CURRICULUM

For

DIPLOMA IN

DRESS DESIGNING AND GARMENT MANUFACTURING

(180 R)

GOVERNMENT POLYTECHNIC PUNE

UNIVERSITY ROAD

PUNE-411016

PROGRAMME STRUCTURE

DIPLOMA PROGRAMME IN DRESS DESIGNING AND GARMENT MANUFACTURING

GENERAL STRUCTURE

(for minimum 180 credits to acquire Diploma)

Level code	Category of Courses	No.of Courses	Credit points
1	Foundation Courses	6	32
2	Core Technology Courses	7	35
3	Auxiliary Technology Courses	3	11
4	Basic Technology Courses	6	33
5	Applied Technology Courses	6+1(project)	42
6	Allied Technology Courses	2	06
7	Diversified Courses	4	21
	Total	**34+1(project)**	**180**

DETAILED PROGRAMME STRUCTURE

LEVEL-I Foundation Courses (All Compulsory)
Dress Designing and Garment Manufacturing

Course Code	Course Title	Prerequisite	Teaching Scheme			Examination Scheme					Total Marks
			L	P	C	PA	TH	PR	TW	OR	
DD141	Equipments & Machines for Apparel construction	----------	3	0	3	10	40	--	--	--	50
DD142	Introduction to Drafting	---------	2	4	6	--	--	50	50	--	100
DD143	Garment Finishing Techniques	---------	2	4	6	10	40	50	50	--	150
DD144	Needle Work	---------	1	4	5	--	--	50	50	--	100
DD145	Elements of Drawing	---------	1	6	7	--	--	50	50	--	100
HU141	Communication Skill	--------	3	2	5	20	80	--	--	--	100
		TOTAL	12	20	32	40	160	200	200	--	600

Note-L-Lecture P-Practical C-Credits
PA- Progressive Assessment
TH- Theory
PR- Practical
TW- Term Work
OR- Oral

Each Lecture / Practical period is one clock hour

LEVEL-II Core Technology Courses (All Compulsory)
Dress Designing and Garment Manufacturing

Course Code	Course Title	Prerequisite	Teaching Scheme			Examination Scheme					Total Marks
			L	P	C	PA	TH	PR	TW	OR	
DD241	Elements of Textile	----------	4	0	4	10	40	--	--	--	50
DD242	Garment Making	---------	2	8	10	-	-	100	100	--	200
DD243	Indian Costume	---------	3	0	3	10	40	--	--	--	50
DD244	Traditional Textiles of India	---------	3	0	3	10	40	--	--	--	50
DD245	Fabric Ornamentation	---------	2	4	6	--	--	100	50	--	150
DD246	Fashion Drawing	---------	1	4	5	--	--	50	50	--	100
CM241	Computer Fundamentals	---------	2	2	4	--	--	50	25	50	125
		TOTAL	17	18	35	30	120	300	225	50	725

LEVEL-III Auxiliary Technology Courses part A (Compulsory)
Dress Designing and Garment Manufacturing

Course Code	Course Title	Prerequisite	Teaching Scheme			Examination Scheme					Total Marks
			L	P	C	PA	TH	PR	TW	OR	
DD341	Fashion Draping	---------	1	3	4	--	--	75	50	--	125
		TOTAL	1	3	4	--	--	75	50	--	125

LEVEL-III Auxiliary Technology Courses part B (Any one)
Dress Designing and Garment Manufacturing

Course Code	Course Title	Prerequisite	Teaching Scheme			Examination Scheme					Total Marks
			L	P	C	PA	TH	PR	TW	OR	
HU341	Community Development	---------	2	1	3	20	80	--	25	--	125
HU342	Ecosystem and Environment	---------	2	1	3	20	80	--	25	--	125
HU343	Non-Conventional Sources of Energy	----------	2	1	3	20	80	--	25	--	125
		TOTAL	2	1	3	20	80	--	25	--	125

LEVEL-III Auxiliary Technology Courses part C (Any One)
Dress Designing and Garment Manufacturing

Course Code	Course Title	Prerequisite	Teaching Scheme			Examination Scheme					Total Marks
			L	P	C	PA	TH	PR	TW	OR	
SC343	Advance Physics	-------	2	2	4	20	80	--	25	--	125
CE341	Interior Decoration	--------	2	2	4	20	80	--	25	--	125
CE342	Architectural Design	--------	2	2	4	20	80	--	25	--	125
EE341	Electrification of Building	--------	2	2	4	20	80	--	25	--	125
EE342	Electronics circuits & components	-------	2	2	4	20	80	--	25	--	125
ME341	Two Wheeler Vehicle Maintenance	-------	2	2	4	20	80	--	25	--	125
ME342	Auto CAD	-------	1	3	4	--	--	50	50	25	125
CM341	Fundamentals of Programming using C	-------	2	2	4	20	80	--	25	--	125
ET341	Hobby Electronics	--------	2	2	4	20	80	--	25	--	125
FF344	Electrical Systems in Automobiles	-------	2	2	4	20	80	--	25	--	125
DD342	Graphic Design	--------	1	3	4	--	--	50	50	25	125
		TOTAL	01	03	04	-	-	50	50	25	125

LEVEL-III Auxiliary Technology Courses part D (Any One)
Dress Designing and Garment Manufacturing
(No Theory Examination)

Course Code	Course Title	Prerequisite	Teaching Scheme			Examination Scheme					Total Marks
			L	P	C	PA	TH	PR	TW	OR	
NC-341	Yoga	-	-	-	-	-	-	-	-	-	-
NC-342	Rowing	-	-	-	-	-	-	-	-	-	-
NC-343	Sports	-	-	-	-	-	-	-	-	-	-
NC-344	Gardening	-	-	-	-	-	-	-	-	-	-
NC-345	Photography	-	-	-	-	-	-	-	-	-	-
NC-346	Music	-	-	-	-	-	-	-	-	-	-
NC-347	Cultural Activities	-	-	-	-	-	-	-	-	-	-
NC-348	Trekking	-	-	-	-	-	-	-	-	-	-
NC-349	Classical Dance	-	-	-	-	-	-	-	-	-	-
NC-350	Value Education	-	-	-	-	-	-	-	-	-	-
NC-351	Foreign Language	-	-	-	-	-	-	-	-	-	-
NC-352	Advanced Mathematics	-	-	-	-	-	-	-	-	-	-
NC-353	NSS	-	-	-	-	-	-	-	-	-	-
	TOTAL										-

LEVEL-III Auxiliary Technology Courses part E (Any One)
(No Theory Examination)

Course Code	Course Title	Prerequisite	Teaching Scheme			Examination Scheme					Total Marks
			L	P	C	PA	TH	PR	TW	OR	
NC356	Engineering Economics	-	-	-	-	-	-	-	-	-	-
NC357	Elements of Humanity	-	-	-	-	-	-	-	-	-	-
NC358	Industrial Psychology	-	-	-	-	-	-	-	-	-	-
	TOTAL III A,B,C,D,E		-	-	-	-	-	-	-	-	**375**

LEVEL-IV Basic Technology Courses (All Compulsory)
Dress Designing and Garment Manufacturing

Course Code	Course Title	Prerequisite	Teaching Scheme			Examination Scheme					Total Marks
			L	P	C	PA	TH	PR	TW	OR	
DD441	Pattern Making & Apparel Construction- I	----------	2	8	10	--	--	100	100	--	200
DD442	Pattern Alteration & Grading	---------	2	3	5	--	--	100	100	--	200
DD443	World Dress	---------	3	0	3	10	40	--	--	--	50
DD444	Fashion Art & Illustration –I	---------	0	6	6	--	--	100	100	--	200
DD445	Fashion Art & Illustration –II	---------	0	5	5	--	--	100	100	--	200
DD446	Fashion Merchandising	---------	4	0	4	10	40	--	--	--	50
		TOTAL	11	22	33	20	80	400	400	--	900

LEVEL-V Applied Technology Courses (All Compulsory)
Dress Designing and Garment Manufacturing

Students Admitted in 2007

Course Code	Course Title	Prerequisite	Teaching Scheme			Examination Scheme					Total Marks
			L	P	C	PA	TH	PR	TW	OR	
DD541	Project & Seminar	----------	0	8	8	50	--	--	50	50	150
DD542	Computer Aided Designing	--------	1	3	4	--	--	100	100	--	200
DD543	Pattern Making & Apparel Construction- II	--------	2	6	8	--	--	100	100	--	200
DD544	Creative Fashion Presentation	---------	3	5	8	20	80	--	50	--	150
DD545	Portfolio Development	---------	0	4	4	--	--	100	100	--	200
DD546	Indian Embroidery	---------	3	4	7	10	40	50	50	--	150
DD547	Apparel Management	---------	3	0	3	10	40	--	--	--	50
		TOTAL	12	30	42	90	160	350	450	50	1100

LEVEL-V Applied Technology Courses (All Compulsory)
Dress Designing and Garment Manufacturing

Students Admitted in 2008 & onwards & Path Transfer Cases

Course Code	Course Title	Prerequisite	Teaching Scheme			Examination Scheme					Total Marks
			L	P	C	PA	TH	PR	TW	OR	
DD541	Project & Seminar	----------	0	8	8	50	--	--	50	50	150
DD542	Computer Aided Designing	---------	1	3	4	--	--	100	100	--	200
DD543	Pattern Making & Apparel Construction- II	---------	2	6	8	--	--	100	100	--	200
DD544	Creative Fashion Presentation	---------	3	5	8	20	80	--	50	--	150
DD548	Portfolio Development	---------	0	4	4	--	--	50	50	--	100
DD549	Indian Embroidery	---------	3	4	7	20	80	50	50	--	200
DD550	Apparel Management	---------	3	0	3	20	80	--	--	--	100
		TOTAL	12	30	42	110	240	300	400	50	1100

LEVEL-VI Allied Technology Courses part C (Any Two)
Dress Designing and Garment Manufacturing

Course Code	Course Title	Prerequisite	Teaching Scheme			Examination Scheme					Total Marks
			L	P	C	PA	TH	PR	TW	OR	
MA641	Entrepreneurship	-------	3	--	3	20	80	--	--	--	100
MA642	Supervisory skills	--------	3	--	3	20	80	--	--	--	100
MA643	Project Management	-------	3	--	3	20	80	--	--	--	100
MA645	Industrial Organization & Management	--------	3	--	3	20	80	--	--	--	100
MA646	Plant Engineering	-------	3	--	3	20	80	--	--	--	100
MA648	Marketing Management	-------	3	--	3	20	80	--	--	--	100
MA650	Management Information System	-------	3	--	3	20	80	--	--	--	100
MA651	Material Management	-------	3	--	3	20	80	--	--	--	100
MA652	Waste Management	--------	3	--	3	20	80	--	--	--	100
MA653	Introduction to Web Technology	CM141 OR CM241	1	2	3	10	40	--	50	--	100
		TOTAL	06	00	06	40	160	--	--	--	200

LEVEL-VII
Diversified Courses
Dress Designing and Garment Manufacturing
Part: - A

Course Code	Course Title	Prerequisite	Teaching Scheme			Examination Scheme					Total Marks
			L	P	C	PA	TH	PR	TW	OR	
DD741	Retail Promotion	--	3	2	5	20	80	--	50	--	150
DD742	Advance Computer Aided Designing	--	1	3	4	--	--	50	50	--	100

PART:-B

Course Code	Course Title	Prerequisite	Teaching Scheme			Examination Scheme					Total Marks
			L	P	C	PA	TH	PR	TW	OR	
Any one											
DD743	Women's Wear	--	2	5	7	--	--	100	50	--	150
DD744	Men's Wear										
DD745	Kid's Wear										
Any one											
DD746	Fashion Communication	--	2	3	5	--	--	50	50	--	100
DD747	Fashion Accessories										
		TOTAL	8	13	21	20	80	200	200	--	500
		TOTAL	180								4400

Level-I

Foundation Courses

(All compulsory)

Course Code	Course Title
DD141	Equipments & Machines for Apparel Construction
DD142	Introduction to Drafting
DD143	Garment Finishing Techniques
DD144	Needle Work
DD145	Elements of Drawing
HU141	Communication Skill

Name of Programme : Dress Designing and Garment Manufacturing
Programme Code : 01/02/03/04/05/06/07/08

Name of Course : Equipments & Machines for Apparel construction

Course Code : DD141

Teaching Scheme

	Hours / Week	Total Hours
Theory	03	48
Term work / Practical	--	--

Evaluation

	Progressive Assessment	Semester End Examination			
		Theory	Practical	Oral	Term Work
Duration	Three class tests of 60Min. duration	2 Hrs.	--	--	--
Marks	10	40	--	--	--

Course Aim -
Aim of the course is to provide knowledge of different tools & machineries required for garment manufacturing and understand the standards that maximize the speed as well as the quality of product by use of various industrial machines.

Course Objectives - Students will be able to-

- Understand uses & purposes of various garment-manufacturing machines.
- Use sewing tools skillfully & take care of it.
- Acquire knowledge of working principle & implementation of garment manufacturing machines.

Sr. No.	Topic / Subtopic	Hours	Weight age	Practical
1.	**Tools For Clothing Construction** a) Measuring Equipments-Measuring Tape, Seam Gauge, Yardstick or Meter Stick, Transparent Ruler, and Skirt Marker etc. b) Pinning Equipments - Silk Pins, Ball Point Pins, T – Pins Cushion etc. c) Marking Equipment -Tracing Wheel, Dressmakers Tracing Paper and Tailors Chalk etc. d) Storage Equipments- Boxed goods, Hanging good e) Packaging Equipments – Bagging, Boxing f) General Tools- Sewing Threads, Dummy, Mirror, Hangers, drill marker, knotcher etc.	06	06	
2	**Cutting Technology-** A) **Cutting Equipments** – Shears & Scissors, Dress Makers Shears, Scalloping Shears, and Cutting Table etc. B) **Bulk Cutting Machines** (Explanation & principles) a) Powered scissors b) Straight Knife cutting machine c) Round Knife Cutting machine d) Bend Knife cutting machine	08	08	
3	**Pressing Technology** A) Finishing equipments – (Irons) a) Charcoal b) Dry c) Automatic d) Electric Steam B) Pressing Equipments –sleeve board, Press mitt, Tailors ham, Seam roll, Tailors board, Velvet or needle board, Dressmaker clapper, Point pressure pounding block.	10	08	

4	**Sewing Technology** A) Explanation of factors involved in controlling sewing quality. a) Needle b) Feed dog c) Throat plate Explanation of the categories of stitching mechanism. a) Bobbin & bobbin case b) Shuttle & shuttle hooks c) Tension devices d) Thread guide. B) Working conditions of lock stitch machines a) Stitch type b) Stitch style c) Stitch style regulation. b) Working type of Beds of Sewing machine. c) Description & Function of Lock Stitch Machine Attachments Pressure Foot - Roller foot, Binding foot, Zipper foot, Teflon coated foot, Cording Foot, Shirring foot, Gathering foot. Gauge - Seam gauge, Quality guide bar & guides button holes, gauge, Spacing gauge C) Types of Machines a)Lock stitch machine & its parts b) Over lock machine c) Button fixing machine d) Button hole machine e) Blind stitch machine f) Embroidery machine g) Flat lock machine h) Bar Tack	24	18	

Instructional Strategy

Sr. No.	Topic	Instructional Strategy
1.	Tools For Clothing Construction	Theoretical treatment
2.	Cutting Technology	Theoretical treatment
3.	Pressing Technology	Theoretical treatment
4.	Principle & Mechanism of Sewing Technology	Theoretical treatment, self learning

Reference Books

Author	Title	Publisher
Reader's digest	Complete Guide to Sewing	London Blackwell
Gerry cooling	Clothing Manufacturing	Focal press N.Y.
Jan eaten	Encyclopedia of Sewing Techniques	London Crange Books
Anita Webb	Clothing Decisions	
Gerry Cooklin	Introduction to Clothing Manufacture	BSP Professional Books
Gerry Cooklin	Garment Technology for Fashion Designers	Blackwell

Learning Resources: Chalk, Board, Charts

Specification Table

Sr. No.	Topic	Knowledge	Comprehension	Application	Total
1.	Tools for Clothing Construction	03	02	01	06
2.	Cutting Technology	03	02	03	08
3.	Pressing Technology	04	02	02	08
4.	Principle & Mechanism of Sewing technology	08	08	02	18

Prepared by

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Lecturer in DDGM

Member Secretary (PBOS)

Chairman PBOS DDGM

Name of Programme : Dress Designing and Garment Manufacturing
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : Introduction to Drafting.

Course Code : DD142

Teaching Scheme-

	Hours / Week	Total Hours
Theory	02	32
Term Work/Practical	04	64

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--	--	--	--
Marks	--	--	50	--	50

Course Aim-

This course deals with the fundamental principles of drafting. The course allows emphasis on techniques and methods of drafting patterns. The course enables students to develop an eye for visualizing three dimensional shapes through the introduction of dart manipulation.

Course Objectives- The students will be able to-

- Determine size and figure types.
- Follow the rules of marking & cutting.
- Prepare master patterns of basic garments.
- Draft different basic blocks.
- Gain knowledge of basic pattern making.

Course Content-

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
01	**Introduction to Industrial Forms** Land mark, Reference areas	02		**Drafting & paper cutting of following mention blocks (1:4 scale & full-size)** Basic Bodice Block

02	**Working Room Term and Definition** A) Pattern Making Terms- Pattern drafting, Pattern Draping, Working Pattern, Land Marks, Dot Marks, Bust Point, Apex, Dart legs, Dart intake, Dart point, Double ended dart, Up riding a dart, Cupping the pattern, Ease template, Trace, Test fit. B) Fabric Terms Grain, Lengthwise grain, Cross-wise grain, Selvedge, Bias, True bias, Muslin layout. C) Pattern Production Terms: First Pattern Foundation Terms, working pattern / Fashion pattern Production pattern / Final master pattern Pattern grading, Pattern marker, Pattern cutter D) Completing the Pattern Notches, Punch, Circles, Slits, Job seams,Seam allowance, Pattern gridline, Pattern information.	06		Sleeveless Bodice Block
03	**Method of Measuring Body Dimension** a)Introduction to standard ideal figure b) Pattern Industry Standards c)Department Store Standards d) Direct Body Measurement e) Vertical f) Horizontal Measurements g) Measuring the Form h)Standard Measurement Chart	04		Sleeve Block
04	**Introduction to Blocks** a) Bodice Block (Close Fitting & Semi-Fitting) b) Sleeve Block c) Skirt Block	04		Sleeve Block
05	**Types of Skirts** a) A-line Skirt b) Gathered Skirt c) All around Pleated Skirts d) Yoke Skirt with Panel	04		Skirt

	e) Four Gored Skirt f) Trumpet Skirt			
06	**Introduction to Dress Block** a) One piece Dress Block b) Sleeveless Dress Block	04		Dress Block
07	A) **Types of Sleeves** Set in sleeve, Short sleeve, Puff sleeve, Bishop sleeve. Gathered head sleeve, Lantern sleeve, Extended head sleeve B) Introduction to Collars Peter pan, Eton, Mandarin, Convertible, Shirt, Sailor, Shawl, Polo	04		Dress Block
08	**Front Opening** a) Slandered Buttoned Front b) Double Breasted Front c) Asymmetrical Front d) Shirt Front	04		**Dart Manipulation** A) Single Dart Series-Slash and Spread Technique a) Center Front Waist Dart b) Center Front Neck Dart c) Mid-Shoulder Dart d) French dart e) Mid-Neck Dart f) Side Dart g) Mid Armhole Dart h) Shoulder-Tip Dart. B) Single Dart Series -Pivotal Transfer Technique: a) Mid-Neck Dart b) Side Dart c) Mid armhole Dart d) Shoulder-Tip Dart C) Two Dart Series-Slash and Spread Technique a) Two-Dart working Pattern b) Waist & Side Dart c) Mid-Shoulder & Waist Dart d) Mid-Armhole & Waist Dart. D) Two dart series-pivotal transfer technique a) Mid Neck & Waist Dart b) Shoulder Tip & Waist Dart c) Center Front Neck & Waist Dart

Reference Books

Author	Title	Publisher
Winifred Aldrich	Metric pattern Cutting For Children's Wear	London, Blackwell
Winifred Aldrich	Metric pattern Cutting for Women's Wear	London, Blackwell
Armstrong	Pattern Making	---
Natalie Bray	Dress pattern Making	London, Blackwell

Learning Resources: Drafting and Cutting tools.

