	20
7.	काब्यांशसप्रसंगव्याख्या (दो में से एक) -	08
8.	कविताओं के कथ्य परदोप्रश्न-	(3+3) 06

9.	कविताओं के काब्य –सौंदर्यपरदोप्रश्न– गद्य –भाग :	(3+3)	06 20
10.	सप्रसंगव्याख्या (दो में से एक)		08
11.	पाठों की विषय वस्तुपरआधारिततीनमें से दोप्रश्न–	(3+3)	06
12.	किसी एक कवि/लेखककासाहित्यिकपरिचय		06
घ	पूरकपुस्तक : अंतराल : भाग 2		15
13.	विषयवस्तुपरआधारित (चार में से तीनलघूतरात्मक प्रश्न) –		09
14.	विषयवस्तुपरआधारितनिबंधात्मकप्रश्न–		06

**निर्धारितपुस्तकें :**

1. अंतराभाग– 2 एन.सी.ई.आर.टी. द्वाराप्रकाशित
2. अंतरालभाग– 2 (विविध विधाओंका संकलन) एन.सी.ई.आर.टी. द्वाराप्रकाशित
3. अभिव्यक्तिऔरमाध्यम एन.सी.ई.आर.टी. द्वाराप्रकाशित

## 02. LANGUAGE II: (ENGLISH)

DIPLOMA VOCATIONAL IN INTERIOR DESIGN

LEVEL : IV

BRANCH DISCIPLINE : INTERIOR DESIGN

### TEACHING & EXAMINATION SCHEME:

S No	Subject	Subject Code	Period per week			Scheme of Examination					Total Marks	Credit $2[L+(T+P)/2]$
						Theory			Practical			
			L	T	P	ELE	CT	TA	EPE	TA		
1	Theory	900452(46)	4	-	-	100	10	10	-	-	120	08

### DISTRIBUTION OF MARKS & HOURS:

CHAPTER NO	CHAPTER NAME	HOURS	MARKS
01	COMMUNICATION	40	30
02	TECHNICAL WRITING	50	40
03	COMPOSITION	30	30
	<b>TOTAL</b>	<b>120</b>	<b>100</b>

### COURSE CONTENT:

#### I. COMMUNICATION: 40 HOURS, 30MARKS

1. IMPORTANCE OF COMMUNICATION SKILLS
2. DIFFERENCE BETWEEN TECHNICAL WRITING & LITERARY WRITING
3. BASIC FACTS OF TECHNICAL WRITING
4. TYPES OF COMMUNICATION: VERBAL, NON-VERBAL, ELECTRONIC
5. MODES OF COMMUNICATION: READING, WRITING, SPEAKING & LISTENING
6. BARRIERS TO COMMUNICATION: HOW TO OVERCOME THEM
7. GENERAL SPEAKING SKILLS: SPEECH, DEBATE, GROUP DISCUSSION

#### II. TECHNICAL WRITING: 50 HOURS, 40MARKS

1. MAIN FEATURES OF TECHNICAL WRITING: ORGANISATION, STYLE, MECHANICS, TABLES&ILLUSTRATIONS
2. FORMS OF TECHNICAL WRITING
  - 2.1 WRITING DEFINITIONS
  - 2.2 WRITING TECHNICAL DESCRIPTIONS OF OBJECTS & PROCESSES

- 2.3 WRITING INSTRUCTIONS
- 3. WRITING TECHNICAL REPORTS
  - 3.1 QUALITIES OF A GOOD REPORT
  - 3.2 FORMS OF REPORTS
  - 3.3 TYPES OF REPORTS: PERIODIC REPORT, PROGRESS REPORT, LABORATORY REPORT, FEASIBILITY REPORT, TROUBLE REPORT

### **III. COMPOSITION: 30 HOURS, 30MARKS**

- 1. PARAGRAPH WRITING
- 2. PRECIS WRITING
- 3. OFFICIAL & BUSINESS LETTERS

#### **REREFERENCE BOOKS:**

- 1. A COURSE IN TECHNICAL WRITING, BOOK TWO, SOMAIYA PUBLICATIONS PVT LTD, BOMBAY
- 2. BASIC TECHNICAL COMMUNICATION: PHI LEARNING PRIVATE LIMITED, NEW DELHI



### 03.ECONOMICS

**DIPLOMA VOCATIONAL IN INTERIOR DESIGN**

**LEVEL : IV**

**BRANCH DISCIPLINE : INTERIOR DESIGN**

**STUDY & EXAMINATION SCHEME:**

S No	Subject	Subject Code	Period per week			Scheme of Examination					Total Marks	Credit
						Theory			Practical			
			L	T	P	ELE	CT	TA	EPE	TA		
1	Theory	992453(46)	4	1	-	100	10	10	-	-	120	10

#### **DISTRIBUTION OF MARKS & HOURS:**

S. No.	Unit	Topic	No. of Hours/Periods	Marks Allotted
1.	Part A <b>Introductory Microeconomics</b> (50)	. Introduction	6	4
2.		Consumer Equilibrium and Demand	27	18
3.		Producer Behaviour and Supply	27	18
4.		Forms of Market and Price Determination	15	10
5.		Simple applications of Tools of demand and supply		-
6.	Part B <b>Introductory Macroeconomics</b> (50)	National Income and Related Aggregates	23	15
7.		Money and Banking	12	8
8.		Determination of Income and Employment	18	12
9.		Government budget and the economy	12	8
10.		Balance of Payments	10	7
<b>TOTAL</b>			<b>150</b>	<b>100</b>

## Course Content:

### Paper 1 3 Hours 100 Marks

#### Part A : Introductory Microeconomics

##### UNIT 1: INTRODUCTION

Meaning of microeconomics and macroeconomics

What is an economy? Central problems of an economy : what, how and for whom to produce; concepts

of production possibility frontier and opportunity cost.

##### UNIT 2: CONSUMER EQUILIBRIUM AND DEMAND

Consumer's equilibrium – meaning of utility, marginal utility, law of diminishing marginal utility, conditions

of consumer's equilibrium using marginal utility analysis.

Indifference curve analysis of consumer's equilibrium-the consumer's budget (budget set and budget line), preferences of the consumer (indifference curve, indifference map) and conditions of consumer's equilibrium.

Demand, market demand, determinants of demand, demand schedule, demand curve, movement along and shifts in the demand curve; price elasticity of demand - factors affecting price elasticity of demand; measurement of price elasticity of demand – (a) percentage-change method and (b) geometric

method (linear demand curve); relationship between price elasticity of demand and total expenditure.

##### UNIT 3: PRODUCER BEHAVIOUR AND SUPPLY

Production function: Total Product, Average Product and Marginal Product.

Returns to a Factor.

Cost and Revenue: Short run costs - total cost, total fixed cost, total variable cost; Average fixed cost, average variable cost and marginal cost-meaning and their relationship.

Revenue - total, average and marginal revenue.

Producer's equilibrium-meaning and its conditions in terms of marginal revenue-marginal cost.

Supply, market supply, determinants of supply, supply schedule, supply curve, movements along and shifts in supply curve, price elasticity of supply; measurement of price elasticity of supply – (a) percentagechange

method and (b) geometric method.

##### UNIT 4: FORMS OF MARKET AND PRICE DETERMINATION

Perfect competition - Features; Determination of market equilibrium and effects of shifts in demand and supply.

Other Market Forms - monopoly, monopolistic competition, oligopoly - their meaning and features.

##### UNIT 5: SIMPLE APPLICATIONS OF TOOLS OF DEMAND AND SUPPLY

**(NOT TO BE EXAMINED)**

#### Part B : Introductory Macroeconomics

##### UNIT 6: NATIONAL INCOME AND RELATED AGGREGATES

Some basic concepts: consumption goods, capital goods, final goods, intermediate goods; stocks and flows; gross investment and depreciation.

