



# **DIPLOMA IN ENGINEERING AND TECHNOLOGY**



**1014**

## **DIPLOMA IN INTERIOR DECORATION**

**SEMESTER PATTERN**

**G – SCHEME**

**IMPLEMENTED FROM 2022- 2023**

**DR DHARMAMBAL GOVERNMENT POLYTECHNIC  
COLLEGE FOR WOMEN, THARAMANI, CHENNAI – 600 113  
(AUTONOMOUS)**

**DR DHARMAMBAL GOVERNMENT POLYTECHNIC  
COLLEGE FOR WOMEN, THARAMANI, CHENNAI - 600  
113 (AUTONOMOUS) DIPLOMA IN  
ENGINEERING/TECHNOLOGY SYLLABUS (II/III YEAR)**

**G-SCHEME**

(Implemented from Academic Year 2022-23 onwards)  
**Syllabus Revision Committee**

<b>LIST OF EXPERTS - DIPLOMA IN INTERIOR DECORATION (1013)</b>	
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**Dr. DHARMAMBAL GOVERNMENT POLYTECHNIC COLLEGE  
FOR WOMENTHARAMANI, CHENNAI-113.**

**(An Autonomous Institution)**

**(Implemented from 2022 – 2023)G – SCHEME**

**RULES & REGULATIONS**

(APPLICABLE TO THE THREE YEARS REGULAR DIPLOMA PROGRAMME IN ENGINEERING / COMMERCIAL PRACTICE, 3½ YEARS SANDWICH DIPLOMA PROGRAMME IN ARCHITECTURAL ASSISTANTSHIP AND ONE YEAR DIPLOMA PROGRAMME IN COSMETOLOGY)

(For the batches of students admitted during 2022-2023 and subsequently)

**INTRODUCTION:**

Dr. Dharmambal Government Polytechnic College for Women, Chennai-113, was established in 1962. As many as 10(ten) diploma programmes are offered in this Polytechnic College. Semester system is followed during the entire course of study.

**1. Description of the Course:**

**a. Full Time (3 years)**

The Course for the Full Time Diploma in Engineering shall extend over a period of three academic years, consisting of 6 semesters\* and the First Year is common to all Engineering Branches except commercial Practice.

**b. Sandwich (3½ years)**

The Course for the Sandwich Diploma in Engineering shall extend over a period of three and half academic years, consisting of 7 semesters\*. The Architecture department subjects are starting from First Year onwards.

During 7<sup>th</sup> semester the students undergo industrial training for six months. Industrial training examination will be conducted after completion of 7<sup>th</sup> semester.

**c. Full Time (1 Year)**

The Course for the one year Full Time Diploma in Cosmetology shall extend over a period of one academic year, consisting of 2 semester\*. The department subjects are starting from First Year onwards.

**\* Each Semester will have 16 weeks duration of study with 35 hrs. / Week for Regular Diploma Courses.**

The Curriculum for all the 6 Semesters of Diploma courses (for three years Regular Diploma Programme in Engineering / Commercial Practice , 3½ years sandwich Diploma Programme in Architectural Assistantship and one year Diploma Programme in Cosmetology) have been revised and revised curriculum is applicable for the candidates admitted from 2022 – 2023 academic year onwards.

## **2. Condition for Admission:**

Condition for admission to the Diploma courses shall be required to have passed in the S.S.L.C Examination of the Board of Secondary Education, Tamil Nadu.

(Or)

The Anglo Indian High School Examination with eligibility for Higher Secondary Course in Tamil Nadu.

(Or)

The Matriculation Examination of Tamil Nadu.

(Or)

Any other Examinations recognized as equivalent to the above by the Board of Secondary Education, Tamil Nadu.

Note: In addition, at the time of admission the candidate will have to satisfy certain minimum requirements, which may be prescribed from time to time.

## **3. Admission to Second year (Lateral Entry):**

A pass in HSC (academic) or (vocational) courses mentioned in the Higher Secondary Schools in Tamil Nadu affiliated to the Tamil Nadu Higher Secondary Board with eligibility for University Courses of study or equivalent examination & Should have studied the following subjects.

A pass in 2 Years ITI with appropriate Trade or Equivalent examination.

Sl. No	Courses	H. Sc Academic	H. Sc Vocational		Industrial Training Institutes Courses
		Subjects Studied	Subjects Studied		
			Related Subjects	Vocational Subjects	
1.	All the Regular and Sandwich Diploma Courses	Physics and Chemistry as compulsory along with Mathematics / Biology	Maths / Physics / Chemistry	Related Vocational Subjects Theory & Practical	2 years course to bepassed with appropriate Trade
2.	Diploma Course in Commercial Practice	English & Accountancy  English & Elements of Economics  English & Elements of Commerce	English & Accountancy,  English & Elements of Economics,  English & Management Principles & Techniques,  English & Typewriting	Accountancy & Auditing,.  Banking  Business Management,  Co-operative Management, International Trade,  Marketing &  Salesmanship,  Insurance & Material Management, Office Secretary ship	-
3	Sandwich Diploma Courses	On par with Council of architecture norms			

- For the Diploma Courses related with Engineering / Technology, the related / equivalent subjects prescribed along

with Practicals may also be taken for arriving the eligibility.

- Branch will be allotted according to merit through counseling by the respective Principal as per communal reservation.
- For admission to the Commercial Practice Diploma course, the candidates studied the related subjects will be given first preference.
- *Candidates who have studied Commerce*  
*Subjects are not eligible for Engineering Diploma Courses.*
- Cosmetology Diploma Course minimum requirement for eligibility to admit is Higher Secondary pass whereas S.S.L.C is not eligible.

**4. Age Limit : No Age limit.**

**5. Medium of Instruction : English**

**6. BRANCHES OF STUDY :**

Candidates may be offered at the time of admission, one of the following branches of study.

<b>S.no</b>	<b>BRANCHES</b>	<b>TYPE OF DIPLOMA PROGRAMME</b>
1	Architectural Assistantship	Sandwich
2	Civil Engineering	Regular
3	Computer Engineering	Regular
4	Electronics & Communication Engineering	Regular
5	Environmental Engineering	Regular
6	Interior Decoration	Regular

7	Instrumentation & Control Engineering	Regular
8	Garment Technology	Regular
9	Commercial Practice	Regular
10	Cosmetology	Regular (one year)

## 7. Eligibility for the Award of Diploma:

No candidate shall be eligible for the award of Diploma unless he/she has undergone the prescribed course of study for a period of not less than 3 academic years in any institution affiliated to the State Board of Technical Education and Training, Tamil Nadu, when joined in First Year and two years if joined under Lateral Entry scheme in the second year and passed the prescribed examination.

The minimum and maximum period for completion of Diploma Courses are as given below:

Diploma Course	Minimum Period	Maximum Period
Full Time (Three year)	3 Years	6 Years
Full Time (Lateral Entry)	2 Years	5 Years
Sandwich	3½ Years	6½ Years
Full Time (One year)	1 Year	2 Year

This will come into effect from G Scheme onwards i.e. from the academic Year 2022-2023.

## 8. Subjects of Study and Curriculum outline:

The subjects of study shall be in accordance with the syllabus prescribed from time to time, both in theory and practical subjects.

The curriculum outline is given in Annexure - I.

## 9. Examinations:

Autonomous Examinations in all subjects of all the semesters under the scheme of examinations will be conducted at the end of each semester.

The internal assessment marks for all the subjects will be

awarded on the basis of continuous internal assessment earned during the semester concerned. For each subject 25 marks are allotted for internal assessment. Autonomous Examinations are conducted for 75 marks.

The total marks for result are  $75 + 25 = 100$  Marks.

## 10. Continuous Internal Assessment:

### A. For Theory Subjects:

The Internal Assessment marks for a total of 25 marks, which are to be distributed as follows:

#### **i) Subject Attendance**

**5**

**Marks**

(Award of marks for subject attendance to each subject

Theory/Practical will be as per the range given below)

80%	-	83%	1 Mark
84%	-	87%	2 Marks
88%	-	91%	3 Marks
92%	-	95%	4 Marks
96%	-	100%	5 Marks

#### **ii) Test #**

**1**

**0 Marks**

Two Tests: Test – I and Test – II each of 2 hours duration for a total of 50 marks are to be conducted. Average of these two test marks will be taken and the marks to be reduced to

**5 Marks**

Test – III is the Model Examination covering all the five units and the marks obtained will be reduced to

**5 Marks**

TEST	UNITS	WHEN TO CONDUCT	MARKS	DURATION
Test I	Unit – I & II	End of 6 <sup>th</sup> week	50	2 Hrs

<b>Test II</b>	Unit – III & IV	End of 12 <sup>th</sup> week	50	2 Hrs
<b>Test III</b>	<b>Model Examination:</b> Covering all the 5Units. (Autonomous Examination question paper - pattern).	End of 16 <sup>th</sup> week	75	3 Hrs

# From the Academic Year 2022 – 2023 onwards.

Question Paper Pattern for the Test - I and Test – II is as follows. The tests should be conducted by proper schedule. Retest marks should not be considered for internal assessment.

## TEST MARK ALLOCATION

### Without Choice:

Part A Type questions:	3 Questions × 5 mark	15 Marks
Part B Type questions:	5 Questions × 7 marks	35 Marks
	<b>Total</b>	<b>50 Marks</b>

### iii) Assignment

#### **Marks**

**5**

For each subject Three Assignments are to be given each for 20 marks and the average marks scored should be reduced for 5 marks.

### iv) Seminar Presentation

#### **Marks**

**5**

The students have to select the topics either from their subjects or general subjects which will help to improve their grasping capacity as well as their capacity to express the subject in hand. The students will be allowed to prepare the material for the given topic using the library hour and they will be permitted to present seminar (For First

and Second Year, the students will be permitted to present the seminar as a group not exceeding six members and each member of the group should participate in the presentation. For the Third Year, the students should present the seminar individually.) The seminar presentation is mandatory for all theory subjects and carries 5 marks for each theory subject. The respective subject faculty may suggest topics to the students and will evaluate the submitted materials and seminar presentation. (2 ½ marks for the material submitted in writing and 2 ½ marks for the seminar presentation). For each subject minimum of two seminars are to be given and the average marks scored should be reduced to 5 marks.

All Test Papers, Assignment Papers / Notebooks and the seminar presentation written material after getting the signature with date from the students must be kept in safe custody in the department for verification and audit. It should be preserved for one semester after publication of Autonomous Exam results and produced to the flying squad and the inspection team at the time of inspection/verification.

#### **B. For Practical Subjects:**

The Internal Assessment mark for a total of 25 marks which are to be distributed as follows:-

a	Attendance	<b>: 5 Marks</b> (Award of marks same as theory subjects)
b	Procedure observation and tabulation/ Other Practical related Work	<b>: 10 Marks</b>
c	Record writing	<b>: 10 Marks</b>
	<b>TOTAL</b>	<b>25 Marks</b>

- *All the Experiments/Exercises indicated in the syllabus should be completed and the same to be given for final examinations.*
- The observation note book / manual should be maintained for 10 marks. The observation note book / manual with

sketches, circuits, programme, reading and calculation written by the students manually depends upon the practical subject during practical classes should be evaluated properly during the practical class hours with date.

- The Record work for every completed exercise should be submitted in the subsequent practical classes and marks should be awarded for 10 marks for each exercise as per the above allocation.
- At the end of the Semester, the average marks of all the exercises should be calculated for 20 marks (including Observation and Record writing) and the marks awarded for attendance is to be added to arrive at the internal assessment mark for Practical. (20+5=25 marks).
- Only regular students, appearing first time have to submit the duly signed bonafide record note book/file during the Practical Autonomous Examinations.

All the marks awarded for Assignments, Tests, Seminar presentation and Attendance should be entered periodically in the Personal Theory Log Book of the staff, who is handling the theory subject. The marks awarded for Observation, Record work and Attendance should be entered periodically in the Personal Practical Log Book of the staff, who is handling the practical subject.

#### **11. Communication Skill Practical, Computer Application Practical and Physical Education:**

The Communication Skill Practical and Computer Application Practical with more emphasis are being introduced in First Year. Much stress is given to increase the Communication skill and ICT skill of students.

As per the recommendation of MHRD and under Fit India Scheme, the Physical Education (two Hours) is introduced to encourage students to remain healthy and fit by including physical activities and sports. Two hours are allotted to all I year students as physical activities and sports.

## **12. Attendance:**

Minimum attendance of 80% is prescribed for each courses of study (includes lecture hours, tutorial hours, assignment and test hours). Students falling to get 80% attendance will not be allowed to appear for the examination under any circumstances. However, a candidate who has secured attendance between 70% to 79% in the current semester due to medical reasons(hospitalization / accident / specific illness) or due to participation in College / District / State / National / International level sports events with prior permission from the Principal shall be given exemption from the prescribed attendance requirements and he / she shall be permitted to appear for the current semester examinations, if her progress has been satisfactory and her conduct has been satisfactory.

Candidates who do not qualify to appear for final examinations of any semester from second to sixth for want of attendance and / or progress must get readmitted at the immediate available opportunity and redo that semester courses. Candidates who do not qualify to appear for the final examinations of first semester have to discontinue the programme.

## **13. Entrepreneurship and Startup:**

In V Semester Entrepreneurship and Startup subject is mandatory and common subject for all the departments except Cosmetology department. The total marks for this subject is 75 marks.

## **TEST MARK ALLOCATION**

**Theory** **35 Marks**

Part A Type questions: 10 Questions × 2 marks 20 Marks

Part B Type questions: 3 Questions × 5 marks (Either or Pattern) 15 Marks

**Practical** **30 Marks**

Submission on Business Plan / Feasibility Report or Report on Unit IV & V

30 Marks

**Viva Voce**

**10 Marks**

**Total** **75 Marks**

## **Internal Assessment Mark**

Assignment (Unit I & II) - 10

Seminar (Unit III) - 10

Attendance - 5

**Total** **- 25**

**14. Project Work and Internship:(except sandwich 3 1/2 years and one year programme)** The students of all the Diploma Courses have to do a Project Work as part of the Curriculum and in partial fulfillment for the award of Diploma by the State Board of Technical Education and Training, Tamil Nadu. In order to encourage students to do worthwhile and innovative projects, every year prizes are awarded for the best three projects i.e. institution wise, region wise and state wise. **The Project work must be reviewed twice in the same semester. The project work is approved during the V semester by the properly constituted committee with guidelines.**

**a) Internal assessment mark for Project Work & Internship:**

Project Review I : **10 marks**

Project Review II	:	<b>10 marks</b>
Attendance	:	<b>05 marks</b> (Award of marks same as theory subject pattern)
<b>Total</b>	:	<b>25 marks</b>

Proper record should be maintained for the two Project Reviews and preserved for one semester after the publication of Autonomous Exams results. It should be produced to the flying squad and the inspection team at the time of inspection/verification.

**b) Allocation of Marks for Project Work & Internship in End Examinations:**

Demonstration/Presentation	: 20 marks
Report	: 20 marks
Viva Voce	: 15 marks
Internship Report	: 20 marks
<b>Total</b>	<b>: 75 marks</b>

**c) Internship Report:**

The internship training for a period of two weeks shall be undergone by every candidate (except Diploma in Cosmetology) at the end of IV / V semester during vacation. The certificate shall be produced along with the internship report for evaluation. The evaluation of internship training shall be done along with final year "Project Work & Internship" for 20 marks. The internship shall be undertaken in any industry / Government or Private certified agencies which are in social sector / Govt. Skill Centres / Institutions / Schemes.

**A neatly prepared PROJECT REPORT as per the format has to be submitted by individual student during the Project Work & Internship Autonomous examination.**

*Diploma in Cosmetology students should undergo internship training for a period of two weeks at the end of I / II Semester vacation. The certificate shall be produced and no mark for internship training.*

### 15. Scheme of Examination:

The Scheme of Examination for subjects are given in Annexure II

### 16. Criteria for Pass:

1. No candidate shall be eligible for the award of Diploma unless he/she has undergone the prescribed course of study successfully in an institution approved by AICTE and affiliated to the State Board of Technical Education & Training, Tamil Nadu and pass all the subjects prescribed in the curriculum.
2. A candidate shall be declared to have passed the examination in a subject if he / she secures not less than *40% in theory subjects and 50% in practical subjects* out of the total prescribed maximum marks including both the Internal Assessment and the Autonomous Examinations marks put together, subject to the condition that he / she secures at least a minimum of *30 marks out of 75 marks in the Autonomous End Theory / Drawing / Shorthand / Typewriting Examinations and a minimum of 35 marks out of 75marks in theAutonomous End Practical Examinations.*

### 17. Classification of successful candidates:

Classification of candidates who will pass out the final examinations from April 2025 onwards (Joined first year in 2022 -2023) will be done as specified below.

#### **First Class with Superlative Distinction:**

A candidate will be declared to have passed in **First Class with Superlative Distinction** if he / she secures not less than 75% of the marks in all the subjects and passes all the semesters in the first appearance itself and passes all subjects within the stipulated period of study 2 / 3 / 3½ years [Full time / Full Time (Lateral Entry) / Sandwich] without any

break in study.

### **First Class with Distinction:**

A candidate will be declared to have passed in **First Class with Distinction** if he / she secures not less than 75% of the aggregate marks in all the semesters put together and passes all the semesters except the I and II semester in the first appearance itself and passes all subjects within the stipulated period of study 2 / 3 / 3½ years [Full time / Full Time (Lateral Entry) / Sandwich] without any break in study.

### **First Class:**

A candidate will be declared to have passed in **First Class** if he / she secures not less than 60% of the aggregate marks in all the semesters put together and passes all the subjects within the stipulated period of study 2 / 3 / 3½ years [Full time / Full Time (Lateral Entry) / Sandwich] without any break in study.

### **Second Class:**

All other successful candidates will be declared to have passed in **Second Class** who are all pass out in Autonomous End Examination from April 2025 / October 2025 onwards which is applicable for all regular and sandwich students.

## **18. Duration of a period in the Class Time Table:**

The duration of each period of instruction is 1 hour and the total period of instruction hours excluding interval and lunch break in a day should be uniformly maintained as 7 hours corresponding to 7 periods of instruction (Theory & Practical).