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1.	Introduction to Industrial Forms	Theoretical treatment
2.	Working room term and definition	Theoretical + Practical treatment
3.	Method of measuring body dimension	Theoretical + Practical treatment
4.	Introduction to Blocks	Theoretical + Practical treatment
5	Types of Skirts	Theoretical + Practical treatment
6	Introduction to Dress block	Theoretical + Practical treatment
7	Types of sleeves	Theoretical + Practical treatment
8	Front Opening	Theoretical treatment
9	Dart Manipulation	Practical treatment

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Name of Programme : Dress Designing and Garment Manufacturing
Programme Code : 01/02/03/04/05/06/07/08

Name of Course : Garment Finishing Techniques

Course Code : DD143

Teaching Scheme-

	Hours / Week	Total Hours
Theory	02	32
Term Work/Practical	04	64

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	Three class test of 60 Min. duration	2 hrs.	--	--	--
Marks	10	40	50	--	50

Course Aim-
This course provides the basement for various special sewing techniques that needs to be used while constructing garments. The course promotes students to develop and present functional and decorative details including trims, ornamental stitching and pattern making, also the course discusses methods of garment closure including button, buttonholes, zippers and miscellaneous fasteners through which students can learn the most basics of stitching crafts.

Course Objectives- The students will be able to -

- Understand basic principle of sewing and solve common machine problems.
- Present edge treatments used to finish raw edges with emphasis on hems facings, bindings, bands and plackets.
- Implement the knowledge of various stitches while developing apparel.
- Learn different types of seams for Varity of purpose in sewing.
- Add fullness to the garments with various pleats and tucks.
- Understand the importance of lining and interlining used for production of quality garments.

Course Content:

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
1	**Sewing Machine Care** a) Sewing Machine Care b) Common Problems & Remedies Of Sewing Machine	02	04	Introduction of Sewing Demonstration of Bobbin Winding & Threading
2	**Construction Basics** a) Temporary Stitches Even Basting, Un Even Basting, Slip Basting, Upright Basting, Tailor's Tack b) Permanent Stitches Running Stitch, Hemming, Over Casting, Whipping Stitch, Button whole Stitch c) Decorative Seams & Seam Finishes, Plain Seam, Top Stitched Seam (One Side & Two Side), French Seam, Mandra Maker's Seam, Flat Felt Seam, Tapes. d) Types Of Seam Finishes Edge Stitched Finish, Pinked Finish, Over Cast Finish, Herring Bone Finish, Bias Bound Seam Finish, Shoulder Pad	10	12	A)Demonstration of following Stitches a) Temporary Stitches b) Permanent Stitches B) Types of Seams & Seam Finishes (Given in Theory)
3.	**Shaping Devices & Introduction to Fullness** a) Explanation of Darts & Dart Finishes, Single Point Darts, French Dart or Fish Dart. b) Explanations of Tucks Pin Tucks, Square Tuck, Graduated Tucks, Released Tucks, Wide Tucks. c) Explanation of Pleats Knife-Pleats or Side Pleats, Box Pleats.	10	12	a) Working of Shaping Devices-Darts, Tucks. b) Working of Fullness - Pleats, Shirring, Ruffles (Given above in Theory.)

	d) Explanation of Gathers, Shirring, Ruffles.			
4.	**Openings & Fasteners** a) Introduction to Openings & Fasteners b) Zip Fasteners c) One Piece Opening d) Two Piece Opening e) Faced Slash Opening f) Velcro & Wadding g)Introduction to different types of Trimming h)Explanation Of Facings & Interfacings i) Explanation of Lining & Interlining.	10	12	a) Practice of different types of Openings & Accordingly Selection of Fasteners (given in Theory) b) Methods of Sewing Notions & types of Facings (given in Theory) c) Neck Finishing - Square, Round, V Neck

Note - Problems, Remedies & care of Lock-stitch machine should be covered while doing practical.

Reference Books

Author	Title	Publisher
Agnes war Burton	Dress making pictures	Bats ford London
Anna Jacob Thomas	The art of sewing	New Delhi, UBS
Valerie cock	Dress making simplified	Global Business Press London.
Reader's Digest	Complete guide to sewing	Bats ford London
Jan Eaton Reader's	The Encyclopedia of Sewing Techniques	London Crange Books
Gerry Cooklin	Garment Technology for Fashion Designers	Blackwell
Tracy Clarke	The Books of Buttons	D.K. Publisher London

Learning Resources: Chalk, Board, Machines and Tools.

Specification Table

S.N.	Topic	Knowledge	Comprehension	Application	Total
1.	Introduction to Sewing machine	02	01	01	04
2.	Construction Basics	06	04	02	12
3.	Shaping Devices & Introduction to Fullness	06	04	02	12
4.	Openings & Fasteners	06	04	02	12

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1.	Sewing machine Care	Theoretical + Practical treatment
2.	Construction Basic	Theoretical + Practical treatment
3.	Shaping Devices & Introduction to Fullness	Theoretical + Practical treatment
4.	Openings & Fasteners	Theoretical + Practical treatment

Prepared by

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Name of Programme : Dress Designing and Garment Manufacturing
Programme Code : 01/02/03/04/05/06/07/08

Name of Course : Needle Work

Course Code : DD144

Teaching Scheme:

	Hours / Week	Total Hours
Theory	01	16
Term Work/Practical	04	64

Evaluation:

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--	--	--	--
Marks	--	--	50	--	50

Course Aim-

This course provides the knowledge of embellishing the apparel products through basic knowledge of thread network. It explores the art & skills of all stitch families.

Course Objectives- The students will be able to -

- Create own designs and adapt the existing designs as per the stitches.
- Select appropriate materials suitable to work.
- Embroider the basic stitches & incorporate these stitches in design by mix & match method.
- Handle & store embroidered articles.

Course Content-

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
01	**History and Development of Embroidery**	01		Demonstration of each Stitch mentioned in Theory content & preparing Sample.
02	**Tools & Equipments for Embroidery** a) Embroidery tools b)Design tools c)Cutting tools d)Mounting tools e)Miscellaneous tools	01		
03	**Design Development** a) Selection of design	02		

	b) Creating motifs c) Adopting readymade shape d) Color combination e) Translating design into stitches f) Tracing methods.			
04	**Material Selection** Selection of material according for stitches & project.	01		
05	**Introduction to Embroidery** a) Preparing the fabric for embroidery. b) Beginning & ending of work c) Care of fabric while working.	01		
06	**Introduction to Basic Stitch Families** Uses & Needle diagram of following Stitches Group A- Straight Stitch Family- Uses & Needle diagram of following Stitches a) Running Stitch & its Types b) Back Stitch & its Types c) Satin Stitch & its Types d) Holbein Stitch e) Seed Stitch f) Fern Stitch Group B- Looped Family- a) Chain & its Types	08		

	a) Chain & its Types b) Button Hole & its Types c) Feather &its Types Group C- Knotted Family- a) Bullion Knot b) French Knot Group D- Laid & Couched Family- a) Square Laid Work 1&2 b) Basic Couching c) Bokhara Couching Group E- Cross Stitch Family- a) Basic Cross Stitch b) Double Cross Stitch c) Herring Bone Stitch Group F -Composite Family- a) Wheat Ear Stitch b) Whipped Long Tack Daisy c) Spider Web a) Woven b) Whipped			
07	**Handling of Embroidery Article** (Hand Embroidery Article) Washing &Stain Removal, Pressing & Preservation	02		

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1.	History and Development of embroidery	Theoretical treatment
2.	Tools & equipments for embroidery	Theoretical + Practical treatment
3.	Design Development	Theoretical + Practical treatment
4.	Material selection	Theoretical + Practical treatment
5	Introduction to embroidery	Theoretical + Practical treatment
6	Introduction to basic stitch families	Theoretical + Practical treatment
7	Handling of embroidery article	Theoretical treatment

Reference Books

Author	Title	Publisher
Anne Williams	Bats ford embroidery course	London Blackwell
Reader's digest.	Complete Guide to Needle Work Reader's digest.	Reader's Digest.
Khan M. j.	Indian Embroidery	Super Book House
Amanda o'neill	Needle Work & Sewing Technique (The complete Encyclopedia of embroidery)	London, Crange Books

Learning Resources- Magazines, Embroidery equipments, Embroidery articles.

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Name of Programme : Dress Designing and Garment Manufacturing

Programme Code : 01/02/03/04/05/06/07/08

Name of Course : Elements of Drawing

Course Code : DD145

Teaching Scheme-

	Hours / Week	Total Hours
Theory	01	16
Term Work/Practical	06	96

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--			
Marks	--	--	50	--	50

Course Aim-

This course provides foundation for drawing, which enables the students to develop skills of illustration. Students can better organize and communicate the idea through language of drawing & color schemes. It develops proper execution of details of human body to make illustration successful.

Course Objectives- The students will be able to-

- Achieve knowledge of media and material of drawing.
- Draw objects using guideline.
- Draw human figure including facial features.

Course Content-

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
1	**Introduction to Drawing Material** Dry material, Wet material, Types of paper.	01		**Introduction to Drawing Material** Dry material, Wet material, Types of paper.
2	**Basics of Drawing** A) Use of Lines as guidelines for basic drawing. B) Expression of different lines. C)Use of Lines for different Shading techniques. a) Hatching b) Smudging c) Stripling d) Scrambling.	02		**Basics of Drawing** a) Elements of drawing Lines b) Types of Lines c) Composition of Line in relation with forms d) Lines with different Leads e) Use of Lines for different Shading techniques.

				a) Hatching b) Smudging c) Stripling d) Scrambling.
3	**Forms and Shapes** a) Defining basic Forms with Value. b) Points to be consider while constructing 2D & 3D Forms. c) Creating illusion of Distance & Depth using different Light Sources.	03		**Forms and Shapes** a) Introduction to Form and Shape b) Rendering of Form in different angles with Light Source c) Constructing 3-D Forms d) Creating Illusion of Distance and Depth.
4	**Introduction to Facial Features** a) Eyes, nose, lips. b)Construct Face from different dimensions. c)Guidelines for drawing body parts Arm, Hands, Legs, Foot	04		**Blocking in Face and Facial Features** a) Basic blocking of Eyes, Lips, Nose b)Constructing Face dimension Front, Oblique view. c)Face with different Hairstyle d) Basic Blocking of Arms and Hands
5	**Drawing from Life** a) Eight Head Theory b)Growth & Development of Human Figure	06		**Drawing from Life** a) Eight Head theory, Ten Head croqui, b)Mechanical Croqui, Fleshing of Croqui c) Growth & Development of Human Figure
6				**Elements of Costume** Library formation of Necklines, Collars, Skirts, Sleeves, Jackets, Drapes & fashion details.

Reference Books

Author	Title	Publisher
Patric John Ireland	Fashion Design Illustration	Om Books International
Bill Martine	Joy Of Drawing	Tmhny
Allen Anne	Fashion Drawing	Om Books International
Patric John Ireland	Fashion Design Drawing & Presentation	B.T. Batsford London

Learning Resources- Color media, Charts, OHP, Magazines, and Sketch Book.

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1.	Introduction to Drawing Material	Theoretical+ Practical treatment
2.	Use of lines for Different Shading Techniques.	Theoretical + Practical treatment
3.	Forms and Shapes	Theoretical + Practical treatment
4.	Introduction to Facial Features	Theoretical + Practical treatment
5.	Drawing from Life	Theoretical + Practical treatment
6	Elements of Costume	Practical treatment

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Name of Programme - Diploma in CE/EE/ET/ME/MT/CM/IT

Programme Code - 01/02/03/04/05/06/07

Name of Course - Communication Skills

Course Code - HU 141

Teaching Scheme :

	Credits	Hrs /Week	Total Hrs
Theory	03	03	48
Term Work /Practical	02	02	32
Total	05	05	80

Evaluation:

	Progressive Assessment	Semester End Examination			
		Theory	Practical	Oral	Term work
Duration	Two class tests of 60 minutes duration + Oral 1 (Compulsory)	180 minutes	---	---	Submission only
Marks	20	80	---	---	---

Course Aim:

Classified under human sciences this subject is intended to introduce students with the process of communication so that they can identify conditions favorable to effective communication. They will also be taught basic & applied language skills viz. listening, speaking, reading & writing – all useful for the study of a technical course & communication. Specifically, writing & oral presentation skills are two top ranking capabilities needed for professional careers & must be developed systematically.

Course Objectives :

At the end of the course, students will be able to –

1. Identify & analyse communication events.
2. Recognize the type of communication.
3. Know communication barriers & the methods to overcome them.
4. Know principles of effective communication & use them in day-to –day situations.
5. Listen attentively & understand speeches.
6. Pronounce given words correctly.
7. Ask questions based on the speech.
8. Reply to questions based on the speech.
9. Read & comprehend the meaning of the given text.
10. Identify the topic sentences.
11. Guess meaning of unknown words.
12. Read to gist of texts (Skimming).
13. Locate specific information quickly(scanning)
14. Discover the information structure & draw diagrams indicating the information structure.
15. Lable given diagrams based on the text.
16. Write summary of the given text.
17. Know basic grammatical concepts & make correct usage of them.
18. Develop skills of writing business letters & office drafting.

5.0 5.1	**Non-verbal & Graphic Communication** Nonverbal Codes: Kinesics (eye- contact, gestures, Postures, body movements & facial expressions) Proxemics (using space), Haptics (touch), Vocalics (aspects of speech like tone, emphasis, volume, pauses etc.) Physical Appearance, Chronemics (manipulating time), Silence . Using visuals like tables charts & graphs	
	UNIT – II (Periods : 18, Marks – 20)	
6.0	**LANGUAGE GRAMMAR**	**2.0 Grammar Skill Practice**
	Grammar & Usage	2.1 Identifying Units Grammar
6.1 6.2	The sentence elements : words, phrases, clauses	2.2 Constructing Effective Sentences
6.3 6.4 6.5 6.6	Phrase Structure & clause structure : Constructing correct & effective sentences Transformation of sentences. Direct/ Indirect Speech Punctuation	2.3 Transforming Sentences
	UNIT – III (Periods- 08, Marks – 20)	
7.0	**READING SKILLS**	**3.0 Reading Skill Practice**
7.1	**Reading & Study Skills**	3.1 Using a Dictionary
7.2	What is Reading?	3.2 Drawing Information structure of Texts
7.3	Types of Reading: Extensive Reading & Intensive Reading	3.3 Summarizing Techniques
7.4	Techniques of Reading: Skimming, Scanning, Glossing, Questioning, Mapping Learning new words through reading: Print Clues (Punctuation & Graphics) context clues word analysis, use of dictionary.	
7.5	Reading for Comprehension: Distinguishing General & Specific Sentences, differentiating Facts & Opinions, identifying topic sentences & Controlling Ideas, Predicting & relating	
7.6	supporting details; Reading for Understanding & Study : Understanding the context & Purpose, asking right questions: Note Making: Glosses & Maps, recognizing the Information Structure, recognizing patterns of organizations abstracting, summarizing & paraphrasing	

Reference Books

Author	Title	Publisher
V.R. Narayanswami	Strengthen your writing	Orient Longman Ltd.
Champa Tikko & Jaya Sasikumar	Writing with purpose	Oxford University Press
Sarah Freeman	Written Communication in English	Orient Longman Ltd.
Wren & Martin	High School English Grammar & Composition	S. Ch& & Co. Ltd.
David Green	Contemporary English Grammar Structures & Composition	Macmillan Co.
Krishna Mohan & Meera Banerji	Developing Communication Skills	Macmillan India Ltd.
R.C. Sharma & Krishna Mohan	Business Correspondence & Report Writing	Tata McGraw Hill Publishing
Krishna Mohan & Meenakshi Raman	Effective English Communication	Tata McGraw Hill Publishing Co.Ltd.

Specification Table –

Sr.No.	Topic	Cognitive Levels			Total
		Knowledge	Comprehension	Application	
1.	Basic concepts & principles of communication	05	05	05	15
2.	Language grammar	-	-	20	20
3	Reading skills	-	20	-	20
4	Written communication	-	-	25	25
5	Oral Skills	-	-	-	-
	Total	05	25	50	80

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Level-II

Core Technology Courses

(All compulsory)

Course Code	Course Title
DD241	Elements of Textile
DD242	Garment Making
DD243	Indian Costume
DD244	Traditional Textiles of India
DD245	Fabric Ornamentation
DD246	Fashion Drawing
CM241	Computer Fundamentals

Name of Programme : **Dress Designing and Garment Manufacturing**

Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Elements of Textile**

Course Code : **DD241**

Teaching Scheme

	Hours / Week	Total Hours
Theory	04	64
Term Work/Practical	00	--

Evaluation

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	Three class test of 60 Min. duration	2 hrs.	--	--	--
Marks	10	40	--		--

Course Aim:-

The course provides basic knowledge of the process of production of fiber to yarn to fabric &their finishes & characteristics. The course delivers all basic information in the selection of textile fabric suitable for designing garments as well as the fabric construction process through various ways as weaving, knitting & felting. This course introduces students with various finishing & printing techniques.

Course Objectives- The students will be able to-

- Identify different types & weaves of garment.
- Have the concept of manufacturing of different fibers and weaving on different types of looms
- Achieve the knowledge of physical and chemical properties of textile material.

Course Content-

Sr. No	Topic/Subtopic	Hours	Weight age	Practical
01	Introduction and classification of Textile Fibers A) Natural Fibers a) Vegetable Fibers Cotton, Linen b) Manufacturing process of Cotton & Linen. c)Study of Structure, Physical and Chemical Properties d) Burning Tests B) Animal Fibers- Silk, Wool	10	08	

	a) Manufacturing process of Silk& Wool. b)Study of Structure, Physical and Chemical properties c) Burning test			
02	**Introduction and Classification of Manmade or Artificial Fibers** A) Man made Fiber- Thermo plastics fibers-Nylon. a) Manufacturing process of Nylon. b) Study of structure, c) Physical and Chemical properties d) Burning test B) Non-Thermoplastic fiber-Rayon a) Manufacturing process of Rayon Study of Structure, Physical and Chemical properties b) Burning test C) Mineral Fibers –Asbestos & Glass a)Manufacturing process of Mineral Fibers b) Physical and Chemical properties	10	06	
03	**Yarn Formation** A) Definition & types of Yarns. B)Type of Yarn and its Characteristics a) Simple Yarn – 2 ply, 4 ply Multiple and Cable. b) Novelty Yarn – Single, Coral, Spiral, knot, Chenille, Gimpy, Slub etc. c) Blending of Yarn B) Twisting of Yarn according to direction i.e. S & Z Twist a) According to number of Twist per Inch b) Low twist, hard twist and crape twist c) Testing of Yarn- a) Qualitative Testing	10	08	

	b) Quantitative Testing			
04	**Fabric Construction** A)Introduction to Looms a) Origin of Loom b) Types of Loom c) Description d) Principle Parts of Operation B) a) Definition of Weaving, Knitting and Felting b) Description about Weaves used in Fabric Construction, Plain, Twill, Satin, Sateen, Honey Comb, Bird's Eye, Leno Huckaback and Herring Bone. c) Knit fabrics, Basic knits, Weft knits, and Warp knit d) Non Woven fabrics e) Width, Balance and Count of cloth Note -Visit to Textile Mill	20	10	
05	**Textile Printing** a) Roller printing b) Direct printing c) Discharge printing d) Duplex printing	04	04	
06	**Finishes** Finishing process, Textural process or performance Finishes Bleaches.	10	04	

Note- prepare Samples of different Weaves by using Hand Loom.

Reference Books

Author	Title	Publisher
Bernard P. Carbman	Fiber to Fabric	N.Yoris MGH
Gupta Sushma	Text Book of Clothing & Textile	N.Delhi Kalyani
Gupta Sushma	Clothing Textiles & Laundry	
Theodora Failola Priest	Guide to Clothing	
Susheela Dantyagi	Fundamental Of Textile & Their Care	Hydrabad orient longmar
Susheela Dantyagi	Fundamentals of Textiles and their Care	Hydrabad orient longmar
Meller Susan	Textile Design	Focal press N.Y.
Durga Deulkar	House Textiles	

Learning Resources- Chalk, Board, Books, Charts, Photographs, Swatches etc.

Specification Table-

S.N	Topic	Knowledge	Comprehension	Application	Total
1.	Introduction and classification of Natural fibers	04	02	02	08
2.	Introduction and classification of manmade or artificial fibers	06	01	01	08
3.	Yarn formation	02	02	02	06
4.	Fabric construction	06	02	02	10
5	Textile Printing	02	01	01	04
6	Finishes	02	01	01	04

Instructional Strategy-

Sr. No	Topic	Instructional Strategy
1.	Introduction and Classification of Natural fibers	Theoretical treatment
2.	Introduction and Classification of Manmade or Artificial Fibers	Theoretical treatment
3.	Yarn Formation	Theoretical treatment
4.	Fabric Construction	Theoretical treatment
5	Textile Printing	Theoretical treatment
6	Finishes	Theoretical treatment

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Name of Programme : **Dress Designing and Garment Manufacturing**
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Garment Making**

Course Code : **DD242**

Teaching Scheme:

	Hours / Week	Total Hours
Theory	02	32
Term Work/Practical	08	128

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--	--	--	--
Marks	--	--	100	--	100

Course Aim -

This course provides construction of basic garment by using various sewing techniques & incorporates different seams and sewing techniques in garment. It gives knowledge of economical lays, stitching procedures & also to take measurements directly and indirectly and solve fitting problems.