Circular flow of income; Methods of calculating National Income – Value Added or Product method, Expenditure method, Income method.

Aggregates related to National Income:

Gross National Product (GNP), Net National Product (NNP), Gross and Net Domestic Product (GDP and NDP) - at market price, at factor cost; National Disposable Income (gross and net), Private Income, Personal Income and Personal Disposable Income; Real and Nominal GDP. GDP and Welfare

#### **UNIT 7: MONEY AND BANKING**

Money – its meaning and functions.

Supply of money – Currency held by the public and net demand deposits held by commercial banks.

Money creation by the commercial banking system.

Central bank and its functions (example of the Reserve Bank of India).

#### **UNIT 8: DETERMINATION OF INCOME AND EMPLOYMENT**

Aggregate demand and its components.

Propensity to consume and propensity to save (average and marginal).

Short-run equilibrium output; investment multiplier and its mechanism.

Meaning of full employment and involuntary unemployment.

Problems of excess demand and deficient demand; measures to correct them - change in government spending, availability of credit.

#### **UNIT 9: GOVERNMENT BUDGET AND THE ECONOMY**

Government budget - meaning, objectives and components.

Classification of receipts - revenue receipts and capital receipts; classification of expenditure - revenue

expenditure and capital expenditure.

Measures of government deficit - revenue deficit, fiscal deficit, primary deficit:their meaning.

Fiscal Policy and its role (non evaluative topic)

#### **UNIT 10: BALANCE OF PAYMENTS**

Balance of payments account - meaning and components; balance of payments deficit-meaning.

Foreign exchange rate – meaning of fixed and flexible rates and managed floating.

Determination of exchange rate in a free market.

#### **Recommended textbooks**

1. Indian Economic Development, Class XI, NCERT
2. Introductory Micro Economics, Class XII, NCERT
3. Macro Economics, Class XII, NCERT
4. Supplementary Reading Material in Economics, Class XII, CBSE

**Note :**The above publications are also available in Hindi Medium

**04. ENTREPRENEURSHIP**  
**DIPLOMA VOCATIONAL IN INTERIOR DESIGN**

**LEVEL : IV**  
**BRANCH DISCIPLINE : INTERIOR DESIGN**  
**TEACHING & EXAMINATION SCHEME:**

S No	Subject	Subject Code	Period per week			Scheme of Examination					Total Marks	Credit
						Theory			Practical			
			L	T	P	ELE	CT	TA	EPE	TA		
1.	Theory	992454(76)	4	-	-	70	10	10	-	-	90	08
2.	Practical	992461(76)	-	1	1	-	-	-	30	10	40	02
	Total					70	10	10	30	10	130	10

**DISTRIBUTION OF MARKS & HOURS**

CHAPTER NO.	CHAPTER NAME	HOURS	MARKS
01	ENTREPRENEURIAL OPPORTUNITIES AND ENTERPRISE CREATION	20	20
02	ENTERPRISE PLANNING AND RESOURCING	20	20
03	ENTERPRISE MANAGEMENT	30	30
	<b>Practical</b>		
1	1. Project Report/Survey Report	10	10
2	2. Viva-Voce on PW /SR 05 Marks	05	05
3	3. Case Study 10 Marks	10	10
4	4. Problem Solving 05 Marks	05	05
		150	100

## **Course Content:**

### **THEORY Total marks:70**

#### **UNIT I: ENTREPRENEURIAL OPPORTUNITIES AND ENTERPRISE CREATION**

##### **Sensing Entrepreneurial Opportunities 20 Marks**

Environment Scanning

Market Assessment

Identification of Entrepreneurial Opportunities

Selection of an Enterprise

Steps in setting up of an Enterprise

#### **UNIT II: ENTERPRISE PLANNING AND RESOURCING 20 Marks**

Business Planning - Preparation of a Project Report

Resource Assessment -Financial and Non - Financial

Fixed and Working Capital Requirement, Funds,

Flows, Profit Ratios, Break Even Analysis etc.

Mobilising Resources - Sources and Means of Fund, Facilities and Technologies for starting an Enterprise.

Organising/Production of goods and services - quality, quantity and flow of inputs.

#### **UNIT III: ENTERPRISE MANAGEMENT 30 Marks**

(a) General management: Basic Management functions.

(b) Managing Market:

Meaning, Functions of Marketing, Marketing Mix:

\* Product

\* Price

\* Place

\* Promotion (advertising and sales promotion)

(c) Managing Finance - Sources of Long Term and Short Term Finances

\* Determination of Cost, Income, Calculation of Profit/Loss.

(d) Managing Growth and Sustenance -Affecting Change, Modernisation, Expansion, Diversification and Substitution.

(e) Entrepreneurial Discipline - Laws of Land, Ecology, Consumer's Concept, Adherence to Contract and Credits.

## **PRACTICAL**

### **Introduction:**

The main objective of the course in Entrepreneurship is to generate in the students initiative, selfreliance

and enthusiasm so as to empower them to become entrepreneurs both in spirit and performance.

A number of skills such as observation, evaluation, communication, resource mobilization and management, risk assessment ,team building etc. are also to be developed in the students. Leadership qualities, sensitivity to business ethics and adherence to a positive value system are the core issues that

the course highlights while presenting different concepts related to entrepreneurship.

Such a course should necessarily have a strong experiential component in the form of practical work. The objectives of the practical work are:

1 To introduce the students to the world of business by developing in them the core skills

and competencies required for an entrepreneur.

2. To develop in the students qualities such as leadership, self-confidence, initiative, facing uncertainties, commitment, creativity, people and team building, integrity and reliability.
3. To enable the students to acquire the skills and knowledge needed for conducting surveys, collecting, recording and interpreting data and preparing simple estimates of demand for products and services.
4. To guide the students to prepare a Project Report.
5. To equip the students with knowledge and skills needed to plan and manage an enterprise through case studies conducted and recorded by the students in different fields such as resource assessment, market dynamics, finance management, cost determination, calculation of profit and loss etc.
6. To instill in the students important values and entrepreneurial discipline.

## **FORMAT**

Total marks: 30

1. Project Report/Survey Report 10 Marks
  2. Viva-Voce on PW /SR 05 Marks
  3. Case Study 10 Marks
  4. Problem Solving 05 Marks
- 1. Project Report/Market Survey Report 10 Marks**

### **a) Project Report:**

Preparation of a Project Report for an enterprise involving products/services

Students may be provided adequate guidance to choose a project based on their interests and availability of information and authentic inputs in the locality. The specimen proforma of project report given in the textbook may be used for preparing the report. However, mechanical preparation of the report by filling in the information in the proforma should be discouraged. Further, as the students will be required to appear for a Viva-voce on the basis of their projects, sufficient care should be taken by the students to prepare the report after studying the various aspects involved thoroughly. In a nutshell, the project report should lead to viable enterprise.

### **b) Market Survey Report**

Market research is the process and technique of finding out who your potential customers are and what they want. The survey may be on products and services already available in the market or students may also conduct surveys for new products and services. The report of the survey should be organised under the following broad headings:

1. Objectives.
2. Methods and tools (interviews ,questionnaires etc.) to be used to collect information.
3. Records of data and information.
4. Analysis of data and information.
5. Interpretation and conclusion.

For example, a survey may be conducted to find out the choice of households in toiletry soap, tooth paste etc. The data may be analysed to establish a pattern that may be useful to an entrepreneur.

### **1. Guidelines for assessment of Project Report / Survey Report**

1. Presentation: Format, Clarity, Use of graphs, tables and other visuals, organisation, methodical recording of data and information and general neatness of execution. 5 marks
2. Originality and Creativity 3 marks
3. Authenticity of information and correctness of calculations and general feasibility of the project/ sustainability of conclusion drawn in the survey. 2 marks

### **2. Viva Voce on the Project /Market Survey Report 5 Marks**

The questions should establish that the report is the original work of the student and that the student has a reasonably clear understanding of the work carried out by him/her.

