



UTTARAKHAND BOARD OF TECHNICAL EDUCATION
JOINT ENTRANCE EXAMINATION AND TRAINING, RESEARCH DEVELOPMENT CELL, DEHRADUN
STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME

BRANCH NAME– INTERIOR DESIGN

SEMESTER – VI

Subject Code	Subject	L	T	P	T O T	EVALUATION SCHEME						Total Marks	Credit Point
						Internal		External					
						Theory	Practical	Theory		Practical			
						Max Marks	Max Marks	Max Marks	Hrs.	Max Marks	Hrs.		
Period/Weeks		Max Marks	Max Marks	Max Marks	Hrs.	Max Marks	Hrs.	Total Marks	Credit Point				
136003	Textile for Interiors*	6	2	-	8	25	-			75	2.5	-	-
136001	Entrepreneurship Development & Management*	5	-	-	5	20	-	80	2.5	-	-	100	5
136004	Major Project*	-	-	18	18	-	125	-	-	250	3.0	375	12
136002	Professional Training**	9	-	-	9	-	-	-	-	300	3.0	300	11
136052	Industrial Exposure (Assessment at Inst. Level)+	-	-	-	-	-	25	-	-	-	-	25	1
016054	General Proficiency (Disc/ Game/ SCA/NCC/NSS) #	-	-	4	4	-	25	-	-	-	-	25	1
016055	Employability Skills*	4	-	-	4	25	-	50	2.5	-	-	75	1
Total		21	2	25	48	70	175	205	-	550	-	1000	35

General Proficiency will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, NCC, NSS and cultural activities, elementary mathematics, GS & G.K. etc.

+ Industrial Exposure compulsory at minimum 2 industries or Department.

Note:- 1- Each period will be 50 minutes. 2- Each session will be of 16 weeks. 3- For effective teaching, number of periods are calculated as per norms.

* Syllabus of all subjects must be completed within 10 weeks of academic session commencement.

** All students must pursue on site training (arranged by themselves) under any architect/builder/interior designer, just after 10 weeks of commencement of academic session till closing of that session.

Branch Code - 13



**SIXTH SEMESTER
INTERIOR DESIGN**

TEXTILE FOR INTERIORS

L	T	P
6	2	-

Subject Code : 136003

RATIONALE

The aim of this subject is to study in detail the role of textiles in interior, the manufacturing process involved and the points to be kept in mind while selecting textiles for interior design.

DETAILED CONTENTS

1. The Fundamentals of Textiles for Interiors, Selecting and Evaluating Textiles for Interiors, Textile Fibers and its properties, Textile yarns and Yarn-like structures, Weaving, Textile Colorants, Colour perception and its applications, Textile product labelling. (15 hrs)
2. Upholstered furniture Coverings and Fillings, Construction features of upholstered furniture, Maintenance of finished upholstery fabric. (20 hrs)
3. Windows and Wall coverings, Selection criteria and styles for window treatments, Linings, Maintenance of finished window covering fabrics. (20 hrs)
4. Soft floor Coverings and Cushions, Selection criteria for Soft Floor Coverings: Fibers, Yarns and Construction used in textile floor coverings, Construction of Floor Coverings (Tufting, Weavings, Hand Techniques and Other Machine Techniques), Carpet and Rug Cushions, Evaluations and Specification for soft floor coverings; Installation and Maintenance of floor covering assemblies. (15 hrs)
5. Household Textiles: Textile products for bedroom, living room, kitchen and bathroom. (10 hrs)

ENTREPRENEURSHIP DEVELOPMENT AND MANAGEMENT

Subject Code : 136001

L	T	P
5	-	-

RATIONALE

Entrepreneurship Development and Management is one of the core competencies of technical human resource. Creating awareness regarding entrepreneurial traits, entrepreneurial support system, opportunity identification, project report preparation and understanding of legal and managerial aspects can be helpful in motivating technical/ vocational stream students to start their own small scale business/enterprise. Since diploma technicians are expected to take-up middle level managerial positions, their exposure to basic management principles is very essential. Based on the broad competencies listed above, following detailed contents have been finalized to develop the appropriate competencies.