Course Objective- The student will be able to-

- To take body measurement directly & indirectly.
- Construct basic garments stepwise.
- Learn economical cutting.
- Incorporate different seams and finishing techniques in various garments.

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
1	**Dress Block**	05		Lay-out (Estimation) is required of following patterns (Any One) a) A-line dress with fish dart b) Panjabi Kameez
2	**Princess Line** a) Armhole Princess line- Fitted b) Shoulder Princess line - Semi Fitted	06		Any one form the following- a) Armhole princess line- Fitted b)Shoulder Princess line- Semi Fitted
3	**Salwar** a) Basic Salwar b) Chudidar c) Patiyala / Dhoti	06		(Any Two) a) Basic Salwar b) Chudidar- Bias Bag , Bias grain Layout c) Patiyala / Dhoti
4	**Introduction to Children's Block** a) Bodice Black b) Skirt Block c) Sleeve Block d) Classic Waisted Dress (Girls) (Puff Sleeves, Petterpan Collar)	07		Classic Waisted Dress (Girls) (Puff Sleeves, Petterpan Collar)
5	**Basic Skirt**	02		Basic Skirt
6	**Flanges** a) Dart Flange b) Flange to Waist c) Flange Inset	06		**Introductions to Advanced Dart Manipulation** a) Parallel Dart b) Parallel French Dart c) Parallel Dart at Neck d) Parallel Dart-Cape effect. e) Dart Clusters-Waist Cluster f) Bust Cluster g) Pleat Cluster h) Shoulder Cluster i) Graduated & Radiating Darts j) Asymmetric Darts k) Intersecting Darts l) Shoulder Dart

Note: - Layout of all above Patterns on Overall Print, Directional Print, Stripe Fabric.

Reference Books

Author	Title	Publisher
Anna Jacob Thomas	The art of sewing	N.Delhi UBS
Donovan Hadley	Basic Tailoring	
Winifred Aldrich	Metric Pattern Cutting	Annces Puls London
Mullick Premlata	Garment Construction skills	Kallyani

Learning Resources - Machines, Size Charts, Dress Forms, and Books etc.

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1.	Dress Block	Theoretical+ Practical treatment
2.	Princess Line	Theoretical+ Practical treatment
3.	Salwar	Theoretical+ Practical treatment
4.	Introduction to Children's Block	Theoretical+ Practical treatment
5	Basic Skirt	Theoretical+ Practical treatment
6.	Flanges	Theoretical
7.	Introductions to Advanced Dart Manipulation	Practical treatment

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Name of Programme : **Dress Designing and Garment Manufacturing**
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Indian Costume**

Course Code : **DD243**

Teaching Scheme-

	Hours / Week	Total Hours
Theory	03	48
Term Work/Practical	00	--

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	Three class test of 60 Min. duration	2 hrs.	--	--	--
Marks	10	40	--	--	--

Course Aim-

This course provides the knowledge of evolution of Indian costumes, which simply gloss over those early periods & the traditional customs of different states with the diversified traditional Indian ornaments.

Course Objective - The student will be able to-

- Study of Indian costumes through ages & regions.
- Create contemporary versions based on traditional costumes.
- Understand the drapes of different states.
- Gain knowledge of the rich & culture heritage of people in India.

Sr. No	Topic/Subtopic	Hours	Weight age	Practical
1	**Introduction to Clothing** a) Purpose of Clothing b) History of Indian Costume during British period & After. c) History during the era of Sultan & Mughal Emperors.	08	06	
2	**Study of Indian Costume through different States & Region** **Southern Region**. (A) Maharashtra a) Maharashtra Sari Drape Sakachcha Nesana & Choli. Dhoti, Sadra, Ganjipharak, Bandi, Pheta. b) Ornaments c) Tribal Costumes B) Tamilnadu Wearing of Dhoti (Panchagachcham, Ttrikachcham), Komanam (Langoti), Angavastram, kamarband , Marapu b) Wearing style of Sari of Tamili Bramhin women – Godakattu **C)Karnataka** Dhotra ,Panche, Jubba, shlya or Angavastra, Pheta, Kuppasa, Kachcha, Wearing style of Sari –kurgi women	10	08	
3	**Northern Region** A)Kashmir a) The General Garment worn By Men &Women. Pehran,Salwar, Chadar ,Skull -Cap etc.	10	08	

	b)Ornaments c) Tribal Costume **(B) Punjab :** a) Study of Dressing of Rural Men, Urban Men & Rural Women, Urban Women. Khes, Tehmed , Kurta , Pajama ,Salwar Kameez, Orhani, Churidar, Ghagra, Kurti, Turban b) a) Study of Draping of Dupatta Urban & Rural Women b) Ornaments. c) Tribal Costume			
4	**Western Region** A) Gujrat a) Study of Men's Costume. Dhotiya / Badana Potadi / Paheran / Jabboh Paghadi. b) Study of Women's Costume. Chaniya – Choli, Orhani, Kanchali c) Difference in the dress of people of Kutch & Saurashtra. d) Ornaments. e) Tribal Costume B) Rajasthan a) Costume of Men as worn by the Royalty as well as the Common Men. Dhoti, Bandia – Angarkha , Potia, Achakan, Jodhpur- Breeches, Picharanga Pagadi , Kamarband. b) Costume of Women- Ghagra Choli, Orhani c) Ornaments.	10	10	

	d) Tribal Costume			
5	**Eastern Region** Assam a) Study of the Mekhala b) Himachal Pradesh Kurta, Sadri, Jurkhi, Suthan, Gachi,Bushari cap c) Sikkim Daura, Surwal, Ash-Coat, Dhaka Topi, Patuka,Khukuri, Chaubandhicholi, Fariya, Henbari Men- Fo-kho, kerak, Kho, Jaja, Thurishamba, Shotsimo-kho, Pangden, Kerak,Hanju. d)Meghalaya- Jainsem, Tapmohkhlieh, Jaincup e) Bengal- wearing style of Sari b) Dhoti, Kurta	10	08	

Note - state wise Presentation & Display of above mentioned Costumes.

Reference Books

Author	Title	Publisher
A Biswas	Indian Costumes	
Franess Kermit.	World Dress	Mitenett Beaziet
Gorsline Douglas	History of fashion	Worth London

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1.	Introduction to Clothing.	Theoretical treatment
2.	Southern Region	Theoretical treatment
3.	Northern Region	Theoretical treatment
4.	Western Region	Theoretical treatment
5.	Eastern Region	Theoretical treatment

Specification Table

S.N	Topic	Knowledge	Comprehension	Application	Total
1.	Introduction to Clothing	02	02	02	06
2.	Region Southern Region	03	03	02	08
3.	Northern Region	03	03	02	08
4	Western Region	04	03	03	10
5	Eastern Region	03	03	02	08

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Name of Programme : Dress Designing and Garment Manufacturing

Programme Code : 01/02/03/04/05/06/07/08

Name of Course : Traditional Textiles of India

Course Code : DD244

Teaching Scheme-

	Hours / Week	Total Hours
Theory	03	48
Term Work/Practical	00	--

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	Three class test of 60 Mins. Duration	2 hrs	--	--	--
Marks	10	40	--	--	--

Course Aim-

This course provides the knowledge & resources of traditional textiles in India that differ from region to region. This influences designers to use these textiles prominently.

Course Objective- The student will able to -

- Develop Knowledge about various Traditional Textiles of India.
- Identify different traditional color & its symbolism, which played a major role in the development of traditional textiles.
- Design contemporary versions by getting knowledge of various traditional textiles of India to produce fascinating designs.

Sr. No	Topic/Subtopic	Hours	Weight age	Practical
1	**The Western Deccan** A) Maharshtra a) Deccan Sari b) Shallu Sari c) Paithani Sari d) Parsi Sari e) Khan f) Himaroo Shawls g) Himrus	06	06	
2	**The Western Region** A) Rajsthan a) Hand Block Printed Sari b) Nandana c) Bandhej d) The Lehriya e) Samdar Lehar f) Palujipar B)Gujrat a) Mochi Embroidery b) Mata-ni- Pachedi c)Patan Patola d) Roghan work e) Tinsal Sari f) Gujrati Brocades g) Maheshwari Sari	08	08	
3	**The Eastern Region** A) Bengal a) Bengali Deshi Muslin b) Dacca Muslins c) Jamdani Muslins d) Bengali Sari e) Baluchari – Buttedar Sari	08	06	

	f) Sujni Kantha. B) Bihar a) Tasar Silk Sari b) Khadi – Sari c) Banaras Brocades			
4	**The North East Region** A) Assam a) Muga Golden Silks b) Asonai Designs or Tribal Designs of Assams. B) Manipur a) Wild Silk Sari C) Orissa a) Double Ikat Sari b) Pochampalli Ikat c) Batik & Kalamkari Sari d) Gadwal Sari	08	06	
5	**The South Region** A) Tamilnadu a) kornad Sari b)Kosara Padava c) Kuchipuram Sari d) Kora Silk. B) Karnatka a) Karnatka Saris etc. C)Andhra Pardesh a) Banjara Wedding Shawl.	08	06	
6	**The North Region** A)Jammu & Kashmir a) Kashmiri Shawl b) Jamawar Shawls. B) Punjab - Phulkari C) Uttar Pradesh a) Varanasi Brocades Sari	10	08	

	b) Silver Brocades c) Chikankari. d) Himachal Pradesh e) Raslila on Chamba Rumal			

Reference Books

Author	Title	Publisher
Linda Lyntan	The Sari	
Sumathi G.J.	Elements of Fashion & Apparel Design	
Rustam J. Mehta	Masterpieces of India Textiles	Bombay Tara pore Vala
Prakash. K.	Textile Designs Traditional & Floral	Distributors Pvt. Ltd.
Gillow John	Traditional Indian Textiles	Thames Singapore
Singh	Madhyapradesh saris of India	Hang Choke Bombay

Learning Resources- Books, Samples of Traditional Textile Material, and Saris etc.

Specification Table

S.N.	Topic	Knowledge	Comprehension	Application	Total
1	The Western Deccan	02	01	03	06
2	The Western Region	03	02	03	08
3	The eastern Region	02	01	03	06
4	The North East Region	02	01	03	06
5	The South Region	02	01	03	06
6	The North Region	03	02	03	08

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1.	The Western Deccan	Theoretical treatment
2.	The Western Region	Theoretical treatment
3.	The Eastern Region	Theoretical treatment
4	The North East Region	Theoretical treatment
5	The South Region	Theoretical treatment
6	The North Region	Theoretical treatment

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Name of Programme : **Dress Designing and Garment Manufacturing**
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Fabric Ornamentation**

Course Code : **DD245**

Teaching Scheme-

	Hours / Week	Total Hours
Theory	02	32
Term Work/Practical	04	64

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--	--	--	--
Marks	--	--	100	--	50

Course Aim-

The course explores the knowledge in rapidly growing field of arts and crafts, which embraces various methods of ornamentation of a woven fabric. Each chapter in the course deals with various techniques, which presents different method of applying a design or pattern to a piece of cloth.

Course objective- Student will be able to-

- Learn the ancient art of surface adornment and incorporate functional elements in strengthening and repairing fabric by patchwork, quilting and appliqué.
- Make attractive and delicate hems using latest and fancy trimmings such as crochet.
- Know how to develop fabric texture through smocking.
- Make use of various techniques to prepare articles by using techniques like macramé, crochet, quilting etc.
- Adorn garments with the techniques of dying & printing.

Course Content-

Sr. No	Topic/Subtopic	Hours	Weight age	Practical
1	A) **Patch-work** a) History of patch-work b) Patch-work basics c)Types of patch-work d)Fabrics and equipments, designing patch-work e)Influence of color on patch-work	05		**Patchwork** a) Making different types of Patchwork b)Making Templates, Layout c) Choosing joining sequence d) Using Block unit Patchwork e)Working with Dividers and Borders
2	**A) Appliqué** a) Sewing appliqué by hand b) Securing appliqué by machine c) Reverse appliqué	04		A) **Appliqué** a)Making Templates b) Cutting Appliqués c) Appliqué by hand d) Appliqué by machine e)Types of Appliqué- Reverse Appliqué (sun blasé appliqué)
3	**Quilting** Basic Hand and Machine Quilting techniques a) Padded Quilting b)Corded Quilts c) Finishing edges	04		**Quilting** a)Tools and supplies b)Types of Quilting Designs c) Quilting by Hand & by Machine d)Quilting techniques- Tying a Quilting e) Padded Quilting f) Corded Quilting g) Finishing edges
4	**Smocking** Working of Smocking using various Smocking stitches	03		**Smocking** a) Types of Smocking b) Different Smocking stitches

5	**Introduction to Dyes** A) Tie & Dye a) History of Tie & Dye b) Introduction to Dyes c) Types of Dyes d) Preparation of Dyeing e) Different methods of Tying , Dyeing (Single, Double & Triple color) B) Batik a) History of Batik b) Materials required c) Preparation before Dying d) Dyeing Procedure (Single, Double & Triple Color)	08		Preparing samples of Tie & Dye & Batik
6	**Crochet** A)Tools and Supplies B) Crochet Basics a)Crochet Terminology b)Basic Crochet Rules, Turning Chain c)Different Crochet Stitches d)Shaping-Increasing, Decreasing e) Irish Crochet	05		**Crochet** a) Forming Elementary Stitches- Chain, Turning Chains b)Single Crochet, Half Double Crochet, Slip Stitch c) Working Geometrical Shapes like, Circle, Square, Octagon etc. d)Preparing Motives and Laces
7	**Macramé** a)History of Macramé b)Terms & Abbreviations c)Larks Head Knot d)Double Half Stitch e)Shaping with Double Half Stitch	03		**Macramé** a)Larks Head Knot b) Double Half Stitch c) Shaping with Double Half Stitch d) Square Knot e)Gathering Square Knot f)Josephine knot g)Adding Beads h)Fringing

Note - preparing Article by using any one of above Technique.
Workshop on screen printing to be arranged.

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1.	Patch-work	Theoretical+ Practical treatment
2.	Appliqué	Theoretical+ Practical treatment
3.	Quilting	Theoretical+ Practical treatment
4	Smocking	Theoretical+ Practical treatment
5	Introduction to Dyes	Theoretical+ Practical treatment
6.	Crochet	Theoretical+ Practical treatment
7.	Macramé	Theoretical+ Practical treatment

Reference Books

Author	Title	Publisher
	Complete Guide to Needle Work	Readers Digest
McCalls	McCalls Nddle Work Treasury learn & Make book	Random House
Amanda O' Neil	Needle Work & Sewing Technique (The Complete Encyclopedia)	London Crange Bokks
Georges A.S.	Patchwork, quilting & Appliqué	
Singer	Quilted Project & Garment	Singer
Rsall Cavendih	Stitch by Stitch	N.Y.Torstar Books
Dittrick Mark	Design Crochet	N. York Hawthon
Roojen	Batik design	
K Prakash	Patchwork & Appliqué	
Corwin Judith Hopmqn	Easy to make Appliqué Quilts for Children	
Dawason Pam	Complete Guide to Crochet	London Marshall
Shenai	Technology of Dying	Ambedkar Road Bombay

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Name of Programme : Dress Designing and Garment Manufacturing
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : Fashion Drawing

Course Code : DD246

Teaching Scheme-

	Hours / Week	Total Hours
Theory	01	16
Term Work/Practical	04	64

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--	--	--	--
Marks	--	--	50	--	50

Course Aim-

This course provides designing ideas & a base to explore innovative ideas, creative sense through the elements and principles of designing .It develops in -sight for textile designing through various textile print families & types of repeats.
It also provides glamorize elongation of proportion, which will serve as a guide when designing & positioning relative details.

Course Objective- The student will able to-

- Implement the knowledge of elements & principles of design.
- Render different textile prints.
- Draw Silhouette using guide line.
- Sketch body details in stylized and realistic ways.
- Draw a human body proportionately with the help of proper aid of measuring i.e. multiples of head length.

Course Content

Sr. No	Topic/Subtopic	Hours	Weight age	Practical
01	**Elements of Design** Line ,Form, Color, Texture & Shape	02		**Elements of Design** Line ,Form, Color, Texture & Shape
02	**Colors** a) Defining Chrome, Hue & Intensity, b) Color wheel- Cool and Warm Colors etc. c) Color Schemes d) Moods of Colors	04		**Colors** a)Primary Colors b)Secondary colors c)Color wheel d)Tertiary e)Quaternary Color schemes g)value scale of Primary Colors
03	A) **Textile prints** a) Floral b) Geometrical c) Conversational d) Ethnic e) Abstract etc. B) **Repeat** Types of Repeat a) Drop Repeat b) Brick Repeat c) Triangle Repeat d) Diamond Repeat e) Cross Repeat f) Allover etc.	02		**Fabric presentation** A) Textile prints a) Floral b) Geometrical c) Conversational d) Ethnic e) Abstract etc. f) swatch Rendering g) Repeat: Types of repeat Drop, Brick, Triangle, Diamond, Cross, Allover etc. B) Textures –Emboss, Self Print, Rough, Crape, Satin, Silk, Quilt, Net, Fur, Patchwork, Embroidery, corduroy, Velvet, Leopard etc.
04	**Principles of Design** Proportion, Balance, Rhythm, Harmony & Emphasis.	03		**Principles of Design** Proportion, Balance, Rhythm, Harmony & Emphasize.
05	**Human Anatomy** A)Difference between Human figure & Fashion figure B) Balance in figure	03		**Human Anatomy** a)Weight distribution b)Fashion figure c) Balance in figure

06	**Silhouette** a) Hourglass b) Triangular c) Rectangular d) Ample e) Egg line etc.	02		**Silhouette** Detailing of features a) Hourglass b) Rectangular c) Triangular d) Ample e) Egg line etc.

Reference Books

Author	Title	Publisher
Kojiro Kuma Gai	Fashion Illustration	Japan Cnophic
Anne Allen, Julian Seaman	Fashion Drawing	Om Book
Odaniel G.	Hand Book of Costume Drawing	Elesevier Inda pvt. Ltd., N.Delhi
Patrick john Ireland	Fashion Design Illustration	Thomas Hudson London
Drake.H	Fashion Illustration Today	Edgalgotia & Sons.
Patrick John Ireland	Fashion Designing Drawing & Presentation	A Pergie
Mckel	Illustration Fashion	Blackwell
Suzan Meller& Joost Elffers	Textile designs	

Learning Resources- Chalk, Board, Books, Charts, Photographs, Swatches, Colors, Sketch Book, etc.

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1.	Elements of Design	Theoretical+ Practical treatment
2.	Colors	Theoretical+ Practical treatment
3.	Textile Prints	Theoretical+ Practical treatment
4.	Principles of Designing	Theoretical+ Practical treatment
5	Human Anatomy	Theoretical+ Practical treatment
6	Silhouette	Theoretical+ Practical treatment

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Name of Programme : **CE**/EE/ET/ME/MT

Programme Code : **01**/02/03/04/05

Name of Course : **Computer Fundamentals**

Course code : **CM241**

Teaching Scheme:

	Hours/Week	Total Hours
Theory	02	32
Term Work/Practical	02	32

Evaluation:

	Progressive Assignment	Semester End Examination			
		Theory	Practical	Oral	Term work
Duration	**Three class tests of 60Min. duration**	--	--	--	--
Marks	20	--	50	50	25

Course Aim:

In the present situation as a Diploma Engineer, it is necessary to have knowledge of Computer and its latest developments. This course gives the basic knowledge about computers and its operation.

Course Objectives:

After studying the course students will be able to

- Demonstrate the use of Keyboard, Printer, mouse and other Peripheral Devices.
- Connect peripheral devices to main motherboard.
- Identify Input and Output devices.
- Understand working of computer.
- Create a document in WORD.
- Draw sketches in EXCEL.
- Use window environment facilities.
- Use internal applications

Course content:

Sr. No.	Topic/Subtopic	Hours	Weightage	Practical
1.	**Your Future & Computer Competency :** Information systems – Five parts in an information system – people procedures, software, hardware and system software. Found kinds of computer – microcomputer, main frame, and supercomputer. Hardware devices for input, processing, storage, output and communications.	03	04	All about computer Block diagram, showing parts
2.	**Application Software :** General purpose Applications, Software and their uses – Word Processors, Spreadsheets, Database Management Systems, Presentation Graphics, Software Suites, Integrated Packages, Indian Language Pack based on Unicode (Marathi), Lotus Smart Suite. Features common to most types of software.	12	12	Any 3 expts. Based on 1) MS Word-3 Practical assignment 2) MS Exel 3) Power point 4)Access-2
3.	**Browsers, Information, Managers, Operating System and Utilities:** Browsers, Personal information managers, Out look express, calendar, System Software, Operating Systems, Utilities. Use of Browser for navigation, to find information & communication. Functionally of personal Information Managers & their use. For kinds of systems software. Use of most widely used microcomputer operating systems.	03	04	Browsers – Internet Explorer.
4.	**The System Unit :** Electronic Data and	03	02	Home assignment, Block diagram.