Entrepreneurial qualities such as leadership, self-belief, creativity, originality, initiative etc. may also be assessed by asking a variety of questions related to the report.

### **3. Case Study 10 marks**

A case study is a focused research on an organisation, enterprise, practice, behaviour or person undertaken to highlight an aspect that the study attempts to examine. For instance, a case study may be conducted on the pollution control methods being employed by an industry. Or a successful industrialist may be chosen as a subject of a case study to analyze and understand the strategies that the industrialist adopted to achieve success.

Ideally, a case study should be conducted on subjects with the objectives of bringing to the fore beliefs, practices, strategies, values etc. that have made them what they are. Such studies help us to understand the way in which great minds think and operate. We may also conduct case studies on failures; why a company collapsed, how a service lost its market etc. From both the types of case study, we learn lessons; how to do something or how not to do something. They also provide valuable insight into the processes involved in an enterprise.

A few topics are suggested for carrying out case studies:

- i) Drawing a profile of a successful entrepreneur.
- ii) Studying a public sector undertaking and highlighting its success/failure, by analyzing the factors responsible.
- iii) Studying a small scale unit in the locality to bring out the procedures and processes adopted by the unit to become a feasible business venture.
- iv) A study of competition in business by choosing two or more rivals in the market and analyzing their strengths and weaknesses.
- v) Take the school itself for a case study and analyze any two aspects of the school plant for chalking out a plan of action: infrastructure, academics, co-curricular activities etc.
- vi) A case study on a thriving fast food shop/restaurant in your locality. What makes it so popular?
- vii) A case study on the ways in which a business unit has mobilised its financial resources.
- viii) A case study on the enterprise management techniques adopted by a business house.
- ix) A case study on the marketing strategies of a successful consumer durable company.
- x) A case study on the financial management of a Public Limited Company.
- xi) A case study on any Specialized Institution that supports and guides the establishment of a small scale unit.
- xii) Studying the balance sheets of two big private companies to assess their trade and credit worthiness.
- xiii) Studying the inventory management of a large manufacturing industry to ascertain the processes involved for optimizing cost.
- xiv) Carrying out a case study on an established industrial house/company to find out the value system of the company and how it fulfils its social commitment/obligations.

xv) Carrying out a case study on an established industry to ascertain the processes followed to reduce/prevent pollution.

xvi) Study on environment friendly companies and their contribution to preservation.

#### **Assessment of Case Studies**

i) Presentation: Format, accuracy, clarity, authenticity and general

4.

ii)

neatness

Analysis and Conclusions

#### **Problem Solving**

7 marks

3 marks

#### **5 marks**

In this session, the students will be required to solve a problem in the form of a written test.

The examiner may choose any problem related to the units in class XII Text Book and set it for the class. The problem may be in the following areas:

a. How to scan the environment to establish the feasibility of a project.

b. Given certain figures showing the consumption pattern of a product, drawing conclusions that have a bearing on similar products.

c. Carrying out market assessment for a given product/service to ascertain the feasibility factor.

d. Assessment of Working Capital.

e. Calculation of total cost of production.

f. Calculation of break-even point.

g. Determining location of a manufacturing unit.

h. Problems in inventory control (calculation of the Economic Order Quantity and carrying out ABC analysis).

i. Applying Pricing methods to determine the price of a product or service.

j. Applying promotion mix to plan a sales campaign for a product or service.

k. Working out a simple budget for a given task or job.

#### **Assessment of Answers**

The examiner may prepare five problems which are solved by him/her before they are presented to the students. The student may choose anyone of the problems and solve it, showing the different steps/different reasons involved in the solution. If the problem does not involve actual calculations, it may not have anyone correct answer. So weightage should be given not only to the final answer but to the entire process of problem solving that the student has followed.

Originality and innovative spirit should be rewarded. The students should not be penalized for spelling errors, grammatical mistakes etc. as long as the answer is coherent. Where definite formulas are involved, accuracy should be given due weightage.

#### **LIST OF SUGGESTED REFERENCE BOOKS**

01. Entrepreneurship - Class XI - C. B. S. E., Delhi.

02. Entrepreneurship - Class XII- C. B. S. E., Delhi.

03. Udyamita (in Hindi) by Dr. M M.P. Akhouri and

S.P Mishra, pub. by National Institute for Entrepreneurship and Small Business Development (NIESBUD), NSIC-PATC Campus, Okhla.

04. Trainer's Manual on Developing Entrepreneurial Motivation, By M.M.P. Aukhori, S.P.

Mishra and R. Sengupta, Pub. by (NIESBUD), NSIC-PATC Campus, Okhla.

05. Behavioral Exercises and games - manual for trainers, learning systems, by M. V. Despande, P.



Mehta and M. Nandami.

06. Product Selection by Prof. H.N. Pathak, Pub. By (NIESBUD), NSIC-PATC Campus, Okhla.
07. Entrepreneurial Development - Dr. S. Moharana and Dr.C.R.Dash, Pub. by RBSA Publishers, Jaipur.
08. Entrepreneurial Development by S.S.Khanna, Published by S.Chand& Company Ltd., Ram Nagar, New Delhi.
09. Entrepreneurial Development by C.B. Gupta and N.P.Srinivasan, Publisher Sultan Chand & Sons, 1992.
10. Entrepreneurship Development - Principles, Policies and Programmes by P. Saravanel, Publishers Ess Pee Kay Publishing House, Madras.
11. Entrepreneurship, Growth and Development, by Rashi Ali, Pub. by Chugh Publication and Strech Road, Civil Lines, Post Box No. 101, Allahabad-211991.
12. Entrepreneur and Entrepreneurship Development and Planning in India, by D.N.Mishra, pub. by Chugh Publication, Allahabad.
13. AoudhogikDishaNirdesh (in Hindi) Pub. by Centre for Entrepreneurship Development, M.P. (CEDMAP), 60, Jail Road, Jhangerbad, Bhopal-462008.
14. Entrepreneur, Industry and Self-employment Project, Part-1 and 2(in Hindi), Pub. by Centre for Entrepreneurship Development, M.P. (CEDMAP), 60 Jail Road, Jhangerbad, Bhopal-462008.
15. Small Scale Industry & Self-Employment Projects, Part-1 and 2 (in Hindi), Pub. by Centre for Entrepreneurship Development, M.P. (CEDMAP),60 Jail Road, Jhangerbad Bhopal.

#### **Magazines**

01. UdyamitaSamacharPatra,(Monthly, Hind), Pub. by Centre for Entrepreneurship Development, M.P.(CEDMAP), 60 Jail Road, Jhangerbad, Bhopal-462008.
02. Science Tec. Entrepreneur (A Bi Monthly Publication), centre for Enterprenurship Development, M.P. (CEDMAP), 60 Jail Road, Jhangerbad , Bhopal -462008.
03. LaghuUdhyogSamachar.
04. Project Profile by DCSSI.
05. Project Profile by Pub. Centre for Enterpreurship Development, M.P. (CEDMAP), 60 Jail . Road, Jhangerbad, Bhopal-462008.