DETAILED CONTENTS

Practical exercises

1. Entrepreneurship

(10 hrs)

- 1.1 Concept/Meaning and its need
- 1.2 Competencies/qualities of an entrepreneur
- 1.3 Entrepreneurial Support System e.g., District Industry Centres (DICs), Commercial Banks, State Financial Corporations, Small Industries Service Institutes (SISIs), Small Industries Development Bank of India (SIDBI), National Bank for Agriculture and Rural Development (NABARD), National Small Industries Corporation (NSIC) and other relevant institutions/organizations at State and national level

2. Market Survey and Opportunity Identification (Business Planning)

(10 hrs)

- 2.1 How to start a small scale industry
- 2.2 Procedures for registration of small scale industry
- 2.3 List of items reserved for exclusive manufacture in small scale industry
- 2.4 Assessment of demand and supply in potential areas of growth
- 2.5 Understanding business opportunity
- 2.6 Considerations in product selection
- 2.7 Data collection for setting up small ventures

- 3. Project Report Preparation (08 hrs)**
- 3.1 Preliminary Project Report
 - 3.2 Techno-Economic feasibility report
 - 3.3 Project Viability Report
- 4. Managerial Aspects of Small Business (10 hrs)**
- 4.1 Principles of Management, Definitions, functions of management viz planning, organization, coordination and control
 - 4.2 Structure of an industrial organization.
 - 4.3 Basic principles of financial management
 - 4.4 Marketing Techniques
 - 4.5 Personnel Management, staff development and training strategies
 - 4.6 Importance and techniques of communication in business
- 5. Legal Aspects of Small Business (10 hrs)**
- 5.1 Elementary knowledge of Income Tax, Sales Tax, Patent Rules, Excise Rules, provident fund
 - 5.2 Elementary knowledge of Factory Act, 1948 and Payment of Wages Act 1936, Workmen Compensation Act, Industrial Dispute act 1947, Employees State Insurance Act 1978
- 6. Environmental Considerations (04 hrs)**
- 6.1 Concept of ecology and environment
 - 6.2 Factors contributing to Air, Water, Noise pollution
 - 6.3 Air, water and noise pollution standards and control
 - 6.4 Norms and standards of State pollution Board
 - 6.5 Disaster Management – basic idea
- 7. Miscellaneous (12 hrs)**
- 7.1 Human resource development in an organization
 - 7.2 Motivation Incentives, Rewards, Job Satisfaction
 - 7.3 Leadership- types, qualities, functions and factors of effective leadership
 - 7.4 Labor Welfare schemes including wage payment- types, system of wage payment and incentives
 - 7.5 Workers participation in management, case studies in effective Management.

- 7.6 Accident and Safety: Classification, precaution and treatment after accident, safety practices promotion, personal protection equipment (PPFs) for safety at work places.
- 7.7 Introduction to Total quality Management (TQM) and steps to achieve this .
- 7.8 Intellectual Property Rights (IPR): Concept, definition, infringements and remedies related to patents, copy rights, trademarks, designs. Introduction to registering procedure

INSTRUCTIONAL STRATEGY

The aim of this subject is to develop conceptual understanding by giving inputs and exposure about starting ones own business venture/enterprise. The teacher will discuss success stories and case studies with students, which in turn, will develop managerial qualities in the students. There may be guest lectures by successful diploma holding entrepreneurs and field visits also.

RECOMMENDED BOOKS

1. A Handbook of Entrepreneurship, Edited by BS Rathore and Dr JS Saini; Aapga Publications, Panchkula (Haryana)
2. Entrepreneurship Development by CB Gupta and P Srinivasan, Sultan Chand and Sons, New Delhi
3. Environmental Engineering and Management by Suresh K Dhamija, SK Kataria and Sons, New Delhi
4. Environmental and Pollution Awareness by Sharma BR, Satya Prakashan , New Delhi
5. Thakur Kailash, Environmental Protection Law and policy in India: Deep and Deep Publications, New Delhi
6. Handbook of Small Scale Industry by PM Bhandari
7. Marketing Management by Philip Kotler, Prentice Hall of India, New Delhi
8. Industrial management by N. Mohan, and AP Verma, SK Kataria and Sons, Nai Sarak, Delhi-110006
9. Total Quality Management by Dr DD Sharma, Sultan Chand and Sons, New Delhi.
10. Principles of Management by Philip Kotler TEE Publication
11. Intellectual Property Rights and the Law by Dr. GB Reddy.