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## ANNEXURE I

DR DHARMAMBAL GOVERNMENT POLYTECHNIC COLLEGE FOR WOMEN,  
THARAMANI, CHENNAI - 600 113 (AUTONOMOUS)

1013: DIPLOMA IN INTERIOR DECORATION SYLLABUS

G-SCHEME

(To be implemented for the students admitted from the year 2022-23 onwards)

### CURRICULUM OUTLINE

#### THIRD SEMESTER

Col. No	Subject Code	SUBJECT	HOURS PER WEEK				
			Theory Hours	Drawing	Tutorial	Practical hours	Total Hours
1	IDG301	Evolution of Interior Design –I	5	-	-	-	5
2	IDG302	Theory of Interior Design	5	-	-	-	5
3	IDG303	Interior services-I	4	-	-	-	4
4	IDG371	Free hand sketching and rendering	-	-	-	4	4
5	IDG372	Materials and construction-I	-	-	-	4	4
6	IDG373	Interior Design Studio-I	-	-	-	5	5
7	IDG374	Computer Application in Interior Decoration – I	-	-	-	5	5
As Per Dote instructions - Extra/ Co-curricular activities		Physical Education	-	-	-	-	2
		Library	-	-	-	-	1
TOTAL			14	-	-	18	35

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DR DHARMAMBAL GOVERNMENT POLYTECHNIC COLLEGE FOR WOMEN,  
THARAMANI, CHENNAI - 600 113 (AUTONOMOUS)

1013: DIPLOMA IN INTERIOR DECORATION SYLLABUS

G-SCHEME

(To be implemented for the students admitted from the year 2022-23 onwards)

### CURRICULUM OUTLINE

#### FOURTH SEMESTER

Col. No	Subject Code	SUBJECT	HOURS PER WEEK				
			Theory Hours	Drawing	Tutorial	Practical hours	Total Hours
1	IDG401	Evolution of Interior Design –II	5	-	-	-	5
2	IDG402	Interior Services-II	4	-	-	-	4
3	IDG403	Furniture and Furnishings	4	-	-	-	4
4	IDG404	Creative arts and crafts	4	-	-	-	4
5	IDG741	Materials and construction-II	-	-	-	4	4
6	IDG742	Computer Application in Interior Decoration – II	-	-	-	6	6
7	IDG743	Interior Design Studio-II	-	-	-	5	5
As Per Dote instructions - Extra/ Co-curricular activities		Physical Education	-	-	-	-	2
		Library	-	-	-	-	1
<b>TOTAL</b>			<b>17</b>	<b>-</b>	<b>-</b>	<b>15</b>	<b>35</b>

## ANNEXURE I

**DR DHARMAMBAL GOVERNMENT POLYTECHNIC COLLEGE FOR WOMEN,  
THARAMANI, CHENNAI - 600 113 (AUTONOMOUS)**

**1013: DIPLOMA IN INTERIOR DECORATION SYLLABUS**

**G-SCHEME**

(To be implemented for the students admitted from the year 2022-23 onwards)

### CURRICULUM OUTLINE

#### FIFTH SEMESTER

Col. No	Subject Code	SUBJECT	HOURS PER WEEK				
			Theory Hours	Drawing	Tutorial	Practical hours	Total Hours
1	IDG501	Estimating and Costing	5	-	-	-	5
2	IDG502	Environmental Science	4	-	-	-	4
3	IDG801 IDG802 IDG803	<b><u>Elective Theory - I</u></b> i) Textile Design ii) Illumination iii) Environment Control In Interiors.	4	-	-	-	4
4	IDG571	Interior drawing	-	-	-	5	5
5	IDG572	Interior Design Studio – III	-	-	-	6	6
6	IDG871 IDG872 IDG873	<b><u>Elective Practical-I</u></b> i) Workshop ii) Model Making iii) Furniture design and detailing	-	-	-	4	4
7	IDG573	Entrepreneurship and Startups	-	-	-	4	4
As Per Dote instructions - Extra/ Co-curricular activities		Physical Education	-	-	-	-	2
		Library	-	-	-	-	1
<b>TOTAL</b>			<b>13</b>	<b>-</b>	<b>-</b>	<b>19</b>	<b>35</b>

## ANNEXURE I

### DR DHARMAMBAL GOVERNMENT POLYTECHNIC COLLEGE FOR WOMEN, THARAMANI, CHENNAI - 600 113 (AUTONOMOUS)1013: DIPLOMA IN INTERIOR DECORATION SYLLABUS

#### G-SCHEME

(To be implemented for the students admitted from the year 2022-23 onwards)

### CURRICULUM OUTLINE

#### SIXTH SEMESTER

Col. No	Subject Code	SUBJECT	HOURS PER WEEK				
			Theory Hours	Drawing	Tutorial	Practical hours	Total Hours
1	IDG601	Acoustics	5	-	-	-	5
2	IDG602	Professional Practice and Management	5	-	-	-	5
3	IDG804 IDG805 IDG806	<b><u>Elective Theory-II</u></b> 1) Interior of heritage structures 2) Modular design 3) Interior landscape	5	-	-	-	5
4	IDG671	Computer Application in Interior decoration – III	-	-	-	6	6
5	IDG672	Project Work and Internship	-	-	-	6	6
6	IDG874 IDG875 IDG876	<b><u>Elective Practical-II</u></b> 1. Design Concepts - Furniture and furnishings 2. Interior Landscape and Detailing 3. Lighting and colors in interiors	-	-	-	5	5
As Per Dote instructions - Extra/ Co-curricular activities		Physical Education	-	-	-	-	2
		Library	-	-	-	-	1
TOTAL			15	-	-	17	35

## ANNEXURE II

**DR DHARMAMBAL GOVERNMENT POLYTECHNIC COLLEGE FOR WOMEN,  
THARAMANI, CHENNAI - 600 113 (AUTONOMOUS)1013: DIPLOMA IN  
INTERIOR DECORATION SYLLABUS**

### **G-SCHEME**

**(To be implemented for the students admitted from the year 2022-23 onwards)**

### **SCHEME OF THE EXAMINATION**

#### **THIRD SEMESTER**

<b>Subject Code</b>	<b>Subject Name</b>	<b>Examination Marks</b>			<b>Minimum for pass</b>	<b>Duration of Exam Hours</b>
		<b>Internal assessment Marks</b>	<b>Board Exam Marks</b>	<b>Total Mark</b>		
IDG301	Evolution of Interior Design –I	25	75	100	40	3
IDG302	Theory of Interior Design	25	75	100	40	3
IDG303	Interior services-I	25	75	100	40	3
IDG371	Free hand sketching and rendering	25	75	100	50	3
IDG372	Materials and construction-I	25	75	100	50	3
IDG373	Interior Design Studio-I	25	75	100	50	3
IDG374	Computer Application in Interior Decoration – I	25	75	100	50	3
<b>TOTAL</b>		<b>175</b>	<b>525</b>	<b>700</b>		

## ANNEXURE II

DR DHARMAMBAL GOVERNMENT POLYTECHNIC COLLEGE FOR WOMEN,  
THARAMANI, CHENNAI - 600 113 (AUTONOMOUS)1013: DIPLOMA IN  
INTERIOR DECORATION SYLLABUS

### G-SCHEME

(To be implemented for the students admitted from the year 2022-23 onwards)

### SCHEME OF THE EXAMINATION

#### FOURTH SEMESTER

Subject Code	Subject Name	Examination Marks			Minimum for pass	Duration of Exam Hours
		Internal assessment Marks	Board Exam. Marks	Total Mark		
IDG401	Evolution of Interior Design –II	25	75	100	40	3
IDG402	Interior Services-II	25	75	100	40	3
IDG403	Furniture and Furnishings	25	75	100	40	3
IDG404	Creative arts and crafts	25	75	100	40	3
IDG741	Materials and construction-II	25	75	100	50	3
IDG742	Computer Application in Interior Decoration – II	25	75	100	50	3
IDG743	Interior Design Studio-II	25	75	100	50	3
<b>TOTAL</b>		<b>175</b>	<b>525</b>	<b>700</b>		

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THARAMANI, CHENNAI - 600 113 (AUTONOMOUS)1013: DIPLOMA IN  
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### G-SCHEME

(To be implemented for the students admitted from the year 2022-23 onwards)

### SCHEME OF THE EXAMINATION

#### FIFTH SEMESTER

Subject Code	Subject Name	Examination Marks			Minimum for pass	Duration of Exam Hours
		Internal assessment Marks	Board Exam. Marks	Total Mark		
IDG501	Estimating and Costing	25	75	100	40	3
IDG502	Environmental Science	25	75	100	40	3
IDG801 IDG802 IDG803	<b><u>Elective Theory - I</u></b> i) Textile Design ii) Illumination iii) Environment Control In Interiors.	25	75	100	40	3
IDG571	Interior drawing	25	75	100	50	3
IDG572	Interior Design Studio – III	25	75	100	50	3
IDG871 IDG872 IDG873	<b><u>Elective Practical-I</u></b> i) Workshop ii) Model Making iii) Furniture design and detailing	25	75	100	50	3
IDG573	Entrepreneurship and Startups	25	75	100	50	3
<b>TOTAL</b>		<b>175</b>	<b>525</b>	<b>700</b>		

## ANNEXURE II

### DR DHARMAMBAL GOVERNMENT POLYTECHNIC COLLEGE FOR WOMEN, THARAMANI, CHENNAI - 600 113 (AUTONOMOUS)1012: DIPLOMA IN ARCHITECTURAL ASSISTANTSHIP SYLLABUS

#### G-SCHEME

(To be implemented for the students admitted from the year 2022-23 onwards)

### SCHEME OF THE EXAMINATION

#### SIXTH SEMESTER

Subject Code	Subject Name	Examination Marks			Minimum for pass	Duration of Exam Hours
		Internal assessment Marks	Board Exam. Marks	Total Mark		
IDG601	Acoustics	25	75	100	40	3
IDG602	Professional Practice and Management	25	75	100	40	3
IDG804 IDG805 IDG806	<b><u>Elective Theory-II</u></b> i) Interior of heritage structures ii) Modular design iii) Interior landscape	25	75	100	40	3
IDG671	Computer Application in Interior decoration – III	25	75	100	50	3
IDG672	Project Work and Internship	25	75	100	50	3
IDG873 IDG874 IDG875	<b><u>Elective Practical-II</u></b> i) Design Concepts- Furniture and furnishings ii) Interior Landscape and Detailing iii) Lighting and colors in interiors	25	75	100	50	3
<b>TOTAL</b>		<b>175</b>	<b>450</b>	<b>600</b>		

## **III SEMESTER**

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG301  
 Semester : III Semester  
 Subject Title : EVOLUTION OF INTERIOR DESIGN-I

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
EVOLUTION OF INTERIOR DESIGN-I	5 Hours	80 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	ANCIENT ERA	15
II	EUROPEAN CLASSICAL	14
III	MEDIEVAL & RENAISSANCE EUROPE	14
IV	EUROPE & AMERICA (16 <sup>TH</sup> CENTURY– 19 <sup>TH</sup> CENTURY)	15
V	MODERN ERA	15
Test & Model Examination		7
<b>Total</b>		<b>80</b>

## RATIONALE

Students of interior decoration at diploma level understand the vocabulary and terminology in the field of architecture. The course on evolution of interior design develops appreciation regarding past and current trends in the field of architecture. The teacher should try to create interest among the students for this course by organizing site visits to the local old monuments. Use of audio-visual aids, emphasis on materials, construction methods, structural system and design concepts involved and also motivate the students.

## OBJECTIVES

At the completion of the study, the students will be able

- To understand the new technology and new materials, general trend, effect of society and terminology on Architecture
- To inculcate an awareness and appreciation among the students about the evolution of interior design .art and architecture, its growth and development through ages, with specific reference and focus on the interior spaces- for living, working, entertainment and worship.

## DETAILED SYLLABUS

### IDG301- EVOLUTION OF INTERIOR DESIGN-I

Contents: Theory

Unit	Name of the Topic	Hours
I	<b>ANCIENT ERA</b> Prehistoric Civilization – Old Stone Age, Mid Stone Age, New Stone Age, Mesopotamia – The cradle of civilization- Sumerian period – Babylonian period – Assyrian period – Persian period, Chinese Civilization: Architectural styles – History of Chinese antique furniture, Egyptian Civilization: Egyptian Architecture – Egyptian furniture: Characteristics and major forms	15
II	<b>EUROPEAN CLASSICAL</b> Greek Period: Architecture – The Classical Greek Orders, Greek furniture: Types of furniture, materials and decoration, Roman Civilization: Architecture, Roman furniture, major forms.	14

<b>III</b>	<b>MEDIEVAL &amp; RENAISSANCE EUROPE</b> Christian Periods: Gothic Architecture – Renaissance Architecture – Italian Renaissance – Renaissance in France – The English Renaissance (The Tudor Period, The Elizabethan Period)	14
<b>IV</b>	<b>EUROPE &amp; AMERICA (16<sup>TH</sup>CENTURY– 19<sup>TH</sup>CENTURY)</b> English Period (16th cen. To 19th cen.) – the Restoration Period –The Queen Anne Period – The Georgian Periods (Early and Middle) – The Neo-classical Periods (English Late Georgian: Adam, Hepplewhite and Sheraton, English Neo-classical, George Hepplewhite, Thomas Sheraton) , French Period (17th cen. To 19 <sup>th</sup> cen): Louis X <sup>II</sup> –Louis X <sup>III</sup> – Louis XIV – Louis XV – Louis XVI –Directoire – Empire, American Period (17th Century to 19th Century): Colonial – Federal – Victorian	15
<b>V</b>	<b>MODERN ERA</b> Late 19th century Styles Development and onwards: Art and Crafts – Art Nouveau - Colonial Revival – Eclectic - Modern – Bauhaus – Art Deco – Surrealism – Scandinavian Modern – Post Modernism – Contemporary (Parametric and Dynamic furniture).	15

## REFERENCE BOOKS

- 1.“B.N.Dutta”-“ Estimating and Costing”
- 2.“S.C.Rangwala”-“ Estimating and Costing”
3. “ D.D.Kohli & R.D.Kohli”-“Estimating and Costing”
- 4.Architecture and Interior Design; A Basic History Through the Seventeenth Century/Victoria CrossBall/Wiley
- 5.History of Interior Design/John Pile/Harry M Abrams, Prentice Hall, New York
- 6.A History of Architecture (Century Edition) / Sir Banister 7.Fletcher / Butterworth Heinemann (Hb), CBS Publishers & Distributors (Pb)
- 8.The Story of Architecture FROM ANTIQUITY TO THEORYE PRESENT / Jan Gympel / KÖNEMANN (Pb)
- 9.The Great Ages of World Architecture / G. H. Hiraskar / Dhanpat Rai Publication

## WEBSITE

<https://nptel.ac.in>

<https://ndl.iitkgp.ac>

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG302  
 Semester : III Semester  
 Subject Title : THEORY OF INTERIOR DESIGN

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
THEORY OF INTERIOR DESIGN	5 Hours	80 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	INTERIOR SPACE	15
II	DESIGN VOCABULARY	13
III	DESIGN PRINCIPLES	13
IV	ANTHROPOMETRICS	16
V	DESIGN CONTROL	16
Test & Model Examination		7
<b>Total</b>		<b>80</b>

## RATIONALE

Students of interior decoration at diploma level understand the vocabulary and terminology in the field of architecture. The object of this course is to make students understand the various aspects such as spatial quality, design vocabulary, design principles, and design process related to the design of interiors. The teacher should try to create interest among the students for this course by organizing site visits to the local modern buildings.

## OBJECTIVES

At the completion of the study, the students will be able to

- Understanding various aspects such as form, scale, light, dimension, height, transitional elements etc affecting interior space.
- Understanding and applying design vocabulary such as Point, Line, shape, color, texture, area, mass, volume etc.
- Understanding and applying design principles such as ratio, proportion, scale, balance, harmony, unity, variety, rhythm, emphasis.
- Understanding the process involved in design including analysis, synthesis and evaluation.

## DETAILED SYLLABUS

### IDG302- THEORY OF INTERIOR DESIGN

Contents: Theory

Unit	Name of the Topic	Hours
I	<b>INTERIOR SPACE</b> Space – definition; Interior space – spatial qualities: form, scale, outlook; structuring space with interior design elements; spatial form; spatial dimension – square, rectangle, curvilinear spaces; height of space; spatial transitions – openings within wall planes, doorways, windows, stairways.	15
II	<b>DESIGN VOCABULARY</b> Form – point, line, volume, shape, texture & color – in relation to light, pattern etc. and application of the same in designing interiors.	13
III	<b>DESIGN PRINCIPLES</b> Ratio; proportions – golden section; relationships; scale; Balance – symmetrical, radial, occult; harmony; unity; variety; rhythm; emphasis.	13

<b>IV</b>	<b>ANTHROPOMETRICS</b> Definition, theory of standard dimension based on human figures for activities, functions, circulation, furniture design, spatial requirements etc. Study of Ergonomics Design of Furniture for Living, Dining, Kitchen, Office etc.	16
<b>V</b>	<b>DESIGN CONTROL</b> Design process – Analysis, synthesis, design evaluation; Design criteria – function and purpose, utility and economy, form and style; human factors - human dimensions, distance zones, activity relationships; fitting the space – plan arrangements, function, aesthetics.	16

## REFERENCE BOOKS

1. Francis. D. K. Ching, Interior design Illustrated, Van Nostrand Reinhold
2. John. F. Pile, Interior Design, Harry Abrams Inc.
3. Sam. F. Miller, Design process – a primer for Architectural and Interior Design, Van Nostrand Reinhold.
4. Gary Gordon, Interior lighting for designers, John Wiley & Sons Inc.
5. Harold Linton, Colour in Architecture, McGraw Hill
6. Jonathan Poore, Interior Colour By Design, Rock Port Publishers.
7. Sherrill Winton, Interior Design and Decoration, Prentice Hall.
8. Johanness Itten, The Art of Colour, John Wiley and Son.

## Session marks

Internal : 25 marks      10 marks - Test  
                                  05 marks - Assignment  
                                  05 marks - Seminar  
                                  05 marks - Attendance

External : 75 marks      Theory

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Total 100

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG303  
 Semester : III Semester  
 Subject Title : INTERIOR SERVICES-I

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
INTERIOR SERVICES-I	4 Hours	64 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	WATER SUPPLY AND DRAINAGE	13
II	ELECTRICAL SERVICES & WIRING SYSTEM	12
III	LIGHTING –NATURAL & ARTIFICIAL ILLUMINATION	10
IV	LIGHTING DESIGN	11
V	BUILDING SAFETY AND SECURITY SYSTEMS	11
Test & Model Examination		7
<b>Total</b>		<b>64</b>

## **RATIONALE**

Interior services bring buildings and structures to life. This includes design, installation, and operation & monitoring of the mechanical, electrical and public health systems required for the safe, comfortable and environmentally friendly, acoustically treated modern buildings. Building services engineers work closely with other construction professionals; architects, structural engineers and quantity surveyors. They influence the architecture of a building and play a significant role on the sustainability and energy demand of a building. Within building services engineering, new roles are emerging, for example in the areas of renewable energy, sustainability, low carbon technologies and energy management. A typical building services engineer has a wide ranging career path include design, Construction, electrical, lighting, water supply, security systems and drainage.

## **OBJECTIVES**

At the end of the study of IV Semester the student will be able to

- Understand the electrical terms, units and symbols involved in the building industries both commercial and residential
- To prepare electrical layout for residential buildings
- To understand the importance of sources of water and supply methods
- To understand different types of fixtures and plumbing methods involved in residence
- To gain knowledge about lighting systems, units of lighting and types
- To prepare drainage layout for residential buildings.
- To gain knowledge about modern buildings safety and security systems.

## **DETAILED SYLLABUS**

### **IDG303- INTERIOR SERVICES- I**

Contents: Theory

<b>Unit</b>	<b>Name of the Topic</b>	<b>Hours</b>
<b>I</b>	<p><b>WATER SUPPLY AND DRAINAGE</b></p> <p><b>Water Supply :</b> Hot and cold water supply system -Geyser and boilers- types and sizes of pipes, water supply fittings to bathrooms, Water closets, sink, bathtubs, washbasins, bidets, showers, urinals, etc. Sanitary fixtures like water closet, European and Indian, urinals, bath tubs, bides, washbasin, - towel rods, shower curtains. Jacuzzi- Bath enclosure, Multi functional shower panels sauna, sensors.</p> <p><b>B. Drainage:</b> Principles of drainage- Materials for drains - Traps - their types, function and uses. Earthen pipes, Cement pipe, P.V.C. pipes and C.I. pipes. Sanitary fixture – Water closets, washbasins, bath tube, sinks - their types, sizes. Septic tank - types, sizes, etc.</p>	<p>7</p> <p>6</p>
<b>II</b>	<p><b>ELECTRICAL SERVICES AND WIRING SYSTEM</b></p> <p><b>ELECTRICAL SERVICES</b></p> <p>Electrical system, symbols used - three phase and single phase system- simple electrical layouts for residential and commercial buildings.</p> <p><b>WIRING SYSTEM</b></p> <p>Different types of Wiring – Materials used - Standard Wire Gauge – various types of Switches – Plugs –Two Pin &amp; Three Pin Plugs – Junction Boxes –Electrical chimneys. Electrical Terms &amp; Units – Supply and Distribution in MultiStoried Buildings – Electrical load – Meter room – Use of generators, invertors, emergency lamps.</p>	<p>5</p> <p>7</p>
<b>III</b>	<p><b>LIGHTING – NATURAL &amp; ARTIFICIAL ILLUMINATION</b></p> <p>Introduction - 9 Introduction - Light - Electromagnetic radiation, Visual task requirements, Units of Light, Light, Vision and Buildings, Standards of Lighting and Visual comfort.The sky as a source of light, Daylight factor, Lighting - Windows, Room proportions and other building elements, Daylight penetration, Calculation of daylight factor - Artificial lighting - types of lighting systems General lighting system - Direct light - Indirect light</p>	6

	<b>LAMPS</b> Variety of Lamps - Incandescent lamps - Tungsten Halogen lamps - Florescent lamps - Mercury lamps - sodium vapor lamps - LED lamps, flicker Emergency lightings - Protection devices.	4
<b>IV</b>	<b>LIGHTING DESIGN</b> Artificial lighting and different types of Planning for lighting - Position of lighting points – strength of light – type of light –type of light & its cover- Type of fixtures, Elements of fixtures - Different type of lighting system in residential , commercial and office interiors- location of light points planning and design - illuminations required in Various areas. Types of lighting - Accent lighting, Up lighting, Downlighting , Moonlighting ,Shadowing, Silhouetting , cross lighting and Path lighting.	11
<b>V</b>	<b>BUILDING SAFETY AND SECURITY SYSTEMS</b> Introduction- designing a security system – burglar alarm, CCTV, central alarm systems, intrusion sensors and space sensors. Other services – cable TV, PABX, computer labs – access flooring -Dome cameras - Wall cameras - Hidden cameras - components of CCTV cameras –uses in residential buildings	11