## 05. GEOGRAPHY

DIPLOMA VOCATIONAL IN INTERIOR DESIGN

LEVEL : IV  
 BRANCH DISCIPLINE : INTERIOR DESIGN  
 TEACHING & EXAMINATION SCHEME:

S. No	Subject	Subject Code	Period per week			Scheme of Examination					Total Marks	Credit
						Theory			Practical			
			L	T	P	ESE	CT	TA	EPE	TA		
1.	Theory	992455(46)	4	-	-	70	10	10	-	-	90	06
2..	Practical	992462(46)	-	1	1	-	-	-	30	10	40	02
	<b>Total</b>					70	10	10	30	10	130	10

### DISTRIBUTION OF MARKS & HOURS

Unit	Part	Topic	No. of Hours/ Periods	Marks Allotted
1.	Part A Fundamentals of Human Geography (35)	Human Geography	5	3
2.		People	09	5
3.		Human Activities	17	10
4.		Transport, Communication & Trade	17	10
5.		Human settlements	9	5
6.		Map Work	3	2
7.	Part B India: People and Economy(35)	People	09	5
8.		Human Settlements	07	4
9.		Resources and Development	20	12
10.		Transport, Communication and International Trade	12	7
11.		Geographical Perspective on selected issues and problems	07	4
12.		Map Work	05	3
	<b>C</b>	<b>Practical Work</b>		
	Unit 1:	Processing of Data and Thematic Mapping 15	15	15
	Unit 2:	Information Technology 10	10	10
	Unit 3	Practical Record Book and Viva Voce	05	05
<b>TOTAL</b>			<b>150</b>	<b>100</b>

## **Course Content:**

**One Theory Paper 3 Hours 70 Marks**

**A. Fundamentals of Human Geography 35 Marks**

**UNIT 1: HUMAN GEOGRAPHY: NATURE AND SCOPE**

**UNIT 2: PEOPLE**

zPopulation — distribution, density and growth

zPopulation change-spatial patterns and structure; determinants of population change;

zAge-sex ratio; rural-urban composition;

zHuman development - concept; selected indicators, international comparisons

**UNIT 3: HUMAN ACTIVITIES**

**(10 marks)**

zPrimary activities - concept and changing trends; gathering, pastoral, mining, subsistence agriculture, modern agriculture; people engaged in agricultural and allied activities - some examples from selected countries.

zSecondary activities-concept; manufacturing: types – household, small scale, large scale; agro based and mineral based industries; people engaged in secondary activities - some examples from selected countries.

zTertiary activities-concept; trade, transport and communication; services; people engaged in tertiary activities - some examples from selected countries

zQuaternary activities-concept; knowledge based industries; people engaged in quaternary activities - some examples from selected countries

**UNIT 4: TRANSPORT, COMMUNICATION AND TRADE**

**(10 marks)**

zLand transport - roads, railways; trans-continental railways. Network in Asia and Europe

zWater transport- inland waterways; major ocean routes.

zAir transport- Intercontinental air routes.

zOil and gas pipelines.

zSatellite communication and cyber space.

zInternational trade-Bases and changing patterns; ports as gateways of international trade, role of WTO in International trade.

**UNIT 5: HUMAN SETTLEMENTS**

zSettlement types - rural and urban; morphology of cities (case study); distribution of mega cities; problems of human settlements in developing countries.

**UNIT 6: MAP WORK ON IDENTIFICATION OF FEATURES BASED ON**

**ABOVE UNITS ON THE OUTLINE POLITICAL MAP OF WORLD.: (02 marks)**

**Part B. India: People and Economy**

**UNIT 7: PEOPLE**

zPopulation : distribution, density and growth; composition of population - linguistic, religious; sex, rural-urban and occupational– population change through time and regional variations;

zMigration: international, national-causes and consequences;

zHuman development: selected indicators and regional patterns;

zPopulation, environment and development.

**UNIT 8: HUMAN SETTLEMENTS**

**(04 marks)**

zRural settlements - types and distribution;

zUrban settlements - types, distribution and functional classification.

## **UNIT 9: RESOURCES AND DEVELOPMENT**

**(12 marks)**

zLand resources- general land use; agricultural land use, Geographical conditions and distribution of major crops (Wheat, Rice, Tea, Coffee, Cotton, Jute, Sugarcane and Rubber), agricultural development and problems.

zWater resources-availability and utilization-irrigation, domestic, industrial and other uses; scarcity of water and conservation methods-rain water harvesting and watershed management (one case study related with participatory watershed management to be introduced).

zMineral and energy resources- distribution of metallic (Ironore, Copper, Bauxite, Manganese) ; non-metallic (Mica, Salt) minerals; conventional (Coal, Petroleum, Natural gas and Hydro electricity) and non-conventional energy sources (solar, wind, biogas) and conservation.

zIndustries - types, factors of industrial location; distribution and changing pattern of selected industries-iron and steel, cotton textiles, sugar, petrochemicals, and knowledge based industries; impact of liberalization, privatisation and globalisation on industrial location; industrial clusters.

zPlanning in India- target area planning (case study); idea of sustainable development (case study).

## **UNIT 10: TRANSPORT, COMMUNICATION AND INTERNATIONAL TRADE**

zTransport Network-roads, railways, waterways and airways:

; communication networkings - radio, television, satellite and internet.

zInternational trade- changing pattern of India's foreign trade; sea ports and their hinterland and airports,

## **UNIT 11: GEOGRAPHICAL PERSPECTIVE ON SELECTED ISSUES AND PROBLEMS (ONE CASE STUDY TO BE INTRODUCED FOR EACH TOPIC)**

zEnvironmental pollution; urban-waste disposal.

zUrbanisation, rural-urban migration; problems of slums.

zLand Degradation.

## **UNIT 12: MAP WORK ON LOCATING AND LABELLING OF FEATURES BASED ON ABOVE UNITS ON OUTLINE POLITICAL MAP OF INDIA**

### **3 Marks**

#### **C. Practical Work 30 Marks**

Unit 1: Processing of Data and Thematic Mapping 15

Unit 2: Field study or Spatial Information Technology 10

Unit 3: Practical Record Book and Viva Voce 5

### **C. Practical Work**

#### **UNIT I : PROCESSING OF DATA AND THEMATIC MAPPING**

zSources of data.: Primary and Secondary

zTabulating and processing of data; calculation of averages, measures of central tendency, deviation and rank correlation;

Representation of data- construction of diagrams: bars,; thematic maps; construction of dot; choropleth maps.

Use of computers in data processing and mapping.

## **UNIT II: FIELD STUDY OR SPATIAL INFORMATION TECHNOLOGY**

Field visit and study: map orientation, observation and preparation of sketch; survey on any one of the local concerns; pollution, ground water changes, land use and land-use changes, poverty, energy

issues, soil degradation, impact of floods and drought, catchment area of school, Market survey and Household survey (any one topic of local concern may be taken up for the study; observation and questionnaire survey may be adopted for the data collection; collected data may be tabulated and analysed with diagrams and maps).

OR

### **Spatial Information Technology**

Introduction to GIS; hardware requirements and software modules; data formats; raster and vector data, data input, editing & topology building; data analysis; overlay & buffer

**Reference Book:** Geography NCERT XIIth class.

**06. INTERIOR DESIGN**  
**DIPLOMA VOCATIONAL IN INTERIOR DESIGN**

**LEVEL : IV**

**BRANCH DISCIPLINE : INTERIOR DESIGN**

**TEACHING & EXAMINATION SCHEME:**

S. No	Subject	Subject Code	Period per week			Scheme of Examination					Total Marks	Credit
						Theory			Practical			
			L	T	P	ELE	CT	TA	EPE	TA		
1.	Theory	992456(35)	3	1	-	100	10	10	-	-	120	8
2..	Practical	992463(35)	-	-	8	-	-	-	160	100	260	16
	<b>Total</b>		3	1	8	100	10	10	160	100	380	24

**DISTRIBUTION OF MARKS & HOURS**

CHAPTER NO.	CHAPTER NAME	HOURS	MARKS		
			ESE	EPE	TA
01	Basic Design – Interior Design.	90	20	50	30
02	Furniture Design – Introduction, History	60	10	30	10
03	Systems and Services – Introduction.	30	10	10	10
04	Arts & Graphics – 3-D, Sculpture.	45	20	30	10
05	Materials and Finishes – Advanced	30	10	10	10
06	Construction Process – Various activities.	45	10	30	10
07	Project Management – Introduction.	30	10	-	10
08	Sustainability, Environmental Awareness.	30	10	-	10
	<b>TOTAL</b>	360	100	160	100

**Course Content:**

**01.Basic Design – Interior Design**

Chapter -1- LIGHT

- Direct Light
- Indirect Light.
- Semi Direct Light
- Its use to create the environment and to create special effect.

