

COURSE NAME : DIPLOMA IN INTERIOR DESIGNING AND DECORATION
COURSE CODE : ID / IN
YEAR : SECOND
SUBJECT TITLE : SECONDARY SERVICES & MARKET SURVEY
SUBJECT CODE : 23217

TEACHING AND EXAMINATION SCHEME

TEACHING SCHEME				EXAMINATION SCHEME				
TH	TU	PR	PAPER HRS.	TH	PR	OR	TW	TOTAL
01	01	01	02	50	--	--	50@	100

NOTE

- > Two tests each of 25 marks to be conducted as per the schedule given by MSBTE.
- > Total of tests marks for all theory subjects are to be converted out of 100 and to be entered in mark sheet under the head Sessional Work. (SW)

RATIONALE

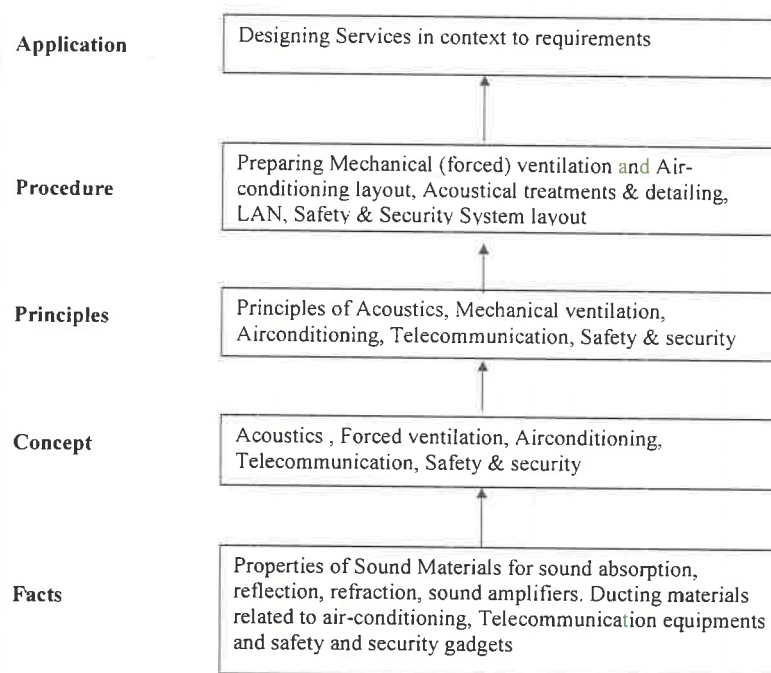
The subject intends to equip the students with concepts and principles of mechanical (forced) ventilation and air-conditioning, acoustics, safety and security systems, telecommunication and LAN. It will also develop the analytical skills in designing appropriate services layout and schemes. It also intends to understand the practical aspects of interior design through market surveys, case studies, site visits etc.

OBJECTIVES

The student will be able to:

1. Apply concepts of secondary services
2. Use appropriate resources including optimisation
3. Design layouts for services

LEARNING STRUCTURE



DETAILED CONTENTS

CHAPTER	CONTENTS	HOURS	MARKS
1	<p>Heat and Sound Principles of heat and effects of heat, Purpose of thermal insulation, advantages of insulation, general principle of thermal insulation and modes of insulation Introduction of Sound and properties and propagation of Sound, Types of Sound and effects, objective of Acoustics Terminologies, Sound intensity level based on decibels (Desirable and undesirable of sound) Strengthening, insulating, and eliminating of sound, Defects of sound. Applications: Strengthening of sound, Insulating, and elimination of sound for various activity spaces such as Sound recording studio, Conference hall, Open office and small auditorium.</p>	10	16
2	<p>Mechanical Ventilation and Air conditioning Principles of forced ventilation: Mechanical Ventilation, Principles of Ducting and distribution for ventilation and conditioned air, Types of Fans: propeller, Auxiliary, Mechanical modes of ventilation Principles of Air conditioning, Refrigeration Cycle Systems of Air-conditioning: Non-ductable and Ductable Non-ductable - Window unit, Split units - Floor, Wall, Ceiling mounted Ductable - Split, Packaged (Air-cooled duct, Floor standing air & Water-cooled units, Central air-conditioning, DX systems, Chilled water systems etc according to criteria of Volumetric load, occupancy and various activities, Variable Refrigerant Volume (VRV) and Variable Refrigerant Flow (VRF) systems. Applications: According to various criteria of Volumetric load, Occupancy and various activities.</p>	10	16
3	<p>Communication systems Types of communication systems- telephone, public address, facsimile, PBX, EPABX, Internet, Wifi, etc. Different types of telecommunication equipments LAN, WAN systems, Installation norms.</p>	06	08
4	<p>Safety and Security Systems Introduction to fire triangle and causes of fire, Fire prevention and Fire alarm systems such as proprietary, central system, Auxiliary, Remote station system, Fire detection such as smoke detectors, heat detectors, flame detectors and their installations norms. Systems for suppression of fire such as dry risers, wet risers, sprinklers & their installation norms. Systems for fire extinguishers – dry chemical powders, carbon dioxide, water type and their installation norms, Fire retarding treatments – coating and adding of fibres.</p>	06	10