MAJOR PROJECT

L	T	P
4	-	14

Subject Code : 136004

PROJECT WORK

Project work aims at developing skills in the students whereby they apply the knowledge And skills gained through the course work in the solution of problem as a project. The Students have various aptitude and strength, project work therefore, should match the Strength of students. For this purpose, students should be asked to identify the type of Project work, they would like to execute. It is also essential that the faculty of the Respective department may conduct a brainstorming session to identify suitable project Assignments. The project assignment will be individual assignment. The students should identify their project assignment at least two to three months in advance. The project work identification in collaboration with industry should be preferred. Each teacher is expected to guide the project work of 5-6 students. The purpose of the portfolio (major project) should be to design a chosen realistic Interior design for presentation to a client and execution on site.

DETAILED CONTENTS

- During the previous training period, the students' must identify the case study for his portfolio project and procure its necessary data.
- One project chosen by individual students to be developed in the following stages: (The project should be having coverage of about 1000 Sqm.)
- Pre-design studies culminating in a report comprising study of activity, users, individual space analysis, inter-relationship of spaces, one case study, and conclusions regarding above mentioned aspects.
- Detailed design of the project to be presented through rendering presentation and detailed model to be presented through preliminary and final stage.

Drawing Requirements

1. All floor plans(layout),working drawing set, submission drawing
2. Flooring
3. False ceiling/ Reflected ceiling plan
4. Sample boards

5. Color schemes
6. Furniture details
7. Partition/paneling
8. Views
9. Door/window details
10. Other interior details along with report
11. Set of working drawings.

EMPLOYABILITY SKILLS

L	T	P
4	-	-

Subject Code : 016055

RATIONALE

Diploma holders are required to not only possess subject related knowledge but also soft skills to get good jobs and to rise steadily at their workplace. This subject is included to develop employability skills amongst the students.

DETAILED CONTENTS

Unit I: (06 periods)

- Technical Education & Industrial scenario.
- Competency required of an engineer.

Unit II: (06 periods)

- Professional Engineer desirable values and ethics and their development.
- Relation between engineering profession, society and environment

Unit III: (12 periods)

Effective Communication

- Reading & Active Listening Skills
- Speaking
- Writing
- Presentation Technique/Seminar
- Group discussion

Unit IV: (12 periods)

Managing project

- Leadership
- Motivation
- Time management
- Resource management
- Interpersonal relationship

Unit V: (10 periods)

Preparing for Employment

- Searching for job/job hunting

- Resume & CV Writing
- Interview technique in personal interview telephonic interview, panel
- Interview, group interview, video conferencing

Unit VI: (08 periods)

Self Management

- Self awareness
- Stress Management
- Conflict resolution

Unit VII: (06 periods)

- Creativity, Innovation and Intellectual property right
- Concept and need in present time for an engineer

Unit VIII: (04 periods)

Rules & Ethics

- Basic rules, laws and norms to be adhered by engineers during their working

LIST OF PRACTICAS

- Steps how to effectively write different types of Letters.
- Steps to make a Presentation in Power Point.
- Steps to make a Resume more effective.
- Steps to conduct Telephonic/On-line Interview (Through skype/Google Hangout).
- Study of Different Techniques of Stress Management.
- Study of Rules & Ethical practices to be followed at Workplace.

RECOMMENDED BOOKS

- Employability skills by Kapil Dev, Vishnu P. Singh Asian Pub. New Delhi
- Employability skills for Diploma students by Dr. S.K. Singh, Vayu Education, New Delhi

SUGGESTED DISTRIBUTION OF MARKS

Unit No.	Time Allotted (Periods)	Marks Allotted(%)
1	06	10
2	06	10
3	12	18
4	12	18
5	10	16
6	08	12
7	06	10
8	04	6
Total	64	100

L	T	P
9	-	-

Subject Code : 136002

RATIONALE

The prime objective of the professional training is to go well along with the office environment and work culture also expose the students to real life projects. Students are expected to work under the supervision of experienced registered interior designer and architects, real estate, construction industries or other related industries to understand how various components related to interior and architecture are applied. As part of their professional training it is desired that the students to work on interior, presentation/working drawings, specifications and quantity estimation, site visits and understand construction practices.