Chapter -2- BASIC DESIGN FOR LIVING UNIT

- Basic Design problem with studies of similar example involving furniture and its spatial distribution with environmental consideration.
- Proposals in the form of Drawing (Plan and sectional elevations only) for the following small living units (any one)
- Study the space provided for circulation / movement.

2.1 Living Room

2.2 Kitchen Room

2.3 Master's/ Children's/ Guest Bed Room

Chapter -3- PRESENTATION

Presentation drawing of living unit described in chapter 2 in suitable media and technique (i.e. Interior perspective or other view)

## **02. Furniture Design – Introduction, History**

Chapter -1: STUDY OF DESIGNER FURNITURE -I

- Study of tubular steel chair (Mr. chair), Barcelona chair designed by Ludwig Mies Van Der Rohe in the form of sketches.
- Study of zigzag chair, red blue chair designed by Gerrit Rietveld in the form of sketches.

Chapter -2- STUDY OF DESIGNER FURNITURE -II

- Study of chaise lounge chair and Piamo chair designed by Le Corbusier and Alvar Alto in the form of sketches.

Chapter -3- FURNITURE AS PARTITION

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

Chapter -4-PARTITION

- Low height partition, fully panelled using timber frame with opening.
- Full height partition, fully/Partially glazed using timber frame with door
- Low height partition, fully panelled using Aluminium frame with opening.
- Full height partition, fully/Partially glazed using Aluminium frame with door

Complete with plan, Elevation, Section and Fixing details.

## **03. Systems and Services – Introduction.**

1. ELECTRICAL SERVICES.

- Need.
- Symbolic representation for different electrical item / fixture.
- Definitions (Lux, candle power, lumen, foot candle, etc.)
- Safety measures
- Different types of wiring systems and its application.
- Different types of illumination system.

- Electrical layout of any building showing position of distribution board, switches, fans, etc.
  - Different types of lighting systems.
- 2 AIR CONDITIONING SYSTEM
- Preliminary knowledge of A.C.
  - Types of A.C.

#### **04. Arts & Graphics – 3-D, Sculpture.**

Chapter-1- One Point Perspective

- Definitions
- Interior Perspective according to various positions of VP, Eye level

Chapter-2-Two Point Perspective

- Different types of two point interior perspective according to position of Vp & Eye level.

Chapter-3-Sciography

- Sciography of simple geometrical solids in plan, elevation, and view e.g. Cone, cylinder, pyramid etc.
- Sciography of simple building elements e.g. niche, projections, steps etc.

Chapter-4- 3-D Sculpture

- 3-D Sculpture using POP, Ceramic, tiles & other materials.

#### **05. Materials and Finishes – Advanced**

1. Timber - Types, Quality, Defects, Preservation, Seasoning
2. Glass – Classification, Production, Treatment.
3. External finishing material - Latest Finishing Material available in the market.
4. Floor finishing material - Latest Floor finishing material along with Conventional Floor Finish
5. External paint & internal paints - Paint, Types, Application

#### **06. Construction Process – Various activities.**

Chapter-1-STAIR

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

1.1- STRAIGHT FLIGHT STAIR

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

1.2- DOGLEDGED STAIR

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

Chapter -2- TIMBER FLOOR

- Introduction to single, Double & Triple timber floor.
- Complete constructional plus joinery detail with plan, elevation & section of single floor in timber.

Chapter -3- FALSE CEILING

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

Chapter -4-SHOP FRONT



- Introduction.

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

## **07. Project Management – Introduction.**

- Project Management
- Trend in Modern Management
- Strategic Planning & Project Programming
- Effect of Project Risk on Organization.
- Organization of project participants.
- Traditional Designer.

## **08. Sustainability, Environmental Awareness.**

Chapter –1 ENVIRONMENT STUDY

- Definition, Scope and Importance, Need for Public Awareness

Chapter –2 RENEWABLE RESOURCES

- Type of renewable resources
- Exploration of new resources to meet future demands

Chapter –3 NON-RENEWABLE RESOURCES

- Types of non-renewable resources
- Factors responsible for depletion of resources

Chapter –4 ECOSYSTEM STRUCTURE & FUNCTION

- Ecosystem-Introduction
- Producers, consumers, Decomposers
- Autotrophs, Heterotrophs
- Food Chain
- Ecological pyramid

Chapter –5 ECOSYSTEM TYPES & CHARACTERISTICS FEATURE

- Different types and characteristics features of ecosystems-
  - a) Forest ecosystems
  - b) Desert ecosystems
  - c) Grassland ecosystems

Aquatic ecosystems (ponds, streams, lakes, rivers, oceans estuaries)

## Practical/Viva

### 1. Basic Design : Interior Design

#### 1. Presentation of

- Direct Light, Indirect Light, Semi Direct Light,
- Its use to create the environment and to create special effect.

By market survey and site observation

2. Case study and Proposals in the form of Drawing (Plan and sectional elevations only) for the small living units (Bed room, Living room and Kitchen room) and Presentation drawing of living unit described in chapter 2 in suitable media and technique (i.e. Interior perspective or other view)

### 2. Furniture Design-Introduction, History.

- Drawing Sketch, Size and Materials etc. Description of Furniture designed by the designers Ludwig Mies Van Der Rohe Gerrit Rietveld Le Corbusier and Alvar Alto etc.
- Prepare drawing (Plan, Elevation, Section, Detail and view ) for
  - Low Height/ Full Height partition cum showcase of desired thickness to segregate the space & utilized both the faces of the partition in their respective areas with or without opening or door.
  - Low height partition, fully panelled using timber frame with opening.
  - Full height partition, fully/Partially glazed using timber frame with door
  - Low height partition, fully panelled using Aluminium frame with opening.
  - Full height partition, fully/Partially glazed using Aluminium frame with door

### 3. Systems and Services – Introduction.

Observation of the Electrical and Air conditioning services on site,

Market survey to collect the information regarding the various fixtures / accessories available and its presentation.

### 4. Arts & Graphics – 3-D, Sculpture.

Prepare drawing (Plan, Elevation, Section, Detail and view ) for

- Interior Perspective according to various positions of VP, Eye level
- Different types of two point interior perspective according to position of Vp & Eye level  
Sciography of simple building elements e.g. niche, projections, steps etc

3-D Sculpture using POP, Ceramic, tiles & other materials.

### 5. Materials and Finishes – Advanced

Observation of the Timber, Glass, Floor finish, External finish, Internal and External paint materials on site.

Market survey to collect the information regarding the above materials available and its presentation.

## 7. Construction Process-Variou activities

- Prepare Drawing plan and elevation of different types of stair
- Prepare drawing (Plan, Elevation, Section, Detail and view ) for
  - a. Latest finish Detail Joinery plus Plan, Elevation & Section of straight flight stair in timber wood & metal composite with latest finishes of Straight flight and Doglegged stair
  - b. Single floor in timber
  - c. False ceiling
  - d. Shop Front.
  - e.