CHAPTER	CONTENTS	HOURS	MARKS
	Introduction and principles of security (as per situations) Types of security systems, field devices such as switches, sensors, card-readers, locks, cameras. Access controls Installation norms, Uses and applications.		
	TOTAL	32	50

SKILLS TO BE DEVELOPED

INTELLECTUAL SKILLS

- Observation skill
- Analytical skill

MOTOR SKILLS

- Data collection

LIST OF PRACTICAL/ ASSIGNMENTS

SR. NO.	DESCRIPTION	HOURS
1	Air-conditioning layout for an interior plan along with distribution, ducting & VRV System calculating the sizes.	08
2	Acoustical arrangement for given layout including drawing sectional elevations.	05
3	LAN layout for an interior plan including drawing typical details.	07
4	Security layout for an interior plan.	06
5	Fire Fighting system layout for an Interior Plan	06
	TOTAL	32

NOTE

Above mention Tutorial must be submitted by the students as term work. Market Survey Report on Case Studies, Site visit for related materials should be included in the Term work.

SUGGESTED LEARNING RESOURCES

SR. NO.	TITLE	AUTHOR	PUBLICATION
1	Architectural Acoustics, Principles and Design	Madan Mehta & James Johnson	Library of congress Cataloguing in Publication Data
2	Noise and vibration	Frank and John Walk	British Library Cataloguing in Publication Data
3	Heating, cooling, Lighting Design	Norbert Lechner	Library of congress Cataloguing in Publication Data
4	Building services and equipments	Donald Hoff	Library of congress Cataloguing in Publication Data
	ABC of Air-conditioning	Ernest Tricomi	D. B. Taraporevala & sons

COURSE NAME : DIPLOMA IN INTERIOR DESIGNING AND DECORATION
COURSE CODE : ID / IN
YEAR : SECOND
SUBJECT TITLE : COMMUNICATION SKILLS
SUBJECT CODE : 23046

TEACHING AND EXAMINATION SCHEME

TEACHING SCHEME			EXAMINATION SCHEME					
TH	TU	PR	PAPER HRS.	TH	PR	OR	TW	TOTAL
01	--	01	--	--	--	25#	25@	50

RATIONALE:

The subject intends to enhance Verbal and Non-verbal Communication Skills of students with an intention to improve the language and conversational ability through different media such as face to face, presentations, written, graphic, audio etc. It aims at making students understand how the different types and forms of communication are suited and selected for differing situations.

The student also needs to learn personality enhancement to manage tasks and to become successful in life. It includes self-appraisal; ability to form correct and effective group or team; manage successfully and in time; and use ethical principles.

OBJECTIVES:

The student will be able to:

1. Understand concepts, principles, procedures and components of communication; interpret reasons of communication failure and source respective remedies.
2. Classify communication and select appropriate media; draft business letters and reports pertinent to interior designing profession.
3. Work in groups and teams; demonstrate leadership quality; make use of group skills to achieve goals.
4. Minimize stress level and work in harmony; Understand frustration and take appropriate action. Enhance personality, learn self-grooming, and carry out self-appraisal.



LEARNING STRUCTURE

Application

Communicate effectively, proficiently & display presentation skills; Enhance personality with confidence; Become better professional with ethical life long skills

Procedure

Select appropriate media of communication, work & manage groups, Self-appraisal, stress relieving procedures, SWOT analysis

Principles

Communication, barriers, failures and remedies, Task priority, Time management, Ethics of profession

Concept

Components, types & classes of communication and its processes; Comprehension, Time management, Ethics, Morality, Peer pressures, Leadership Stresses

Facts

English language, Sign language, letter writing Language, Communication Techniques, Professional Practices