## REFERENCES

- 1 Rangwala, S.C. water supply and Sanitary Engineering : Environmental Engineering, Charotarpub house, Anand, 2008
- 2 Electrical wiring and contracting (vol. 1 to vol.4), London. The New era Publishing Company
- 3 DrFrithAbnwos and others, Electrical Engineering hand book.
- 4 William. J.Guinness, Mechanical and Electrical Systems for Buildings, New York McGraw Hill

### Session marks

Internal : 25 marks      10 marks - Test  
                                  05 marks - Assignment  
                                  05 marks - Seminar  
                                  05 marks - Attendance

External : 75 marks      Theory

Total 100 \_\_\_\_\_

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG371  
 Semester : III Semester  
 Subject Title : FREE HAND SKETCHING AND RENDERING

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
FREE HAND SKETCHING AND RENDERING	4 Hours	64 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	FREEHAND SKETCHING	12
II	LIGHT AND SHADE	11
III	PERSPECTIVE VIEW	11
IV	RENDERING WITH PEN AND INK	11
V	RENDERING WITH PENCIL/ POSTER /WATER COLORS	12
Test & Model Examination		7
<b>Total</b>		<b>64</b>

## **DETAILED SYLLABUS**

### **IDG371- FREE HAND SKETCHING AND RENDERING**

Contents:Practical

<b>Unit</b>	<b>Name of the Topic</b>	<b>Hours</b>
<b>I</b>	<b>FREEHAND SKETCHING</b> Exercises include freehand drawing and sketching studies - Exploring Line, Shape, Tone, Texture and Depth. Quality of line, material representation, proportions are considered	12
<b>II</b>	<b>LIGHT AND SHADE</b> Construct pictorial representations of 3-D objects or landscapes and examine the effect of Light and Shade.	11
<b>III</b>	<b>PERSPECTIVE VIEW</b> Discuss elementary principles of vision as well as theories of perspective, light and shade, contrast, atmospheric effect and color.	11
<b>IV</b>	<b>RENDERING WITH PEN AND INK</b> Represent different textures and surfaces such as glass, water, stonework, fabric, sky etc.	11
<b>V</b>	<b>RENDERING WITH PENCIL/ POSTER /WATER COLORS</b> Illustrate the techniques of rendering using different media - color pencils, water colors, poster colors, and collage. Explore 3D design media - paper/ clay/ wire and POP as tools to represent design ideas	12

### **REFERENCE BOOKS**

1. Drawing – A creative Process, Francis D.K. Ching, John Wiley Sons, New York, First Edition, 1990.
2. How to paint & draw, Bodo W. Jaxtheimer, Thames & Hudson, London, 1962
3. Geometrical drawing for art students, 2nd revised edition - I.H. Morris, Orient Longman, Calcutta, 1995.
4. Architectural drafting and design, 4th edition – Ernest R. Weidhaas, Allyn and Bacon, Boston, 1981.
5. Building drawing, 3rd edition – M G Shah, C M Kale, Tata Mc graw – Hill publishing, New Delhi, July 1, 1985.

Sessional:

Internal : 25 marks

- 10 marks - Pencil sketching
- 05 marks - Colour Rendering
- 05 marks - Perspective Drawings
- 05 marks - Attendance

External : 75 marks

- 20 marks - Semester sheets in the form of record
- 15 marks - Model
- 20 marks - Live Pencil sketching
- 20 marks - Live colour rendering

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Total 100 practical

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG372  
 Semester : III Semester  
 Subject Title : MATERIALS AND CONSTRUCTION-I

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
MATERIALS AND CONSTRUCTION-I	4 Hours	64 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	INTRODUCTION TO MATERIALS	11
II	BUILDING COMPONENTS	12
III	TILED ROOFS	11
IV	STRUCTURAL SYSTEMS	11
V	BASIC SERVICES	12
Test & Model Examination		7
<b>Total</b>		<b>64</b>

## **RATIONALE**

Students of interior decoration at diploma level are supposed to prepare structural drawings, working drawings and detailed drawings of various components of buildings. Also students are expected to design small residential buildings. For this purpose, it is essential that students are taught various components of building construction comprising of: foundations, super structure, openings, roofs, staircases, flooring and finishing and other allied building components. Therefore, the subject of materials and construction is very important for students undergoing diploma course in interior decoration. Teachers while imparting instructions are expected to show various components of buildings under construction, make use of models or other audio-visual media to clarify the concepts. While preparing drawings, teachers should lay considerable stress on proportioning, dimensioning, specification writing and printing and composition of drawing work. Teachers should also emphasize on environmental aspects like lighting, ventilation and orientation of buildings.

## **OBJECTIVES**

At the completion of the study, the students will be able

- To understand the new technology and new materials, general trend, effect of society and terminology on Architecture
- To familiarize the students of Interior Design on material and construction methodology
- To understand both in general and in detail the methods of construction by using basic materials such as brick and stone, foundation, floors and roofs, cement concrete construction, timber joints, doors and windows etc.,
- To draw the plan, elevation, section and construction details of elements of building components.

## **DETAILED SYLLABUS**

### **IDG372- MATERIALS AND CONSTRUCTION-I**

Contents: Practical

<b>Unit</b>	<b>Name of the Topic</b>	<b>Hours</b>
<b>I</b>	<b>INTRODUCTION TO MATERIALS</b> Wood - Soft and hardwood, plywood, laminated wood and particle boards – properties, manufacture & uses. Synthetic Materials – Different types of Glass, their properties, manufacturing processes and uses. Plastics – injection molding & other manufacturing methods, etc. Fabrics – textile, Jute, leather etc. different types and their uses.	11
<b>II</b>	<b>BUILDING COMPONENTS</b> Drawings of the components of a building indicating <ul style="list-style-type: none"><li>• Foundation – brick footing, stone footing &amp; rcc column footing</li><li>• Concrete flooring, plinth beam &amp; floor finish</li><li>• Superstructure- brickwork with sill, lintel, windows &amp; sunshade</li><li>• Flat rcc roof with weathering course, parapet &amp; coping.</li></ul>	12
<b>III</b>	<b>TILED ROOFS</b> Drawings indicating various types of sloped & hipped roof Types of sloping roof –lean to & couple roof with Mangalore tiles, country tiles & pan tiles.	11
<b>IV</b>	<b>STRUCTURAL SYSTEMS</b> Structures – Components of a load bearing wall & rcc slab roof system - rcc beams, columns and framed structure.	11
<b>V</b>	<b>BASIC SERVICES</b> Components of a toilet & bathroom – sanitary ware - w.c, wash basin, bidet, bathtub, jacuzzi etc Sanitary fittings – taps, mixers, shower units.	12

### **REFERENCE BOOKS**

1. S. C. Rangwala - Engineering materials - Charotar Publishing, Anand
2. Francis D. K. Ching - Building Construction Illustrated, VNR, 1975
3. W.B.Mckay –Building construction Vol1 –Longmans, UK 1981
4. W.B.Mckay –Building construction Vol 3 –Longmans, UK 1981

## WEBSITE

<https://nptel.ac.in>

<https://ndl.iitkgp.ac.in>

## DETAILS OF INSTRUMENTS

Drafting Table with stool	-	Each 1 per student
Pinner board	-	1 No

### Session marks

Internal : 25 marks	10 marks -	Assignment
	10 marks -	Assignment
	05 marks -	Attendance
External : 75 marks	20 marks -	Semester sheets in the form of record
	20 marks –	Details in sketches
	35 marks -	Drafting
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Total 100		practical

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG373  
 Semester : III Semester  
 Subject Title : INTERIOR DESIGN STUDIO-I

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
INTERIOR DESIGN STUDIO-I	5 Hours	80 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	Design problem-1	20
II	Design problem-2	26
III	Design problem-3	27
Test & Model Examination		7
<b>Total</b>		<b>80</b>

## RATIONALE

The object of this course is to make students familiar with various factors affecting the aesthetic and functional aspects of design through training them in two-dimensional and three dimensional design compositions.

## OBJECTIVES

- Understanding various design principles such as emphasis, balance, contrast, Harmony, Unity etc., and applying them in two-dimensional and three-dimensional compositions.
- Understanding and applying design elements such as Point, Line, shape, color, texture, area, mass, volume etc.
- Critical analysis of design of existing manmade objects, aiding self-criticism of design.
- Drawing inspiration from nature as a source for design.

## DETAILED SYLLABUS

### IDG373- INTERIOR DESIGN STUDIO-I

Contents: Practical

Unit	Name of the Topic	Hours
I	<b>Design problem-1</b> Designs involving various elements such as point, line, shape, colour and texture – applied to compositions such as mural design, fabric design, mosaics, stained glass, engraving, block printing, collage etc – involving all the principles of composition.(Minimum 3 exercises)	20
II	<b>Design problem -2</b> 3D sculptures involving platonic solids, wooden sculptures applying different types of carpentry joints, design and execution of POPmade objects such as: cornices, moldings, brackets, etc., Metal and terracotta sculptures. (Minimum 3 exercises)	26
III	<b>Design problem -3</b> Study and analysis of forms, patterns and color schemes in nature. Abstraction of natural forms and design of three-dimensional objects and two-dimensional patterns inspired by them. (Minimum 3 exercises)	27

## REFERENCE BOOKS

1. Paul Laseau, Graphic Thinking for Architects and Designers, John Wiley & Sons.
2. Trewin Copplestone, Arts in Society, Prentice Hall Inc.
3. H. Gardner, Art through Ages.
4. David Fair, Design Graphics, Hodder and Stoughton.
5. Architectural arts and Sculpture, Guild Source Books.
6. Virginia Cobb Watson, Discovering the Inner Eye, Guptill Publication.
7. Johannes Itten, The Art of Colour.
8. H.H. Arnason, History of Modern Art

## DETAILS OF INSTRUMENTS

Drafting Table with stool	- Each 1 per student
Pinner board	- 1No

### Session marks

Internal : 25 marks	10 marks -	Assignment - I
	10 marks -	Assignment - II
	05 marks -	Attendance
External : 75 marks	10 marks -	Semester model works
	10 marks -	Semester Paper works
	20 marks -	paper work
	35 marks -	model work
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Total 100		practical

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG374  
 Semester : III Semester  
 Subject Title : COMPUTER APPLICATION IN INTERIOR  
 DECORATION – I

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
COMPUTER APPLICATION IN INTERIOR DECORATION – I	5 Hours	80 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	GETTING STARTED	13
II	DRAWING AND EDITING COMMANDS	12
III	DRAWING AIDS	10
IV	CREATING TEXT AND DIMENSIONING	12
V	HATCHING	10
VI	PRACTICE WITH COMPLETE DRAWING	16
Test & Model Examination		7
<b>Total</b>		<b>80</b>

## RATIONALE

In the present times interior decorators should be capable of drafting drawings on the computer as most of the architect's lay greater stress on computerized drawings for their ease of drafting, editing, managing and presentation. At the end of the course the students should be able to make 2-D architectural drawings for presentation and construction purposes. The student should get familiar with the latest CAD software.

## OBJECTIVES

At the completion of the study, the students will be able

- To understand the Fundamentals of software to create a basic 2D in AutoCAD.
- To enable student the techniques and teaches them to be proficient in the use of AutoCAD to make simple geometric forms, rendering, house plan and other presentation techniques involved.
- To understand the tool for the task, the best way to use that tool and how to create new tools to accomplish tasks more efficiently.

## DETAILED SYLLABUS

### **IDG374- COMPUTER APPLICATION IN INTERIOR DECORATION – I**

Contents: Practical

Unit	Name of the Topic	Hours
I	<b>Getting started</b> Starting AutoCAD – AutoCAD screen components – Starting a drawing: Open drawings, Create drawings (Start from scratch, Use a template & Use a wizard) – Invoking commands in AutoCAD – Drawing lines in AutoCAD – Co-ordinate systems: Absolute co-ordinate system, Relative co-ordinate system – Direct distance method – Saving a drawing: Save & Save As – Closing a drawing – Quitting AutoCAD file – Concept of Object – Object selection methods: Pick by box, Window selection, Crossing Selection, All, Fence, Last, Previous, Add, Remove – Erasing objects: OOPS command, UNDO / REDO commands – ZOOM command – PAN command, Panning in real time – Setting units – Object snap, running object snap mode – Drawing circles.	13

<b>II</b>	<b>Drawing &amp; Editing Commands</b> L command - ARC command – RECTANG command – ELLIPSE command, elliptical arc – POLYGON command (regular polygon) – PLINE command – DONUT command – POINT command – Construction Line: XLINE command, RAY command – MULTILINE command - MOVE command – COPY command – OFFSET command – ROTATE command – SCALE command – STRETCH command –LENGTHEN command –TRIM command – EXTEND command – BREAK command – CHAMFER command – FILLET command –ARRAY command – MIRROR command – MEASURE command – DIVIDE command – EXPLODE command – MATCHPROP command –Editing with grips: PEDIT- Breaking line into specific divisions: BREAK command – Scale of drawings: SC command.	12
<b>III</b>	<b>Drawing aids</b> Layers – Layer Properties Manager dialog box – Object Properties: Object property toolbar, Properties Window – LTSCALE Factor – Auto Tracking – REDRAW command, REGEN command.	10
<b>IV</b>	<b>Creating text and Dimensioning</b> Creating single line text – Drawing special characters – Creating multiline text – Editing text – Text style. Fundamental dimensioning terms: Dimension lines, dimension text, arrowheads, extension lines, leaders, centre marks and centerlines, alternate units – Associative dimensions – Dimensioning methods – Drawing leader. Editing dimensions by stretching – Editing dimensions by trimming & extending – Editing dimensions: DIMEDIT command – Editing dimension text: DIMTEDIT command – Updating dimensions – Editing dimensions using the properties window – Creating and restoring Dimension styles: DIMSTYLE.	12
<b>V</b>	<b>Hatching</b> BHATCH, HATCH commands – Boundary Hatch Options: Quick tab, Advance tab – Hatching around Text, Traces, Attributes, Shapes and Solids – Editing Hatch Boundary – BOUNDARY command.	10

<b>VI</b>	<b>Practice with Complete Drawing</b> Each student is required to prepare a set of orthographic projections of a Furniture/ plan of Interior space designed by himself / herself or of any other design approved by the teacher-in-charge.	16
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## REFERENCE BOOKS

- 1.AutoCAD 2014 for Engineer & Designer,Prof. Sham Tickoo , Amit Bhat , T.KishoreHaurav Verma.
- 2.Auto CAD References manual, Autodesk UNC, 2010
- 3.Drafting & Design for Architectural & Construction (Ninth Edition), Dana.J. Hepler, Paul Ross Wallach, Donald E.Helper.

## WEBSITES

<https://www.autodesk.in>  
<https://www.thesourcecad.com/autocad-tutorials>  
<http://www.cadtutor.net/>  
<https://static.sdcpublishations.com/pdf>  
[http://www.sin.fi.edu/-Computer drafting](http://www.sin.fi.edu/-Computer%20drafting)  
<http://www.ccollege.hccs.cc.tx.us/-Comp.graphic>

## DETAILS OF INSTRUMENTS

Computer, table & chair - Each per 1 student

Reference manual - Each per 1 student

## SOFTWARE USED

Cad Software

### Session marks

Internal : 25 marks	10 marks -	Assignment 1
	10 marks -	Assignment 2
	05 marks -	Attendance
External : 75 marks	35 marks -	Drafting
	20 marks –	Theory
	20 marks –	semester works in the form of Record
<hr/> Total 100		(practical)

## **IV SEMESTER**

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG401  
 Semester : IV Semester  
 Subject Title : EVOLUTION OF INTERIOR DESIGN-II

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
EVOLUTION OF INTERIOR DESIGN-II	5 Hours	80 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	PRE-HISTORIC AND RIVERINE CIVILIZATIONS	12
II	BUDDHIST STYLE	15
III	HINDU & JAIN STYLE	17
IV	ISLAMIC STYLE	15
V	THE BRITISH RAJ	14
Test & Model Examination		7
<b>Total</b>		<b>80</b>

## RATIONALE

Students of interior decoration at diploma level understand the vocabulary and terminology in the field of architecture. The course on evolution of interior design develops appreciation regarding past and current trends in the field of architecture. The teacher should try to create interest among the students for this course by organizing site visits to the local old monuments. Use of audio-visual aids, emphasis on materials, construction methods, structural system and design concepts involved and also motivate the students.

## OBJECTIVES

At the completion of the study, the students will be able

- To understand the new technology and new materials, general trend, effect of society and terminology on Architecture
- To inculcate an awareness and appreciation among the students about the evolution of interior design .art and architecture, its growth and development through ages, with specific reference and focus on the interior spaces- for living, working, entertainment and worship.

## DETAILED SYLLABUS

### IDG401- EVOLUTION OF INTERIOR DESIGN-II

Contents: Theory

Unit	Name of the Topic	Hours
I	<b>Pre-Historic and Riverine Civilizations periods</b> Indus River Valley Civilizations (3300 B.C. to 1300 B.C) : Overview - Harappa – Mohenjo-Daro Rock Shelters of Bhimbetka.	12
II	<b>Buddhist Style</b> Architectural Production during Ashoka's rule - Ashokan Pillar, Sarnath, Sanchi Stupa. Salient features of a Chaitya Hall and Vihara, Rock cut architecture in the western and Eastern ghats, Karli, Takti Bhai, Gandhara Rock cut caves of Ajanta and Ellora	15
III	<b>HINDU &amp; JAIN STYLE</b> The Evolution of the temple Early Chalukyan Style: Ladhkan Temple, Aihole – Rock-cut temples	17

	at Badami Orissan Style: Lingaraj Temple at Bhuvaneswar – Sun Temple at Konarak Dravidian Style: Pallava Style – Chola Style – Vijaynagar Style - Pandya Style or Madura Style Jain Style: Chaumukh Temple of Adinath	
<b>IV</b>	<b>ISLAMIC STYLE</b> Architectural Characteristic features Qutub Minar, Delhi – Char Minar, Hyderabad, Gol Gumbaz, Bijapur Babur and Humayun – Akbar the Great – Jehangir – Shah Jahan.	15
<b>V</b>	<b>THE BRITISH RAJ</b> Architectural Characteristic features The Emergence of the Indo Saracenic Style of New Delhi	14

### REFERENCE BOOKS

- 1.S. C. Rangwala - Engineering materials - Charotar Publishing, Anand
2. Indian Architecture Vol. 1 (Buddhist & Hindu) / Percy Brown / D.B. Taraporevala Sons & Co. Pvt. Ltd.
3. Indian Architecture Vol. 2 (Islamic Period) / Percy Brown / D.B. Taraporevala Sons & Co. Pvt. Ltd.
4. Islamic Architecture in India / Satish Grover / Galgotia Publishing Company, New Delhi
5. Buddhist and Hindu Architecture in India / Satish Grover / CBS
6. A History of Architecture / Sir Banister Fletcher / Butterworth Heinemann (Hb), CBS (Pb)
7. The Great Ages of World Architecture / G. H. Hiraskar / Dhanpat Rai Co. Pvt. Ltd., Delhi

### WEBSITE

<https://nptel.ac.in>

<https://ndl.iitkgp.ac.in>

### Session marks

Internal : 25 marks	10 marks -	Test
	05 marks -	Assignment
	05 marks -	Seminar
	05 marks -	Attendance

External : 75 marks	Theory
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Total 100

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code : IDG402  
 Semester : IV Semester  
 Subject Title : INTERIOR SERVICES-II

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
INTERIOR SERVICES-II	4 Hours	64 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	VERTICAL TRANSPORTATION SYSTEMS	11
II	HVAC (Heating Ventilation & Air Conditioning systems)	12
III	FIRE SAFETY	11
IV	ACOUSTICS	12
V	BUILDING AUTOMATION AND ENERGY MANAGEMENT	11
Test & Model Examination		7
<b>Total</b>		<b>64</b>

## RATIONALE

Students should be well conversant with electrical and mechanical installations in the buildings. For this purpose, it is essential that the students are taught various aspects of building services like: Air conditioning, Mechanical ventilation, Building Automation systems. Therefore, the subject of Interior services is very important for students undergoing diploma courses in Interior design. Teachers while imparting instructions are expected to show various fixtures and fittings, Lift and escalator installations at work sites or by making use of literature, models, chart and other audiovisual aids so that students are able to comprehend the hardware used. Teacher should specifically point out problem areas and other environmental considerations while teaching this subject.