### Suggested References

- An Introduction to Art, Craft, Technique, Science and profession of Interior Design by Ahmed Abdullah Kasu, Publisher Iqura Pub. Pvt. Ltd. Mumbai
- Building Construction Vol.II,III,IV W.B.Mckay, Pearson Publications.
- Electric wiring & Fitting,Arora, R.B.Publisher
- A Text Book on Perspective & Sciography, Shankar Mulik, Allied Publication Mumbai.
- Estimating and costing in civil engineering, B.N. Dutta, UPS Publishers Distribution Ltd.,New Delhi
- History of Interior Design by John Pile, Publisher: Harry m Abrams, New york.
- Air conditioning system, Domkundwar & Arora, Dhanpat Rai Publishing Company Pvt.Ltd.,4748/23,Ansari road, Daryaganj,New Delhi-110002
- Ecology and Environment Sharma P.D., Rastogi Pub., Meerut Macmillian

**PROPOSED COURSE OF STUDY AND SCHEME OF EXAMINATION OF  
DIPLOMA VOCATIONAL IN INTERIOR DESIGN  
LEVEL V**

S No	Subject	Subject Code	Period per week			Scheme of Examination					Total Marks	Credit
			L	T	P	Theory			Practical			
						ELE	CT	TA	EPE	TA		
<b>General Education</b>												
01	ECONOMICS	992551(46)	5	1	-	100	10	10	-	-	120	12
02	GEOGRAPHY	992552(46)	3	1	-	70	10	10	-	-	90	8
03	SOCIOLOGY	992553(46)	5	1	-	100	10	10	-	-	120	12
04	GEOGRAPHY LAB	992561(46)	-	-	3	-	-	-	30	10	40	6
<b>Vocational Education</b>												
06	INTERIOR DESIGN	992554(35)	3	1	-	100	10	10	-	-	120	08
07	INTERIOR DESIGN LAB	992563(35)	-	-	12	-	-	-	330	180	510	24
	<b>TOTAL</b>		<b>16</b>	<b>4</b>	<b>15</b>	<b>370</b>	<b>40</b>	<b>40</b>	<b>360</b>	<b>190</b>	<b>1000</b>	<b>70</b>

L-Lecture, T-Tutorial, P- Practical,ELE-End Level Exam, EPE-End Practical Exam, CT-Class Test, TA-Teachers Assessment  
Assuming Total Duration 30 Weeks  
Per Week 35Pds. Of One hour each

**HOURS**

**General Content.....570**

**Subject of Study Hrs.**

- 1. Economics 180**
- 2. Sociology 180**
- 3. Geography 210**
- 4. Vocational Content.....480  
(Interior Design)**

**Total.....1050**

**One Credit would mean equivalent of 15 period of 60 minutes each for Theory,Workshop/Labs and Tutorial.**

## 01.ECONOMICS

**DIPLOMA VOCATIONAL IN INTERIOR DESIGN**

**LEVEL : V**

**BRANCH DISCIPLINE : INTERIOR DESIGN**

**STUDY & EXAMINATION SCHEME:**

S No	Subject	Subject Code	Period per week			Scheme of Examination						Total Marks	Credit
						Theory			Practical				
						L	T	P	ELE	CT	TA		
1	Theory	992551(46)	5	1	-	100	10	10	-	-	120	12	

### DISTRIBUTION OF MARKS & HOURS:

Unit.	Paper	Topic	No. of Hours/ Periods	Marks Allotted
1.	Paper A MICRO ECONOMICS (50)	. Introduction	25	13
2.		Theory of Production and Costs	25	12
3.		Price and Output Determination	25	13
4.		Distribution	25	12
1.	Paper-B : INDIAN ECONOMY (50)	Features and Characteristics of Indian Economy	20	13
2..		Industry	20	12
3.		Principal Features of Indian Tax Structure	20	13
4.		Planning	20	12
<b>TOTAL</b>			<b>180</b>	<b>100</b>

### Course Content:

#### ECONOMICS

Paper-A : MICRO ECONOMICS

Unit-I

Introduction : Meaning, Nature and Scope of Economics, Definition of Economics (Adam Smith, Marshall and Robbins).

Theory of Demand and Consumer Behaviour : Utility Analysis and Indifference Curve

Analysis and introduction to Revealed Preference Theory; Consumers Surplus and its

measurements; Law of Demand and its Exceptions; Elasticity of demand and its measurement, Law of Supply.

Unit-II Theory of Production and Costs : Concept and Types of Production Function, Laws of Returns to Scale and Law of Variable Proportions; Cost Concepts and Cost Curves in Short and Long periods (Traditional Theory of Costs).

Market Forms and Revenue : Behaviour of Average Revenue and Marginal Revenue under Perfect and Imperfect Competition; Relationship Between Average Revenue, Marginal Revenue and Elasticity of Demand.

Unit-III

Price and Output Determination : Price and Output Determination of the Firm and Industry under Perfect Competition in the Short and Long run; Firm's Equilibrium under Monopoly in the Short and Long run; Discriminating Monopoly, and Monopolistic Competition.

Unit-IV

Distribution : Marginal Productivity Theory and Modern Theory of Wage Determination, Concept of Rent and Quasi Rent; Ricardian Theory and Modern Theory of Rent; Concept of Interest, Classical and Loanable Funds Theory; Concept of Profit, Gross and Net Profit, Risk and Uncertainty Theories of Profit.

Paper-B : INDIAN ECONOMY

Unit-I

Features and Characteristics of Indian Economy : Agriculture : Importance of Agriculture; Causes of Backwardness and Low Productivity; New Agricultural Strategy, Green Revolution and Critical Evaluation with Special Reference to Environmental Degradation; Land Reforms : Need, Implementation and Critical Evaluation.

Unit-II

Industry : Problems of Industrial Development; Public and Private Sector; Industrial Policy since 1956 with special emphasis on Recent Trends of liberalization; Role and Problems of Small and Large Scale Industries. Major large scale industries: Iron & Steel, Cotton Textile, Petroleum & I.T.

Unit-III

Principal Features of Indian Tax Structure. Division of Financial Resources between Centre and the States. Direction and Composition of Exports and Imports and Changes therein since Independence; Balance of Payment problem; Role of MNCs in India.

Unit-IV

Planning : Objectives, Strategy and Achievements of Indian Planning; Critical Evaluation of the latest Five Year Plan (plan wise details to be excluded); Major Indian Economic Problems : Inflation, Unemployment, Poverty and Population Growth; Introduction to Consumer Education and Consumer Protection (elementary ideas).

Reference Book:

1. Gauld, J.P. and Edward P.L.(1996), Microeconomics Theory, Richard Irwin, Homewood.
2. Koutsoyiannis, A (1990), Modern Microeconomics, Macmillan.
3. Datt, R. and K.P.M. Sudharam (2001) Indian Economy S. Chand & Company Ltd. New Delhi.
4. Dhingra, I.C., (2001), The Indian Economy Environment and Policy, Sultan Chand & Sons, New Delhi.
5. सूक्ष्म अर्थशास्त्र : Anupam Goyal
6. सूक्ष्म अर्थशास्त्र J.C. Pant

**02. GEOGRAPHY**  
**DIPLOMA VOCATIONAL IN INTERIOR DESIGN**

**LEVEL : V**  
**BRANCH DISCIPLINE : INTERIOR DESIGN**  
**TEACHING & EXAMINATION SCHEME:**

S.No	Subject	Subject Code	Period per week			Scheme of Examination					Total Marks	Credit
						Theory			Practical			
			L	T	P	ELE	CT	TA	EPE	TA		
1.	Theory	992552(46)	3	1	-	70	10	10	-	-	90	08
2..	Practical	992561(46)	-	-	3	-	-	-	30	10	40	06
	Total		3	1	3	70	10	10	30	10	130	14

**DISTRIBUTION OF MARKS & HOURS**

Unit	Paper	Topic	No. of Hours/ Periods	Marks Allotted
1.	Paper-A : PHYSICAL GEOGRAPHY-I : Geomorphology	Nature & Scope of Geography	15	8
2.		Movements of the Earth	15	9
3.		Rocks	15	9
4.		Geomorphic Agents and Landscapes	15	9
1.	Paper-B : PHYSICAL GEOGRAPHY-II (Climatology & Oceanography)	Climatology	15	8
2.		Atmospheric Pressure and Winds Distribution	15	9
3.		Nature and Scope of Oceanography	15	9
4.		Movements of Oceanic Waters	15	9
1.	Paper-C : CARTOGRAPHY	Maps and Scales	8	8
2.		Directions and Bearings	7	7
3.		Representation of Relief	8	8
4.		Weather Maps	7	7
<b>TOTAL</b>			<b>210</b>	<b>100</b>



**Course Content:**  
**GEOGRAPHY**

**Paper-A : PHYSICAL GEOGRAPHY-I : Geomorphology**

**UNIT-I**

Nature & Scope of Geography; place of physical geography within the discipline of geography, divisions of physical geography—geomorphology, climatology and oceanography.