DETAILED CONTENTS

CHAPTER	CONTENTS	HOURS
1	Oral Communication Object, concept and design elaboration/ explanation. Basic presentation of Material and Products with services. Making catalogue of Products and services. Spoken English- Using Grammar in verbal presentations (verb formations, adjectives, adverbs, conjunctions and gerunds.)	06
2	Electronic Communication Introduction to use of computer software's facilitating interior designing Like M.S. word/excel/PowerPoint, 3D modelling, 2D presentation software, etc. Making self-profile. Drafting and printing effective resume. Presentation and jury of the work done in the above mentioned software	06
3	Grooming and Interview skills Questionnaire about grooming and confidence building. Public speaking Different types of Interviews (personal, telephonic, media, face to face and panel interview) Tips and observations while appearing for an interview as an intern. Mock interviews.	06
4	Medium of Social Awareness Different streams of social awareness developing positive attitude. Posters and graffiti Street plays and talk shows Motivational Art.	04
5	Written Communication Business Writing: Business letter writing: parts of business letters and their standards, letter of application, leave application , inquiry, reply to inquiry, complaint, reply to complaint, persuasive, apology in profession. Use of effective and grammatically correct language. Resume writing, Interview tips and answers to common interview questions.	06
6	Analytical writing, Language of specification writing, Technical writing, literary writing, Reports generation including graphs, pie charts, Bar charts, comparatives, etc. Writing and understanding Advertisements, circulars, write-ups, and technical reviews.	04
TOTAL		32

SKILLS TO BE DEVELOPED

INTELLECTUAL SKILLS

- Understanding the situations, Improving vocabulary
- Preparing Letter, Reports

MOTOR SKILLS

- Presentation and Public Speaking
- Oral and Written communication

LIST OF PRACTICAL/ ASSIGNMENTS

To be carried out in neatly hand-written or typed (Preferably computer typing), well composed and in individual write-ups presented at the end in a single, well composed booklet form.

SR. NO.	DESCRIPTION	HOURS
1	Catalogue presentation used in interior design and decoration. Informal presentations on current affairs.	04
2	Making self-profile with first year and present years interior designing projects.	04
3	Power Point presentation of the work done by a Professional Interior Designer and Decorator.	04
4	Group seminar on any one topic of Construction Technique.	04
5	Writing agenda, notice, circular, minutes and report on any general, weekly or monthly meeting.	04
6	Public speech on any social issue.	04
7	Interviewing an intern, asking questions as a professional interior designer.	05
8	Review on any one social awareness activity.	03
TOTAL		32

Notes

External examiner to conduct the orals giving proportionate weightage to: -a. communication ability, b. value & depth of content, c. manners & etiquettes exhibited, and d. overall professional attitude of the student displayed through appearance & presentation of the practical assignments in booklet form.

Assessment of the term work is to be carried out continually by the subject teacher giving similar weightage as above.

SUGGESTED LEARNING RESOURCES:

SR. NO.	TITLE	AUTHOR	PUBLICATION
1	Learning to learn	K K Nelson, F Dubor	Allyn & Bacon
2	Basic Managerial Skills for all	E. H. McGrath	Prentice hall of India
3	Independent Study Techniques	P D Kulkarni & B B Sharma	TTTI, Chandigarh
4	101 Ways to Better	Elizabeth Hierney	Kogan Page

SR. NO.	TITLE	AUTHOR	PUBLICATION
	Communication		
5	Communication Skills	MalvikaNagarkar	MSBTE
6	English Grammar	Wren & Martin	Chand Books
7	Human Communication	Burgoon Michael	London: Sage Pub.
8	A Communicative grammar of English	G Leech & Jan Svartvik	ELBS
9	Technical writing and Professional communication	Thomas Huckin& Leslie Olson	London William Collins & Sons Co.
10	Business English & Communication	Lyn Clark & Zimmer	New York: Mcgraw Hill
11	Excellence in Business communication	John Thill&Courtland	New York: Mcgraw Hill
12	Spoken English for India	R K Bansal& J B Harrison	New York: Mcgraw Hill
13	Better English Pronunciation	J D O'Conner	N Delhi: Orient Longman
14	Organizational Behaviour	Fred Luthans	McGraw Hills
15	Basic Managerial Skills for all	E H Megram	Prentice Hall of India
16	Team Building	Glenn Parker	Viva Books Pvt Ltd
17	Leadership Training	Elizabeth M Christopher	Viva Books Pvt Ltd

SUGGESTED E-LEARNING RESOURCES

1. www.mindtools.com
2. www.samcerto.com
3. www.stress.org.uk
4. www.coopcomm.org/workbook.com
5. www.mapnp.org/lib/grpskil/theory.htm

COURSE NAME : DIPLOMA IN INTERIOR DESIGNING AND DECORATION
COURSE CODE : ID / IN
YEAR : SECOND
SUBJECT TITLE : CADD PRESENTATION
SUBJECT CODE : **23047**

TEACHING AND EXAMINATION SCHEME

TEACHING SCHEME			EXAMINATION SCHEME					TOTAL
TH	TU	PR	PAPER HRS	TH	PR	OR	TW	
01	--	01	--	--	--	--	50@	50

RATIONALE

This subject intends the student to understand the importance of CADD PRESENTATION for designing, preparing and exchanging drawings. The students will be able to generate a realistic view of their design. Also, communicating their ideas becomes very easy and effective.