## OBJECTIVES

At the end of the study of IV Semester the student will be able to

- To understand about services in residential high-rise building and complexes.
- To gain knowledge about the HVAC.
- To understand fire hazards, safety & design regulations.
- To understand building acoustics.
- To gain knowledge in maintenance of buildings.
- To gain knowledge building Automation and energy management

## DETAILED SYLLABUS

### IDG402 - INTERIOR SERVICES-II

Contents: Theory

Unit	Name of the Topic	Hours
I	<b>VERTICAL TRANSPORTATION SYSTEMS</b> Services for multi storied buildings -Vertical transportation systems – Introduction – lifts, escalators and travelators - definition, standards, location, arrangement, structure, drives, traffic analysis, supervisory control, remote monitoring .	11
II	<b>HVAC (Heating Ventilation &amp; Air Conditioning systems)</b> <b>VENTILATION</b> - Principles of refrigeration - comfort conditions Mechanical ventilation in buildings - Fans, blowers and air filters . <b>AIR CONDITIONING</b> - Functions of air conditioning- Principles of AC, capacity of AC- Types of AC systems -window AC, split AC, ductable AC, central AC and their details- Air distribution systems – ducts, air inlets.	12

<b>III</b>	<b>FIRE SAFETY</b> Fire – causes and spread of fire. Design considerations for fire safety, Devices for firefighting – portable, built in wet riser system, dry risers-sprinkler system, smoke detectors-fire hydrant-Class of fire and occupancy, study of fire regulations as per NBC – Fire escape Routes-planning and design.	11
<b>IV</b>	<b>ACOUSTICS</b> Behaviour of sound in enclosed spaces- Reflection of sound and their applications. Absorption of sound. Sound absorption coefficient. Reverberation & Reverberation Time Calculation- Acoustics Treatment of Buildings such as Cinema Theatre, Radio Broadcasting Studios, Concert Halls, Conference Hall, Seminar and Lecture Halls- Sound Insulation of buildings.	12
<b>V</b>	<b>BUILDING AUTOMATION AND ENERGY MANAGEMENT</b> Introduction to building automation - Functions of Building Management Systems – system includes - Benefits of BMS- Effect of Power Quality on Energy Consumption- Energy Reports- Energy Conservation- Importance of Energy Saving.	11

## REFERENCES

- 1.Rangwala, S.C. water supply and Sanitary Engineering : Environmental Engineering, Charotarpub house, Anand, 2008
- 2.Electrical wiring and contracting (vol. 1 to vol.4), London. The New era Publishing Company
3. DrFrithAbnwos and others, Electrical Engineering hand book.
- 4.William. J.Guinness, Mechanical and Electrical Systems for Buildings, New York McGraw Hill

### Session marks

Internal : 25 marks      10 marks - Test  
                                  05 marks - Assignment  
                                  05 marks - Seminar  
                                  05 marks - Attendance

External : 75 marks      Theory

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Total 100

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code : IDG403  
 Semester : IV Semester  
 Subject Title : FURNITURE AND FURNISHINGS

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
FURNITURE AND FURNISHINGS	4 Hours	64 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	STYLES OF FURNITURE & MATERIALS	12
II	SELECTION AND ARRANGEMENT, CONSTRUCTION FEATURES OF FURNITURE	11
III	CARE AND MAINTENANCE	11
IV	SOFT FURNISHINGS , WINDOW TREATMENTS & CUSHION	12
V	CARPETS AND RUGS , CARE AND MAINTENANCE OF SOFT FURNISHINGS	11
Test & Model Examination		7
<b>Total</b>		<b>64</b>

## RATIONALE

Student of Interior decoration at the diploma level are expected to know design and execute building interiors. Therefore, the basic knowledge of building construction and detailed knowledge of building material is required with the knowledge of this subject the students can help in handling interior project from the concept stage to the project implementation stage. Also this exercise is necessary since the interior is becoming more integral part of architecture and considerable stress is being laid in interior design. Teacher while imparting instruction are expected to explain concept and principle introducing various building finishing materials. The course would be supplemented with literature and sample of materials

## OBJECTIVES

At the completion of the study, the students will be able

- To enable the students to learn about the types and importance of furniture, know about the selection, care and arrangement of furniture.
- To enable the students to learn about types of windows and window treatments. Develop skills in construction of curtains.

## DETAILED SYLLABUS

### IDG403 - FURNITURE AND FURNISHINGS

Contents: Theory

Unit	Name of the Topic	Hours
I	<b>STYLES OF FURNITURE AND MATERIALS</b> <b>STYLES OF FURNITURE</b> Traditional, contemporary and modern design. Furniture for different purpose – meaning need, factors influencing – climatic condition, family needs and preferences, availability, principles of design and financial limit. <b>FURNITURE MATERIALS</b> Wood – teak, rose wood, walnut, cedar, mahogany, pine, birch, sal, ply wood, bamboo, cane, metals, plastics, leathers	12
II	<b>SELECTION AND ARRANGEMENT, CONSTRUCTION</b> <b>FEATURES OF FURNITURE</b> <b>SELECTION AND ARRANGEMENT</b> Buymanship, arrangement of furniture for various rooms – Living room, dining room, bedroom, kitchen, study room, office.	11

	<b>CONSTRUCTION FEATURES OF FURNITURE</b> shaping, carving, turning, fluting, reeding, joining and finishes, upholstering – techniques and designs.	
III	<b>CARE AND MAINTENANCE</b> wooden furniture, wicker and cane, metal furniture, plastic, upholstered furniture, wood finishes and furniture polishes.	11
IV	<b>SOFT FURNISHINGS , WINDOW TREATMENTS , CUSHION</b> <b>SOFT FURNISHINGS</b> Meaning, Importance – relationship of furnishings with space, selection and use of furnishings – functional and decorative. <b>WINDOW TREATMENTS</b> Types of windows, curtains, draperies, hanging curtains, pelmets and valances, accessories, blinds, shades. <b>CUSHION</b> cushion covers, slip covers, bed linens, Table linens.	12
V	<b>CARPETS AND RUGS, CARE AND MAINTENANCE OF SOFT</b> <b>FURNISHINGS</b> <b>CARPETS AND RUGS</b> Types, selection, and laying. <b>CARE AND MAINTENANCE OF SOFT FURNISHINGS</b> stain removal, mending and darning, laundering, storage of furnishings.	11

## REFERENCE BOOKS

1. S. C. Rangwala - Engineering materials - Charotar Publishing, Anand
2. Francis D. K. Ching - Building Construction Illustrated, VNR, 1975
3. Stepat, D.D, (1971), Introduction to Home furnishings, The Mac Millan Co, NewYork.
4. Wilhide, E and Cope stick, I. (2000) contemporary decorating, conron octopus Ltd., London.
5. Levine M (1998), Living rooms, Rockport publishers, USA.
6. Philips B, (2000), Hamlyn book of decorating, octopus publishing Ltd, London.
7. Clifton.c. etal (1991), The complete Home decorator conran octopus Ltd, London.
8. Luke. H., (1996), soft furnishings, New Holland publishers Ltd, Singapore.

## WEBSITE

<https://nptel.ac.in>

<https://ndl.iitkgp.ac.in>

Session marks

Internal : 25 marks      10 marks - Test  
                                 05 marks - Assignment  
                                 05 marks - Seminar  
                                 05 marks - Attendance

External : 75 marks      Theory

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Total 100

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG404  
 Semester : IV Semester  
 Subject Title : CREATIVE ARTS AND CRAFTS

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
CREATIVE ARTS AND CRAFTS	4 Hours	64 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	INTRODUCTION TO CREATIVE ARTS AND CRAFTS	11
II	TRADITIONAL ARTS AND CRAFTS OF INDIA	12
III	ART MOVEMENTS IN POST MODERN INDIA	11
IV	CREATIVE ART OBJECTS	11
V	PROJECTS	12
Test & Model Examination		7
<b>Total</b>		<b>64</b>

## **RATIONALE**

Student of Interior decoration at the diploma level are expected to know design and execute building interiors. Therefore, the basic knowledge of building construction and detailed knowledge of building material is required with the knowledge of this subject the students can help in handling interior project from the concept stage to the project implementation stage. Also this exercise is necessary since the interior is becoming more integral part of architecture and considerable stress is being laid in interior design. Teacher while imparting instruction are expected to explain concept and principle introducing various building finishing materials. The course would be supplemented with literature and sample of materials

## **OBJECTIVES**

At the completion of the study, the students will be able

- To provide the student of interior design a foundation in various aspect of arts and crafts, which can be applied in design of interiors.
- Detailed study of the characteristics of Indian arts and crafts and its application in the interiors

## **DETAILED SYLLABUS**

### **IDG404- CREATIVE ARTS AND CRAFTS**

Contents: Theory

<b>Unit</b>	<b>Name of the Topic</b>	<b>Hours</b>
<b>I</b>	<b>INTRODUCTION TO CREATIVE ARTS AND CRAFTS</b> Introduction to creative arts and crafts in India – its application in interior design – materials – Art movements through history – Traditional arts and crafts of India – Folk arts of India	11
<b>II</b>	<b>TRADITIONAL ARTS AND CRAFTS OF INDIA</b> Traditional arts and crafts of various states of India including – Tamilnadu, Karnataka, Kerala, Andhra Pradesh, Goa, Rajasthan, Gujarat, Kutch, Uttarpradesh, West Bengal, Orissa, Bihar, Jammu and Kashmir, etc.	12
<b>III</b>	<b>ART MOVEMENTS IN POST MODERN INDIA</b> Art Movements in Post Modern India and their influences in Interior design – Abstract Expressionism, Pop art, Minimal art, Conceptual art – Neo Expressionism – Computers in Arts.	11

<b>IV</b>	<b>CREATIVE ART OBJECTS</b> Creating decorative art objects –picture framing, macramé, decoupage, wall hangers, ceramic painting, murals etc	11
<b>V</b>	<b>PROJECTS</b> Assignment or projects on application of the Art in interior spaces such as – Reception, Lobby spaces, Theme Boutiques, Hotel, Restaurants, etc.	12

## REFERENCE BOOKS

- 1 Francis D.K.Ching, Interior Design Illustrated VNR Publication, New York 1987
- 2 Edith Thomory, A History of fine arts in India and the west, Orient Longmann publishers Pvt Ltd, New Delhi.
- 3 Publication on Traditional arts and crafts on india, Ministry of Handicrafts Development, Government of India.
- 4 Johhanes Itten, The Art of colour, John Wiley and Sons, USA, 1973.

## WEBSITE

<https://nptel.ac.in>

<https://ndl.iitkgp.ac.in>

### Session marks

Internal : 25 marks      10 marks - Test  
                                  05 marks - Assignment  
                                  05 marks - Seminar  
                                  05 marks - Attendance

External : 75 marks      Theory

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Total 100

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG471  
 Semester : IV Semester  
 Subject Title : MATERIALS AND CONSTRUCTION-II

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
MATERIALS AND CONSTRUCTION -II	4 Hours	64 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	FERROUS & NON-FERROUS METALS	12
II	PARTITION WALLS, FALSE CEILING	11
III	JOINERY & BUILDING HARDWARE	12
IV	FOUNDATION & PLINTH	11
V	STAIRS	11
Test & Model Examination		7
<b>Total</b>		<b>64</b>

## **RATIONALE**

Students of interior decoration at diploma level are supposed to prepare structural drawings, working drawings and detailed drawings of various components of buildings. Also students are expected to design small residential buildings. For this purpose, it is essential that students are taught various components of building construction comprising of: foundations, super structure, openings, roofs, staircases, flooring and finishing and other allied building components. Therefore, the subject of materials and construction is very important for students undergoing diploma course in interior decoration. Teachers while imparting instructions are expected to show various components of buildings under construction, make use of models or other audio-visual media to clarify the concepts. While preparing drawings, teachers should lay considerable stress on proportioning, dimensioning, specification writing and printing and composition of drawing work. Teachers should also emphasis on environmental aspects like lighting, ventilation and orientation of buildings.

## **OBJECTIVES**

At the completion of the study, the students will be able

- To understand the new technology and new materials, general trend, effect of society and terminology on Architecture
- To familiarize the students of Interior Design on material and construction methodology
- To understand both in general and in detail the methods of construction by using basic materials such as brick and stone, foundation, floors and roofs, cement concrete construction, timber joints, doors and windows etc.,
- To draw the plan, elevation, section and construction details of elements of building components.

## **DETAILED SYLLABUS**

### **IDG471 - MATERIALS AND CONSTRUCTION-II**

Contents: Practical

<b>Unit</b>	<b>Name of the Topic</b>	<b>Hours</b>
<b>I</b>	<b>FERROUS &amp; NON-FERROUS METALS</b> General characteristics of metals: Ductility – Elasticity – Malleability– Toughness – Weldability. Ferrous Metals (IRON & STEEL): Definitions, comparison of average chemical composition with specific reference to carbon content and properties of pig iron, cast iron, wrought iron, mild steel (plain carbon steel), alloy steel (hard steel), HYSD and high tensile steel. Non-Ferrous Metals– Aluminium & Brass. Properties and different uses of Aluminium. Properties and mention of different uses of Brass.	12
<b>II</b>	<b>PARTITION WALLS, FALSE CEILING</b> Partitions walls: Definition – Types– Uses – Details of construction False ceiling: Definition – Types – Uses – Details of construction	11
<b>III</b>	<b>JOINERY &amp; BUILDING HARDWARE</b> Introduction to concepts of joinery and joints; study of material specific limitations of joinery and study of structural joints focusing on load transfers based on use of different materials - types of joints such as lengthening, widening, bearing, framing in different materials such as wood, glass, metals Fixing and fastening for doors and windows: Nails – Screws – Hinges – Bolts- Rivets – Handles	12
<b>IV</b>	<b>FOUNDATION &amp; PLINTH</b> Foundation: Definition – Purpose – Classification of Shallow Foundation & Deep Foundation, Spread Footings: Wall Footings – Reinforced Concrete Footing – Inverted Arch Footing – Isolated Column Footing (Definition-uses): Definition of Plinth, Purpose of Plinth, Plinth filling	11
<b>V</b>	<b>STAIRS</b> Definition of Stairs-Ladders-Ramp- Technical terms used in stairs construction – Location of Stairs - Requirement of a good stair – Classification of stairs on the basis of their forms –Classification of	11

	stairs on the basis of materials- Wooden Stairs-Steel Stairs-RCC Stairs -- Fixing Details: (i) Balusters (metal & wood) & (ii) Nosing to steps (iii) Handrailsto post	
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## REFERENCE BOOKS

1. S. C. Rangwala - Engineering materials - Charotar Publishing, Anand
2. Francis D. K. Ching - Building Construction Illustrated, VNR, 1975
3. W.B.Mckay –Building construction Vol1 –Longmans, UK 1981
4. W.B.Mckay –Building construction Vol 3 –Longmans, UK 1981

## WEBSITE

<https://nptel.ac.in>

<https://ndl.iitkgp.ac.i>

## DETAILS OF INSTRUMENTS

Drafting Table with stool	-	Each 1 per student
Pinner board	-	1No

## Session marks

Internal : 25 marks	10 marks -	Assignment
	10 marks -	Assignment
	05 marks -	Attendance
External : 75 marks	20 marks -	Semester sheets in the form of record
	20 marks –	Details in sketches
	35 marks -	Drafting
<hr/>		
Total 100		practical

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG472  
 Semester : III Semester  
 Subject Title : COMPUTER APPLICATION IN INTERIOR  
 DECORATION – II

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
COMPUTER APPLICATION IN INTERIOR DECORATION – II	6 Hours	96 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	Viewport & Model Setting	16
II	Drawing 3D surfaces and 3D views	12
III	Solid Modeling and Solid Editing	16
IV	User co-ordinate system, Object linking & embedding	12
V	Rendering	16
VI	Plotting Drawings in Auto Cad	17
Test & Model Examination		7
<b>Total</b>		<b>96</b>

## RATIONALE

In the present times interior decorators should be capable of drafting drawings on the computer as most of the architect's lay greater stress on computerized drawings for their ease of drafting, rendering, managing and presentation. At the end of the course the students should be able to make 3-D architectural drawings for presentation and construction purposes. The student should get familiar with the latest CAD software.

## OBJECTIVES

At the completion of the study, the students will be able

- To understand the Fundamentals of software to create a 3D in AutoCAD.
- To enable student the techniques and teaches them to be proficient in the use of AutoCAD to make simple geometric forms, rendering, house plan and other presentation techniques involved.
- To understand the tool for the task, the best way to use that tool and how to create new tools to accomplish tasks more efficiently.

## DETAILED SYLLABUS

### IDG472 - COMPUTER APPLICATION IN INTERIOR DECORATION – II

Contents: Practical

Unit	Name of the Topic	Hours
I	<b>Viewport &amp; Model Setting</b> Model Space Viewports – Displaying viewports as tiled areas: VPORTS command – Making a viewport current – Joining two adjacent viewports – Model space: MSPACE command – Paperspace: PSPACE command – Editing the viewports: Controlling the display of the objects in the viewport, Locking the display in the viewports, Controlling the display of the hidden lines in the viewports, Clipping the existing viewports – PAGESETUP command – MVSETUP command.	16
II	<b>Drawing 3D surfaces and 3D views</b> RULESURF command – TABSURF command – REVSURF command – EDGESURF command – 3DMESH command – 3DFACE command – 3DPOLY command – 3DARRAY command – MIRROR3D command – ROTATE3D command – ALIGN command – HIDE command -VPOINT command – Plan View – Top – Bottom – Left – Right – Front – Back – 3D Orbit.	12

<b>III</b>	<b>Solid Modeling and Solid Editing</b> About solid modeling – Predefined solid primitives – Creating solid objects: BOX, CONE, CYLINDER, SPHERE, TORUS, WEDGE commands – Constructing a Region: Creating a 2D Region: REGION command – Subtracting Regions: SUBTRACT command – Creating an extruded solid: EXTRUDE command. Constructing a composite solid: UNION, SUBTRACT, INTERSECT, REVOLVE, FILLET, CHAMFER commands – Slicing solids: SLICE, SECTION commands.	16
<b>IV</b>	<b>User co-ordinate system, Object linking &amp; embedding</b> World Co-ordinate System (WCS) – User Co-ordinate System (UCS) – UCSICON command – UCS command OLE feature – Clipboard – Object Embedding: COPYCLIP command – Linking objects: COPYLINK command	12
<b>V</b>	<b>Rendering</b> Rendering – Loading and unloading AutoCAD Render – Elementary Rendering – Selecting different properties for rendering: Rendering type, Rendering option, Rendering procedures, Destination, Sub sampling, Background, Fog / Depth cue – Inserting and modifying lights – Defining and rendering a scene – Attaching and detaching materials – Saving a Rendering.	16
<b>VI</b>	<b>Plotting Drawings in AutoCad</b> PLOT command – Plot Configuration – Paper Size & Orientation Area – Plot Rotation & Origin – Plotting Area – Scale – Plotting in PDF file – Plotting in direct plotter.	17

## REFERENCES

1. AutoCAD 2014 for Engineer & Designer, Prof. Sham Tickoo , Amit Bhat , T.Kishore Haurav Verma.
2. Auto CAD References manual, Autodesk UNC, 2010
3. Drafting & Design for Architectural & Construction (Ninth Edition), Dana.J. Hepler, Paul Ross Wallach, Donald E. Helper.

## WEBSITES

<https://www.autodesk.in>

<https://www.thesourcecad.com/autocad-tutorials>

<http://www.cadtutor.net/>

<https://static.sdcpublications.com/pdf>

[http://www.sin.fi.edu/-Computer drafting](http://www.sin.fi.edu/-Computer%20drafting)

<http://www.ccollege.hccs.cc.tx.us/-Comp.graphic>

## DETAILS OF INSTRUMENTS

Computer, table & chair - Each per 1 student

Reference - Each per 1 student

## SOFTWARE USED

Cad Software

### Session marks

Internal : 25 marks	10 marks -	Assignment 1
	10 marks -	Assignment 2
	05 marks -	Attendance
External : 75 marks	35 marks -	Drafting
	20 marks –	Theory
	20 marks –	semester works in the form of Record
<hr/>		
Total 100		(practical)

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG473  
 Semester : IV Semester  
 Subject Title : INTERIOR DESIGN STUDIO-II

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
INTERIOR DESIGN STUDIO-II	5 Hours	80 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	KITCHENS	20
II	BEDROOMS & LIVING ROOMS	23
III	RESIDENCE	30
Test & Model Examination		7
<b>Total</b>		<b>80</b>

## RATIONALE

Students of interior decoration at diploma level are supposed to prepare to know the basics of designing for Residential interiors and to develop skills required for the same.