	Instructions, System Board, Microprocessor, Memory, System Clock, Expansion, Slots and Cards, Bus Lines, Ports and Cables, Use of Binary codes to represent data in electrical form by computer Major system unit by components. Difference among the three types of memory. Three principle types of bus lines. Five types of ports.			
5.	**Input and Output :** Input keyboard versus Direct Entry, Output, Monitors, Printers, Plotters, and Voice-Output devices. Difference between keyboard and direct entry input devices. Features of keyboards and the four types of terminals. Direct-entry devices used with microcomputers. Voice recognition systems. Monitors and its standards. Printers (ink-jet, laser, thermal) and plotters (pen, ink-jet, electrostatic, and direct-imaging.) Voice-output devices.	**04**	**04**	Install printer, Scanner, drivers.
6.	**Secondary Storage** : Floppy Disk, Hard Disk, CD-ROM Optical disks, Today's standard floppy disk and its comparison with Zip, Super Disks, and HIFD disks. Internal hard disks, hard-disk cartridges, and hard-disk packs. Improvement in hard disk operations:-disk changing, redundant arrays of inexpensive disks, and data compression. Comparison of CD and DVD Different types of optical disks.	**02**	**02**	Copy, Install O.S. in Hard Disk. Method of formatting floppy & installing CD-writer.
7.	**The Internet and Web** : Internet Applications, Access, E-mail, Discussion Groups, Electronic Commerce, Internet	**05**	**04**	Visit site Download pages HTML page, (Internet browser).

	Services, Browsers, and Web Pages, Search Tools, Web Utilities, Organizational Internets Internet providers, connections, and protocols. Use of e-mail, mailing lists, newsgroups, chat groups, and instant messaging. Electronic commerce including web storefronts, auctions, electronic payment. Use of internet services: Telnet, FTP, Gopher, and the web. Use of browsers, Web pages, and Web portals. Comparison between two types of search tools: indexes and search engines. Two types of web utilities: plug-ins and helper applications. Internets, extranets, and firewalls.			

Instructional Strategy:

Sr. No.	Topic	Instructional Strategy
1.	Information Systems, People, Software, Hardware, Data, Connectivity and the Internet	More stress to be given on theory. Explain with example will be better approach.
2.	General purpose Applications, Word Processors, Spreadsheets Database Management Systems, Presentation Graphics, Software Suites, Integrated Packages, Indian Language Package based on Unicode (Marathi), Lotus Smart Suite.	More stress to be given on practical. Explanation.
3.	Browsers, Personal information managers, System Software, Operating systems, Utilities.	More stress to be given on practical. Explanation. Explanation with example will be better approach.
4.	Electronic Data And Instructions, System Board, Microprocessor, Memory, System Clock, Expansion, Slots and Cards, Bus Lines, Ports and Cables.	More stress to be given on practical Explanation.
5.	Input : Keyboard versus Direct Entry, Output, Monitors, Printers, Plotters, Voice-Output Devices.	Practical exercise can be a key to learn fast.
6.	Floppy Disks, Hard Disks, Optical disks, Magnetic tope. Describe today's standard floppy disk &	Practical exercise can be a key to learn fast.

	compare it to Zip, Super Disks, and HiFD disks.	
7.	Internet Applications, Access E-mail, Discussion Groups, Electronic commerce, Internet Services, Browsers, Wed pages, Search Tools, Web Utilities.	More stress to be given on practical Explanation.

Reference Books:

Author	Title	Publisher
Timothy J. O'Leary and Linda I. O'Leary	Computing Essential	TMH Publication
T.K. Sinha	Fundamentals of Computer	BPB
A. Stultz	Learn MS-Office 2000	BPB

Learning Resources : Books, video cassettes, LCD Projector, White-Boards, etc.
Tools for Hands-on-Session:
MS Office 2000 or Open Office or Lotus Smart Suite
MS Windows 98/2000/2000 Server
Microsoft MSN Messenger or Yahoo Messenger
Anti Virus Program
Web Browser (Internet Explorer 505 or higher or Netscape Navigator.

Level-III

Auxiliary Technology Courses

Course Code	Course Title
Part- A	
DD341	Fashion Draping
Part- B (Any one)	
HU341	Community Development
HU342	Ecosystem and Environment
HU343	Non-Conventional Sources of Energy
Part- C (Any one)	
SC343	Advance Physics
CE341	Interior Decoration
CE342	Architectural Design
EE341	Electrification of Building
EE342	Electronics circuits & components
ME341	Two Wheeler Vehicle Maintenance
ME342	Auto CAD
CM341	Fundamentals of Programming using C
ET341	Hobby Electronics
EE344	Electrical Systems in Automobiles
DD342	Graphic Design
Part- E (Any one)	
NC356	Engineering Economics
NC357	Elements of Humanity
NC358	Industrial Psychology

Name of Programme : **Dress Designing and Garment Manufacturing**
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Fashion Draping**

Course Code : **DD341**

Teaching Scheme-

	Hours / Week	Total Hours
Theory	01	16
Term Work/Practical	03	48

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--	--	--	--
Marks	--	--	75	--	50

Course Aim-

This course deals with the basics of draping in order to combine flat pattern making &draping which is ideal way to develop ideas & create new silhouette.

Course objective- Student will be able to-

- Develop ideas & create new silhouette.
- Read & drape the patterns.
- Translate an endless Varity of ideas in to finish garment.

Course Content-

Sr. No	Topic/Subtopic	Hours	Weight age	Practical
01	Basics of Fashion Draping	04		Practice of Basic Fashion Draping
02	Skirts	03		Draping of Skirts
03	Yokes	03		Draping of Yokes
04	cowls	03		Draping of cowls
05	Leg wears	03		Draping of Leg wears

Note - Creative Fashion Draping should be done by students.

(2)

Reference Book

Author	Title	Publisher
Amade	Art of Fashion Draping	Fairchild
Hiddle Jaffe, Nuri Relis	Draping for Fashion Draping	Printice Hall, carrier & Tech.

Learning Resources - Dress forms, Material, Photographs etc.

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1.	Basics of Fashion Draping	Theoretical + practical treatment
2.	Skirts	Theoretical + practical treatment
3	Yokes	Theoretical + practical treatment
4	cowls	Theoretical + practical treatment
5	Leg wear	Theoretical + practical treatment

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Name of Programme : CE/EE/ET/ME/MT/CM/IT

Programme Code : 01/02/03/04/05/06/07

Name of Course : **Community Development**

Course Code : **HU341**

Teaching Scheme:

	Hours/Week	Total Hours
Theory	2	32
Term work / Practical	1	16

Evaluation:

	Progressive Assessment	Semester End Examination			
		Theory	Practical	Oral	Term work
Duration	Three class tests of 60 Min. duration	--	--	--	--
Marks	20	80	--	--	25

Course Aim:

The course has been introduced :

1. To make young Engineers specially aware of the present status of Villages.
2. To motivate them to make improvement in villages when they start their Engineering carrier.

Course Objectives:

After having studied this subject students will be:

1) Able to understand present situation in villages and realize the gravity of the village development.
2) Able to make survey of villages, collect the data, analyse it and identify the are of development.
3) Able to identify the available natural resources and how they can be utilized for betterment of villages.
4) Able to collect the useful information for starting probable new industries in villages.
5) Able to guide villagers in building low cost durable houses taking in to considerations weather conditions of that area.
6) Able to guide villagers for development good habits regarding health and hygiene.
7) Motivated to bring about all round development of villages.

Course Content:

Sr. No	Topic / subtopic	Hours	Weightage	Practical
1.	**Introduction :** Present status of rural and urban community, Necessity of community development, Identifying needs of community, Ways to develop community.	02	06	--
2	**Human Power Development:** Present scenario of Human power in India, Socioeconomic survey to ascertain requirement of human requirements, Methodology for training the human power, Wage employment and self employment, Support from financial institutions for self employment.	05	08	Assignment on manpower development
3	**Appropriate technology and technology transfer :** Technological development of India, Additional needs of community due to technology development, classification of rural industries, Areas of appropriate technology, Use of locally available materials, Methods of transfer of technology, Project reports preparation.	05	12	Assignment on appropriate Technology and technology transfer.
+4	**Industrialization :** Present status of rural traditional industries, Renewal of old industries in villages- i) Manufacturing new commodities such as plastic utensils, nylon ropes, ceramics (ii) Repairing – agricultural implements, tractors, automobiles, electrical or diesel pump sets, domestic appliances (iii) Food processing – Papad, jam, jelly, pickles, preservation, spices, syrups, ketchups (iv)Utilization of waste product – Gobar gas, fuel cake, (v) Construction – Brick clamp, stone quarry, sand supply, crusher. (vi) Miscellaneous – Handlooms, power looms, Ginning mills, Jaggery making (vii) Service Industry – STD/PCO/Net café, (viii) Housing support to industrialization.	07	14	Assignment on renewal of old industries in villages.

5	**Non Conventional Energy Sources :** Availability of energy sources in India, Needs of use of non conventional energy sources. Availability of such sources in India. Various types of non conventional energy sources. Solar energy – Solar water heater and solar cooker, wind energy, wind mill and wind turbines, bio-gas-generation.	07	20	Assignment on Non-conventional energy sources.
6	**Community Services :** Health and Hygiene awareness, Health services, Educating the community for good habits of health and hygiene, Potable drinking water, purifying well water, low cost latrines, drainage system and soak pits, Tree plantation programmes, roads and communications.	04	10	--
7	**Developments :** Programmes for all round development of community, Various government schemes, IRDP – International Rural Development Programme, Active participation of community in development programmes, Motivation for participation.	02	10	--

Instructional Strategy:

Sr. No.	Topic	Instructional Strategy
1.	Introduction	Class rooms teaching
2,	Man power developments	Class rooms teaching, data collection
3.	Appropriate technology & technology transfer	Class rooms teaching
4.	Industrialization	Class rooms teaching
5.	Non-conventional energy sources	Class rooms teaching
6.	Community services	Class rooms teaching
7.	Developments	Class rooms teaching

Text Books:

Sr. No	Author	Title	Publisher
1.	Katav Sing	Rural Development Principles, Policics and management.	
2.	S.P. Sukhatme	Solar Energy	
3.	G.P. Rai	Non-Conventional Sources of	

		Energy	
4.	Debendra K. Das	Dynamics of rural development, perspectives	Deep & Deep Publications Delhi
5.	T.T.T.I. Madras	Environmental Engg.	Tata McGraw Hill Publishing Co. Ltd. New Delhi.

Specification Table:

Sr. No.	Topic / subtopic	Cognitive Levels			Total
		Knowledge	Comprehension	Application	
1	Introduction	02	04	--	06
2	Man-power development	04	04	--	08
3	Appropriate technology & its transfer	04	04	04	12
4	Industrialization	06	04	04	14
5	Non-conventional Energy Sources	08	06	06	20
6	Community Services	06	04	--	10
7	Developments	06	04	--	10
	Total	36	30	14	80

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Name of Programme : CE/EE/ET/ME/MT/CM/IT
Programme Code no : 01/02/03/04/05/06/07
Name of Course : Ecosystems and Environment
Course Code No : HU-342
Teaching Scheme:

Credits	Hours / Week	Total hours
Theory	02	32
Term work / Practical	1	16

Evaluation:

	Progressive Assessment	Semester End Examination			
		Theory	Practical	Oral	Term work
Duration	Three class tests of 60 min. duration.	3 hrs.	---	---	--
Marks	20	80	---	---	25

Course Aim: Protection of the environment concerns all of us since it has direct implication not only on the deterioration of water, air and soil quality but human health as well.
Industries are the major pollutants, creating an imbalance of the ecosystem. Apart from pollution of water, soil and atmosphere, industries are also responsible for slow poisoning leading to various occupational diseases among the workers and surrounding population.

Course Objectives:

- To appreciate the importance of ecosystem, its balance and stability etc.
- To study various food chains and cycles.
- To study man – environment relationships.
- To study sourer, effects and control measures of our pollution noise pollution etc.
- To study working environment conditions its effects and control measurer.

Course content:

Sr. No.	Topic / Subtopic	Hours	Weight-age	Practical
1.	**Ecosystem** Various forms of ecosystem, diversity and stability in ecosystem, ecological indices.	03	08	---
2.	**Energy Flow In Ecosystem** Energy flow in the ecosystem, food chains and tropic levels.	03	08	Assignment on Energy Flow In Ecosystem

3.	**Biochemical Cycle In Ecosystem** Biochemical cyder in the ecosystem, liebings law and limiting factors.	03	08	Assignment on Biochemical Cycle In Ecosystem
4.	**Population** Population of various forms of life in the ecosystem, competition, exclusion, coexistence, prediction and parasitism.	04	08	---
5.	**Pest And Pest Control Measures** Pests and pest control – measures, effects on target and non-target organisms.	03	08	---
6.	**Environment** Man environment relationships, life support system, man's activities and environmental hazards due to biological, physical, psychological and sociological factors.	04	10	---
7.	**Air Pollution** Air pollution – air pollutants, sources, effects of air pollution on man, vegetation and property, air pollution control measures.	02	08	Assignment on Air Pollution
8.	**Noise Pollution** Noise pollution sources of noise, units and measurement, effects of noise on man and animals, control measures.	02	06	Assignment on Noise Pollution
9.	**Vibration** Vibration – sources of vibration, effects of vibration on man, control measures.	02	06	---
10.	**Working Environment** Working environment – sources, effects on workers and control measures in respect of heat, cold and ionizing radiation in a working environment.	06	10	Assignment on Working Environment

Instructional Strategy:

Sr. No.	Topic	Instructional Strategy
1.	Ecosystem	Chalk – board
2.	Energy flow in ecosystem	Chalk – board
3.	Biochemical cycle in ecosystem	Chalk – board, transparencies
4.	Population	Chalk – board
5.	Pest and pest control measures	Chalk – board
6.	Environment	Chalk – board
7.	Air pollution	Chalk – board

8.	Noise pollution	Chalk – board
9.	Vibration	Chalk – board
10.	Working Environment	Chalk – board, visits, charts.

Text Books:

Author	Title	Publisher
1. Qdum	Ecology	
2. Kumar	Ecology	

Reference Books:

Author	Title	Publisher
1. P. Walten Purdom	Environmental Health	
2. Lyle F. Yerges	Sound, noise and vibration control	
3. Perkins	Air pollution	

Learning Resources: Charts, Handouts

Specification Table:

Sr No	Topic	Cognitive levels			Total
		Knowledge	Comprehension	Application	
1.	Ecosystem	04	04	---	08
2.	Energy flow in ecosystem	04	04	---	08
3.	Biochemical cycle in ecosystem	04	04	---	08
4.	Population	04	04	---	08
5.	Pest and pest control measures	04	04	---	08
6.	Environment	03	07	---	10
7.	Air pollution	02	06	---	08
8.	Noise, pollution	03	03	---	06
9.	Vibration	02	04	---	06
10.	Working environment	04	06	---	10
		34	46		80

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Name of Programme : CE/EE/ET/ME/MT/CM/IT

Programme Code : 01/02/03/044/05/06/07

Name of Course : Non Conventional Sources of Energy

Course Code : HU 343

Teaching Scheme

	Hours / Week	Total Hours
Theory	02	32
Term work / Practical	01	16

Evaluation

	Progressive Assessment	Semester End Examination			
		Theory	Practical	Oral	Term Work
Duration	Three class tests of 60 Min. duration	3 Hrs.	--	--	--
Marks	20	80	--	--	25

Course Aim

Students will be able to

- Knowing the rate of depletion of conventional energy sources, it is necessary for a technician to know alternate viable energy sources to meet the energy requirements.

Course Objectives

Students will be able to

- Know the National scene of energy production, utilization, consumption and reserves.
- Appreciate the need for non-conventional energy sources.
- Understand relative advantages and disadvantages of various non-conventional energy sources.
- Understand basic heat transfer principles related to solar collectors.
- Understand different methods of solar energy storage.
- Know construction and working of different equipments based on solar system.

Course content

Sr. No	Topic / Subtopic	Hours	Marks	Practical
1.	**Review of conventional sources of energy** Types of conventional energy sources availability, important plant in India, India's production and reserves for fossil fuels, waterpower, nuclear power, need for non-conventional energy sources, Environmental impact of various energy sources.	06	16	Review of conventional sources of energy
2.	**Types of non-conventional source of energy** Solar energy, wind energy, Tidal energy Geothermal; Biogas, Biomass, availability, workings principle of plants, sites, relative advantages and disadvantages.	06	16	Study of non-conventional source of energy with applications like i) solar energy ii) wind energy iii) tidal iv) geo-thermal
3.	**Solar radiation, Collector, Storage** Stefens' Boltzmans' Law, reception of radiant energy, direct and diffused radiation, flat plate collector, concentric collector, sensible head storage, latent heat storage, thermo chemical storage, and solar pond.	6	20	Solar energy& wind energy – Plant elements & specifications of the equipments
4.	**Solar energy applications** Solar water heater, Solar cooker, Solar drier, Power generation, Solar still, Photovoltaic cell.	6	20	
5.	**Energy audit** Concept, parameters considered for energy audit. Advantages of energy audit.	4	08	Seminar
6.	**Two field visits** to be conducted to demonstrate application of Solar Energy. And one to demonstrate application of any one non-conventional energy other than Solar Energy. A report of the visit must be submitted by the student. The report should include 1) List of Manufactures, 2) Specifications & capacity, 3) Elements and components, 4) Cost details, 5) Working principle, 6) Applications.	4	Nil	Visit report of CME or Pune University visit.

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1.	Review of conventional sources of energy	Classroom teaching and field visit
2.	Types of non conventional sources of energy	Classroom teaching and field visits, use of charts
3.	Solar radiation, collector and storage	Classroom teaching, field visit & use of charts
4.	Solar energy application	Classroom teaching, field visit & use of charts

Reference Books

Author	Title	Publication
S.P. Sulkhatme	Solar energy	Tata McGraw Hill
G.D. Ral	Solar energy utilization	Khanna Publication

Learning Resources Charts of solar water heater and cooker, Models of solar water heater and cooker, Photovoltaic cells etc. ,
video cassette no.131,365 of G.P.P. library

Specification Table

Sr. No	Topic	Cognitive Levels			Total
		Knowledge	Comprehension	Application	
1.	Review of conventional sources of energy	10	06	--	16
2.	Types of non-conventional sources of energy	02	06	08	16
3.	Solar radiation, collector and storage	12	04	04	20
4.	Solar energy	08	04	08	20
5.	Energy Audit	08	--	--	08
		40	20	20	80

Prepared by

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Member Secretary (PBOS)

(U.V. Kokate)
Chairman PBOS Computer Engg.

Name of Programme : CE/EE/ET/ME/MT/CM/IT

Programme Code : 01/02/03/04/05/06/07

Name of Course : Advanced Physics

Course Code : SC 343

Teaching Scheme:

	Hours/Week	Total Hours
Theory	2	32
Term work / Practical	2	32
Total	4	64

Evaluation:

	Progressive Assessment	Semester End Examination			
		Theory	Practical	Oral	Term work
Duration	Three class tests of 60 Min. duration	3 Hours	--	--	--
Marks	20	80	--	--	25

Course Aim:

- To understand various physical phenomena related to Advanced Technology.
- To understand applications of various principles of Physics.
- To learn how Physics helps in solutions of engineering problems.
- To learn, to think in scientific manner and apply the knowledge to gained to different new situations.
- To solve numerical problems.

Course Objectives:

The student will be able to

- Understand the principles used in advanced technology.
- Know how Physics helps in solving engineering problems.
- The skill of solving numerical problems may help in knowing and solving the actual problems in the field.