DETAILED CONTENTS

1. The candidate is required to go on practical training for at least 8 weeks in the office/organization of Interior/Architecture or other related industries.
2. Just after the starting of sixth semester, the students will submit the acceptance letter on the given format (see annexure) form the concerned office in which she is going to do her training.
3. Each candidate shall be provided a log book. The trainee is to fill up the work log book daily during the training period and get it.
4. At the end of the practical training, the students are required to present works in the form of portfolio which includes drawing and report describing various concept learnt during training, experiences of site visit photographs and estimation/costing activities etc.
5. On completion of the training every student shall get a certificate issued by the head of the organization/office in the prescribed performa (annexure) given by the institution without which the training shall not be recognized.
6. The training report will be evaluated during the final practical/viva exam.



LEARNING OUT COMES AND MEANS OF ASSESSMENT

BRANCH NAME – INTERIOR DESIGN

SEMESTER – VI

S.NO.	Title of Subject/Unit	Learning Outcomes	Means of Assessment
1	Textile for Interiors	<ul style="list-style-type: none">• Able to select the suitable covering/fabric/upholstery for interiors while keeping in mind the budget.	<ul style="list-style-type: none">• Reports• Sample boards
2	Entrepreneurship Development & Management	<ul style="list-style-type: none">• Common to all	<ul style="list-style-type: none">• Common to all
3	Major project	<ul style="list-style-type: none">• Able to design and draft detailed interior projects along with working and submission drawings.	<ul style="list-style-type: none">• CAD drawing• Model
4	Professional Training	<ul style="list-style-type: none">• To get familiar with professional working environment.• Able to work on interior, presentation/working drawings, specifications and quantity estimation	<ul style="list-style-type: none">• annexure (1-5)• Training report



ANNEXURE



ANNEXURE - 1

Training Letter

From

The Principal
Government Girls Polytechnic
Dehradun

To,

.....
.....

Sub- Industrial training for the students of INTERIOR DESIGN branch

letter no. -

dated

Dear Sir/Mam

This is to inform you that students of this institute are required to undergo industrial training for their Diploma award issued by UBTER (Uttarakhand board of technical institute, Roorkee). After the completion of training, a certificate must be issued by the trainer organisation too. This training will give them a fair idea about the various related field updates.

It is therefore requested that ms.....Sem VI student of Interior Design discipline may allowed for the Four/more weeks industrial training at your esteemed organisation.

Thanking you for your co-operation.

Yours Faithfully,

Principal
Government Girls Polytechnic
Dehradun

ANNEXURE - 2
Training Acceptance Letter

Ref.

Date:/...../.....

To,
The Dean/Principal/HOD
Department IDD
College name
Address

Dear Sir/ Mam,

With reference to your college letter no. Regarding practical training. We are giving consent to impart training to your student (name) VI sem Interior Design branch, at our office/organization (as described bellow).

Training start date

Name of Organization :

Address :
.....

Contact Details

S.L.	Name of Contact Executive	E-mail Id	Land Line No.	Mobile NO.

Thanking you Yours faithfully

Signature:
Name of Contact Person
(.....)

Company Seal

ANNEXURE - 3
DAILY DIARY LOG BOOK
PRACTICAL TRAINING
SESSION.....

Branch - Interior Design

Roll No.

Name:

D.O.B

Address:

.....

Mobile No..... Land line No.....

ANNEXURE - 3.1

MONTH	WORK DONE	REMARK	SIGN OF TRAINING COORDINATOR
WEEK 1			
WEEK 2			
WEEK 3			
WEEK 4			
COMMENTS (IF ANY):			
SIGN OF THE OWNER:			

MONTH	WORK DONE	REMARK	SIGN OF TRAINING COORDINATOR
WEEK 5			
WEEK 6			
WEEK 7			
WEEK 8			
COMMENTS (IF ANY):			
SIGN OF THE OWNER:			

ANNEXURE - 4

DECLARATION BY THE STUDENT

I hereby declare that all the particulars stated here are true to the best of my knowledge and belief.

DATE:

PLACE:

Signature of Student:

It is hereby stated that the work done by the student during theweek training is satisfactory / unsatisfactory for the completion of VI Semester.

DATE:

PLACE:

Signature Of Training Coordinator:

ANNEXURE - 5
Training Completion Letter

Ref.

Date :/...../.....

To,
The Principal/HOD
Department IDD
College name
Address

This is to certify that Mr/Ms a student of Interior Design VI Semester of IDD,, has successfully completed her week full time training in our company/firm/associate from to

All necessary details are provided from our side for the establishment of week training.

We wish her the very best in all her future endeavors.

Thanking you

Yours faithfully

Signature:
Name of Contact Person
(.....)

Company Seal