Theories of the Origin of the Earth : Laplace, James, Jeans and Jeffreys, and Otto Schmidt.

Interior of the Earth : Recent Theory only, continental drift (with special reference to Wegener's theory and Plate Tectonics), isostasy by Airy & Pratt

**UNIT-II**

Movements of the Earth : Orogenic and epeirogenic movements (with special reference to Geosyncline theory), landforms resulting from forces of compression and tension; earthquakes and volcanoes (causes, types and distribution) Mountain Building Theory by Kober.

**UNIT-III**

Rocks : Their origin, classification and characteristics.

Major Land Forms : Mountains, plateaus and plains in the world.

**UNIT-IV**

Geomorphic Agents and Landscapes : Fluvial, glacial, aeolian, coastal, karst.

Brief Introduction to applications of geomorphology to transport, landuse, and environmental hazards management.

**Paper-B : PHYSICAL GEOGRAPHY-II (Climatology & Oceanography)**

**UNIT-I**

Definition of Climatology : Concepts of Climate and Weather. Nature and Scope of Climatology.

Climate : Factors controlling climate.

Physical Structure of the Atmosphere : Troposphere, Tropopause and Stratosphere and And Mesosphere /Thermosphere.

Physical and Chemical Composition of the Atmosphere : Dust particles, vapour particles, active gases, inert gases.

Insolation and Temperature : Horizontal distribution of insolation, vertical and horizontal and annual, seasonal and diurnal distributions of temperature.

**UNIT-II**

Atmospheric Pressure and Winds Distribution : Atmospheric disturbances : Tropical cyclones, temperate cyclones and anticyclones.

Atmospheric Moisture : Forms of condensation—cloud, dew, fog, frost and snow. Precipitation forms and types. World patterns of precipitation : Spatial and seasonal.

Role of Climate in Human Life : Atmospheric pollution and global warming – General causes, consequences and measures of control.

### UNIT-III

Nature and Scope of Oceanography

Oceanography : Definition, topography of the ocean basins; (topographies of Atlantic, Pacific and Indian Ocean).

Factors controlling the world patterns of distribution of temperature and salinity in the ocean waters.

### UNIT-IV

Movements of Oceanic Waters : Waves and currents. Surface currents of the oceans.

Marine Deposits, Corals. Tide : Their types, origin and uses to man

Oceans as storehouse of resources for the future.

### **Paper-C : CARTOGRAPHY**

Geography is an amalgam of physical as well as social sciences and as such it is necessary for the students to go through laboratory exercises, particularly to show directions and bearings and different methods of representing relief. The concept of scale is to be understood in the initial stage, and also an introduction to weather maps is required.

Course Content :

#### UNIT-I

Maps and Scales : History of cartography and types of maps. Scales : methods of representing scale; methods of construction of graphic scales : plain, comparative, time and diagonal scale.

#### UNIT-II

Directions and Bearings : Plotting of a course, true north, magnetic north, finding true north with the pole star, a watch and a rod; bearing and its conversion.

Introduction to Elementary Concept of Global Positioning System (GPS).

Enlargement and Reduction of maps : Graphic methods – Square Method..

#### UNIT-III

Representation of Relief

Methods of showing Relief : Contours,

#### UNIT-IV

Weather Maps : General introduction to the study of weather maps, the scheme of weather symbols including Beaufort's scale employed in Indian daily weather maps; weather in India : summer season Analysis(period of summer monsoon), winter season, forecasting of weather through the study of weather maps and recent advances in weather forecasting.

Reference Book:

7. Physical Geography(भौतिक भूगोल) : Dr. Sabindra Singh
8. Practical Geography(प्रयोगात्मक भूगोल): J.P. Sharma
9. Climatology and Oceanography: (जलवायु एवं समुद्र विज्ञान) D.S. Lal

### 03. SOCIOLOGY

#### DIPLOMA VOCATIONAL IN INTERIOR DESIGN

LEVEL : V

BRANCH DISCIPLINE : INTERIOR DESIGN

#### TEACHING & EXAMINATION SCHEME:

S.No	Subject	Subject Code	Period per week			Scheme of Examination					Total Marks	Credit
						Theory			Practical			
			L	T	P	ELE	CT	TA	EPE	TA		
1.	Theory	992553(46)	5	1	-	100	10	10	-	-	120	12
	Total		5	1	-	100	10	10	-	-	120	12

#### DISTRIBUTION OF MARKS & HOURS

Unit	Paper	Topic	No. of Hours/ Periods	Marks Allotted
1.	Paper-A (SOC-101) : FUNDAMENTALS OF SOCIOLOGY	Introduction to Sociology	25	13
2.		Basic Concepts	20	12
3.		Culture	25	13
4.		Socialization	20	12
1.	Paper-B : SOCIAL INSTITUTIONS	Institutions	25	13
2.		Social Institutions	20	12
3.		Political institutions	25	13
4.		Cultural Institutions	20	12
			180	100

## **Course Content: SOCIOLOGY**

### **Paper-A (SOC-101) : FUNDAMENTALS OF SOCIOLOGY**

#### **Unit-I**

Marks 13

- (I) Introduction to Sociology : Definition, Nature, Relationship with other Social Sciences – Anthropology, History, Political Science, Economics and Psychology.
- (II) Development of Society.

Human Society : Meaning, Characteristics, Theories of Origin of Society – Organic and Social-Contract; Relationship between Individual and Society.

#### **Unit-II** Society:

**(Marks 12)**

- i. Society : meaning, characteristics.
- ii. Community: meaning, characteristics.
- iii. Association: meaning, characteristics.
- iv. Institution: meaning, characteristics.
- v. Status and Role: meaning, types and characteristics.

#### **Unit-III** Socialization, Culture and Civilization:

(Marks 13)

Socialization: Meaning, stages, Agencies and theories G.H.Mead and C.H. Cooley

Culture : Meaning and Features, Culture lag

Civilization, Meaning, characteristics and culture and civilization Relationship

#### **Unit-IV** Social Group: Socialization

(Marks 12)

Social Groups: Meaning, characterization , classification , Primary and Secondary Group

Reference group.

Social Control : Meaning, Types and Agencies – Formal and Informal, Importance.

### **Paper-B : SOCIAL INSTITUTIONS**

#### **Unit-I.**

(13 Marks)

Institutions – Meaning, Features; Normative and Relational aspects of Institutions Types – Social, Political, Economic and Cultural.

Difference among Institutions, Associations, Society and Groups.

#### **Unit-II.**

(12Marks)

Social Institutions :Marriage –Types : Monogamy and Polygamy; Rules of Mate Selection, Changing Trends. Family – Meaning, Types, Structure, Function; Development Cycle and Changing Trends.

Kinship – Meaning, Significance and a Brief Understanding of Incest, Consanguinity, Affinity, Clan, Lineage.

#### **Unit-III.**

(13 Marks)

I Social stratification Casre and Class, Meaning Function,Difference

Cultural Institutions – Religion : Meaning, Types, Functions (Emile Durkheim & Max Weber).

#### **Unit-IV.**

(12 Marks)

Political Institutions – State, Government, Political Parties – Features and Functions.