## OBJECTIVES

At the completion of the study, the students will be able

- To develop understanding of the scale, function and options existing when designing small-scale spaces in residences such as toilets, kitchens, living, bedrooms etc.
- Development of ideas with regard to false ceiling, wall paneling, flooring, floor coverings, curtains, windows, doors and other elements of residential interiors.

## DETAILED SYLLABUS

### IDG473 - INTERIOR DESIGN STUDIO-II

Contents: Practical

Unit	Name of the Topic	Hours
I	<b>KITCHENS</b> Work triangle, planning for activity – anthropometrics – types of kitchen- Modular kitchens. Materials used in counters, shelves, worktops, washing areas & their comparative study. Lighting & colour scheme – natural & artificial light.	20
II	<b>BEDROOMS &amp; LIVING ROOMS</b> Concepts in bedroom & living room interiors – various layout of these spaces – the use of furniture and accessories to create a certain type of ambience – materials & finishes – lighting, colour & texture.	23
III	<b>RESIDENCE</b> Holistic concepts in residential interiors – ability to integrate various individual spaces into one theme – treatment of patios, courtyards, verandahs & other semi sheltered spaces – integration of built form and open spaces.	30

## REFERENCE BOOKS

1. Designs for 20th century Interiors – Fiona Leolie, VH Publications, London, 2000.
2. Interior Design; The New Freedom, Barbaralec Diamonstein, Rizzoli International Publications, New York, 1982.
3. Interior Colour by Design, Jonathan Poore, Rockport Publishers, 1994.
4. Worldwide Interiors – International Federation of Interior Architects & Designers, Rikuyo-Sha, Japan, 1987.

## DETAILS OF INSTRUMENTS

Drafting Table with stool	-	Each 1 per student
Pinner board	-	1No

### Session marks

Internal : 25 marks	05 marks -	Kitchen Design
	05 marks -	Bed Room & Living Room
	10 marks -	Residence
	05 marks -	Attendance

### External : 75 marks

20 marks -	Semester Sheets in the form of records
30 marks -	detailed plan
10 marks -	elevation / section
10 marks -	sketches / furniture / detailing
05 marks –	presentation skill / drafting skill

Note:- For the End Semester Exam single space design shall use as design problems.

## **V SEMESTER**

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG501  
 Semester : V Semester  
 Subject Title : ESTIMATING AND COSTING

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
ESTIMATING AND COSTING	5 Hours	80 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	INTRODUCTION, APPROXIMATE ESTIMATES	14
II	SPECIFICATION & REPORT WRITING	14
III	MEASUREMENTS & MATERIAL REQUIREMENT, DATA	15
IV	VALUATION, RENT FIXATION	15
V	DETAILED ESTIMATE	15
Test & Model Examination		7
<b>Total</b>		<b>80</b>

## RATIONALE

Diploma holders in interior decoration find employment with private designers and also some percentage of them start their own enterprises. Therefore, the profession demands the development of basic knowledge and skills of quantity surveying and costing. This subject covers different methods of taking out quantities, units of measurement, calculation of quantities of materials, preparation of cost estimates, specification writing, Report writing, Valuation and rent fixation.

## OBJECTIVES

At the completion of the study, the students will be able

- To study the types of estimates.
- To know the different methods of taking out quantities
- To prepare the rough cost estimate, detailed estimates, detailed reports, specifications, abstract of cost and material requirements for a small building
- To Calculate quantities of materials and analysis of rates for each item of work
- To value a building and also fix the rate
- To prepare the rough estimate for interior works

## DETAILED SYLLABUS

### IDG501 - ESTIMATING AND COSTING

Contents: Theory

Unit	Name of the Topic	Hours
I	<b>INTRODUCTION, APPROXIMATE ESTIMATES</b> <b>INTRODUCTION</b> Estimation – Definition of Estimate - Types of Estimates – Approximate Estimate – Detailed Estimate – Revised Estimate – Supplementary Estimate – Sub Estimate – Annual maintenance Estimate – Repair Estimate – Complete Estimate. <b>APPROXIMATE ESTIMATES</b> Approximate estimate – Types – Plinth area method – Cubical content method – Service unit method – Typical bay method – Simple problems on preliminary estimate of a building project.	<b>5</b>          <b>9</b>





## WEBSITE

<https://nptel.ac.in>

<https://ndl.iitkgp.ac.in>

### Session marks

Internal : 25 marks	10 marks -	Test
	05 marks -	Assignment
	05 marks -	Seminar
	05 marks -	Attendance

External : 75 marks	Theory
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Total 100

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG502  
 Semester : V Semester  
 Subject Title : ENVIRONMENTAL SCIENCE

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
ENVIRONMENTAL SCIENCE	4 Hours	64Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	INTRODUCTION TO ENVIRONMENTAL STUDIES AND NATURAL RESOURCES	11
II	ECOSYSTEM AND BIODIVERSITY	12
III	ENVIRONMENTAL POLLUTION AND CONTROL	12
IV	SOCIAL ISSUES AND THE ENVIRONMENT	11
V	DISASTER MANAGEMENT	11
Test & Model Examination		7
<b>Total</b>		<b>64</b>

## RATIONALE

The importance of Environmental Science cannot be disputed. The need for sustainable development is a key to the future of mankind. Continuing problems of pollution, loss of forest, solid waste disposal, degradation of environment, issues like Global warming, the depletion of ozone layer and loss of biodiversity have made everyone aware of environmental issues. It is clear that no citizen of the earth can afford to be ignorant of environmental issues. Environmental management has captured the attention of health care managers. Managing environmental hazards has become very important. Human beings have been interested in ecology since the beginning of civilization. It is now even more critical than ever before for mankind as a whole to have a clear understanding of environmental concerns and to follow sustainable development practices. India is rich in biodiversity which provides various resources for people.

## OBJECTIVES

At the completion of the study, the students will be able to

- Understand about the environmental studies
- Recognize the importance and public awareness about natural resources
- Gain knowledge about the eco system and their functions
- Understand biodiversity and conservation
- Understand Causes, effects and control measures of environmental pollution
- Know about the social issues in the present
- Manage the solid waste produced
- Create awareness about Environment Management and Disaster Management

## DETAILED SYLLABUS

### IDG502 - ENVIRONMENTAL SCIENCE

Contents: Theory

Unit	Name of the Topic	Hours
I	<b>INTRODUCTION TO ENVIRONMENTAL STUDIES AND NATURAL RESOURCES</b>	
	<b>1.1</b> Definition, Scope and importance – Need for public awareness- Forest resources : use and overexploitation, deforestation – Water resources : use and overutilization of surface and ground water, floods, drought, conflicts over water – Mineral resources : use and exploitation, environmental effects of extracting and using mineral resources. <b>1.2</b> Food resources : changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer – pesticide problems, Energy	<b>5</b> <b>6</b>

	resources : Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources – Land resources : Land as a resource, land degradation, landslides, soil erosion and desertification – Role of an individual in conservation of natural resources.	
<b>II</b>	<p><b>ECOSYSTEM AND BIODIVERSITY</b></p> <p>2.1 Concept of Ecosystem - Structure and function of an ecosystem – Producers , Consumers and decomposers - Ecological succession - Food chains, food webs and ecological pyramids. Types - characteristic features, structure and function of the a) Forest ecosystem b) Grassland ecosystem c) Desert ecosystem d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)</p> <p>2.2 Biodiversity and its conservation - Introduction – Definition of genetic, species and ecosystem diversity - Value of biodiversity : Consumptive use - productive use, social, ethical, and aesthetic and option values - Hot spots of biodiversity - Threats to biodiversity : Habitat loss, poaching of wildlife, man-wildlife conflicts – Endangered and endemic species of India-Conservation of biodiversity : In-situ and Ex-situ conservation of biodiversity</p>	<p><b>6</b></p> <p><b>6</b></p>
<b>III</b>	<p><b>ENVIRONMENTAL POLLUTION AND CONTROL</b></p> <p>3.1 Definition – Water pollution – Sources of water pollution – Effects and prevention of water pollution-Land pollution – Sources of land pollution – Effects and prevention of Land pollution - Remedial measures - Noise pollution – sources of noise– Effects of noise on people–Noise control methods.</p> <p>3.2 Air Pollution – Sources : natural and manmade sources– Effects of Air Pollution on human beings, animals, plants and materials – Control of Air Pollution - Thermal pollution – sources of thermal pollution, harmful effects of thermal pollution and control of thermal pollution.</p>	<p><b>6</b></p> <p><b>6</b></p>
<b>IV</b>	<p><b>SOCIAL ISSUES AND THE ENVIRONMENT</b></p> <p>4.1 Development from unsustainable to sustainable development – Urban problems related to energy – Water conservation, rain water harvesting, watershed management – Resettlement and rehabilitation of people ; its problems and concerns, - Climate change, global warming , green house effect, acid rain, ozone layer depletion.</p>	<b>6</b>



15. “C.S.Rao”-“ Environmental Pollution Control Engineering”
16. “Khopkar”-“ S.M Environmental Pollution Monitoring & Control”
17. “Majid Husain”-“ Environment & Ecology Biodiversity, Climate Change and Disaster
18. Management “

## **WEBSITE**

<https://nptel.ac.in>

<https://ndl.iitkgp.ac.in>

### Session marks

Internal : 25 marks	10 marks -	Test
	05 marks -	Assignment
	05 marks -	Seminar
	05 marks -	Attendance

External : 75 marks	Theory
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Total 100

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG801  
 Semester : V Semester  
 Subject Title : TEXTILE DESIGN

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
TEXTILE DESIGN	4 Hours	64 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	INTRODUCTION TO FABRICS	12
II	APPLICATION OF ELEMENTS AND PRINCIPLES	11
III	COLOUR ON FABRICS	11
IV	FURNISHINGS	12
V	OTHER NATURAL MATERIALS	11
Test & Model Examination		7
<b>Total</b>		<b>64</b>

## RATIONALE

Textiles are integral part of our culture, history, daily life of all human beings, through art, fashion and design. The study of textiles and fashion contributes to the personal, social, cultural and productive aspects of people's lives through the development of skills and knowledge in technology, design, science, consumerism and aesthetic appreciation. In addition Everyday people use textile products in some way and also come into contact with many more examples in their immediate environment. Fibres andfabrics have been with us on every continent since civilization began.

## OBJECTIVES

At the completion of the study, the students will be able to

- To familiarize the students of Interior Design on textile materials used in interior
- To gain knowledge and understanding of the functional and aesthetic requirements of textiles for a range of applications

### DETAILED SYLLABUS

#### IDG801- TEXTILE DESIGN

Contents: Theory

Unit	Name of the Topic	Hours
I	<b>INTRODUCTION TO FABRICS</b> Fabric, yarn and fiber structure, Fabric structure- <b>woven</b> - warp, weft, selvedge ,knitted- course, non- woven, Fabric types and classification- woven, including plain, twill, satin, Jacquard, crepe and pile weaves, <b>knitted</b> - including single knit, double knit, tricot knit, pile knit, lace and net , <b>non-woven</b> -including felts webs and films, identification and properties of fabrics, yarns and fibers.	12
II	<b>APPLICATION OF ELEMENTS AND PRINCIPLES</b> Application of elements and principles of design across a range of textiles.Describe and analyze elements and principles of design - furnishings, textile arts, non-apparel. Functional and aesthetic requirements and features of textile range.	11
III	<b>COLOUR ON FABRICS</b> Fabric coloration and decoration- Principles of applying color to fabrics. Textile arts and crafts in interiors, traditional and modern materials and methods. Preparing samples on tie and die printing, batik printing, appliqué, macramé and braiding.	11

<b>IV</b>	<b>FURNISHINGS</b> Furnishings-classification, types of curtain, curtain construction, selection criteria relation to backgrounds in walls , floors and ceilings. Slip covers , cushion covers , bed linen and table linen Floor coverings -rugs and carpets, types selection , care and maintenance, installation of floor coverings	<b>12</b>
<b>V</b>	<b>OTHER NATURAL MATERIALS</b> Jute or hessian – dyed jute fabric and its applications – various kinds of processed leather, its application in interior design.	<b>11</b>

## REFERENCES

1. “Miller T.G”, “Environmental Sciences”, “Wadsworth Publishing Co.(TB)”
- 2.“A. Ravikumar,” “Environmental Science and Engineering”
- 3.“Raman Sivakumar,“ “Environmental Science and Engineering”
4. Inside today’s home, Faulkner, R.and Faulkner 1987,Rinebart Winston, New York
- 5.Interior Design & Decoration, Sherril Whiton, Prentice Hall
- 6.Introduction to home furnishings, Stepat,D.D,1991,The macmillan company,New York.
- 7.The themes and Hudson manual of textile printing , Storey joyce ,1992, London
- 8.Colour in interior Design Jhon,F.P, 1997, Mc Graw Hill Company

## WEBSITE

<https://nptel.ac.in>

<https://ndl.iitkgp.ac.in>

### Session marks

Internal : 25 marks      10 marks - Test  
                                  05 marks - Assignment  
                                  05 marks - Seminar  
                                  05 marks - Attendance

External : 75 marks      Theory

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Total 100

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG802  
 Semester : V Semester  
 Subject Title : ILLUMINATION

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
ILLUMINATION	4 Hours	64 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	IMPORTANCE OF LIGHTING IN HUMAN LIFE	11
II	LIGHT SOURCES: LAMP MATERIALS	11
III	ELECTRICAL CONTROL OF LIGHT SOURCES	12
IV	FACTORS TO BE CONSIDERED FOR DESIGN OF INDOOR ILLUMINATION SCHEME AND OUTDOOR ILLUMINATION SCHEME	12
V	MODERN TRENDS IN ILLUMINATION	11
Test & Model Examination		7
<b>Total</b>		<b>64</b>

## RATIONALE

Diploma holders in interior decoration must gain knowledge about Illumination. The lighting in a home changes the mood of a room just as it does the perceived size of a room. Placement and type are important aspects of interior design, and they work in conjunction with color selections, room size, availability of natural light and furniture selection. The elements that come together when the right lighting is achieved transform a room into a seamless combination of functionality and style

## OBJECTIVES

- To get the detailed information about modern lamps and their accessories.
- To get detailed insight of indoor and outdoor illumination system components, its controls and design aspects.
- To know the requirements of energy efficient lighting.
- To introduce the modern trends in the lighting

### DETAILED SYLLABUS

#### **IDG802 - ILLUMINATION**

Contents: Theory

Unit	Name of the Topic	Hours
I	<b>IMPORTANCE OF LIGHTING IN HUMAN LIFE</b> Optical systems of human eye, Dependence of human activities on light, performance characteristics of human visual system, External factors of vision-visual acuity, contrast, sensitivity, time illuminance, colour, visual perception, optical radiation hazards, Good and bad effects of lighting & perfect level of illumination, Artificial lighting as substitute to natural light, Ability to control natural light, Production of light, physics of generation of light, Properties of light, Quantification & Measurement of Light.	11
II	<b>LIGHT SOURCES: LAMP MATERIALS</b> Filament, glass, ceramics, gases, phosphors and other metals and nonmetals. Discharge Lamps: Theory of gas Discharge phenomena, lamp design considerations, characteristics of low and high mercury and Sodium vapour lamps, Low Vapour Pressure discharge lamps– Mercury Vapour lamp, Fluorescent Lamp, Compact Fluorescent Lamp (CFL) High Vapour Pressure discharge lamps - Mercury Vapour lamp, Sodium Vapour lamp, Metal halide Lamps, Solid Sodium Argon Neon lamps, SOX lamps, Electro luminescent lamps, Induction lamps.	11

<b>III</b>	<b>ELECTRICAL CONTROL OF LIGHT SOURCES</b> Ballast, igniters and dimmers for different types of lamps, Photometric Control of Light Sources and their Quantification: Types of Luminaries, factors to be considered for designing luminaries Types of lighting fixtures. Optical control schemes, design procedure of reflecting and refracting type of luminaries. Lighting Fixture types, use of reflectors and refractors, physical protection of lighting fixtures, types of lighting fixtures according to installation type, types of lighting fixtures according to photometric usages, luminaire's standard (IEC-598-Part I).	<b>12</b>
<b>IV</b>	<b>FACTORS TO BE CONSIDERED FOR DESIGN OF INDOOR ILLUMINATION SCHEME AND OUTDOOR ILLUMINATION SCHEME</b> Indoor illumination design for following installations: Residential (Numerical), Educational institute, Commercial installation, Hospitals, Industrial lighting, Special purpose lighting schemes Decorative lighting, Theatre lighting, Aquarium, swimming pool lighting –Road classifications according to BIS, pole arrangement, terminology, lamp and luminaire selection, different design procedures, beam lumen method, point by point method, isolux diagram, problems on point by point method. Outdoor illumination design for following installations; Road lighting (Numerical), Flood lighting (Numerical), Stadium and sports complex, Lighting for advertisement/hoardings	<b>12</b>
<b>V</b>	<b>MODERN TRENDS IN ILLUMINATION</b> LED luminaire designs, Intelligent LED fixtures, Natural light conduiting, Organic lighting system, LASERS, characteristics, features and applications, non lighting lamps, Optical fiber, its construction as a light guide, features and applications.	<b>11</b>

## REFERENCE BOOKS

- 1.H. S. Mamak, "Book on Lighting", Publisher International lighting Academy
- 2.Joseph B. Murdoch, "Illumination Engineering from Edison's Lamp to Lasers"  
Publisher – York, PA: Visions Communications
3. M. A. Cayless, A. M. Marsden, "Lamps and Lighting", Publisher- ButterworthHeinemann(ISBN978-0-415-50308-2).
4. Designing with light: Lighting Handbook., Anil Valia; Lighting System 2002

### Session marks

Internal : 25 marks	10 marks -	Test
	05 marks -	Assignment
	05 marks -	Seminar
	05 marks -	Attendance

External : 75 marks	Theory
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Total 100

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG803  
 Semester : V Semester  
 Subject Title : ENVIRONMENT CONTROL IN INTERIORS

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
ENVIRONMENT CONTROL IN INTERIORS	4 Hours	64 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	ENVIRONMENT CONTROL	12
II	VENTILATION	11
III	HEATING	11
IV	AIR CONDITIONING	11
V	ACOUSTICS	12
Test & Model Examination		7
<b>Total</b>		<b>64</b>

## RATIONALE

Interior designing or interior fit out projects have large variation in type and scale. Some components such as daylight, electric lighting, water use, material use and indoor environmental quality are common in all kind of projects. This course introduces simple measurable aspects for each of these components using which the sustainability quotient for a project can be assessed.

## OBJECTIVES

At the completion of the study, the students will be able to

- To enable the students to understand the importance of environment control in the interiors. Acquire knowledge on the different types of heating and cooling systems.

## DETAILED SYLLABUS

### IDG803 - ENVIRONMENTAL CONTROL IN INTERIORS

Contents: Theory

Unit	Name of the Topic	Hours
<b>I</b>	<b>ENVIRONMENT CONTROL</b> meaning of environment, importance of environment control, advantages, elements to be controlled in the interiors – Temperature, air quality, sound, sanitation, light.	<b>12</b>
<b>II</b>	<b>VENTILATION</b> Definition, importance, Types of ventilation – Natural and mechanical Guidelines for natural ventilation.	<b>11</b>
<b>III</b>	<b>HEATING</b> Need for room heating, types of heating system – central, radiant, forced air; solarsystem – Active solar system and passive solar system.	<b>11</b>
<b>IV</b>	<b>AIR CONDITIONING</b> Meaning, Principles, need for conditioning, air conditioning applications, Humidity control, types of air conditioning - central air conditioning, and packaged.	<b>11</b>
<b>V</b>	<b>ACOUSTICS</b> Definition, requirements of good acoustics, properties of sound – sound waves wave length, frequency, velocity, resonance, sound levels, loudness, noise, sound reflection, echoes, reverberation; Sound absorption – sound absorbent materials, qualities of acoustic material, guidelines for good acoustical design.	<b>12</b>

## REFERENCES

- 1.“Miller T.G”, “Environmental Sciences”, “Wadsworth Publishing Co.(TB)”
- 2.“A. Ravikumar,” “Environmental Science and Engineering”
- 3.“Raman Sivakumar,” “Environmental Science and Engineering”
- 4.Pratap R.M (1988) Interior design principles and practice, Standard publishers distribution, Delhi.
- 5.Faulkner, S., and Faulkner. R, (1987), Inside Today’s Home, Rinehart publishing company, New york.
- 6.Park, K (1995), Text Book of preventive and social medicine, Banaridas Bhanot Publishers, Jabalpur.
- 7.Punmia, B.C (1995), A. Text book of building construction, Lakshmi Publication Pvt.Ltd., New Delhi.