Course Content:

Sr. No.	Topic / subtopic	Hours	Weightage	Practical
1.	**Metallurgical Microscope** Revision: Types of lenses and image formation by lenses. Magnification – definition, formula, Power of a lens – definition, formula, Aperture of lens, numerical aperture. Lens Aberration – Spherical, chromatic, coma, astigmatism. (No derivations), minimization of aberrations. Achromatic, apochromatic, semiapochromatic lenses. Simple, compound microscopes, (Revision). Metallurgical microscope construction and ray diagram. Eye Pieces – 1) Negative 2) Positive 3) Photographic or amplifying 4) Compensating 5) Measuring or ratical type. Objectives – Oil immersion objective, Properties of objectives. Magnifying power, Numerical aperture, resolving power, illuminating power.	5	15	1.Study of Metallurgical microscope. 2. Methods of determine focal length of convex lens. (U-V method, Autocollimation method), Spherometer method.
2	**Electron Microscope** De Broglie Hypothesis. Principal, construction, working and applications of electron microscope. Comparison with optical microscope. Types of electron microscope, scanning electron microscopes, and transmission electron microscopes.	2	5	3. Magnifying power of microscope, calibration of microscope 4. Study of spectra meter.
3	**Lasers** Atomic excitation, critical potential, excitation potential, optical pumping, population inversion, spontaneous and stimulated emission, laser energy level diagrams, production (gas & ruby laser), properties and industrial applications. X-RAYS : Origin of X-rays, Diffraction of X-rays, Bragg's Law, Bragg's law and crystal structure. Methods for determination of crystal structure by Single crystal method, Power method.	3 3	6 8	

4	**Spectroscopy** Origin of spectral lines (No Derivation), emission and absorption spectra (line, band continuos), Spectral analysis.	3	5	
5	**Temperature Measuring Devices** Radiation: Introduction, Stefan – Boltzmann Law, Newton's Law, Kirchoff's Law, Wein's Law, Pyrometers – Optical pyrometer – 1) Disappearingfilament type 2) Bioptical pyrometer. 3) Total radiation pyrometer – 1) Mirror type 2) Lens type .4) Thermopile type. Conditions affecting the use of pyrometers. Thermocouple Revision (Seebeck, Peltier), Thomson effect, Thermoelectric potential, Cold junction correction, Requirements and properties of thermocouple. Thermocouple protection tube, e. m. f. measuring instruments. Suggestions on proper use of thermocouple. Resistance Thermometer Principle- measurement of high and low (below 0°C) temperatures. Use of Wheatston's Bridge to measure resistance at different temperatures. Bimectallic thermometers – Principle construction and working.	3 3 2	5 8 5	5. Measurement of temperature using resistance thermometer – Thermal analysis – cooling curve. 6. Pyrometer 7. High temperature measurement by thermocouple
6	**Plasma Physics** What is plasma, properties of plasma, formation and occurrence and production of plasma. Application for – welding, Plasma arc welding, Keyhole welding, High current plasma arc welding, Low current plasma arc welding, Plasma nitriding.	2	5	8. Thin film thickness measurement by interference.
7	**Magnetism** Molecular (Domain) theory of magnetism, Susceptibility, Permeability. Characteristics of ferromagnetic materials, Hysteresis, Retentivity, Coercivity, Explanation on domain theory. Area under hysteresis loop and work done. Loss of energy by hysteresis. Hard and soft magnetic material, their properties and uses.	2	8	9. Hysteresis 10. Measurement of pole strength by Owen's method

8	**Super Conductivity** Phenomenon of superconductivity, critical temperature, Meisner effect, Super conducting material, properties and applications of super conductors, Destruction of super conductors.	2	5	
9	**Hall Effect** Hall effect. Hall voltage, Hall coefficient, Hall Mobility, applications of Hall effect.	2	5	

Instructional Strategy:

Sr. No.	Topic	Instructional Strategy
1.	Metallurgical Microscope	Lecture, Practical, Charts
2,	Electron Microscopy	Lecture, Charts, Demonstration
3.	Laser	Lecture, Demonstrate, Charts, Video Cassette.
	X-rays	--do--
4.	Spectroscopy	Lecture, Practical, Demonstration
5.	Temperature Measuring devices	-do- Video Cassette
6.	Plasma Physics	Lecture, Demonstration
7.	Magnetism	Lecture, Practical, Video Cassette
8.	Superconductivity	Lecture, Demonstration
9.	Hall Effect.	Lecture, Demonstration.

Reference Books:

Author	Title	Publisher
Kehl	Principles of Metallographic Laboratory Practice.	
Starfield Shrager	Introductory Material Science	Mc Graw Hill Book Co.
M.Aditan & A.B.Gupta	Manufacturing Technology	New Age International Publisher.
V.Rajan,C.P.Sharma, Ashok Sharma	Heat Treatement-Principles and Techniques	Prentice Hall India.
Guy	Elements of Physical Metallurgy	Dhanpat Rai Publications,Delhi
R.K.Gaur,S.I.Gupta	Engineering Physics	S.K.Karia & Sons, Delhi
A.S.Vasudeva	Engineering Physics	-- do --
S.L.Gupta & S.Gupta	Modern Physics	Dhanpal Rai Publications, Delhi
A.Beiser	Concepts of Modern Physics	Mc Grew Hill
M.R.Shrinivasan	Perspective of Modern Physics	New Age International
M.S. Kotgire	Physics for Engineering Material science	Publishers.

Learning Resources: Charts, Books, Hand books

Specification Table:

Sr. No.	Topic / subtopic	Cognitive Levels			Total
		Knowledge	Comprehension	Application	
1	Metallurgical microscope	6	5	4	15
2	Electron Microscopy	2	2	1	5
3	Laser	2	2	2	6
	X – rays	3	3	2	8
4	Spectroscopy	2	2	1	5
5	Temp, measuring devises	7	6	5	18
6	Plasma Physics	2	2	1	5
7	Magnetism	3	2	3	8
8	Superconductivity	2	2	1	5
9	Hall effect.	2	2	1	5
		31	28	21	80

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विषयतज्ज्ञ्याता, पदार्थ विज्ञान
शासकीय तंत्र निकेतन, पुणे १६

Name of Programme :CE/EE/ET/ME/MT/CM/IT

Programme Code : 01/02/03/04/05/06/07

Name of Course : Interior Decoration

Course Code : CE – 341

Teaching Scheme:

	Hours / Week	Total Hours
Theory	02	32
Term work / Practical	02	32

Evaluation:

	Progressive Assessments	Semester End Examination			
		Theory	Practical	Oral	Term Work
Duration	Three class tests of 60 min Duration	3 hours	---	---	---
Marks	20	80	---	---	25

Course Aim: For home offices and commercial interiors, lighting is one of the most crucial element of interior design, as it determines the comfort levels of a place. A correctly lit, interior enhances aesthetics and functionality.

It is necessary to become familiar with the materials. Used for decorating interiors of building and study of interior environment. Interior decoration in commercial building attract customers due to virtue of its beauty.

Decorating interiors of building is an art of making the inside of the building beautiful by using aesthetics.

Course Objectives:

- Students will able to know and understand the various materials used for internal decoration
- Students will able to prepare the working, isometric and perspective drawings
- Students will able to design, plan for interior decoration of residential buildings and various commercial buildings.
- Students get acquainted with aesthetics of interior decoration.

Course Content:

Sr No.	Topic / Subtopic	Hours	Weig htage	Practicals
1	Introduction to importance of Interior Design.	01	04	--
2	Principles of Design Structural design, decorative design with characteristics and Examples. Symmetry, Balance Harmony. Scale and proportion, Rhythm, colour, Emphasis etc.	04	08	Paper cutting from magazines.
3	Elements of Design Line, Form, Texture, Light, Space, Pattern colour.	04	10	--
4	Drawing presentation Presentation of various furniture items including plants in plan and Elevation.	04	12	1.Furniture arrangement for living, Bed room including plants in plan.
5	Ergonomics and Anthropometrics. Introduction to Ergonomics. Introduction to Anthropometrics.	02	06	--
6	History of Interior Design. Classical period, Medieval period. Nineteenth Century, Modern period oriental Indian Interior Design.	03	08	--
7	Basic Design for living Units. Living room, Dining room, Kitchen. Master Bed, Children's Bed room, Guest Bed room, Toilets.	06	14	2) Practical oriented exercise
8	Practice Oriented Design programmes. One small residential building up to area 50 sq.mt. One commercial Building (Shop, Bank, Post office, restaurants)	08	18	Interior Décor 1. Residential Bldg. 2. Commercial Bldg.

Instructional Strategy:

SrNo.	Topic	Instructional strategy
1	Introduction and Imp. Of Interior Design	Classroom teaching
2	Principles of design	Classroom teaching
3	Elements of Design	Classroom teaching
4	Drawing presentation	Photographs from magazines.
5	Ergonomics & Anthropometrics	Classroom teaching
6	History of Interior Design	Classroom teaching
7	Basic design for living units	Classroom teaching
8	Practice oriented Exercise	Classroom teaching, Photographs, Drawings etc.

Reference books:

Sr.No.	Author	Title	Publisher
1	D.M. Ghose	Materials of construction	Tata McGraw Hill New Dehli
2	John F. Pile	Interior Design	Harry N. Abrams, NIC Publishers, New York
3	Bar baralee Daimon Stein.	Interior Design	Rizzoli International Publications, New York
4	Ahmed A Kasu	Interior Design	Iqvara Publication Pvt, Ltd. Bombay
5	Joseph De Chaira Jullius Panero Martin Zelnik	Time saver standard Interior design and space planning	McGraw Hill. New York.

Specification Table:

Sr. No.	Topic	Cognitive Levels			Total
		Knowledge	Comprehension	Application	
1	Introduction and Imp. Of Interior Design	2	2	--	4
2	Principles of design	4	2	2	8
3	Elements of Design	4	4	2	10
4	Drawing presentation	--	2	10	12
5	Ergonomics & Anthropometrics	6	--	--	6
6	History of Interior Design	4	4	--	8
7	Basic design for living units	4	4	6	14
8	Practice oriented Exercise	2	4	12	18
		26	22	32	80

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Name of Programme : CE/EE/ET/ME/MT/CM/IT

Programme Code : 01/02/03/04/05/06/07

Name of Course : Architectural Design

Course Code : CE 342

Teaching Scheme:

	Hours / Week	Total Hours
Theory	02	32
Term work / Practical	02	32

Evaluation:

	Progressive Assessments	Semester End Examination			
		Theory	Practical	Oral	Term Work
Duration	Three class tests of 60 min Duration	3 hours	---	---	---
Marks	20	80	---	---	25

Course Aim: Architecture is a personal art responding directly to what the feeling, knowledge and experience of the architect. Architect lives with the people, deals with their accommodation problems and experiences the same climatic condition. Architect creates an environment in which people flourish. Architectural designs are influenced by three main considerations. They are people and their needs, climate, materials and means of construction.

Architects have various attitude towards looking at a problem. He can point out various possibilities of finding out satisfactory solution to problems in construction of building. For that, he considers all the requirements.

Course Objectives:

- The student should be able to identify multiple function.
- He should be able use this knowledge in architectural design problems.
- He should be able to conceive and present the appropriate solution based on the related knowledge acquired.

Course Content:

Sr.No.	Topic / Subtopic	Hours	Weigh-tage	Practical
1	**Definition of Architecture** Study of various forms and space Surface form and space and their relationship Two dimensional design and study of aesthetic component line texture, column pattern, Rhythm proportion, symmetry and balance Man and space relationship	05	08	1. Case study – Analytical study of any one selected building w.r.t. its room, construction skill relationship
2	**Case study** Analytical study of selected buildings with respect to its room, context skill relationship Study of various elements such as elements of composition of surfaces. Study of composition of form, continuity balance	06	16	2. Layout of an open park with natural and man made objects. Aesthetic relationship of these objects (street furniture)
3	**Functional components** Study of components like climate, orientation, circulation, structural material Accommodation of functions in terms of orientation – circulation and structure.	05	16	3.Design of simple structure involving one function i.e. bus stations, entrance gate, single watchman cabin etc.
4	**Space** Space inside and outside Space occupied and unoccupied and its visual formation Defining space, study of spaces and its allocation	05	14	
5	**Layouts** Layout of an natural and man made object Aesthetic relationships of these objects (street furniture)	05	16	
6	**Concept of Architectural design** Progress and purpose of building planning, characteristics etc. Design of a simple structure involving one function i.e. bus station, road side furniture shop, entrance gate, watchman cabin for laboratory	06	10	

Instructional Strategy:

Sr. No	Topic	Instructional Strategy
1	Definition of architecture	Class room teaching, with transparencies, models For all topics.
2	Case study	
3	Functional components	
4	Spaces	
5	Layouts	
6	Concept of Architectural design	

Reference books:

Title	Author
1) Design Fundamental in Architecture	- By V.S. Parmar
2) Principles of basic design Vol. I to IV	- By Maler Masntred

Specification table:

Sr.No.	Topic	Cognitive level			Total
		Knowledge	Comprehension	Application	
1	Definition of architecture	04	04	---	08
2	Case study	04	06	06	16
3	Functional components	04	06	06	16
4	Spaces	08	04	02	14
5	Layouts	06	04	06	16
6	Concept of Architectural design	02	02	06	10
		28	26	26	80

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Name of Programme : CE/EE/ET/ME/MT/CM/IT

Programme Code : 01/02/03/04/05/06/07

Name of Course : ELECTRIFICATION OF BUILDINGS

Course Code : EE 341

Teaching Scheme:

	Credits	Hours/Week	Total Hours
Theory	2	2	32
Term work / Practical	2	2	32
Total	4	4	64

Evaluation:

	Progressive Assessment	Semester End Examination			
		Theory	Practical	Oral	Term work
Duration	Three class tests of 60 Min. duration	3 hr	--	--	
Marks	20	80	--	--	25

Course Aim:

Civil Engineers are required to supervise the work at construction sites and buildings. They should be aware of different aspects of electrification of buildings viz. Residential and Industrial, which are introduced in the subject.

Course Objectives:

After studying this subject the students should be able to –

- Choose proper wiring components and systems as per requirement.
- Design illumination schemes required for various purposes.
- Confirm the choice of pump as per requirement.
- Be conversant with the selection and installation of an elevator as per requirement.
- Be aware of electrical hazards and safety precautions.
- Decide the dimensions of foundations of pump and elevators at the time of erection.
- Supervise effectively the electrification of buildings.

Course Content:

Sr. No.	Topic / subtopic	Hours	Weight age	Practical
1	**Introduction** Comparison of installation for residential and industrial buildings w. r. t. types of loads, types of wires, types of wiring system etc. Different wiring components and their types viz, switches, fixtures, lamps, lamp holder's ceiling roses, socket outlets, fuses and fuse holders. Service connections for residential and industrial buildings – pole fittings, service lines, switch-fuse unit, Distribution box.	5	12	**Drawing Sheets** 1. Wiring components.& symbols. 2. Types of wiring- staircase, godown, hospitals. 3. Service connection – (pole to house) and internal wiring. 4. Illumination case study – drawing and report such as Laboratory, Workshop, Drawing hall, Hostel.
2	**Illumination** Design of lighting scheme – space to height ratio, utilization factor, depreciation factor, calculation of total lumens required, illumination required for various purposes (simple numerical). Lighting Schemes – Direct, indirect, semi-direct, and semi-indirect.	5	12	**List of Experiments** 1. Study of different types of lamps. 2. Study of 1-phase energymeter and its connection. 3. Study of substation of the institute. 4. Study of centrifugal pump.
3	**Internal Wiring Systems & Lamp Circuit For Residential Buildings** Fundamental of wiring systems – Rules, looping in system, Lamp circuits – Simple circuits, parallel circuits, master - switch circuits.	2	8	
4	**Industrial Wiring** Factors to be considered for planning and execution viz.- planning and co-ordination, independent sub-station, selection of voltage, switch boards, Systems of wiring - Main connections, wiring of sub-mains and sub-circuits.	2	6	

5	**Tariff** 1-Phase energy meter construction, working and connection. Tariff-concept, types, Electricity bill calculation for residential consumer.	2	6	
6	**Pumps** Types of pumps-centrifugal, rotary. Characteristics of pumps. Factors to be considered for selection of pumps. Capacity / hp calculation of electric motor. Application of pumps-water supply for residential and industrial buildings, sewage and sump services. Drives for pump-Three phase squirrel-cage induction motor, Troubles with centrifugal pumps-causes and remedies. Automatic water level controller – Block diagram and working.	6	12	
7	**Elevators** Selection and installation– Types of elevator size and shape of the car, elevator speeds, location of pent house. Types of elevator machines, power transmission, gears, braking. Elevator Motor-types. Safety and protective devices. Elevator maintenance.	6	12	
8	**Electrical Safety** Indian Electricity rules for safety of person & equipment followed when working with electrical installation. General Safety practices in electrical work. Earthing - what is earthing? It's necessity. Electrical Accidents-meaning and causes. Electric shock-procedure for rescuing a person who has received an electrical shock. Electrical fire-cause of fire, precautions to avoid fire, operation of fire extinguishers.	4	12	

Instructional Strategy:

Sr. No.	Topic	Instructional Strategy
1	Introduction	Lecture, Demonstration, Visit
2	Illumination	Lecture, Case Study, Problem solving
3	Internal Wiring System and lamp circuits	Lecture, Visit
4	Industrial wiring	Lecture, Visit
5	Tariff	Lecture, Q/A Technique
6	Pumps	Lecture, Q/A Technique
7	Elevators	Lecture, Q/A Technique
8	Electrical Safety	Lecture, Q/A Technique

Reference Books:

Author	Title	Publisher
D.G.Fink, H.W. Bealy.	Standard Handbook for Electrical Engineers.	
Tyler G. Hicks	Pump Selection and Application	
Dale Patrik and S,.W. Fardo	Industrial Electrical System	
Uppal	Electrical Wiring, Estimation and Costing	
M.L. Ghosh	Electrical Trade Theory.	Khanna Publishers

Learning Resources: Handouts, charts, models

Specification Table:

Sr. No.	Topic / subtopic	Cognitive Levels			Total
		Knowledge	Comprehension	Application	
1	Introduction	6	6	--	12
2	Illumination	3	3	6	12
3	Internal Wiring System and lamp circuits	4	4	--	8
4	Industrial wiring	4	2	--	6
5	Tariff	3	3	--	6
6	Pumps	4	4	4	12
7	Elevators	4	4	4	12
8	Electrical Safety	8	4	--	12
		36	30	14	80

Prepared by

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Prof. S. V. Choudhari
Member Secretary

~~Prof. D. D. Dongre~~
Chairman, PBOS

Name of Programme : CE/EE/ET/ME/MT/CM/IT

Programme Code : 01/02/03/04/05/06/07

Name of Course : Auto CAD

Course Code No. : ME 342

Teaching Scheme

	Hours / Week	Total Hours
Theory	01	16
Term work / Practical	03	48

Evaluation

	Progressive Assessment	Semester End Examination			
		Theory	Practical	Oral	Term Work
Duration	--	--	--	--	--
Marks	--	--	50	25	50

Course Aim

- ✓ Students should be familiar with the different drafting techniques.
- ✓ The students should know the features of AutoCAD softwares.
- ✓ The students should be able to use AutoCAD for drafting.

Course Objectives

After undergoing this course the students will be able to :

- ✓ Understand the importance of Auto CAD.
- ✓ Understand the general specification and their configuration.
- ✓ Understand the system commands and their utilities.
- ✓ Draw different drawing by using computer aided drafting.

3.	**Door Bell** Working principle, circuit and testing	02	06	To assemble the electronic doorbell.
4.	**Battery Eliminator** 6V-12V/1A, Working principle, circuit diagram, testing procedure	03	06	To construct and test the B. eliminator for 6V/12V output for output current.
5	**Battery charger** Working principle, circuit and testing procedure	03	08	
6	**Flasher** Using Transistor/using IC/Triac, principle. Circuit diagram	03	08	To built and test 12v flasher.
7	**Triac fan regulator** Working principle	02	06	
8	**Audio power amplifiers, speakers** Working principle	02	06	
9	**Running Light** Using transistor, IC 555, multivibrator	02	08	Running light
10	**Digital Devices** Digital counter/timer, decoder driver and display.	07	10	To built and test digital constructio testing of digital counter/timer.

Instructional Strategy

Sr. No	Topic	Instructional Strategy
01	Electronic Components	Class room teaching
02	PCB Making	Class room teaching
03	Door Bell	Class room teaching & laboratory work.
04	Battery Eliminator	Class room teaching & laboratory work.
05	Battery charger	Class room teaching & laboratory work
06	Flasher	Class room teaching & laboratory work
07	Triac fan regulator	Class room teaching & laboratory work
08	Audio power amplifiers, speakers	Class room teaching & laboratory work
09	Running Light	Class room teaching & laboratory work
10	Digital Devices	Class room teaching & laboratory work

Text Books

Author	Title	Publisher
Bosshart	Printed Circuit Boards	
Chute and Chute	Industrial Electronics	Mc-Graw Hill
R.P.Jain	Modern Digital Electronics	Tata Mc-Graw Hill

Learning Resources

1.Reference books.
2.machine catalogs.
3. Industrial product brochures
4. Data Sheets and Manuals.

Specification Table

Sr. No	Topic	Cognitive Levels			Total
		Knowledge	Comprehension	Application	
01	Electronic Components	4	3	3	10
02	PCB Making	4	3	3	10
03	Door Bell	3	3	2	8
04	Battery Eliminator	3	2	3	8
05	Battery charger, Lab work flasher using transistor/IC	3	3	2	8
06	Flasher	3	3	2	8
07	Triac fan regulator	2	2	2	6
08	Audio power amplifiers, speakers	2	2	2	6
09	Running Light	2	2	2	6
10	Digital Devices	4	3	3	10

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Name of Programme : CE/EE/ET/ME/MT/CM/IT

Programme Code : 01/02/03/04/05/06/07

Name of Course : **Fundamentals of Programming Using 'C'**

Course code : **CM341**

Teaching Scheme:

	Hours/Week	Total Hours
Theory	02	32
Term Work/Practical	02	32

Evaluation:

	Progressive Assignment	Semester End Examination			
		Theory	Practical	Oral	Termwork
Duration	Three class tests of 60Min. duration	3 hrs.	--	--	
Marks	20	80	--	--	25

Course Aim: As a diploma engineer, it is necessary to know more about computer operation. In order to work in software engineering domain, course, which describes different programming methodologies and languages of computers, is must.