Economic Institutions – Features and Functions, Property, Division of Labour (Emile Durkheim).

Reference Book

1. Society: Macilever
2. Society: Boradus

**04. INTERIOR DESIGN**  
**DIPLOMA VOCATIONAL IN INTERIOR DESIGN**

**LEVEL : V**  
**BRANCH DISCIPLINE : INTERIOR DESIGN**  
**TEACHING & EXAMINATION SCHEME:**

S.No	Subject	Subject Code	Period per week			Scheme of Examination					Total Marks	Credit
						Theory			Practical			
			L	T	P	ELE	CT	TA	EPE	TA		
1.	Theory	992554(35)	3	1	-	100	10	10	-	-	120	08
2..	Practical	992563(35)	-	-	12	-	-	-	330	180	510	24
	Total		3	1	12	100	10	10	330	180	630	32

**DISTRIBUTION OF MARKS & HOURS**

CHAPTER NO.	CHAPTER NAME	HOURS	MARKS		
			ESE	EPE	TA
01	Design problem limited scale (single function)	105	30	100	40
02	Presentation and communication skills using latest software.	60	-	60	20
03	Furniture design – traditional, European as well contemporary.	60	20	60	20
04	Traditional arts & crafts – world.	60	-	60	20
05	Systems & services – advanced.	45	10	20	20
06	Construction process and project management	60	20	-	20
07	Materials and finishes advanced	45	10	30	20
08	Sustainability, environmental awareness and climatic factors and their variations.	45	10	-	20
	TOTAL	480	100	330	180

## **Course Content: (Proposed Detail)**

### **01. Design problem limited scale (single function)**

#### Chapter -1- COLOUR

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

#### Chapter -2- BASIC DESIGN FOR INTERIOR SPACE

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

#### Chapter -3- BASIC DESIGN FOR TOILET

- Basic design for toilet with environment consideration

#### Chapter-4-PRESENTATION

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

### **02. Presentation and communication skills using latest software.**

MS Word, Excel, PowerPoint, CAAD 2D,3D using latest software

### **03. Furniture design – traditional, European as well contemporary.**

#### Chapter -1-MOVABLE FURNITURE.

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

#### Chapter -2- UPHOLSTERED FURNITURE

- Upholstered furniture like sofa-set Lounge chairs etc.

#### Chapter -3- BUILT IN FURNITURE

- Built in furniture like cupboard, wardrobe etc..

#### Chapter -4- ORNAMENTAL FURNITURE

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

#### Chapter -5- STUDY OF TRADITIONAL, EUROPEAN AND CONTEMPORARY FURNITURE.

### **04. Traditional arts & crafts – world.**

#### 1. SKILL DEVELOPMENT

- Develop skill in working with own hands in art & craft i.e. Painting, Murals, Sculptures etc. with various materials like Tiles, Bamboo sticks, Threads, Colours, Papers etc.

#### 2. PLANE & SOLID

Making Different 2-D & 3-D planes & Solids Blocks & their composition in given dimensions.

#### 3. CURTAIN & PLEATS

Curtain stitching, Types of Pleats.

#### 4. MODEL

- Interior models by using mount /3x Boards and other materials in suitable scale.

## **05. Systems & services – advanced.**

### 1 LIFT & ESCALATOR.

- Introduction.
- Load & Speed Calculation.
- Car / Flight Sizes.
- Other essential accessories

### 2 FIRE SAFETY SERVICES

- Need
- Systems for fire safety

### 3 ACOUSTICS

- Definition
- Calculation of RT
- Various types of acoustical treatment.

## **06. Construction process and project management**

- Construction sequence and Planning.
- Professional construction management.
- Owner –builder operation.
- Turnkey operation.
- Leadership and motivation for the project team.
- Interpersonal Behavior in project organizations.
- Perceptions of owners and Contractor.

## **07. Materials and finishes advanced**

- Timber products and laminates - Different types of timber products, Uses, What is laminate, Advantages of laminate.
- Plastic - Different types, Uses
- Different types of doors and windows - Materials used for making different types of doors and windows
- Drapery, upholstery, tapestry –Definition, Different types of materials used
- Wall finishing (lining, cladding, wall paper) - Wall lining, Cladding, Different types of wall papers, Purposes

## **08. Sustainability, environmental awareness and climatic factors and their variations.**

### Chapter –1 ENVIRONMENTAL POLLUTION -I

- Types and causes of air and water pollution
- Sources of air and water pollution

- Effect of air and water pollution

#### Chapter –2 ENVIRONMENTAL POLLUTION - II

- Types and causes of noise and soil pollution
- Sources of noise and soil pollution.
- Effect of noise and soil pollution

#### Chapter –3 ENVIRONMENTAL POLLUTION III

- Types & causes of solid waste
- Sources of solid waste
- Solid waste management

#### Chapter –4 CONSERVATION OF NATURAL RESOURCES

- Need to conserve natural resources
- Various measures to conserve the natural resources

#### Chapter –5 ENVIRONMENTAL PROTECTION ACT (S)

- Various important laws to protect environment

### Practical/Viva

#### 1. Design problem limited scale (single function)

##### 1. Presentation of

- Colour,
- Its use to create the environment and to create special effect.

By market survey and site observation

- Case study and Proposals in the form of Drawing (Plan and sectional elevations only) for the Single function unit (Restaurant/Shop) and Presentation drawing of living unit described in chapter 2 in suitable media and technique (i.e. Interior perspective or other view)
- Case study and Proposals in the form of Drawing (Plan and sectional elevations only) for the Toilet

#### 2. Presentation and communication skills using latest software.

- A Page writing with Letter Head, Paragraph etc. by using various commands.
- Prepare of small bills, Timetable, Required Calculations etc. by using various commands.
- Power Point presentation by using various commands.
- Drawing of various shapes by using various commands in Autocad.(2D and 3 D)
- Plan, Elevation, Section and view of interior space planning & Designing.

#### 3. Furniture design – traditional, European as well contemporary.

Prepare drawing (Plan, Elevation, Section, Detail and view ) for

- Movable furniture
- Upholstered furniture
- Built in furniture
- Ornamental furniture

Presentation on traditional, European and contemporary furniture



#### 4. Traditional Art and Crafts- World.

- Drafting of various shapes and its cutout.(2D)
- Model of various objects (3D)
- Curtain and Pleats.
- Model of Interior Design

#### 5. System and Services-Advanced.

Observation of the Lift & Escalator, Fire safety and Acoustics services on site,  
Market survey to collect the information regarding the Lift & Escalator, Fire safety and Acoustics fixtures / accessories available and its presentation.

#### 6. Materials and Finishes advance

Observation of the Timber Product, Plastic product, Door Windows, Drapery, upholstery, tapestry Glass, Wall finish, materials on site.

Market survey to collect the information regarding the above materials available and its presentation.

### Suggested References

- History of Interior Design by John Pile, Publisher: Harry m Abrams, New york.
- Estimating and costing in civil engineering, B.N. Dutta, UPS Publishers Distribution Ltd., New Delhi
- An Introduction to Art, Craft, Technique, Science and profession of Interior Design by Ahmed Abdullah Kasu, Publisher Iqaira Pub. Pvt. Ltd. Mumbai
- Professional Practice(Estimation & Valuation), Roshan Namawati, Lakhani Book Depot, Ram Chandra Bldg., 437, New Charni Road, Girgaum, Mumbai-4.
- Interior Design Principles and Practice, M. Pratap Rao, Standard Publishers Distributors, 1705-B, Nai Sarak, Delhi-110006, 2001
- AutoCad 2014, Amit Bhatta T. Kishor, Dream Tech.
- Principles of Environmental Studies Mano Harachary B.S., Publications
- Environments and ecology Pandey P.K., Sun India Publication, Delhi