## WEBSITE

<https://nptel.ac.in>

<https://ndl.iitkgp.ac.in>

### Session marks

Internal : 25 marks	10 marks -	Test
	05 marks -	Assignment
	05 marks -	Seminar
	05 marks -	Attendance

External : 75 marks                      Theory

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Total 100

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG571  
 Semester : V Semester  
 Subject Title : INTERIOR DRAWING

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
INTERIOR DRAWING	5 Hours	80 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	VIEWS	14
II	PERSPECTIVE DRAWING	15
III	SCIOGRAPHY	15
IV	RENDERING TECHNIQUES FOR PERSPECTIVES	14
V	PRESENTATION DRAWINGS	15
Test & Model Examination		7
<b>Total</b>		<b>80</b>

## RATIONALE

The students of diploma in interior decoration should have sufficient skills to draw isometric drawings, besides this they should also be introduced to pencil sketching and measured drawing of simple objects. They should be given sufficient exercises in rendering of isometric drawings, pencil sketching and measured drawing. So that they are able to perform well in the field/industry.

## OBJECTIVES

At the completion of the study, the students will be able to

- To understand and practice the application of the various techniques of perspective, sciography, CAD and advanced presentations in Architectural Design.

## DETAILED SYLLABUS

### IDG571 - INTERIOR DRAWING

Contents: Practical

Unit	Name of the Topic	Hours
I	<b>VIEWS</b> 3D representation of Solids, Isometric views, Axonometric Views Oblique Views	14
II	<b>PERSPECTIVE DRAWING</b> The topic of perspective drawing will consist of drawing exercises on: Understanding the application of principles of perspective drawing. Drawing perspective views by one point and two point perspective methods. Perspective by measuring point method. Perspective views of interior designs by projection / measuring point method.	15
III	<b>SCIOGRAPHY</b> The topic of sciography drawing will consist of drawing exercises on Principles of shades and shadows. • Drawing shades and shadows of lines, planes, solids and architectural features in plan, elevations and isometric view Shades and shadows of typical building on plan, elevation and perspective.	15

<b>IV</b>	<b>RENDERING TECHNIQUES FOR PERSPECTIVES</b> Rendering using various mediums such as Pen and Ink, Water colour, Poster Colour, Pencil Colour, Crayons	<b>14</b>
<b>V</b>	<b>PRESENTATION DRAWINGS</b> Complete presentation drawings of architectural design project with plans, elevations, sections and perspective views of building by any method of drawing perspectives showing landscape, human figures, accessories and street furniture etc.	<b>15</b>

## REFERENCES

1. "Miller T.G", "Environmental Sciences", "Wadsworth Publishing Co.(TB)"
2. "A. Ravikumar," "Environmental Science and Engineering"
3. "Raman Sivakumar," "Environmental Science and Engineering"
4. "Ching Francis D.K." "Architectural Graphics" Cbs Publishers & Distributors"
5. "Leslie Martin "" Architectural Graphics "" Macmillan "
6. "Jolhe D A "Engineering Graphics " "Tata Mcgraw Hill , New Delhi "
7. "Bhat N D "Elementary Engineering Drawing-Plane And Solid Geometry " "Chartotar Publishing House "
9. "Gill Robert " "Rendering With Pen And Ink " "Thames And Hudson"
10. "Jaxthemier, B.W., " "How To Paint And Draw " "Thames And Hudson"

## WEBSITE

<https://nptel.ac.in>

<https://ndl.iitkgp.ac.in>

## DETAILS OF INSTRUMENTS

Drafting Table with stool	-	Each 1 per student
Pinner board	-	1No

Sessional: Internal : 25 marks

05 marks	-	3D views
05 marks	-	Perspective drawings
05 marks	-	Sciography
05 marks	-	Presentation Drawings
05 marks	-	Attendance

External : 75 marks	20 marks	- Semester sheets in the form of record
	15 marks	- 3D views
	20 marks	- Perspective Drawings
	20 marks	- Presentation Drawings

Total 100 practical

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG572  
 Semester : V Semester  
 Subject Title : INTERIOR DESIGN STUDIO-III

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
INTERIOR DESIGN STUDIO-III	6 Hours	96 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	DESIGN PROBLEM 1	40
II	DESIGN PROBLEM 2	49
Test & Model Examination		7
<b>Total</b>		<b>96</b>

## RATIONALE

The students of diploma in interior decoration should have sufficient skills to introduce the basics of designing for Retail interiors and to develop skills required for the same.

## OBJECTIVES

- The course concentrates on larger scale spaces with an emphasis on planning commercial spaces.
- The main aim is to develop visually literate students who are proficient at analytical thinking, conceptualization and the problem-inquiry, solution cycle. The course also examines the connection between abstract design principles and the physical and visual environments.

## DETAILED SYLLABUS

### IDG572 - INTERIOR DESIGN STUDIO-III

Contents: Practical

Unit	Name of the Topic	Hours
I	<b>DESIGN PROBLEM 1</b> <b>SHOPS</b> Planning for retail activity – anthropometrics – types of Shop layouts Modular units. Materials used in counters, shelves, worktops, their comparative study. Lighting & colour scheme – natural & artificial light.	40
II	<b>DESIGN PROBLEM 2</b> <b>COMMERICAL SPACES</b> The art of selling-displays/products/marketing, design of display units, design of boutiques, showrooms. Concepts in modern day Retail interiors – materials & finishes – colour, texture & pattern.	49

## REFERENCE BOOKS

1. Designs for 20th century Interiors – Fiona Leolie, VH Publications, London.
2. Interior Design; The New Freedom, BarbaralecDiamonstein, Rizzoli International Publications, New York, 1982.
3. Interior Colour by Design, Jonathan Poore, Rockport Publishers, 1994.
4. Worldwide Interiors – International Federation of Interior Architects & Designers, Rikuyo-Sha, Japan, 1987.

## DETAILS OF INSTRUMENTS

Drafting Table with stool	- Each 1 per student
Pinner board	- 1No

### Session marks

Internal : 25 marks

10 marks - Design Problem 1

10 marks - Design Problem 2

05 marks - Attendance

External : 75 marks

20 marks - Semester Sheets in the form of records

30 marks - detailed plan

10 marks - elevation / section

10 marks - sketches / furniture / detailing

05 marks – presentation skill / drafting skill

Note:- For the End Semester Exam Multi space design shall use as design problems.

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG871  
 Semester : V Semester  
 Subject Title : WORKSHOP

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
WORKSHOP	4 Hours	64 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	WOOD WORKSHOP	15
II	METAL WORKSHOP	14
III	FABRIC WORKSHOP	14
IV	PAINT WORKSHOP	14
Test & Model Examination		7
<b>Total</b>		<b>64</b>

## RATIONALE

The workshop aims at providing inspiring guidance, techniques and approaches in various mediums to the students. It facilitates a platform for established as well as creative knowledge, to mark their presence in the field of work.

## OBJECTIVES

At the completion of the study, the students will be able to

- To expose the students to the basic principles of fabrication of furniture, doors, windows etc.
- To understand the basic methods of furniture making with focus on hands on methods regarding workshop practices in wood, metal, plastic, textiles etc.

## **DETAILED SYLLABUS**

### **IDG871 - WORKSHOP**

Contents: Practical

<b>Unit</b>	<b>Name of the Topic</b>	<b>Hours</b>
<b>I</b>	<b>WOOD WORKSHOP</b> The safe and efficient use of the tools of the trade, Hand tools, portable power tools, Stationary power tools, Materials, Hardware. Safe working practices in a workshop. Joineries in wood – lap, butt, dowell, tenon & mortise, dovetail, etc. Exercises in plywood joinery.	<b>15</b>
<b>II</b>	<b>METAL WORKSHOP</b> Cutting, planning, drilling and lathing of steel sections used in furniture. Aluminium sections and their use in doors, windows and partitions, Welding practice.	<b>14</b>
<b>III</b>	<b>FABRIC WORKSHOP</b> Familiarity with different types of fabrics and their properties – methods of cutting and sewing of upholstery fabrics - various types of foam and cushions and their applicability in furniture making.	<b>14</b>
<b>IV</b>	<b>PAINT WORKSHOP</b> Techniques of spray painting of enamel paint on metal and wood surfaces – varnishing and lacquering etc.	<b>14</b>

## REFERENCES

1. "Miller T.G", "Environmental Sciences", "Wadsworth Publishing Co.(TB)"
2. "A. Ravikumar," "Environmental Science and Engineering"
3. "Raman Sivakumar," "Environmental Science and Engineering"
4. Joints used in wood furniture – ISI – IS 3845 – 1966.
5. Pete Silver et al – Fabrication, the designers guide – Architectural press, London 2006.
6. Albert C Smith - Architectural model as machine – Architectural press, oxford 2004.

## WEBSITE

<https://nptel.ac.in>

<https://ndl.iitkgp.ac.in>

### Sessional: Internal : 25 marks

- 10 marks - Assignment - I
- 10 marks - Assignment - II
- 05 marks - Attendance

### External : 75 marks

- 20 marks - Semester sheets in the form of record
- 15 marks - Paint workshop
- 20 marks - Metal or Wood
- 20 marks - Fabric work

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Total 100 practical

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG872  
 Semester : V Semester  
 Subject Title : MODEL MAKING

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
MODEL MAKING	4 Hours	64 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	INTRODUCTION TO MODEL MAKING	11
II	BLOCK MODELLING	11
III	DETAILED MODELLING	12
IV	INTERIOR MODELS OF INTERIOR SPACES	12
V	CARPENTRY	11
Test & Model Examination		7
<b>Total</b>		<b>64</b>

## RATIONALE

In Diploma level Architectural Assistantship development of auto motor skills plays a vital role. The auto motor skill development can be achieved by on hand experience in handling various instruments, apparatus and equipment for preparation of architectural models to the various building elements and buildings. This is accomplished by doing architectural models related to building elements and buildings of different types in architectural workshop. Further the students will guide in making architectural models for their project work.

## OBJECTIVES

At the completion of the study, the students will be able to

- To introduce the students to basics of Model making with various materials.
- Acquisition of hands on experience in model - building.

### **DETAILED SYLLABUS**

#### **IDG872 - MODEL MAKING**

Contents: Practical

<b>Unit</b>	<b>Name of the Topic</b>	<b>Hours</b>
<b>I</b>	<b>INTRODUCTION TO MODEL MAKING</b> Introduction to concepts of model making and various materials used for model making	<b>11</b>
<b>II</b>	<b>BLOCK MODELLING</b> Preparation of base for models using wood or boards Introduction to block models of buildings (or 3D Compositions) involving the usage of various materials like Thermocol, Soap/Wax, Boards, Clay etc.	<b>11</b>
<b>III</b>	<b>DETAILED MODELLING</b> Making detailed models which includes the representation of various building elements like Walls, Columns, Steps, Windows/glazing, Sunshades, Handrails using materials like Mountboard, Snow- white board, acrylic sheets. Representing various surface finishes like brick/stone representation, stucco finish etc. Various site elements – Contour representation, Roads/Pavements, Trees/Shrubs, Lawn, Water bodies, Street furniture, Fencing etc.	<b>12</b>

<b>IV</b>	<b>INTERIOR MODELS OF INTERIOR SPACES</b> Making models of the various interior spaces such as <ul style="list-style-type: none"> <li>• Residences</li> <li>• Offices</li> <li>• Retail Spaces</li> </ul> Recreational Spaces Scaled models of furniture	<b>12</b>
<b>V</b>	<b>CARPENTRY</b> Introducing the techniques of planning, chiseling & jointing in timber to learn the use of hand tools. Exercise involving the design of simple furniture and making a model of the same.	<b>11</b>

## REFERENCES

- 1.“Miller T.G”, “Environmental Sciences”, “Wadsworth Publishing Co.(TB)”
- 2.“A. Ravikumar,” “Environmental Science and Engineering”
- 3.“Raman Sivakumar,” “Environmental Science and Engineering”
- 4.BENN, The book of the House, Ernest Benn Limited, London
- 5.Jannsen, Constructional Drawings & Architectural models, Karl Kramer Verlag Stuttgart, 1973.
- 6.Harry W.Smith, The art of making furniture in miniature, E.P.Dutton Inc., New York, 1982.

## WEBSITE

<https://nptel.ac.in>

<https://ndl.iitkgp.ac.in>

Sessional: Internal : 25 marks

10 marks - Assignment - I

10 marks - Assignment - II

05 marks - Attendance

External : 75 marks

20 marks - Semester models in the form of record

15 marks - Block Model

40 marks - Detail Model

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Total 100 practical

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG873  
 Semester : V Semester  
 Subject Title : FURNITURE DESIGN AND DETAILING

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
FURNITURE DESIGN AND DETAILING	4 Hours	64 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	INTRODUCTION TO WOOD	10
II	THE BASICS OF FURNITURE CONSTRUCTION & TOOLS	10
III	PLYWOOD CONSTRUCTION TECHNIQUES	11
IV	MODULAR KITCHENS	11
V	FURNITURE MODEL MAKING	15
Test & Model Examination		7
<b>Total</b>		<b>64</b>

## RATIONALE

Student of Interior decoration at the diploma level are expected to know design and construction of furnitures. Therefore, the basic knowledge of construction and detailed knowledge of furniture is required with the knowledge of this subject the students can help in handling interior project from the concept stage to the project implementation stage.

## OBJECTIVES

At the completion of the study, the students will be able

- To enable the students to focus on the craft of the Furniture –Maker.
- To enable the students to learn about the types and construction of furniture and detailing.

### DETAILED SYLLABUS

#### **IDG873- FURNITURE DESIGN AND DETAILING**

Contents: Practical

Unit	Name of the Topic	Hours
I	<b>INTRODUCTION TO WOOD</b> Wood as a building material: Identification, selection, application, types of wood, commercial Classification, nomenclature, structure Anatomy and Ultra structure, Conversion figure and natural defects, availability of wood products, wood based panels such as plywood , MDF, HDF, Particle board , pre laminated boards etc .	10
II	<b>THE BASICS OF FURNITURE CONSTRUCTION &amp; TOOLS</b> Measurement and measurement systems, Furniture Construction: Drawers, Cadenza, dining chairs, sofa, settee, cots detail. Preparation for finishing, Furniture Materials Specifying timber, finishes etc. Detailed construction drawings & explaining construction and material finishes.	10
III	<b>PLYWOOD CONSTRUCTION TECHNIQUES</b> Plywood as a building material, Layout techniques and machining plans. Fabrication techniques - stapling, gluing. Furniture Joinery - screw joinery, nail joinery, Mortise & tenon joints, Dovetail joints, Dowel joints, Edge joints.	11
IV	<b>MODULAR KITCHENS</b> Modular kitchens, components basis of Construction involving, layouts, carcass, hardware selection, fixing details finishes and special types such as tall units, grain trolleys, and carousels fold outs etc. A detailed project involving the design of a small kitchen using modular	11

	components.	
<b>V</b>	<b>FURNITURE MODEL MAKING</b> Preparation of block models of furniture using wood, boards, leather, fabric, thermocole, clay, soap/wax etc.	<b>15</b>

## REFERENCES

- 1.S. C. Rangwala - Engineering materials - Charotar Publishing,
- 2.Francis D. K. Ching - Building Construction Illustrated, VNR, 1975, 3. Fevicol Furniture series.
- 3.W.B.Mckay –Building construction Vol1 –Longmans, UK 1981.
- 4.W.B.Mckay –Building construction Vol 3 –Longmans, UK 1981.

## DETAILS OF INSTRUMENTS

Drafting Table with stool	- Each 1 per student
Pinner board	- 1No

Sessional: Internal : 25 marks

- 10 marks - Assignment - I
- 10 marks - Assignment - II
- 05 marks - Attendance

External : 75 marks

- 20 marks - Semester models in the form of record
- 15 marks - Model
- 20 marks - Construction Techniques
- 20 marks – Modular Kitchen

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Total 100 practical

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG573  
 Semester : V Semester  
 Subject Title : ENTREPRENEURSHIP AND STARTUPS

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
ENTREPRENEURSHIP AND STARTUPS	4 Hours	64 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topics	Hrs.
I	ENTREPRENEURSHIP – INTRODUCTION AND PROCESS	10
II	BUSINESS IDEA AND BANKING	10
III	START UPS, E-CELL AND SUCCESS STORIES	10
IV	ARCHITECTURAL PROFESSIONAL STRATEGIES	10
V	ARCHITECTURAL BUSINESS STRATEGIES	10
REVISION, FIELD VISIT AND PREPARATION OF CASE STUDY REPORT		14
<b>TOTAL</b>		<b>64</b>

## **RATIONALE**

Development of a diploma curriculum is a dynamic process responsive to the society and reflecting the needs and aspiration of its learners. Fast changing society deserves changes in educational curriculum particularly to establish relevance to emerging socio- economic environments; to ensure equity of opportunity and participation and finally promoting concern for excellence. In this context the course on entrepreneurship and start ups aims at instilling and stimulating human urge for excellence by realizing individual potential for generating and putting to use the inputs, relevant to social prosperity and thereby ensure good means of living for every individual, provides jobs and develop Indian economy.

## **OBJECTIVES**

At the completion of the study, the students will be able

- To excite the students about entrepreneurship.
- Acquiring Entrepreneurial spirit and resourcefulness.
- Understanding the concept and process of entrepreneurship.
- Acquiring entrepreneurial quality, competency and motivation.
- Learning the process and skills of creation and management of entrepreneurial venture.
- Familiarization with various uses of human resource for earning dignified means of living.
- Know its contribution in and role in the growth and development of individual and the nation.
- Understand the formation of E-cell.
- Survey and analyze the market to understand customer needs.
- Understand the importance of generation of ideas and product selection.
- Learn the preparation of project feasibility report.
- Understand the importance of sales and turnover.
- Familiarization of various financial and non-financial schemes.
- Aware the concept of incubation and starts ups.