Course Objectives:

Students will be able to

- Differentiate programming languages
- To use and work in programming environment.
- Interpret 'C' Programs.
- Solve the problems using 'C'.
- Implementing 'C' functions.

Course content:

Sr. No.	**Topic/Subtopic**	Hours	**Weightage**	Practical
1.	Steps in program development Different symbols Problem analysis Flowcharting Algorithm Program development Testing & Debugging Implementation Documentation	04	10	
2.	Study of 'C' as a programming language Introduction Basic structure of 'C' program Programming style Sample 'C' program Execution of 'C' program	02	05	1. Demonstration of Turbo-C Compiler Creating a program Compiling and linking Executing programs
3.	Constant, Variables & Data types Character set	04	10	2. Write 'C' programs based on declaring

	of C functions, return values & their types, calling a function. Category of functions: No argument -No return vale, Argument-No return value, No argument - return vale, Argument - returns value. Handling non-integer functions, nesting of functions, recursion, and function with arrays.		demonstration of return data types. Write program demonstrating four categories of functions. Program based on recursion and nesting of functions.

Text Books:

Author	Title	Publisher
E Balagurusamy	'Programming in ANSI C'	Tata McGraw Hill (2nd Ed.)

Reference books:

Author	Title	Publisher
Gottfried	Programming with C 2/e. (Schaum Outline Series)	BPB
Ketingham and Ritche	Programming in C	PHI

Learning Resources: Handouts.

Specification Table:

Sr. No.	Topic	Cognitive Levels			Total
		Knowledge	Comprehension	Application	
1.	Steps in Program development	2	6	2	10
2.	Study of 'C' as a programming language	2	3	-	05
3.	Constant, Variables & Data Types	4	2	4	10
4.	Operators and Expressions	4	2	4	10
5.	Managing Input and Output operators	-	2	3	05
6.	Decision Making: Branching and Looping	4	-	6	10
7.	Arrays	4	2	4	10
8.	Strings	4	2	4	10
9.	User defined functions	4	2	4	10
		28	21	31	80

Prepared by
Name:
Hange J.R.

Member Secretary (PBOS)
(Shri S V Choudhari)

Chairman
PBOS Computer Engineering

Name of Programme : **Dress Designing and Garment Manufacturing**
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Graphic Design.**

Course Code : **DD342**

Teaching Scheme-

	Hours / Week	Total Hours
Theory	1	16
Term Work/Practical	3	48

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--	--	--	--
Marks	--	--	50	25	50

Course Aim-

The course provides the use and discussion of the values of Computer Aided Designing. As clothing & designing is an inseparable part of any current course, which is preparing student for a career in fashion industry & in the designing market. This gives the knowledge in achieving skills for applying Computer Aided Designing in the field of Designing & manufacturing.

Course objective- Student will be able to-

- Explore their ideas for stylized drawing with the application of different tools of Corel-Draw & Photoshop.
- Suggest modification to existing manual system & develop alternative System through advance technology to improve performance.
- Know integrated fashion & information technology in a meaningful way to cope up with the competitive nature of global market.
- Present effectively their collection using power point.

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
1	**Introduction to Corel-Draw** A) Different types of Tools B)Introduction to Menu bar Property bar & Standard bar. C) Tools- Pick tool, Brush, Zoom, Hand tool, Bezier tool, Pen tool, Rectangle tool, Ellipse tool, Graph paper, Basic shapes, Text tool, Blend tool, Eyedropper tool, Paint bucket, Outline pen, Dialog fill tool, Interactive fill tool, Mesh fill tool etc.	08		**Introduction to different Tools used in Corel-Draw** a)Drawing Different Types of Collars b)Drawing Different Types of Sleeves c)Drawing Different Types of Tops d) Drawing Different types of Skirts & Trousers e) Drawing Accessories f) Drawing Figure Models & Draping with Textures.
2	**Introduction to Photoshop** A) Explanation of different tool used in Photoshop B) Tools- Move tool, Marquee, Lasso tool, Magic wound, Crop, Slice, Paintbrush, Airbrush, Pattern stamp/ Clone stamp, Eraser, Gradient, Dodge, Blur, Path Component, Pen tool, Rectangle, Notes, Eyedropper tool, Hand tool, Zoom tool etc.	08		**Introduction to Different Tools used in Photoshop.** a) Designing Brochure for Boutiques b) Applying background effects which are prepared in Corel-Draw c) Making Leaf lets d) Designing Advertisement for Apparel Show Room. e) Designing front page of magazine (Related to Fashion Designing) f) Present any two Assignments through Power Point.

Reference Books

Author	Title	Publisher
Beazley Alison	Computer Aided pattern design & production	Blackwell
McKelvey & Munslow	Illustrating Fashion	Blackwell
Aldrch Winifred	CAD in Clothing	Annces Plus Lonon

Learning Resources - Computer, LCD etc.

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1.	Introduction to Corel-Draw	Theoretical +Practical treatment
2.	Introduction to Photoshop	Theoretical +Practical treatment

Prepared by

Mrs. C.A.Abhyankar
Lecturer in DDGM

Member Secretary (PBOS)

Chairman (PBOS) D.D.G.M

Name of Programme - CE/EE/ET/ME/MT/CM/IT

Programme Code - 01/02/03/04/05/06/07

Name of Course - Engineering Economics

Course Code - NC356

Teaching Scheme -

	Hours /Week	Total Hours
Theory input	02 Hours on every working Saturday morning + evening	20 min.
Practicals /Home assignment	01 hours on every working Saturday morning + evening	10 min.

Evaluation

	Progressive Assessment	Oral based on Term work
Duration	Three class objectives Tests of 60 min. duration	-
Marks	75 - (25 x 03)	25

Course Aim - After completion of the course students will be able to know :

1. Various concepts, applications, contribution of Micro Economics and macro economics to engineering business decisions .
2. Consumer demand, market demand, supply and production.
3. Prices and cost - Break even analysis, price decisions.
4. Concept of National income.
5. Inflation, Deflation and unemployment.
6. Money and Banking, New economic environment.

Course Objectives -

Diploma Engineers working in middle level management are no longer confined to the role of professional technicians. They often have to take business decisions, for which they are required to apply economic concepts, logic, tools of analysis and economic theories as they advance in their carriet. It is for this reason that diploma students are required to posses some working knowledge of economic concepts, economic policy of our country, also the effects of globalization, GATT, WTO etc.

Course Content-

Sr. No.	sub topic	Topic	Lectures	Weig-htage	Practical/Home Assignment
		MODULE - 1			
1		**Introduction to Economics**	02	09	
	1.1	Scope of Economics, Nature, subject matter.			
	1.2	How Economics contributes to Business decisions Microeconomics applied to operational issues Macro economics applied to assets business environment			
2. A		**Demand Analysis and Fore casting**	02	08	
	2.1	Consumer demand, utility, total and marginal utility, law of diminishing cardinal and ordinal utility			Study of aspects of demand of goods /services
	2.2	Consumer demand analysis, preference theory, law of demand			
2. B		**Market demand and elasticities**	02	08	
	2B.1	Market demand -analysis, demand function, elasticities of demand			
	2B.2	Demand for casting necessity, techniques, methods			
		MODULE - 2			
3		**Supply, production and cost analysis**	03	12	
	3.1	Law of supply, supply factors, supply function, Equilibrium of demand and supply			
	3.2	Theory of production, laws of production break -even analysis			
4		**Price determination and practices**	04	13	
	4.1	Market related concepts - Firm, industry, market, market power etc.			

	4.2	Pricing-perfect condition and monopoly, condition, oligopoly			
	4.3	Cost plus pricing, competitive bidding transfer pricing, peak load pricing			
MODULE - 3					
5	**National income and Inflation**		03	12	
	5.1	Concept, measurement, Gross National production, gross domestic production, methods of measuring national income, India's national income.			
	5.2	Inflation - deflation, measures, kinds and effects.			
	5.3	Unemployment causes, kinds, effects and remedies.			
6	**Finance, Money and Banking and New economic environment**		04	13	
	6.1	Business finance, Balance sheet, budget and budgetary control			
	6.2	Money- Kinds and functions, significance, Value.			
	6.3	Commercial banks, central banks function.			
	6.4	Liberalization, Trade Privatization, Globalization , GATT and W.T.O.			
			20	75	06

Instructional Strategy

Sr.No.	Topic	Instructional Strategy
1.	Introduction	Lecture method, discussion
2.	Demand analysis, Forecasting, market demand	Lecture method, Assignment, surveys, case study, discussion
3.	supply production, cost analysis,	Lecture method, Assignment, surveys, case study, discussion
4.	Price determination and practices	Lecture method, Assignment, surveys, case study, discussion
5.	National income and inflation	Lecture method, Literature survey, discussion.
6.	Finance, money and banking and New economic environment	Lecture method, visits journals review, discussion.

Text/Reference Book

Sr.No.	Author	Title	Publisher
1.	D.N. Dwivedi and Abhishek Dwivedi	Engineering Economics	Vikas publishing House Pvt. Ltd., New Delhi,
2.	Maheshwari	Managerial Economics (2nd ed)	Prentice Hall of India Pvt. Ltd. New Delhi

3.	Pannerselvam	Engineering Economics	Prentice Hall of India Pvt. Ltd. New Delhi

Learning Resources - Books, Journals, Reports etc.

Specification Table

Sr.No.	Topic	Knowledge	Comprehension	Application	Total
1.	Introduction	04	03	02	09
2.	Demand Analysis and forecasting, Market demand and demand elasticities	08	04	04	16
3.	Supply Production and cost analysis	05	04	03	12
4.	Price determination and practice	06	04	03	13
5.	National Income and Inflation	06	03	03	12
6.	Finance, Money and Banking, New Economic : enviro.	06	04	03	13
	Total	35	22	18	75

Prepared by Course Co-ordinator **Principal**

Note-

1. The course should be offer to student after acquiring 75-80 credits in IV or V semester.
2. Grades should be given to student as below

A- Grade above 75 marks
B- Grade above 50 marks
C- Grade above 40 marks

(43)

Name of Programme - CE/EE/ET/ME/MT/CM/IT

Programme Code - 01/02/03/04/05/06/07

Name of Course - **Elements of Humanities**

Course Code - NC357

Teaching Scheme -

	Hours /Week	Total Hours
Theory input	02 Hours on every working Saturday morning + evening session	20 min.
Practicals /Home assignment	01 hours on every working Saturday morning + evening session	10 min.

Evaluation

	Progressive Assessment	Oral based on Term work
Duration	Three class objectives Tests of 60 min. duration	-
Marks	75 - (25 x 03)	25

Course Aim - After studying this course the students will be able to -

1. Understand importance of social sciences like sociology ethics, politics, philosophy, history, civilization and culture etc.
2. Beware of the nature of society, social institutions, contemporary problems, social movements etc.
3. Know the impact of technology and industrialization on social changes, environmental and ecological change and developments.
4. Be familiar with human relations in industry business and society.

Course Objectives - Humanities deals with all social sciences like sociology, ethics, philosophy, politics, history etc. The essential features of these sciences will be helpful for overall development of students to become responsible members of society and good citizen. He will know the importance of ethics, values, culture, social norms philosophical thinking in his working environment.

Course Content-

Sr. No.	sub topic	Topic	Lectures	Weig-htage	Practical/Home Assignment
MODULE - 1					
1	**Introduction to social sciences**		03	10	
	1.1	Definitions: Sociology, economics, psychology, politics, ethics, philosophy and their interrelationship, management and administration, History, civilization and culture, its importance relations, applications in engineering and technology.			
	1.2	Human society- Origin, Nature and definition of human society, characteristics of human society			
	1.3	Relationship between social sciences and society, scientific methods in sociology.			
2.	**Individual and society and population and society**		04	15	
	2.1	Function of society, social norms, values socialization, culture and change, cultural advancements, socialization of industry.			
	2.2	Social stratification- various approaches concept of social mobility, trends of demographic change in India and world.			
	2.3	Human ecology, effect of urbanization pollution- air, water, sound, values, culture trends of urbanization in developing countries and world.			
MODULE - 2					
3	**Social Institutions**		04	13	

	3.1	Definition and nature of institution, its classification, primary and secondary institution, social institution and progress functions and working of institutions			
	3.2	Family and marriage, association and community, cast and tribe, race and religion and secularizam.			
	3.3	Educational, Economic, Financial, charitable institutions, industry and market, trusts formal and informal organizations. Law and Justice, crime and society. Bureaucracy, Media (Panchayats, Z.P. Assembly etc.)			
4	**Modern society and contemporary problems and process of social change.**		03	12	
	4.1	Modernization (including sanskritirution) Industrialization, Environmental / ecological changes and Environment.			
	4.2	Problems - Education, cultural, employment, poverty, Health, Energy, Labour, Population, Food, Infrastructural. Impact of automation, rationalization, globalization.			
		MODULE - 3			
5	**Technology and social changes**		03	12	
	5.1	Work and mechanization			
	5.2	Factors responsible for social change			
	5.3	Social control			
6	**Social movements and ethics**		03	13	
	6.1	Protest movements, reformist, movement, Radical movements.			
	6.2	ethical issues arising out of application of science and technology.			
	6.3	Elements of environmental and professional ethics			

Instructional Strategy

Sr.No.	Topic	Instructional Strategy
1.	Introduction to social sciences	Lecture method, discussion
2.	Individual and society, population and society	Lecture method, discussion, case study, essays
3.	Social Institutions	Lecture method, visit , reports.
4.	Modern society and contemporary problems, process of social changes	Lecture method, visit surveys
5.	Technology and social changes	Lecture method, discussion, case study, Literature survey
6.	Social movements ethics	Lecture method, discussion, case study, essays

Text/Reference Book

Sr.No.	Author	Title	Publisher
1.	Dr.K.K. Naik	An introduction to Humanities	

Learning Resources - Books, Reports, Journals

Specification Table

Sr.No.	Topic	Cognitive Level			Total
		Knowledge	Comprehension	Application	
1.	Introduction to social sciences	04	03	03	10
2.	Individual and society population and society	07	04	04	15
3.	Social Institutions	06	04	03	13
4.	Modern society and contemporary problems, process of social changes	06	03	03	12
5.	Technology and	05	04	03	12

	social changes				
6.	Social movements ethics	06	04	03	13
	Total	34	22	19	75

Prepared by Course Co-ordinator Principal

Note-

1. The course should be offer to student after acquiring 75-80 credits.
2. Grades should be given to student as below

A- Grade above 75 marks
B- Grade above 50 marks
C- Grade above 40 marks

Name of Programme - CE/EE/ET/ME/MT/CM/IT

Programme Code - 01/02/03/04/05/06/07

Name of Course - **Industrial Psychology**

Course Code - NC358

Teaching Scheme -

	Hours /Week	Total Hours
Theory input	02 Hours on every working Saturday morning + evening	20 min.
Practicals /Home assignment	01 hours on every working Saturday morning + evening	10 min.

Evaluation

	Progressive Assessment	Oral based on Term work
Duration	Three class objectives Tests of 60 min. duration	-
Marks	75 - (25 x 03)	25

Course Aim - After studying this course the students will be able:

1. Understand the need, importance, of Industrial Organizational psychology.
2. Know the various aspects of Human Resource Development, Engg. Psychology consumer, psychology, working conditions in Industry etc.
3. Know the concept of middle level managerial assumptions.
4. Know the formation of various groups in organization, organizational effectiveness.
5. Understand social and self-perception.

Course Objectives -

The various aspects of Human Resources Development, Engineering Psychology, Consumer Psychology characteristic of the workplace etc. should be considered to deal with full range of psychological and person -machine problems created in industry, should be known to diploma students as most of the diploma technicians work in middle management level. The knowledge in this field will help them effectively to face organizational entry, training, working condition in industry problems regarding safety, violence and health a consumer behaviour.

Course Content-

Sr. No.	sub topic	Topic	Lectures	Weig-htage	Practical/Home Assignment
		MODULE - 1			
1	**Practice of Industrial organizational Psychology**		02	10	
	1.1	Principles, practices and problems			
	1.2	Techniques, Tools and tactics			
2.	**Characteristics of the work place.**		04	15	
	2.1	Working conditions, work schedules			
	2.2	Safety, violence and health accidents - causes, presentation.			
	2.3	Occupational health psychology work-Family conflicts, inter group conflicts, stress management .			
		MODULE - 2			
3	**Development of Human Resources**		03	12	
	3.1	Human nature, human problems in industry			
	3.2	Managerial social assumption			
	3.3	Organizational groups and effectiveness.			
4	**Selection, Psychological Testing and training**		04	13	
	4.1	Recruitment /Employee selection principles and Techniques, Job-worker Analyzer.			
	4.2	Psychological Testing- principles, practices, administration, types and limitations			
	4.3	Training and development scope, Goals, attributes, factors and methods			
		MODULE - 3			
5	**Engineering Psychology**		03	12	
	5.1	Time -motion study, person-machine system, work space design, displays.			
	5.2	Automation, computers, Robots			
6	**Consumer Psychology**		04	13	
	6.1	Scope Research Method- surveys and opinion polls, shopping behavior, Brand identification			
	6.2	Types of advertising appeals, Trade marks, product images, product packing, web advertisements.			
	6.3	Consumer behavior and motivation buying habits, brand loyalty, product pricing.			

	6.4	Advertising to children and adolescents older persons, persons with disabilities etc.			
			20	75	06

Instructional Strategy

Sr.No.	Topic	Instructional Strategy
1.	The practice of Industrial Organizational psychology	Lecture method, Assignment discussion
2.	Characteristics of work place	Lecture method, visit short report
3.	Development of Human Resources	Lecture method, case study visit
4.	Selection, psychological testing and training	Lecture method, visit demonstration
5.	Engineering psychology	Lecture method, discussion, visit case study
6.	Consumer Psychology	Lecture method, discussion, assignment case study

Text/Reference Book

Sr.No.	Author	Title	Publisher
1.			
2.	Edgar H Schien	Organizational Psychology	Prentice Hall of India Pvt. Ltd. New Delhi

Specification Table

Sr. No.	Topic	Knowledge	Comprehension	Application	Total
1.	The practices of Industrial organization Psychology	04	03	03	10
2.	Characteristic of work place	08	04	03	15
3.	Dev. of Human resources	06	04	02	12
4.	Selection, Psychology testing and training	06	04	03	13
5.	Engineering Psychology	06	04	02	12

(51)

6.	Consumer Psychology	06	04	03	13
	Total	36	23	16	75

Prepared by

Course Co-ordinator

Principal

Note-

1. The course should be offer to student after acquiring 75-80 credits.
2. Grades should be given to student as below

A- Grade above 75 marks
B- Grade above 50 marks
C- Grade above 40 marks

Level-IV

Basic Technology Courses

(All compulsory)

Course Code	Course Title
DD441	Pattern Making & Apparel Construction - I
DD442	Pattern Alteration & Grading
DD443	World Dress
DD444	Fashion Art & Illustration-I
DD445	Fashion Art & Illustration-II
DD446	Fashion Merchandising

Name of Programme : **Dress Designing and Garment Manufacturing**
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **pattern Making & Apparel Construction -I**

Course Code : **DD441**

Teaching Scheme-

	Hours / Week	Total Hours
Theory	2	32
Term Work/Practical	8	128

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--	--	--	--
Marks	--	--	100	--	100

Course Aim-

This course provides the different structural techniques for various indo western fashion patterns. It also gives the knowledge & skills for apparel construction by using different techniques, to evaluate fitting appearance of garment with correct notions and supplies.

Course objective- Students will be able to-

- Adapt changes on basic patterns and develop various stylized paper patterns.
- Develop good judgments for advanced patterns with respect to cutting paper pattern.
- Draft Indian as well as Western garments such as Blouse, Shirt, Skirt, etc.

Course content

Sr. No	Topic/Subtopic	Hours	Weight age	Practical
1	**Drafting of Shirt Block** a)Ladies Shirt b)Gents Shirt	08		Cutting & Stitching of following patterns **Shirt Block** (Any One) a) Ladies b) Gents
2	**Drafting of Skirt Block** a)Umbrella b)Cowl c)Trumpet	04		**Skirt**- (Any One) a) Umbrella b) Cowl c) Trumpet

3	**Drafting of Cullote.** a) Plain Cullote b) Flared Cullote c) Pleated Cullote	04		**Cullote from Skirt Block** (Any One) a) Plain Cullote b) Flared Cullote c) Pleated Cullote
4	**Drafting of Sari Blouse**	04		**Sari Blouse**
5	**Drafting of Kalidar Kurta**	04		**Kalidar Kurta**
6	**Drafting of Night Wear** a)Gown with Yoke b)Two piece Night Wear c)Gents Night Wear	08		**Night Wear** (Any One) a)Gown with Yoke b)Two piece Night Wear c)Gents Night Wear

Reference Books

Author	Title	Publisher
Winifred Aldrich	Metric pattern Cutting for Women's Wear	Blackwell
Armstrong	Pattern Making	
Mactaggart Ann	Dress Making Skills	London Batsford
Heinemnm Gisella	Skirts Sew your Own	Willow Books
Natalie bray	Dress Fitting	Blackwell
Hilman G	Fashion Cutting Made Easy	Om Book

Learning Resources- Machines, Size Chart, Dress Forms, Books etc.