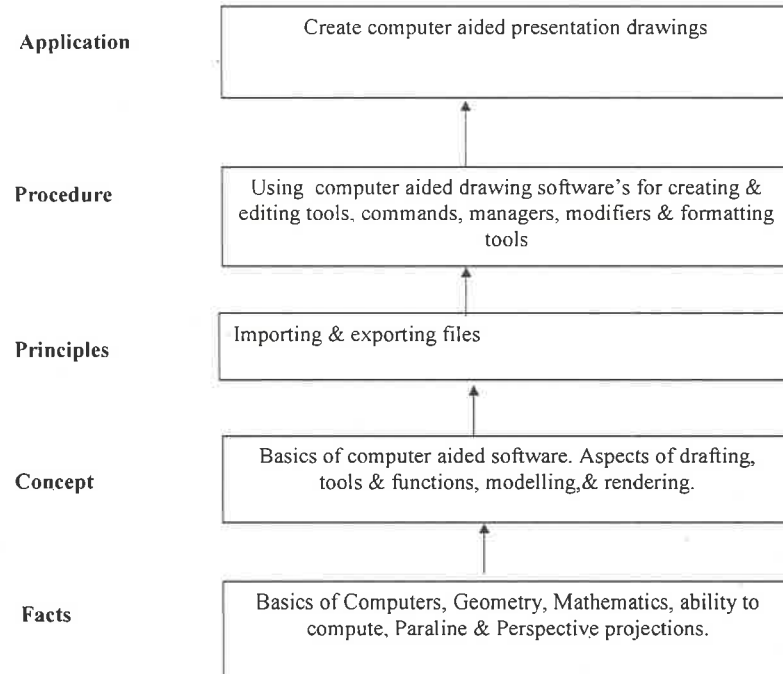
OBJECTIVES

The student will be able to

1. Develop the skill & knowledge in 3D Modelling and Animation.
2. Use basic 3D command to develop 3D drawings.
3. Use commands for edit/modification of existing drawings as per needs and suggestions.
4. 2-D CADD interface, various drafting and editing techniques, and plotting and printing.
5. 3-D interface, basic modelling techniques, application on materials, maps, lights, camera & rendering



LEARNING STRUCTURE



DETAILED CONTENTS

CHAPTER	CONTENTS	HOURS
1	3D Presentation Techniques Main toolbar & 3D modelling techniques Definition of Modelling. Exploring the 3D Interface, Controlling & Configuring the Viewports, Customizing the 3D Interface & Setting Preferences, Working with Files, Importing & Exporting, Selecting Objects & Setting Object Properties, Duplicating Objects, Creating & Editing Standard Primitive & extended Primitives objects, Transforming objects, Pivoting, aligning etc. Standard primitives- Sphere, Box, Cylinder, Cone, Cube, Pyramid, Torus, Plain, Geo-Sphere. Extended primitives-hydra, torus, knot, chamfer box. Compound objects Modifiers	20
2	2D Splines , Shapes & compound object Understanding 2D Splines & shape, Extrude & Bevel 2D, object to 3D, Understanding Loft & terrain, Modelling simple Objects with splines. Understanding Boolean.	
3	Material and Mapping Standard material, Two sided materials, multi sub object material, Creating new materials, UVW mapping Using the material editor & the material explorer creating & applying standard materials adding material details with maps using atmospheric & render effects	
4	Lighting & Camera Target camera. Free camera. Adjusting and working on lens. Omni light. Spot light. Mental ray lighting	12
5	Rendering and walkthrough Render the object the object or views and save it in .jpg, .tif, .avi file. Final render setting and walk through.	
TOTAL		32

SKILLS TO BE DEVELOPED

INTELLECTUAL SKILLS

- Visualizing and drafting 2D and 3D objects with the help of software

MOTOR SKILLS

- Analytical and Computer Aided Drafting



LIST OF PRACTICAL/ ASSIGNMENTS

To be carried out in computerised printed format on A-3 size sheets (Landscape orientation). One Sheet per topic

SR. NO.	DESCRIPTION	HOURS
1	Create all type of Standard, Extended, Primitive objects	02
2	Create compound objects.	02
3	Import from 2D to 3D	02
4	Create Doors, Windows and Stairs according to parameters	02
5	Convert all solid objects into editable mesh and editable poly.	02
6	Create walls, railing and foliage using AEC extended	02
7	Create Doors, Windows frame, Panels, Glasses using Boolean	02
8	Import readymade 3D objects from internet and apply in 3D model.	02
9	Apply different types of Lens and Effects in Lights.	02
10	Create Bounce Effect of Water.	02
11	Create Curtains using special modifiers a. Apply Camera, Lights and Materials in 3D Model. b. Create 3 seater sofa / double bed / six seating dining set in Model. c. Make a basic house and try out different colors and materials. Placing Movie Cameras in a Model. Print your document/ Walkthrough d. Make a rendered commercial project view in 3D modeling & submit A-3 print	12
TOTAL		32