## DETAILED SYLLABUS

### **IDG573 –ENTREPRENEURSHIP AND STARTUPS**

Contents: Practical

<b>Unit</b>	<b>Name of the Topics</b>	<b>Hours</b>
<b>I</b>	<b>ENTREPRENEURSHIP – INTRODUCTION AND PROCESS</b> <ul style="list-style-type: none"><li>• Concept, Functions and Importance</li><li>• Myths about Entrepreneurship</li><li>• Pros and Cons of Entrepreneurship</li><li>• Process of Entrepreneurship</li><li>• Benefits of Entrepreneur</li><li>• Competencies and Characteristics</li><li>• Ethical Entrepreneurship</li><li>• Entrepreneurial Values and Attitudes</li><li>• Motivation</li><li>• Creativity</li><li>• Innovation</li><li>• Entrepreneurs - as problem solvers</li><li>• Mindset of an employee and an entrepreneur</li><li>• Business Failure – causes and remedies</li><li>• Role of Networking in entrepreneurship</li></ul>	<b>10</b>
<b>II</b>	<b>BUSINESS IDEA AND BANKING</b> <ul style="list-style-type: none"><li>• Types of Business: Manufacturing, Trading and Services</li><li>• Stakeholders: Sellers, Vendors and Consumers</li><li>• E- Commerce Business Models</li><li>• Types of Resources - Human, Capital and Entrepreneurial tools</li><li>• Goals of Business and Goal Setting</li><li>• Patent, copyright and Intellectual Property Rights</li><li>• Negotiations - Importance and methods</li><li>• Customer Relations and Vendor Management</li><li>• Size and Capital based classification of business enterprises</li><li>• Role of Financial Institutions</li><li>• Role of Government policy</li><li>• Entrepreneurial support systems</li><li>• Incentive schemes for State Government</li><li>• Incentive schemes for Central Government</li></ul>	<b>10</b>

III	<b>STARTUPS, E-CELL AND SUCCESS STORIES</b> <ul style="list-style-type: none"> <li>• Concept of Incubation centre's</li> <li>• Activities of DIC, financial institutions and other relevance institutions</li> <li>• Success stories of Indian and global business legends</li> <li>• Field Visit to MSME's</li> <li>• Various sources of Information</li> <li>• Learn to earn</li> <li>• Startup and its stages</li> <li>• Role of Technology – E-commerce and social media</li> <li>• Role of E-Cell</li> <li>• E-Cell to Entrepreneurship</li> </ul>	10
IV	<b>ARCHITECTURAL PROFESSIONAL STRATEGIES</b> <ul style="list-style-type: none"> <li>• Achieving Sustained design excellence.</li> <li>• Coordination of consultants.</li> <li>• Exposure to technological developments.</li> <li>• Specialization in design.</li> <li>• Keeping stakeholders updated about developments in the firm, its work and achievements.</li> <li>• Developing and using a network of contacts.</li> <li>• Identification of the potential of site for any building.</li> <li>• Investing time and money in innovation.</li> <li>• Creating a professional online presence.</li> <li>• Vision about changing design trends.</li> </ul>	10
V	<b>ARCHITECTURAL BUSINESS STRATEGIES</b> <ul style="list-style-type: none"> <li>• Business and administrative dimensions of architects' firms.</li> <li>• Flexibility to shift direction.</li> <li>• Enhancement of commercial value of the building.</li> <li>• Responsiveness to the client's needs and requirements.</li> <li>• Regular strategic review and planning.</li> <li>• Identification of shifts in the client requirements.</li> <li>• Revisit decisions taken from time to time.</li> <li>• Effective presentation and accepting feedback from clients.</li> <li>• Changing frustrations into a desire to create solutions.</li> <li>• Diversifying and offering new consultancy services.</li> </ul>	10

## REFERENCE BOOKS

1. "Dr. G.K. Varshney", "Fundamentals of Entrepreneurship", "Sahitya Bhawan Publications, Agra – 282002."
2. "Dr. G.K. Varshney", "Business Regulatory Framework", "Sahitya Bhawan Publications, Agra – 282002".
3. "Robert D. Hisrich, Michael P. Peters, Dean A. Shepherd,"-" Entrepreneurship", "McGraw Hill (India) Private Limited, Noida – 201301".
4. "M.Scarborough, R.Cornwell,"-" Essentials of Entrepreneurship and small business management", " Pearson Education India, Noida – 201301."
5. "Charantimath Poornima M". "Entrepreneurship Development and Small Business Enterprises", "Pearson Education, Noida – 201301".
6. "Trott", "Innovation Management and New Product Development", "Pearson Education, Noida – 201301."
7. "M N Arora", "A Textbook of Cost and Management Accounting", "Vikas Publishing House Pvt. Ltd., New Delhi-110044".
8. "Prasanna Chandra", "Financial Management", "Tata McGraw Hill education private limited, New Delhi."
9. "I. V. Trivedi, Renu Jatana", "Indian Banking System"- "RBSA Publishers, Rajasthan."
10. "Simon Daniel", "HOW TO START A BUSINESS IN INDIA"- "BUUKS," Chennai – 600018."
11. "Ramani Sarada", "The Business Plan Write-Up Simplified - A practitioner's guide to writing the Business Plan", "Notion Press Media Pvt. Ltd., Chennai 600095."

**VI SEMESTER**

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG601  
 Semester : VI Semester  
 Subject Title : ACOUSTICS

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
ACOUSTICS	5 Hours	80 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	INTRODUCTION TO ACOUSTICS	13
II	ROOM ACOUSTICS	13
III	SOUND ABSORPTION, INSULATION, SOUND REINFORCEMENT	15
IV	NOISE CONTROL	15
V	ACOUSTICS IN BUILDINGS	17
Test & Model Examination		7
<b>Total</b>		<b>80</b>

## RATIONALE

Architectural acoustics is the study of sound in homes and other buildings and the design of those structures for optimal acoustic performance, including control of sound transmission throughout the building, maintaining conditions for good speech intelligibility, and maintaining sound isolation for speech privacy. Architectural acoustics (also known as building acoustics) is the science and engineering of achieving a good sound within a building and is a branch of acoustical engineering.

## OBJECTIVES

At the completion of the study, the students will be able to

- To expose the students to the basic principles of acoustics in interiors.
- To understand the need and applications of acoustics in buildings with exposure to various systems, methods and fixtures.

## DETAILED SYLLABUS

### IDG601- ACOUSTICS

Contents: Theory

Unit	Name of the Topic	Hours
I	<b>INTRODUCTION TO ACOUSTICS</b> Definition, Theory of sound generation, transmission – reception of sound – Terms related to acoustics –sound waves, frequency, intensity, wavelength – measurement of sound.	13
II	<b>ROOM ACOUSTICS</b> Characteristics of speech – Making of sound – Human ear characteristics – Behaviour of sound in enclosed space – Reverberation, RT, Optimum reverberation, simple exercise using Sabine's formula.	13
III	<b>SOUND ABSORPTION, INSULATION, SOUND REINFORCEMENT</b> Sound absorption, absorption co-efficient and their measurements – sound absorbing materials – sound insulation – materials – sound amplification and sound reinforcement.	15
IV	<b>NOISE CONTROL</b> Sources and types of noise – effect on human behavior, noise curves, transmission of noise – noise control – materials and techniques.	15

<b>V</b>	<b>ACOUSTICS IN BUILDINGS</b>  Design and detailing – Basic principles in designing of lecture halls, auditorium theatres, cinema halls, broadcasting studio, recording studio.	<b>17</b>
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## REFERENCE BOOKS

1. Peter Templeton & Saunders – Detailing for architectural acoustics – Architectural press, 1994.
2. Interior Design, Vol – 2, CADD Centre Training Services Pvt Ltd, 2004.
3. David Egan, M, “Architectural Acoustics”, J Ross Publishing, 2007,
4. H Kuttruff, “ Room acoustics ”, 5th edition, CRC Press, 2009,
5. Jiri Tichy, “Acoustics of Small Rooms ”, CRC Press, 2014,
6. Lawrence E Kinsler, “Fundamentals of acoustics”, Wiley Publishers, 2000,
7. Lothar Cremer, “ Principles and application of room acoustics”, Peninsula Publishing, 2016.

### Session marks

Internal : 25 marks      10 marks - Test  
                                  05 marks - Assignment  
                                  05 marks - Seminar  
                                  05 marks - Attendance

External : 75 marks      Theory

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Total 100

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG602  
 Semester : VI Semester  
 Subject Title : PROFESSIONAL PRACTICE AND MANAGEMENT

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
PROFESSIONAL PRACTICE AND MANAGEMENT	5 Hours	80 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	ARCHITECT , INTERIOR DESIGNER AND THEIR SERVICES	14
II	RULES AND REGULATIONS OF THE ARCHITECTURE & INTERIOR DESIGN PROFESSIONS	14
III	TENDER AND CONTRACT	15
IV	PROJECT MANAGEMENT	16
V	ELEMENTARY ACCOUNTANCY	14
Test & Model Examination		7
<b>Total</b>		<b>80</b>

## RATIONALE

The knowledge of this subject is required for all interior decorators who wish to choose industry/field as their career. This course is designed to develop understanding of various functions of management, role of workers and interior designers services, CPM, PERT, Banking accounts etc. which are essential attributes for a successful technician.

## OBJECTIVES

At the completion of the study, the students will be able to

- To know about the role of Architects in the planning and execution of a project
- To know about how to start the construction work through tender and contract.
- To understand the various types of Architectural services
- To know how to scheduling in construction field by using CPM, PERT network techniques
- To gain knowledge about the banking accounts.

## DETAILED SYLLABUS

### **IDG602 - PROFESSIONAL PRACTICE & MANAGEMENT**

Contents: Theory

Unit	Name of the Topic	Hours
I	<b>1.1 ARCHITECT, INTERIOR DESIGNER AND THEIR SERVICES</b> Definition of an Architect – Role of an Architect in the planning and execution of projects – Normal services, additional services and special services–Various stages of fees collection – schedule of fees <b>1.2</b> Definition of interior designer - types of services rendered by interior designer.	14
II	<b>RULES AND REGULATIONS OF THE ARCHITECTURE &amp; INTERIOR DESIGN PROFESSIONS</b> Professional Code of conduct for Architects – Architect's Act 1972 – The role of Council Of Architecture (COA), India – The role of Indian Institute of Architects – Institute of Indian Interior Designers (IIID) – IIID code of (The responsibilities of the profession ) conduct – IIID – member services – Education Communication Awards – the responsibilities of the Interior Designer – Arbitration	14

<b>III</b>	<b>TENDER and CONTRACT</b> Invitation of tender – Condition of tender – Types of tender – Tender documents – Scrutiny and acceptance of tender – Work order. Various forms of contracts – Agreements – Conditions of contract – Legal aspects Completion period – Maintenance period – Advantages and disadvantages of various types of contracts – M-book – M-book entry – Check measurements Preparation of bills – Payments – Penal actions and penalties for defaults and delays.	<b>15</b>
<b>IV</b>	<b>PROJECT MANAGEMENT</b> Introduction to Project Management – Advantages of Project Management, need and scope of Project management – Construction schedules – Bar charts, Mile stone charts – Event, Activity, Duration, Float, Slack, Range, Variance – CPM and PERT networks – Advantages of Network – Comparison of CPM and PERT – Numbering and forming the network – Tracing the critical path for simple problems.	<b>16</b>
<b>V</b>	<b>ELEMENTARY ACCOUNTANCY</b> Classification of Banks – Various types of bank accounts – Various forms of deposits – FD, RD, Bond, Chit and Shares – Withdrawal – Demand Draft – Mail transfer – Cheque, crossing of cheques, payment through cheque – Transaction through ATM – Credit Card and Debit Cards – Introduction to e- Banking – Maintenance of accounts – Receipts and Vouchers – Formalities related to avail a housing loan from a Government authorized bank – Building insurance scheme.	<b>14</b>

## REFERENCES

1. “Roshan Namavathy” “ Professional Practice”
2. “Ar.Vasants.Apte”-“Architectural practice and procedure”
3. “K.G.Krishnamurthy & S.V.Ravindra”-“ Professional Practice”
4. “R.Panneerselvam & P. Senthil Kumar” “Project Management”
5. “Punmia” “CPM and PERT network analysis”
6. “Indian Institute of Architect’s Manual on Professional Practice”
7. “CPWD manual on Tender and Contract documents”
8. “T.S.Reddy”- “Principles of Accountancy”
9. “C.B.Guptha”-“Introduction to Accountancy”
10. “N.Vinayagam, M.Radhaswamy&S.V.Vasudevan”-“A Text book of Banking (Law,

Practice, Theory)”

11. “M.Rahdaswamy&S.V.Vasudevan” “Insurance- Principle and Practice”

12.“Christopher.J.Willis & Allan Ashworth”-“ Practice & Procedure for the Quantity Surveyor (ninth edition)”

13. “C.H.Gopinatha Rao” –“Arbitration Act in Building Contracts Scope for Engineers & Architects”

14. “ C.H.Gopinatha Rao”- “Manual on Building Contracts”

## WEBSITE

<https://nptel.ac.in>

<https://ndl.iitkgp.ac.in>

### Session marks

Internal : 25 marks	10 marks -	Test
	05 marks -	Assignment
	05 marks -	Seminar
	05 marks -	Attendance

External : 75 marks	Theory
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Total 100

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG804  
 Semester : VI Semester  
 Subject Title : INTERIOR OF HERITAGE STRUCTURES

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
INTERIOR OF HERITAGE STRUCTURES	5 Hours	80 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	EARLY CLASSICAL PERIOD	15
II	EARLY CHRISTIAN & GOTHIC	14
III	TRADITIONAL BUILDING MATERIALS USED IN INDIA	15
IV	BUILDING TECHNOLOGY, STRUCTURE AND CONSTRUCTION SYSTEMS	15
V	CONSERVATION OF HISTORIC BUILDING	14
Test & Model Examination		7
<b>Total</b>		<b>80</b>

## RATIONALE

Heritage buildings are defined as those antique architectural buildings which have stood the test of time, notwithstanding calamities and narrating the tale of that metropolis' architectural facts, histories, and wonderful past. The heritage structures having its own wonderful interior designs. So study about the interior design of heritage structures are important one. The subject covers the various interiors of important heritage structures.

## OBJECTIVES

- To appreciate the classification of heritage.
- To be capable of describing the principles of conservation
- To have a broad perspective of the historic building materials & structural systems.
- To be aware of the historic planning, regulation, zoning and management.
- To understand the problems & issues of historic buildings through conservation studio.

### DETAILED SYLLABUS

#### **IDG804 - INTERIOR OF HERITAGE STRUCTURES**

Contents: Theory

Unit	Name of the Topic	Hours
I	<b>EARLY CLASSICAL PERIOD</b> Importance and uses of learning history. Prehistoric - forms and patterns - dolmens, tribal cultures in Africa, Americas and Arctic; Ornamentation and Interior Decoration in caves; EARLY EGYPTIAN Early settlements - Ancient Mesopotamian, North, Central and South American Designs. Ancient Egypt - Geometry and Proportion - temples and houses - furniture and furnishings MIDDLE AGES Greece Minoan, Mycenaean, Greek - temple and secular interiors, Rome: Roman arches, vaults and domes, orders of architecture, Building types - amphitheatres, baths, temples, secular halls, furniture and furnishings	15

<b>II</b>	<p><b>EARLY CHRISTIAN &amp; GOTHIC</b></p> <p>Early Christian, Byzantine and Romanesque - Churches, fortresses and castles, abbeys, houses, furniture and furnishings. Gothic Design - cathedrals- gothic arch, flying buttress, Furnishings</p> <p>THE RENAISSANCE PERIOD Renaissance Design - interiors and furniture, Elements of Baroque style, interiors &amp; furnishings. America - Early colonial interiors &amp; furniture, American Georgian and Queen Anne, Federal period designs.</p>	<b>14</b>
<b>III</b>	<p><b>TRADITIONAL BUILDING MATERIALS USED IN INDIA</b></p> <p>India: Introduction to Heritage Interiors: Evolution of Interiors in different regions of India with examples. Heritage and identity at different spatial scales. Dimensions and scope of Heritage Interiors. Users and uses of Heritage interiors</p> <p>Traditional building materials used in India, from pre historic times till date: Earth, clay, stone, brick, timber, bamboo, lime, iron, metals and glass.</p> <ul style="list-style-type: none"> <li>• Materials used in structural, non – structural and decorative applications: mortars, renders, paints and plasters, additives and stabilizers.</li> <li>• Categorization of materials as organic and inorganic, mixture of both and compound materials:</li> <li>• Process of Identification of defects: Field investigations, field-tests, Standard test methods, equipment used for detecting and measuring common problems in historic buildings.</li> <li>• Diagnosis and assessment of defects and common problems in historic building materials.</li> <li>• Remedial measures for common material defects in historic structures.</li> <li>• Cleaning and maintenance of Historic building fabric.</li> </ul>	<b>15</b>
<b>IV</b>	<p><b>BUILDING TECHNOLOGY, STRUCTURE AND CONSTRUCTION SYSTEMS</b></p> <p>Introduction to historic building technology, structure and construction systems.</p> <ul style="list-style-type: none"> <li>• Problems in Historic buildings due to alteration in material properties and performance.</li> <li>• Theory of structures and analysis of structural components of</li> </ul>	<b>15</b>

	<p>historic buildings : Load transfer systems, support systems, spanning systems, infill material , strength and weakness of traditional building technologies and composite structural systems (foundations, arches, domes, vaults, columns, beams, roofing etc). Common Structural defects in historic buildings, cause and nature of distress: types of cracks, differential settlement, geo-technical issues.</p> <ul style="list-style-type: none"> <li>• Methodologies for inspection and diagnosis of structural defects</li> </ul>	
<b>V</b>	<p><b>CONSERVATION OF HISTORIC BUILDING</b></p> <p>Immediate temporary emergency measures for distressed buildings: shoring, underpinning, shuttering etc. Stabilization, consolidation, grouting, pointing, strengthening retrofitting and replacement etc.</p> <ul style="list-style-type: none"> <li>• Deterioration and conservation of 20th century heritage structures in concrete and other modern materials.</li> </ul>	<b>14</b>

## REFERENCES

1. Donald Appleyard, "The Conservation of European Cities", M.I.T. Press, Massachusetts, 1979.
2. James M. Fitch, " Historic Preservation: Curatorial Management of the Built World" University Press of Virginia; Reprint edition, 1990
3. Robert E. Stipe, "A Richer Heritage: Historic Preservation in the Twenty-First Century" , Univ. of North Carolina press, 2003.
4. Conservation Manual , Bernard Fielden; INTACH Publication, 1989.
5. A.G. K. Menon ed. "Conservation of Immovable Sites", INTACH Publication, N.Delhi., 1988

### Session marks

Internal : 25 marks      10 marks - Test  
                                  05 marks - Assignment  
                                  05 marks - Seminar  
                                  05 marks - Attendance

External : 75 marks      Theory

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Total 100

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG805  
 Semester : VI Semester  
 Subject Title : MODULAR DESIGN

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
MODULAR DESIGN	5 Hours	80 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	HISTORY	16
II	ART AND CRAFT MOVEMENT	12
III	ART NOUVEAU	16
IV	ART DECO	12
V	MODERN FURNITURE	17
Test & Model Examination		7
<b>Total</b>		<b>80</b>

## RATIONALE

Modular interiors are designed with the main intent to maximize the functionality of a room by adding clever ways to store things. These modular storage units will be an integral part of the design that catches the eye as it is beautifully designed and adds a statement in any room. The advantages of the modular design include consistency in development, reduced development time, and flexibility.

## OBJECTIVES

The main objectives of this course are to:

- Present a vivid scenario of the need and importance of modular design.
- To enable the students to learn the principles of modular design.
- Understand the methods of making modular units.

## DETAILED SYLLABUS

### IDG805 - MODULAR DESIGN

Contents: Theory

Unit	Name of the Topic	Hours
I	<b>HISTORY</b> English furniture from 16th to 18th century. Tudor, Stuart, Jacobean, Restoration period, Queen Ann period, Gregorian period, Chippendale, Sheraton.	16
II	<b>ART AND CRAFT MOVEMENT</b> Beginning of 19th century industrialization. Victorian Era in England, Art and Craft movement in design.	12
III	<b>ART NOUVEAU</b> Art Nouveau movement in art and furniture. Art movements before and after world wars. Cubism of Picasso, De-stijl movement.	16
IV	<b>ART DECO</b> Bauhaus school of Design and its impact on modern design. Art Deco movement.	12
V	<b>MODERN FURNITURE</b> Modern furniture and ornamentation Furniture Design by architect FLW, Le Corbusier, Mies, Alvar, Alto, Chals Eames, Marchel Breur. Modern Furniture (1900 on wards), Modular, Steel & Glass.	17

## REFERENCES

1. John F. Pile A history of interior design, 2nd edition Laurence King Publishing,
2. Jeannie Ireland History of Interior Design air child publications, illustrated ed.,
3. Elaine, Michael Dywer, Christopher Mackinnon, Norman A. J. BerisfordDenby A History of Interior Design Rhodex International
4. Giedion Sigfried Space, Time and Architecture: The growth of a new tradition, 4th ed. Harvard University Press, Cambridge

### Session marks

Internal : 25 marks	10 marks -	Test
	05 marks -	Assignment
	05 marks -	Seminar
	05 marks -	Attendance

External : 75 marks                      Theory

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Total 100

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG806  
 Semester : VI Semester  
 Subject Title : INTERIOR LANDSCAPE

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
INTERIOR LANDSCAPE	5 Hours	80 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	INTERIOR LANDSCAPING	13
II	PHYSICAL REQUIREMENTS OF PLANTS	13
III	INTERIOR LANDSCAPING ELEMENTS & PRINCIPLES	13
IV	ROOF AND DECK LANDSCAPE	14
V	EXERCISE ON INTERIOR LANDSCAPE	20
Test & Model Examination		7
<b>Total</b>		<b>80</b>

## RATIONALE

Interior landscaping is the practice of designing, installing, and maintaining greenery and biophilic elements inside buildings. Professionals in the trade commonly refer to this service as interior plant scaping or interior scaping. Landscapes and features are important because they contribute significantly to our well-being and quality of life. They provide the broader context within which we live our lives. Living within aesthetically pleasing and culturally meaningful landscapes enhances our sense of wellbeing. A crucial part of interior landscaping is adding flowers, living plants, or other natural elements and decor objects to enhance the beauty of your outdoor space.

## OBJECTIVES

- To develop an understanding about the design of interior landscape with special emphasis on the choice and care of plant materials used in the interior spaces.
- To study about the various landscaping elements and their application in interior spaces.
- To study the concepts of interior landscaping and their application in the design of interior spaces.