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1	Drafting of Shirt Block	Theoretical + Practical Treatment
2	Drafting of Sari Blouse	Theoretical + Practical Treatment
3	Drafting of Skirt Block	Theoretical + Practical Treatment
4	Drafting of Kalidar Kurta	Theoretical + Practical Treatment
5	Drafting of Night Wear	Theoretical + Practical Treatment

Prepared by

Mrs. C.A.Abhyankar
Lecturer in DDGM

Member Secretary (PBOS)

Chairman (PBOS) D.D.G.M

Name of Programme : Dress Designing and Garment Manufacturing
Programme Code : 01/02/03/04/05/06/07/08
Name of Course : pattern Alteration & Grading
Course Code : DD442

Teaching Scheme-

	Hours / Week	Total Hours
Theory	02	32
Term Work/Practical	03	48

Evaluation:

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--	--	--	--
Marks	--	--	100	--	100

Course Aim-

The subject provides the alterations made on basic pattern sets which enable a designer to overcome the figure faults. It allows proper hang of the garment on various figures having disproportionate posture. The designer can use skills to produce a range that will make the latest fashion available to the majority of people. Also the course introduces the application of different pattern grading systems.

Course Objective - The students will be able to-

- Design garment for individual client.
- Fulfill the demands of various sizes and figure types by choosing an appropriate style.
- Know the significance of pattern cutting skill with a good fit touch by making the basic concepts of proportion and balance more clear.
- Provide solutions on various shapes to be flattered on widely different types of figures.
- Grade the patterns for required sizes by two methods of grading i.e. Slash and Pivot method.

4/4

Course Content-

Sr. No	Topic/Subtopic	Hours	Weight age	Practical
1	**Importance of Good Fit.** A) Elements of Good Fit Appearance, Comfort, Design and Fabric **B) Introduction to Figure Types & its key Measurements** a)Misses b) Miss Petite c) Junior d) Junior Petite e) Young Junior or Teen f) Half Size and Women.	03		
2	**Dos & Don'ts for Design** Application to all types of figure, such as Tall & Thin, Tall & Stout, Short & Stout, Short & Slim, etc.	01		Render suitable designs for different figure types to overcome abnormalities.
3	**Introduction to General Abnormalities Occurred due to following Variation** A)Variation in Proportion b)Variation in Contours c)Variation in Postures d)Variation in Symmetry e)Abnormalities Occurred due to- Habit, Heredity, Occupation and Accidents f)Introduce ideal Standard figure	02		Students should make at least Two Shells and One for different, having various Abnormalities in them. (Front and Back Bodice along with the Sleeve)

4	**Introduction to Pattern Alteration** a)Taking key Measurements b)Comparing Measurements c)Making the Alteration	01		
5	**Basic Pattern Alteration** a) Length Alteration (Increase & Decrease), Basic Pattern set (Bodice Sleeves & Skirt), Pant, Princes line, Raglan & Kimono Block b) Width Alteration (Increase & Decrease) Bodice & Skirt, A line pattern, Pants & Waist bands, Skirts & Princes pattern c) Hip line Alteration (Increase & Decrease) A line dress, Gored Skirt or Fitted Skirt, Yoke Skirt & Pant.	03		1:4 scale size Actual Alterations should be experimented for length alteration, Width Alteration, Hip line Alteration (Basic Pattern Set).
6	**A) Advance Alteration** a)Method for Advance Alteration b)Make a Shell c) Judging the Fit **B) Neck Line Alterations** a) Tight & too Loose Necking b) Large Necking	03		1:4 scale size Actual Alterations should be experimented for Neck Line Alterations, Shoulder Alterations, Bust Alterations, Back Alterations, Armhole & Sleeve Alterations, Protruding Hip Bones,

	c) Gaping Necking d) Large Neckline e) Gaping Neckline **C)Shoulder Alterations** a) Sloping b) Square c) Narrow d) Broad Shoulders **D) Bust Alterations** a) Hollow b) Pigeon Bust c) High Bust d) Low Bust e) Large Cup f) Small Cup **E) Back Alterations** a) Broad b) Narrow c) Round d) Erect Back **F) Armhole & Sleeve Alterations** a) High or Tight Armholes b) Gaping Armhole c) Sleeve too Tight (Large Elbows) d) Too Loose (Heavy Upper Arm) e) Sleeve Cap Rise. **G) Protruding Hip Bones** (For Skirts only) a) one High Hip b) Sway Back			Derriere Alterations, Pant Adjustments (Basic Pattern Set).

9/4

	H) Derriere Alterations a) Round or Flat Derriere b)Sway Back **I)Pant Adjustments** a) Basic Alterations for Length and Depth of Crotch b) Round or Flat Derriere c) Smiles and Frowns on pants Large Abdomen.			
7	**Grading** a) Introduction to Grading b) General Principles c) Practical Principles d) Importance of Computer in Grading e) Sizing Development f) Basic Grading Applications on the following - The Basic Front & Back, Sleeve and Collars, Basic Skirt, Shirt and Trouser.	03		Grading for basic patterns in full scale is expected, of theory contents.

Reference Books

Author	Title	Publisher
Gerry Cooklin	Pattern Grading for Children's Clothes	Mazaton Book Ltd. Oxford
Gerry Cooklin	Pattern Grading for Mens Clothes	Blackwell
Gerry Cooklin	Master Pattern Grading for Women's Outerwear	Book Base Ltd.
Aldrich Winifred	Pattern Grading for Women's Tailored Jacket	O Book

Learning Resources - Books, Dress Forms, Magazines, LCD, Size chart etc.

8/4

Instructional Strategy-

Sr. No	Topic	Instructional Strategy
1.	Introduction to Figure types & its key Measurements	Theoretical Treatment
2.	Introduction to General Abnormalities	Theoretical treatment
3.	Importance of Good Fit	Theoretical treatment
4	Introduction to Pattern Alteration	Theoretical +Practical treatment
5	Basic Pattern Alteration	Theoretical +Practical treatment
6.	Advance Alteration	Theoretical +Practical treatment
7	Grading	Theoretical +Practical treatment

Prepared by

Mrs. U.A.Sapnaikar
Lecturer in DDGM

Member Secretary (PBOS)

Chairman (PBOS) D.D.G.M

Name of Programme : Dress Designing and Garment Manufacturing
Programme Code : 01/02/03/04/05/06/07/08

Name of Course : World Dress

Course Code : DD443

Teaching Scheme-

	Hours / Week	Total Hours
Theory	3	48
Term Work/Practical	0	--

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	Three Class Tests of 60 Mins. Duration	2Hrs	--	--	--
Marks	10	40	--	--	--

Course Aim-
This course provides knowledge and study of diversity in folk costumes through out the world & how clothing evolved, changes and adapts to culture. It gives insight about costumes in different country and also gives glimpse of their taste.

Course Objective - students will be able to-

- Acquire knowledge about traditional wear of different nations and historical costumes they used.
- Study the diversity of folk costumes though out the world.

Course content -

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
1	**Scotland** a) The kilt (As worn at special gatherings as a Highland Dress) b) Knowledge of TARTAN	04	04	
2	**Hawaii** a) Knowledge of Tapa (prints) b) Muu-Muu Costume c) Aloha Shirts (Hawaii Shirts)	04	05	
3	**Indonesia** a) Kebaya b) Kain c) Stagen d) Salendang	05	06	
4	**China** **A)**Knowledge of certain Myths	08	06	

	and Symbols a) The Phoenix b) The Dragon c) The Unicorn **B) Modern Day China** a) The Cheongsam b) Knowledge of Make up and typical Hair Styling used differently for young and married Woman c) The costume of Manchu Women			
5	**Japan** a)Garments worn by Royalty and Common Man's attire b) Kimono as worn in its different forms Junihitoe , Kosode, Furisode (Kimono as worn by samurai) ,kamishimo c) Japanese Bridal attire d) knowledge of Under Clothes for creating the smooth foundation of Kimono e) Hadajuban , Susoyoke Date-Eri, knowledge of OBI or Sash and Haori Cloth	08	06	
6	**Egypt** a)Men's clothing - Lion cloth , Kilt , Corselet , Schenti (1425-1405 BC) , Pharaohs,Haik Shendot b) Women's clothing : GALA kalasiris c) Body decoration -Tattooing d) Ancient Egypt Accessories -Head Wear , Foot Wear	08	05	
7	**Rome & Greece** A) Roman Clothing – Toga, Tunica, Palla, Lacerna, Sabligaculum a) Women's clothing- Feminalia, stola b) Roman Military Costume B) Greece (3000 BC) (Ancient motives) a) Greek key, Olive fruit,Corin Thain Leaf, Aegean Wave b) 6th BC- Doric Chiton , Tunic , Ionic , Chlamys C)Dressing in 1970, Dressing in 1980, Dressing in 1990	11	08	

11/4

Reference Books

Author	Title	Publisher
Frances Kennetle	World Dress	
James Lever	World Costume	
Sara Pendergast & Tom Pendergast	Fashion, Costume & Culture	Thomson
Laver James	Costume & Fashion Concise History	Thomas & Hudson
Dareen Yarwood	The Encyclopedia of World Costume	Dover Publication New York
Sarah Levitt	History of 20th Century Fashion	Dover Publication New York

Learning Resources - Books, Magazines etc.

Specification Table-

S.N.	Topic	Knowledge	Comprehension	Application	Total
1.	Scotland	02	01	01	04
2.	Hawaii	02	01	02	05
3.	Indonesia	03	01	02	06
4	China	03	01	02	06
5	Japan	03	01	02	06
6	Fgypt	02	01	02	05
7	Rome & Greece	04	02	02	08

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1.	Scotland	Theoretical treatment
2.	Hawali	Theoretical treatment
3.	Indonesia	Theoretical treatment
4.	China	Theoretical treatment
5.	Japan	Theoretical treatment
6.	Egypt	Theoretical treatment
7.	Rome & Greece	Theoretical treatment

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Name of Programme : Dress Designing and Garment Manufacturing
Programme Code : 01/02/03/04/05/06/07/08

Name of Course : Fashion Art & Illustration -I

Course Code : DD444

Teaching Scheme-

	Hours / Week	Total Hours
Theory	0	--
Term Work/Practical	6	96

Evaluation:

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--	--	--	--
Marks	--	--	100	--	100

Course Aim-

This course explores the creativity by manually drawing different poses with proportion and show how to draw the figure from different angles including many stylized poses, which provides the knowledge of presenting the ideas through different Medias such as pencil, charcoal, ink, collage etc. Students are taught different ways of presenting ideas with sketching and to produce working drawing suitable for pattern development and illustration. It explores the use of templates, sources in developing the composition of an illustration.

Course Objective- Students will be able to-

- Know relation between proportion and costume while doing designing.
- Build up confidence by illustrating figure from different angles such as stylized poses, action poses, weight distribution of figure etc.
- Produce quick sketches when developing new ideas and when presenting a collection.
- Experimenting with new material to achieve different effects.
- Build up the ability of designing outfit as per the theme & profession giving suitable accessories.

13/4

Course content -

Sr. No	Topic/Subtopic	Hours	Weight age	Practical
1				**Dress up of Croquies** A) Relation between Proportion and Costume B) Dress up of Croquies by using different Media Techniques - Pencil, Ink, Charcoal, Water color, Pastel, Gouache Ink, Oil Colors, Mixed techniques etc. C) Design following Wears by using above media techniques. Lingerie, Casual Wear, Evening Wear, Bridal Wear, Sports Wear, Beach Wear, Office Wear (Page Composition, Optical illusion) D) Adorn with suitable Accessories (At least 10 sketches, should be cover all Media Techniques mention above)
2				A) **Draping on to Dummies- Live Drawing** Fabric study of different materials on dummy to understand draping of different fabrics. B) Use of Focusing Techniques in Costume.
3				**Basic Wardrobe Planning for Different Occupation or Profession** a) Requirement b) Fabric c) Accessories
4				**Story board & Mood board** a) Presentation of a collection. Mood Board development as per the Source of Inspiration & Concept. b) Developing a range- based on Story Board & Mood Board.

Note- Technical drawing or Flat Sketches of patterns & showing Construction details are necessary to all.

Reference Books

Author	Title	Publisher
Patrick John Irreland	Fashion design Illustration Women	Om Book International
Patrick John Irchland	Fashion Design Illustration Children	Om Book International
Patrick John Irland	Introduction to Fashion Design	
Allen A	Fashion Drawing	Om Book
John Irland	Fashion Design Drawing and Presentation	Om Book
Kojiro Kumagai	Children's Fashion Illustration	
	www.fashion_templates.com/about/technical	
MCKEL	Illustration Fashion	Black Well
Nancy Rielgelman	9 heads	9 heads Media
Kinnidy	Pucci Renaiance in Fashion	kennedy

Learning Resources- Books, Magazines, Photographs, LCD etc.

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1	Dress up of croquies	Practical treatment
2	Live Drawing	Practical treatment
3	Basic Wardrobe Planning	Practical treatment
4	Story Board & Mood Board	Practical treatment

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15/4

Name of Programme : Dress Designing and Garment Manufacturing
Programme Code : 01/02/03/04/05/06/07/08

Name of Course : Fashion Art & Illustration -II

Course Code : DD445

Teaching Scheme-

	Hours / Week	Total Hours
Theory	0	--
Term Work/Practical	5	80

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--	--	--	--
Marks	--	--	100	--	100

Course Aim-
The course provides the visualization of innovative ideas, the concept from fabric to costume & presentation technique to give an accurate impression. It helps to bring out unique characteristics of designing in order to create attractive Fashion illustration.

Course Objectives- Students will be able to -

- Apply the knowledge of Visual illusion, using cuts in clothing by using color & texture.
- Interpret weird ideas through storyboard & focusing technique in vast spectrum of color to illustrate changing fashion better.
- Build up the ability of designing outfit as per the figure types given.

Course content -

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
1				A)**Visual Illusion** Figure types, Figure problems & how to correct them by creating visual illusion (considering Figure types & Figure problems) B)**Creating Illusion by using Color & Texture**
2				**Design following Wears** Design Ramp Wear collection for male & female.

				& female.
3				**Story Board** a) Select a Theme for Story board & Mood board b) Use different Collages for it. Note - Storyboard should be prepared by considering Color forecasting.

Note- Technical drawing or Flat Sketches of patterns & showing Construction details are necessary to all.

Reference Books

Author	Title	Publisher
Patrick John Ireland	Fashion Design Drawing and Presentation	Om Book International
Bina Abling	Advanced Fashion Sketch Book	Om Book International
Elisabetta Draudi, Tiziana Paci	Figure Drawing for Fashion Figure	
Patric John Ireland	Fashion Design Illustration	Om Book International
MCKEL	Illustration Fashion	Black Well
Nancy R	9 heads	9 heads Media
Kinnidy	Pucci Renaiance in Fashion	kennedy
	Colors for Modern Fashion	9 heads Media

Learning Resources- Books, Material, Magazines, ,and Photographs etc.

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1	Visual Illusion	Practical Treatment
2	Use of Focusing Techniques in Costume	Practical Treatment
3	Design Ramp Wears	Practical Treatment
4	Story Board	Practical Treatment

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Name of Programme : Dress Designing and Garment Manufacturing
Programme Code : 01/02/03/04/05/06/07/08

Name of Course : Fashion Merchandising.

Course Code : DD446

Teaching Scheme-

	Hours / Week	Total Hours
Theory	4	64
Term Work/Practical	0	00

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	Three class Tests of 60 Mins. Duration	--	--	--	--
Marks	10	40	--	--	--

Course Aim-

The course fashion merchandizing practice gives information about the responsibilities of fashion buying and merchandizing & also provides guidelines for effective fashion buying and merchandizing practice. The course stimulates the interest and encourage regarding the profession in order to obtain broader point of view. It prepares students to enter the fashion business with knowledge of concepts and practices of the different levels of the fashion business.

Course objective- Student will be able to-

- Introduce various fashion terminologies, examine the components of fashion and explain why fashion is always subject to change.
- Explore the manner in which economic, sociological, and psychological factors influence fashion demand.
- Understand the rhythmic changes in silhouette, the cyclical movement of fashion and predict the fashion trends with relative accuracy.
- Explain how fashion starts the role and responsibility of designer's, manufacturers and retailers and the major theories in relation to fashion adaptation.

- Explore the scope of the fashion business organization and allows the students to investigate the different forms of business structure.
- Discuss the current polices and procedures in fashion buying and merchandizing and motivates sales promotion activities for promotional events of merchandizing.
- Select the various resources for buying merchandize available in foreign as well as domestic markets.

Course Content-

Sr. No	Topic/Subtopic	Hours	Weight age	Practical
1	**The Nature of Fashion** a)The terminology of fashion- Fad, Style, Design, Classic etc. b)Definition of Fashion c) Intangibles of fashion- Time, Place, Acceptance and Change d)Principles of fashion	08	06	
2	**The Environment of Fashion** A) Demographic and Psychographics B)The degree of Economic Development of a Country or Society (Technology advances) C)The Sociological characteristics of the class structure D)The Psychological attitudes of the consumers E)Effect of wars, Disasters and Crises on fashion	08	06	
3	**The Movement of Fashion** a) The Cycling of fashion or Trickle down theory b) The stages of Fashion Cycle c) Lengths of Fashion Cycle d) Breaks in the Fashion Cycle e) Long and short run fashion f) Consumer buying and the Fashion Cycle g) Factors influencing Fashion Cycle h) Accelerating factors i) Retarding factors	10	06	
4	**The Leaders of Fashion** a) Birth of a fashion	10	08	

	b)The Designers role c) Manufacturers role d) Retailers role e)Theories of fashion adopting and implications for merchandizing f) Downward Flow theory g) Horizontal Flow theory h)Upward Flow theory i) Fashion and Self expression.			
5	A) **The Business of Fashion** a) Economic importance of the fashion business b) Scope of the fashion business and its levels a. Primary level b. Secondary level c. Retail level d. Auxiliary level B) Forms of business ownership, its advantages and disadvantages. a. The Sole proprietorship b. The Partnership c. The Corporation d. The Franchise	10	05	
6	**Fashion Promotion Mix.** A) Marketing, Retailing, Merchandizing & Buying B) The Market Segmentation process C) Importance of merchandizing D) Steps a buyer follows in fashion merchandizing E) Sales Promotion a. Advertising and its medias b. Publicity c. Displays and Types of Displays d. Visual Merchandizing F) Practice of Merchandizing a. Wholesale level b. Retail level c. Publication level	08	04	
7	**Selection of Resources for Fashion Buying** A) Suppliers of Fashion Goods B) Methods of Obtaining Domestic Merchandize C) Method of Obtaining Foreign Merchandize D) Domestic manufacturers versus Foreign manufacturer E) Criteria for selection of Resources F) Developing a Fashion Image	10	05	

Note - Arrange Fieldtrips, Group Discussions, Individual Projects, and Market Research etc.

Reference Books

Author	Title	Publisher
Sidney Packard	Fashion Buying and Merchandizing	
Diamond J	Retail Buying	
Calasibetta C.	Fairchild Dictionary of Fashion	Om Book
Goworek Helen	Fashon Buying	Black Well
Easey Mike	Fashion Marketing	Annces Puls London
Frings Gini Stephens	Fashion from Concept to Consumer	Worth's N.J.
Donnellan John	Merchandise Buying & Management	Black Well

Learning Resources - Books, Magazines, and LCD etc.