## DETAILED SYLLABUS

### IDG806 - INTERIOR LANDSCAPE

Contents: Theory

Unit	Name of the Topic	Hours
I	<b>INTERIOR LANDSCAPING</b> Explaining definition of interior landscaping, classification of plants , elaborating on indoor plants and its functions -Explanation on floriculture – ornamental plants and commercial plants. Selection of plants for interior space & pest control.	13
II	<b>PHYSICAL REQUIREMENTS OF PLANTS</b> Explanation physical requirements of plants –light, temperature, water, Explanation physical requirements of plants – planting medium, soil separator , weight of plants, Explanation physical requirements of plants – acclimatization and maintenance. Techniques to meet physical requirements.	13
III	<b>INTERIOR LANDSCAPING ELEMENTS &amp; PRINCIPLES</b> Introducing them to different elements of landscape- Water bodies-pools fountains and cascades- Introducing them to different elements of landscape- plants ,rock, artifacts, paving and lighting- Explanation on design guidelinesplant texture, colour, plant height, plant spacing	13

<b>IV</b>	<b>ROOF AND DECK LANDSCAPE</b> Explanation on protection of the integrity of roof and structure , provision of drainage- Explanation on light weight planting medium , selection of materials, Explanation on irrigation, waterproofing, provision for utilities and maintenance	<b>14</b>
<b>V</b>	<b>EXERCISE ON INTERIOR LANDSCAPE</b> <ul style="list-style-type: none"> <li>• Courtyard design</li> <li>• An outdoor room design</li> <li>• Terrace garden</li> </ul>	<b>20</b>

### REFERENCE BOOKS

1. Time saver standards for landscape architecture.
2. Planting design by Theodore D.Walker,VNR Publications New York.
3. Landscaping Principles and Practices by Jack E.Ingels,Delmar Publishers.
- 4.Bose T K, Tropical Garden Plants, Kolkata, Horticulture & Allied Publishers, 1991
5. Cedric Crocker, All About Landscaping, Ortho Books.
6. Faulkner R & Faulkner S, Inside Today's Home, New York, Holt Rinehart & Winston Inc.,1960
7. Hooguett Fickle, The Garden, The Netherlands, Rebo Production, Lisse 1977
8. Learner J M, The Complete Home Landscape Designer.
9. Trivedi, P &Chawdhury B, Home Gardening, New Delhi, India, Council of Agricultural Research, 1983

### Session marks

Internal : 25 marks      10 marks - Test  
                                  05 marks - Assignment  
                                  05 marks - Seminar  
                                  05 marks - Attendance

External : 75 marks      Theory

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Total 100

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG671  
 Semester : VI Semester  
 Subject Title : COMPUTER APPLICATION IN INTERIOR  
 DECORATION – III

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
COMPUTER APPLICATION IN INTERIOR DECORATION – III	6 Hours	96 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	INTRODUCTION TO SKETCHUP & ITS TOOLS	15
II	USE & MANAGEMENT OF SKETCHUP	18
III	LUMION BASICS	18
IV	LANDSCAPE AND MATERIALS	20
V	LIGHTING AND ENVIRONMENT	18
Test & Model Examination		7
<b>Total</b>		<b>96</b>

## RATIONALE

In the present times interior decorators should be capable of drafting drawings on the computer as most of the architect's lay greater stress on computerized drawings for their ease of drafting, rendering, managing and presentation. At the end of the course the students should be able to make 3-D architectural drawings for presentation and construction purposes. The student should get familiar with the latest SKETCHUP.

## OBJECTIVES

At the completion of the study, the students will be able

- To understand the Fundamentals of software to create a 3D in SKETCHUP.
- To enable student the techniques and teaches them to be proficient in the use of SKETCHUP and LUMION to make simple geometric forms, rendering and other presentation techniques involved.
- To understand the tool for the task, the best way to use that tool and how to create new tools to accomplish tasks more efficiently.

## DETAILED SYLLABUS

### **IDG671 - COMPUTER APPLICATION IN INTERIOR DECORATION – III**

Contents: Practical

Unit	Name of the Topic	Hours
I	<b>INTRODUCTION TO SKETCHUP &amp; ITS TOOLS</b> Starting a drawing – Concepts –Principal tools for drawing, modification, construction, camera, walkthrough, sandbox etc – breaking edges, Google toolbar.	15
II	<b>USE &amp; MANAGEMENT OF SKETCHUP</b> Model setting and managers – colours and materials – entities – making input & output – technical information – common tasks – applications.	18
III	<b>LUMION BASICS</b> Review the start screen-Benchmarking Loading projects- New Projects-Interface- Settings menu- Controlling the camera- Placing content- Importing models- Reload imported content- Selecting items- Creating a camera path- Rendering a video- Saving a project- Taking a photo.	18
IV	<b>LANDSCAPE AND MATERIALS</b> Creating new terrain- Adjusting terrain options- Paint on terrain- Understanding height maps- Adding water- Adding an ocean- Clean up- Adding grass- Random flowers and rocks- Adding trees-	20

	Modify trees- Tree properties- Adding multiple trees - Import architecture. Assign Material to 3D Model, Adjusting Glass Properties, Material Properties.	
<b>V</b>	<b>LIGHTING AND ENVIRONMENT</b> Adding an area light- Add line light- Add spotlights- Spotlight night activation-Targeting lights. Set sun height and direction- Sun effect-Fog effect- Autumn generator- Falling leaves- Rain effect- Snow effect- Controlling clouds.	18

## TEXT BOOKS

1. User manual & tutorials of Google Sketch Up software.

## DETAILS OF INSTRUMENTS

Computer, table & chair - Each per 1 student

Reference - Each per 1 student

## SOFTWARE USED

Cad Software

### Session marks

Internal : 25 marks

10 marks - Assignment 1

10 marks - Assignment 2

05 marks - Attendance

External : 75 marks

35 marks - Drafting

20 marks – Theory

20 marks – semester works in the form of Record

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Total 100 (practical)

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
Subject Code IDG672  
Semester : VI Semester  
Subject Title : PROJECT WORK AND INTERNSHIP

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
PROJECT WORK AND INTERNSHIP	6 Hours	96 Hours	25	75	100	3 Hours

**RATIONALE**

The aim of this course is to decorate the interior spaces and develop a focused argument for a particular approach to a question. The project work is conducted as group work at diploma level during the final semesters, and thus attempts to test this approach in a project where intellectual ideas and design objectives merge.

This course provides a forum for discussion on a broad range of social, political, technical and aesthetic interests and issues related to design, which prepares students to develop research interests for their thesis. First, the course will introduce methodologies and strategies used in interior decorator research. Second, it will expose students to case studies/former theses related to research areas. Third, it will guide students in the development of a thesis proposal. Finally, it will help craft a program and/or schedule for the thesis proposal.

The course will involve discussions, lectures, and presentations. Each student is expected to participate in, and at times, lead discussions, develop a thesis proposal, and make a presentation. Out of these presentations and discussions, a detailed research plan for their thesis project should emerge. Students will be expected to demonstrate the strategies and methodologies thus exhibiting a full understanding of the context that their project inhabits and validating the notion that their work is an original and unique statement.

## OBJECTIVES

At the completion of the study, the students will be able to

- Develop innovative skills in project designs.
- Apply the knowledge and skills gained through the course work in the design of particular project or by undertaking a project.
- Contribute to offer a solution to real life problem.
- Apply the technical or professional (computer) skills which the students had learned throughout the programme.

## GUIDELINES

- The project assignment can be individual assignment or a group assignment. There should not be more than 6 students if the project work is given to a group. The students should identify themselves or accept the given project assignment at least two to three months in advance. The project work identified in collaboration with industry should be preferred.
- The objective of the project work is to enable the students to work in convenient groups of not more than six members in a group on a Project involving theoretical and real studies related to interior design.
- Every project Work shall have a Guide who is a member of the faculty.
- Six Hours per week shall be allotted in the Time table for this important activity and this time shall be utilized by the students to receive directions from the Guide, Case studies, Library reading, computer analysis, field work or model making as assigned by the Guide.
- Each group shall present periodical seminars in the progress made In the Project.
- Each student shall finally produce a comprehensive report covering the Project Work details such as Working Drawing, Model and Approximate estimate of the Project and Conclusion.
- The continuous assessment and a final evaluation may be carried out for the award of marks.
- Each student shall finally submit a neatly prepared project report at the time of project viva-voce.
- Each student shall finally submit a report of internship training at the time of project viva-voce.

**(Note:** The project assignments may consist of:

- Plans
- Elevations
- Sections
- Perspective views
- Models

Effort should be made to provide actual field problem as project work to students. Project selected should be not too large in size and complexity and be related to local situations)

## PROJECT

A theme-based project must be developed with portfolio containing the details of the project, costing, material used, design plan and other necessary details of interior services like lighting, HVAC, sanitation, plumbing and landscaping.

A working model must be prepared for any one of the following with all necessary detailing of interiors

- 2 BHK Flat -1200 sqft.
- 3 room residential independent house
- Pre-School
- School
- Cafe
- Restaurant
- Coffee Bar
- Hospital
- Library
- Auditorium
- Corporate Office
- Retail Showrooms
- College Canteen

### Session marks

Internal : 25 marks	10 marks -	Review 1
	10 marks -	Review 2
	05 marks -	Attendance

External : 75 marks

10 marks -	literature study, case study/net study, standards
10 marks -	site analysis, area statement, bubble diagrams
20 marks -	site plan, detailed floor plans with furniture arrangements
10 marks -	sections, elevations, details, views/model, report
10 marks –	writing on Project description
15 marks –	demonstration and viva-voce

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Total 100      Practical

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG874  
 Semester : VI Semester  
 Subject Title : DESIGN CONCEPTS-FURNITURE AND  
 FURNISHINGS

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
DESIGN CONCEPTS-FURNITURE AND FURNISHINGS	5 Hours	80 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	FURNITURE MATERIALS AND ARRANGEMENT	16
II	FUNCTION AND PLANNING	20
III	INTRODUCTION AND DESIGN THEORY OF INTERIORS	17
IV	SOFT FURNISHINGS AND MAINTENANCE	20
Test & Model Examination		7
<b>Total</b>		<b>80</b>

## RATIONALE

Student of Interior decoration at the diploma level are expected to know design and execute building interiors. Therefore, the basic knowledge of building construction and detailed knowledge of building material is required with the knowledge of this subject the students can help in handling interior project from the concept stage to the project implementation stage. Also this exercise if necessary since the interior are becoming more integral part of architecture and considerable stress is being laid in interior design. Teacher while imparting instruction are expected to explain concept and principle introducing various building finishing materials. The course would be supplemented with literature and sample of materials

## OBJECTIVES

At the completion of the study, the students will be able

- To enable the students to learn about the types and importance of furniture, know about the selection, care and arrangement of furniture.
- To enable the students to learn about types of windows and window treatments. Develop skills in construction of curtains.

## DETAILED SYLLABUS

### IDG874 - DESIGN CONCEPTS-FURNITURE AND FURNISHINGS

Contents: Practical

Unit	Name of the Topic	Hours
I	<b>FURNITURE MATERIALS AND ARRANGEMENT</b> Wood – teak, rose wood, walnut, cedar, mahogany, pine, birch, sal, ply wood, bamboo, cane, metals, plastics, leathers. Buymanship, arrangement of furniture for various rooms – Living room, dining room, bedroom, kitchen, study room, office.	16
II	<b>FUNCTION AND PLANNING</b> Activities and Function Functional contents of an Interior Environment Planning inter-relationship of Functional Spaces and Interior Elements-Anthropometrical study-Dimension Standards of Interior Elements - Furniture, Activity and Circulation.	20
III	<b>INTRODUCTION AND DESIGN THEORY OF INTERIORS</b> Principles of design Balance, Harmony, Rhythm, Emphasis, Axis, Proportion and Scale	17

	Application of Principles of design in Interiors and their uses in Interior Design.	
<b>IV</b>	<b>SOFT FURNISHINGS AND MAINTENANCE</b> Meaning, Importance – relationship of furnishings with space, selection and use of furnishings – functional and decorative. Types of windows, curtains, draperies, hanging curtains, pelmets and valances, accessories, blinds, shades. cushion covers, slip covers, bed linens, Table linens. Stain removal, mending and darning, laundering, storage of furnishings.	20

### REFERENCE BOOKS

- 1.S. C. Rangwala - Engineering materials - Charotar Publishing, Anand
- 2.Francis D. K. Ching - Building Construction Illustrated, VNR, 1975
- 3.Stepat, D.D, (1971), Introduction to Home furnishings, The Mac Millan Co, NewYork.
- 4.Wilhide, E and Cope stick, I. (2000) contemporary decorating, conron octopus Ltd.,London.
- 5.Levine M (1998), Living rooms, Rockport publishers, USA.
- 6.Philips B, (2000), Hamlyn book of decorating, octopus publishing Ltd, London.
- 7.Clifton.c. etal (1991), The complete Home decorator conran octopus Ltd, London.
- 8.Luke. H., (1996), soft furnishings, New Holland publishers Ltd, Singapore.

### WEBSITE

<https://nptel.ac.in>

<https://ndl.iitkgp.ac>

### DETAILS OF INSTRUMENTS

Drafting Table with stool	-	Each 1 per student
Pinner board	-	1No

#### Session marks

Internal : 25 marks	10 marks -	Assignment 1
	10 marks -	Assignment 2
	05 marks -	Attendance
External : 75 marks	35 marks -	Drafting
	20 marks –	Theory
	20 marks –	semester works in the form of Record
<hr/> Total 100		(practical)

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG875  
 Semester : VI Semester  
 Subject Title : INTERIOR LANDSCAPE AND DETAILING

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
INTERIOR LANDSCAPE AND DETAILING	5 Hours	80 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	ORNAMENTAL PLANTS	16
II	PLANT PROPAGATION	20
III	FLOWER ARRANGEMENTS	17
IV	LANDSCAPE LAYOUT	20
Test & Model Examination		7
<b>Total</b>		<b>80</b>

## RATIONALE

Interior landscaping is the practice of designing, installing, and maintaining greenery and biophilic elements inside buildings. Professionals in the trade commonly refer to this service as interior plants capping or interior scaping. Landscapes and features are important because they contribute significantly to our well-being and quality of life. They provide the broader context within which we live our lives. Living within aesthetically pleasing and culturally meaningful landscapes enhances our sense of wellbeing. A crucial part of interior landscaping is adding flowers, living plants, or other natural elements and decor objects to enhance the beauty of your outdoor space.

## OBJECTIVES

The main objectives of this course are to

- Present a vivid scenario of the need and importance of interior scaping.
- Identification of plants, propagation methods, creation of different styles of flower
- Arrangements and drawing landscape design layouts.
- Understand the plant kingdom, developing, drawing and designing landscape both
- Indoor and outdoor and uplifting the aesthetic value of any kind of building.

### **DETAILED SYLLABUS**

#### **IDG875 - INTERIOR LANDSCAPE AND DETAILING**

Contents: Practical

Unit	Name of the Topic	Hours
I	<b>ORNAMENTAL PLANTS</b> Identification of important flowering plants, shrubs and other ornamental plants.	16
II	<b>PLANT PROPAGATION</b> Preparation of cutting, layering, budding and grafting.	20
III	<b>FLOWER ARRANGEMENTS</b> Making different kinds of flower arrangements.	17
IV	<b>LANDSCAPE LAYOUT</b> Creating Landscape Design Layouts with detailed drawings for hard landscape and planting diagrams.	20

## REFERENCE BOOKS

1. Time saver standards for landscape architecture.
2. Planting design by Theodore D.Walker,VNR Publications New York.
3. Landscaping Principles and Practices by Jack E.Ingels,Delmar Publishers.
- 4.Bose T K, Tropical Garden Plants, Kolkata, Horticulture & Allied Publishers, 1991
5. Cedric Crocker, All About Landscaping, Ortho Books.
6. Faulkner R & Faulkner S, Inside Today's Home, New York, Holt Rinehart & Winston Inc.,1960
7. Hooguet Fickle, The Garden, The Netherlands, Rebo Production, Lisse 1977
8. Learner J M, The Complete Home Landscape Designer.
9. Trivedi, P &Chawdhury B, Home Gardening, New Delhi, India, Council of Agricultural Research, 1983

## DETAILS OF INSTRUMENTS

Drafting Table with stool	- Each 1 per student
Pinner board	- 1No

### Session marks

Internal : 25 marks	10 marks -	Assignment 1
	10 marks -	Assignment 2
	05 marks -	Attendance
External : 75 marks	35 marks -	Drafting
	20 marks –	Theory
	20 marks –	semester works in the form of Record
<hr/>		
Total 100		(practical)

**STATE BOARD OF TECHNICAL EDUCATION & TRAINING-TAMILNADU**  
**DIPLOMA IN INTERIOR DECORATION SYLLABUS**  
**G-SCHEME**

Course Name : 1013: DIPLOMA IN INTERIOR DECORATION  
 Subject Code IDG876  
 Semester : VI Semester  
 Subject Title : LIGHTING AND COLORS IN INTERIORS

**TEACHING AND SCHEME OF EXAMINATION**

No. of weeks per Semester: 16 Weeks

Subject	Instructions		Examination			
	Hours / Week	Hours / semester	Marks			Duration
			Internal Assessment	Board Examinations	Total	
LIGHTING AND COLORS IN INTERIORS	5 Hours	80 Hours	25	75	100	3 Hours

**TOPICS AND ALLOCATION OF HOURS**

UNIT	Topic	Hrs.
I	INTRODUCTION TO DAY LIGHTING	14
II	ARTIFICIAL LIGHTING	14
III	EFFECT OF COLOR IN LIGHTING	15
IV	LUMINARES & FIXTURES	15
V	CASESTUDY	15
Test & Model Examination		7
<b>Total</b>		<b>80</b>

## **RATIONALE**

Students should acquire knowledge of the various types of lightings to effectively communicate their designs and understand the effect of various lights on colors and textures.

## **OBJECTIVES**

At the completion of the study, the students will be able

- To help the student understand day lighting and technology of artificial lighting.
- To equip the student to understand and successfully apply lighting techniques with color effects.

## **DETAILED SYLLABUS**

### **IDG876 - LIGHTING AND COLORS IN INTERIORS**

Contents: Practical

<b>Unit</b>	<b>Name of the Topic</b>	<b>Hours</b>
<b>I</b>	<b>INTRODUCTION TO DAY LIGHTING</b> Nature of light – Wavelength, Photometric quantities – intensity, Flux, illumination and luminence, visual efficiency, sources of light, day light factor concept, design sky concept, day lighting requirements	<b>14</b>
<b>II</b>	<b>ARTIFICIAL LIGHTING</b> Electric lamps – incandescent, fluorescent, sodium vapour, mercury, halogen and neon. Different types of lights in interior and exterior - task lighting, special purpose lighting. Calculation of artificial lighting, guidelines for lighting design, Glare in artificial lighting.	<b>14</b>
<b>III</b>	<b>EFFECT OF COLOR IN LIGHTING</b> Colors, color schemes - Monochromatic, analogous, complementary colour schemes, triadic and tetradic schemes, effects of color in different areas, color temperature, psychological effects of colour in interiors, factors affecting colour, Prang theory – Colour wheel, Munsell system and Oswald system.	<b>15</b>

<b>IV</b>	<b>LUMINARES &amp; FIXTURES</b> Definition, different luminaries for lighting, lighting control system- benefits & application, Impact of lighting, fixture types - free standing or portable, fixed, light fixture control. Lighting accessories- switches, sockets, fused connection units, lamp holders, ceiling roses etc.	<b>15</b>
<b>V</b>	<b>CASE STUDY</b> Study of projects based on different lighting concepts used in interiors and exteriors.	<b>15</b>

## REFERENCES

1. The Art of living- Randall whitehead,
2. Lighting design, source book- Randall whitehead,
3. Light right- M.K.Halpeth, T.Senthil kumar, G.Harikumar
4. Concepts of lighting, lighting design in Architecture- Torquil Barker

### Session marks

Internal : 25 marks

10 marks - Assignment 1

10 marks - Assignment 2

05 marks - Attendance

External : 75 marks

35 marks - Drafting

20 marks – Theory

20 marks – semester works in the form of Record

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Total 100 (practical)

# **QUESTION PAPER PATTERN**

TIME:  
MAX MARKS:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.

## B

## 134

2.

Pattern 4	A	1.	Or	B	1.
		2.			2.

Pattern 5      Choose any two out of three

- 1.
- 2.
- 3.

Question paper setters are instructed to follow any one of the above-mentioned patterns depending upon the nature of subjects in Part B.