Specification Table-

S.N	Topic	Knowledge	Comprehension	Application	Total
1.	The Nature of Fashion	04	01	01	06
2.	The Environment of Fashion	04	01	01	06
3.	The Movement of Fashion	04	01	01	06
4	The Leaders of Fashion	04	02	02	08
5	The Business of Fashion	01	03	01	05
6	Fashion Promotion Mix	02	01	01	04
7	Selection of Resources for Buying Fashion Merchandizing	01	03	01	05

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1.	The nature of Fashion	Theoretical treatment
2.	The Environment of Fashion	Theoretical treatment
3.	The movement of Fashion	Theoretical treatment
4	The leaders of Fashion	Theoretical treatment
5	The business of Fashion	Theoretical treatment
6.	Fashion Promotion Mix	Theoretical treatment
7.	Selection of Resources for Buying Fashion Merchandizing	Theoretical treatment

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Level - V

Applied Technology Courses
(All Compulsory)

Students Admitted in 2007

Course Code	Course Title
DD541	Project & Seminar
DD542	Computer Aided Designing
DD543	Pattern Making & Apparel Construction - III
DD544	Creative Fashion Presentation
DD545	Portfolio Development
DD546	Indian Embroidery
DD547	Apparel Management

Level - V

Applied Technology Courses

(All Compulsory)

Students Admitted in 2008 & onwards & Path Transfer Cases

Course Code	Course Title
DD541	Project & Seminar
DD542	Computer Aided Designing
DD543	Pattern Making & Apparel Construction - III
DD544	Creative Fashion Presentation
DD548	Portfolio Development
DD549	Indian Embroidery
DD550	Apparel Management

Name of Programme : **Dress Designing & Garment Manufacturing**

Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Project & Seminar**

Course Code : **DD541**

Teaching Scheme-

	Hours/Week	Total Hours
Theory	00	00
Term Work /Practical	08	128

Evaluation –

	Progressive Assessment	Theory	Practical	Oral	Term Work
Duration	--	--	--	--	--
Marks	50	--	--	50	50

Course Aim- This Course Provides professional guidelines for the research oriented study of the designing & manufacturing field.

Course Objective- students will be able to -

- Find out apparel industry problems & needs
- solve the problems by doing study & research work.

Course Content -

Sr. No	Topic/ Subtopic
1	1.The student shall take up suitable project, may be of the following nature - • Pattern Making • Apparel Construction/ Production • Illustration/ Designing • Draping • Grading • Pattern Alteration • Textile • Merchandising/ Management • Surface Ornamentation etc.
2	The subject for the project should be approved by project guide/HOD/ Sponsoring agency.
3	Group of maximum **four** is allowed. The separate module of the complete project is to be submitted by each student.
4	One copy should be submitted to the department.(Should be typed & computer output sheets attached)
5	Students should plan project completion, seminar, presentations with audio visual & power point presentation.

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Name of Programme : **Dress Designing and Garment Manufacturing**
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Computer Aided Design**

Course Code : **DD 542**

Teaching Scheme

	Hours / Week	Total Hours
Theory	1	16
Term Work/Practical	3	48

Evaluation

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--	--	--	--
Marks	--	--	100	--	100

Course Aim –
As in every field, use of computer has revolutionized working methods in garment designing. Ease, speed, accuracy, swift transfer of designs and inexhaustible options has put designing on a different level altogether.
Software such as Fashion Studio has features that include major skills required by a professional in the Industry. From designing new prints to analyze fabric behavior & computerized portfolio making, this software teaches major requirements of a Fashion professional.
Course Objectives - students will be able to-

- Use the various features & tools of 3 D Textile & Fashion Design Studio to prepare new prints, combinations & patterns.
- Know computerized designing techniques to prepare portfolio.

Course content -

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
1	Different types of tools used for Material Creation Studio a) Woven Design b) Knitting & Texture Design c) Scanned Fabric Adjusting d) Mirror Design e) Pattern Design f)Texture, Lace, Trace Making g)Output Negative h) Hollow, Various Special Pens.	08		**Material Creation Studio** Five assignments based on material creation studio with flat sketches. Creating mood board, storyboard, using fashion CAD, Corel-draw and Photoshop.

2	Different types of tools used for Pattern Design System.	08		**Advanced Drafting tools without using a Digitizer.** a) Graded sizes b) Add & adjust seam modes or seam allowance.

Reference Books

Author	Title	Publisher
Expert View	CAD in Clothing & Textile	Book Base Ltd. Bombay
Sangal Rajeev	LISP Programming	N.Delhi
Beazley Alison	Computer Aided Pattern Design & Production	Blackwell

Learning Resources - Computer, Internet, Books etc.

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1.	Different types of tools used for Material Creation Studio	Theoretical + Practical treatment
2.	Different types of tools used for Pattern Design System.	Theoretical + Practical treatment

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Name of Programme : Dress Designing and Garment Manufacturing
Programme Code : 01/02/03/04/05/06/07/08

Name of Course : Pattern Making & Apparel Construction- II

Course Code : DD 543

Teaching Scheme-

	Hours / Week	Total Hours
Theory	2	32
Term Work/Practical	6	96

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--	--	--	--
Marks	--	--	100	--	100

Course Aim- This course provides the students to dare for most exciting changes in shapes & lines which will lead to creative decision allied to sound reasoning of stylized western line garments especially for men & Women.
As well as for garment construction by using different techniques to evaluate fitting appearance of garment with correct notions and supplies.

Course Objective- The students will be able to -

- Select appropriate materials suitable for the garment.
- Know how to cut garment by doing economical layout.
- Incorporate special seams and seam finishes in an outfit.
- Add finishing touch and estimate the price of garment.

Course content -

Sr. No	Topic/Subtopic	Hours	Weight age	Practical
1	**Drafting of Lingerie Block**	06		Cut & Stitch following patterns **Lingerie Block** a)Camisole Top
2	**Drafting of Strapless Top & Halter Top**	04		(Any One) a)**Strapless Top** b)Halter Top
3	**Drafting of Trouser Block** a)Gents Block b)Ladies Block	08		**Trouser Bock** (Any One) a)Gents Block b)Ladies Block

4	**Drafting of Jeans Block** a)Gents Block b)Ladies Block	08		**Jeans Block**-(Any One) a)Gents Block b)Ladies Block
5	A)**Drafting of T-shirt** with Raglan Sleeve & Polo collar B)Casual T-shirt	06		(Any one) A)**T-shirt** with Raglan Sleeve & Polo Collar B)Casual T-shirt

Reference Books

Author	Title	Publisher
Anna Jacob Thomas	Art of Sewing	Nrendra Kalyania Bombay
Aldrich W	Metric Pattern Cutting	Blackwell
Agnes Warburton	Dress Making in Picture	Batsford London
Jan eaten	Encyclopedia of Sewing Techniques	
Reader's Digest	Complete guide to Sewing	Reader's Digest
Rockport	Great T Shirt Graphics	Om Book Service Delhi
Bray N	Dress Fitting Basic Principles & Practice	Blackwell

Learning Resources - Books, Dress Forms, Magazines, Size chart etc.

Instructional Strategy-

Sr. No	Topic	Instructional Strategy
1.	Drafting of Lingerie Block	Theoretical +Practical treatment
2.	Drafting of Strapless Top & Halter Top	Theoretical +Practical treatment
3.	Drafting of Trouser Block	Theoretical +Practical treatment
4.	Drafting of Jens Block	Theoretical +Practical treatment
5	Drafting of T-shirt	Theoretical +Practical treatment

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7/5

Name of Programme :**Dress Designing and Garment Manufacturing**

Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Creative Fashion Presentation**

Course Code : **DD544**

Teaching Scheme

	Hours / Week	Total Hours
Theory	3	48
Term Work/Practical	5	80

Evaluation

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	Three class tests of 60 Mins duration	3Hrs	--	--	--
Marks	20	80	--	--	50

Course Aim-

This course provides knowledge of creative fashion presentations, conceived with an overtone of innovation using show-biz techniques and the entire spectrum of creative productions-seminars, programs and special events utilized by the fashion industry to capture the attention of specific market and audiences.

Course Objective- students will be able to-

- Gain knowledge of producing creative events and displays, which will leave long lasting impression.
- Acquire the techniques and professional methods for producing finely tuned and effectively co-ordinate runway fashion shows.
- Plot out creative fashion presentations and product development.

Course content- **Section -I**

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
1	**Introduction to Creative Fashion Presentation** A. Elements of Creative Presentation a) Sources of Inspiration b) Observational Research c) Past History, Technology d) Color forecasting e) Services of Fashion Forecasting firms B. The Fashion Director a) Role of fashion director b) Market Research c) Professionalism d) Fashion Shows e) Public Relations f) Advertising g) Responsibilities of Fashion Director h)Freelance Fashion Consultants	10	16	Five –Theme based collections to be designed by students.
2	**Types of Creative Fashion Presentations** a) Continuous Informal Modeling b) Still Life -Tableau c) In-house Fashion Shows d) Industry fashion show e) Market Week Shows f) Market Week Calendars g) Trade Event	08	12	
3	**Introduction to Fashion Show** a) Aim of fashion show b) Types of fashion shows c) Trunk shows d) Informal Modeling e) The Formal Show f) In-store Fashion Shows g) Bridal Fashion Shows h) Charity Shows	06	12	

Course content- **Section - II**

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
4	**Fashion Show Scheduling** a) Invitations and mailing b) Location choices c) Working with the Fashion Show producer d) The Runway e) The Garment Line up	08	10	Garments of any one theme based collection have to be embellished, which the students will design & then cut & stitch garments.
5	**Organizing the Show** a) Polaroid the Garments b) The Show Chart c) Accessorizing with Props d) Model Selection Fitting e) Alterations, Backstage Captain f) Rehearsal g) Trade and Public Relations & Publicity h)The Fashion Directors Check List	08	15	
6	**Special Events, Promotions and Displays** a) The couture b) Steps in Launching a New Product c) Fashion Trend Reporting d) Fashion Trend Setters e) Fashion Forecasting f) Window Display	08	15	

Reference Books

Author	Title	Publisher
Doly Guerin	Creative Fashion Presentation	Marshall N.Y.
Mike Easey	Fashion Marketing	Blackwell
Frings Gini Stephens	Fashion from Concept to Consumer	Worths N.J.
Packred Sideny	Fashion Buying & Merchandising	Fairchild
Winter Arthur	Fashion Advertising & Promotions	Fairchild

Learning Resources- Books, CD, and LCD, Magazines, Market Survey etc.

Specification Table -

S. N.	Topic	Knowledge	Comprehension	Application	Total
1	**Section-I** Introduction to Creative Fashion Presentation	06	05	05	16
2	Types of Creative Fashion Presentations	04	04	04	12
3	Introduction to Fashion Show	04	04	04	12
4	**Section-II** Fashion Show Scheduling	02	04	04	10
5	Organizing the Show	05	05	05	15
6	Special Events, Promotions and Displays	05	05	05	15

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1	**Section-I** Introduction to Creative Fashion Presentation	Theoretical + practical treatment
2	Types of Creative Fashion Presentations	Theoretical
3	Introduction to Fashion Show	Theoretical + practical treatment
4	**Section-II** Fashion Show Scheduling	Theoretical + practical treatment
5	Organizing the Show	Theoretical + practical treatment
6	Special Events, Promotions and Displays	Theoretical + practical treatment

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Learning Resources- Books, CD, and LCD, Magazines, Market Survey etc.

Specification Table -

S. N.	Topic	Knowledge	Comprehension	Application	Total
1	**Section-I** Introduction to Creative Fashion Presentation	06	05	05	16
2	Types of Creative Fashion Presentations	04	04	04	12
3	Introduction to Fashion Show	04	04	04	12
4	**Section-II** Fashion Show Scheduling	02	04	04	10
5	Organizing the Show	05	05	05	15
6	Special Events, Promotions and Displays	05	05	05	15

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1	**Section-I** Introduction to Creative Fashion Presentation	Theoretical + practical treatment
2	Types of Creative Fashion Presentations	Theoretical
3	Introduction to Fashion Show	Theoretical + practical treatment
4	**Section-II** Fashion Show Scheduling	Theoretical + practical treatment
5	Organizing the Show	Theoretical + practical treatment
6	Special Events, Promotions and Displays	Theoretical + practical treatment

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Name of Programme : **Dress Designing and Garment Manufacturing**
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Portfolio Development**

Course Code : **DD 545**

Teaching Scheme

	Hours / Week	Total Hours
Theory	0	00
Term Work/Practical	4	64

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--	--	--	--
Marks	--	--	100	--	100

Course Aim-

To enable the student to develop a process of client identification with the help of market research .It promotes design process, exercise and then executes a portfolio.

Course Objective- students will be able to-

- Use various principles of designing & prepare a portfolio.
- Know color schemes, texture so that they can use it while design a collection.
- Understand needs, lifestyle of customer, which will help them to prepare the portfolio of a client.

Course content -

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
1				Collection of at least 6 garments for a client
2				Collection of at least 6 garments for a store
3				Collection of at least 6 garments for a fashion show
4				Collection of at least 6 garments for an exhibition
5				Collection of at least 6 garments for stage Event
6				Collection of at least 6 garments for movies, T.V. shows etc.

Reference Books

Author	Title	Publisher
Patrick John Ireland	Fashion Design Illustration Women	London Bats ford
John Ireland	Fashion Design Drawing and Presentation	Om Book
MCKEL	Illustration Fashion	Blackwell
Nancy Rielgelman	9 heads	9 Heads Media
	www.templates_fashion_illustration_design/dp/	
Mckelvey	Fashion Design Process Innovation & Practice	Blackwell
Odaniel G	Handbook of Costume Drawing	Elsevier India Pvt.Ltd

Learning Resources - Books, Magazines, LCD, and CDs etc.

Instructional Strategy-

Sr. No	Topic	Instructional Strategy
1.	To understand how to create fashion for a specific requirement.	Practical treatment
2.	Client Profile, Market Research etc.	Practical treatment

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Name of Programme : **Dress Designing and Garment Manufacturing**
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Indian Embroidery**

Course Code : **DD 546**

Teaching Scheme:

	Hours / Week	Total Hours
Theory	3	48
Term Work/Practical	4	64

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	Three Class Tests of 60 Mins Duration	2Hrs	--	--	--
Marks	10	40	50	--	50

Course Aim-

The traditional work produced in each state has its own distinctive character and an aura which posses' heritage of Indian regional embroidery. This course contains the most detail analysis of Indian regional embroidery giving a comprehensive guide to color, motifs, fabric used together with their origin & information about they have evolved.

Course Objective- students will be able to -

- Understand the different types of traditional embroideries found in India.
- Gain an insight in to the final details of embroidery from all states.
- Use the embroidery in more versatile & contemporary style to suit to today's fashion.
- Apply these embroideries to embellish various garments.
-

Course content -

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
1	A) **History of Indian Regional Embroidery** B) Embroidery Material and Techniques.	02	02	Demonstration of Each stitch mentioned in theory content & preparing sample.

15/5

2	**Kasuti of Karnataka** a) Origin and History of Embroidery b) Characteristics of Stitches used in Embroidery c) Study of Traditional Motifs and Design d) Inspiration and Working Styles.	04	04	**Kasuti of Karnataka**
3	**Phulkari of Punjab** a)Origin and Importance of Phulkari b) Characteristics of Stitches used in Embroidery , Working styles c) Study of fabric, Thread, Colors & Motifs d) Difference between Phulkari & Bagh e) Inspiration and Working Styles.	06	04	**Phulkari of Punjab**
4	**Manipuri of Manipur** a)Origin and history of Embroidery b)Stitches employed for making an article c) Study of Fabric, Thread, Colors. d) Working Style of Embroidery. e) Inspiration and Theme work.	04	04	**Manipuri of Manipur**
5	**Kashida of Kashmir** a)Origin of Kashida d) Types of Motives used c) Color, Fabric, Threads used b) Stitches employed f) Inspiration and Theme of work e) Types of Shawls	06	06	**Kashida of Kashmir**
6	**Patchwork of Bihar** a) Origin of Patch Work b) Design and Motif used for	04	04	**Patchwork of Bihar**

16/5

	Patch-Work b) Distinct Types of Patchwork d) Use of Embroidery for making Article			
7	**Kantha of Bengal** a) History and origin of kantha b) Material, Stitches and Color used c) Motifs and Designs used in Kantha d)Stages involve in kantha making e) Types of kantha	06	04	**Kantha of Bengal**
8	**Chikankari of Uttar Pradesh** a)Introduction and origin of chikankari b) Motifs and Designs of Chikankari c) Stitches used in Chikankari d) Types of Chikankari e) Introduction to Ari- work	06	04	**Chikankari of Uttar Pradesh**
9	**A) Sindh, Kutch and Kathiawar** a)Introduction to embroideries of Sindh, Kutch and Kathiwar b) Stitches used for embroidery c) Motifs and Designs used d) Articles embroidered **B) Bharat** a) Abla Bharat b) Heer Bharat c) Mochi Bharat d) Beed work e) Appliqué work f) Sindhi Torapa	06	04	**Sindh, Kutch and Kathiawar**
10	**Chamba Rumal – Himachal Pradesh** a)Origin and importance of embroidery	04	04	**Chamba Rumal**

	b) Designs and motifs employed in rumal c) Stitches, Color, Fabric used for embroidery d)Article embroidery			

Note – Prepare an article (any one) by using state wise embroidery stitches. Visit to various Embroidery Exhibition.

Reference Books

Author	Title	Publisher
Anne Williams	The Batsford embroidery course	Blackwell
McCalls	McCalls Needle Work Treasury	Random House
Rustam Z. Mehta	Master piece of India textile	
Julia Barton	Needle Work	Merehurst Ltd. London
Nirmala Mistry	Embroidery Designs	Prices Street Bombay
Amanda O' Neil	Needle Work & Sewing Technique	London Crange Books
Kumar P	Artistic Embroidery Designs	Indica
Khan M.J	Indian- Embroidery Ethics & Beyond	

Learning Resources - Books, Magazines, Embroidery pieces, etc.

Specification Table-

S.N.	Topic	Knowledge	Comprehension	Application	Total
1.	History of Indian regional	01	01	--	02
2.	Kasuti of Karnataka	01	01	02	04
3.	Phulkari of Punjab	01	01	02	04
4	Manipuri of Manipur	01	01	02	04
5	Kashida of Kashmir	01	02	03	06
6	Patchwork of Bihar	01	01	02	04
7	Kantha of Bangal	01	01	02	04
8	Chikankari of Uttar Pradesh	01	01	02	04
9	Sindh, Kutch and Kathiawar	01	01	02	04
10	Chamba rumal-Himachal Pradesh	01	01	02	04

Instructional Strategy

18/5

Sr.No	Topic	Instructional Strategy
1.	History of Indian regional	Theoretical + Practical treatment
2.	Kasuti of Karnataka	Theoretical + Practical treatment
3.	Phulkari of Punjab	Theoretical + Practical treatment
4.	Manipuri of Manipur	Theoretical + Practical treatment
5.	Kashida of Kashmir	Theoretical + Practical treatment
6.	Patchwork of Bihar & Kashida of Bihar	Theoretical + Practical treatment
7.	Kantha of Bangal	Theoretical + Practical treatment
8.	Chikankari of Uttar Pradesh	Theoretical + Practical treatment
9.	Sindh, Kutch and Kathiawar	Theoretical + Practical treatment
10.	Chamba Rumal-Himachal Pradesh	Theoretical + Practical treatment

Prepared by

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Name of Programme : **Dress Designing and Garment Manufacturing**
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Apparel Management**

Course Code : **DD547**

Teaching Scheme-

	Hours / Week	Total Hours
Theory	3	48
Term Work/Practical	0	--

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	Three Class Tests of 60Mins Duration	2Hrs	--	--	--
Marks	10	40	--	--	--

Course Aim-
This course provides an introductory view of the managerial and technical factors which influence the day to day operation of a clothing factory. The course makes aware the students about the dramatic role of the fashion which changes frequently and guides to reconcile the conflicting requirements of the market and its manufacturing facilities in order to stay in business.

Course Objective- student will be able to -

- Introduce the process, the structure, the technological environment of the apparel product development.
- Develop skills in the managerial ability of the organization of a clothing industry.
- Bifurcate various departments working together to run the activities of apparel product development such as design department, marketing department, finance department, purchasing department, production department & operation department.
- Explore the ideas and views about forecasting, fashion trends, price structure, designing, collection, planning, pattern making, grading and producing a sample garment to work in the department of designing in a clothing industry.
- Acquire the skill of marketing by getting introduced to various managerial task of marketing such as pricing distributing the product, selling, sales forecasting and budgeting.

- Explore the manner in which production functions are operated such as product manufacturing function, service functions, production engineering, personnel and training, machinery and equipment maintenance, general maintenance, store, production planning and control, budgetary control.
- Give the importance of quality and can control the system to assure the required quality.

Course content -

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
1	A) The Process and the Structure of the Apparel Industry a) Structure b)Technological Environment of Product development c) The process of product development	03	03	
2	**The Organization of a Clothing Industry** a) Principles of Management b) Definition of Management c) Functions of Management Planning, Organizing, Staffing, Direction, Control.	05	04	
3	**Design Department** a) Forecasting b) Fashion Trends c) Price Structure d) Designing e)Collection f) Planning g) pattern Making h) Production of Sample Garment i) Pattern Grading.	06	04	
4	**Marketing Department** a) Definition of Marketing Management b) Marketing calendar c) Product Pricing d) Price Evaluation e) Product Planning f) Customers g) Distribution h) Selling i)Sales Forecasting	06	04	

5	**Finance Department** a) Definition of Finance Management b)Functions of the Finance Department c)Providing Management Information d) Budgeting e)Garment Costing Administration	04	06	
6	**Purchasing Department** a) Objective of the Purchase Department b) Function of the Purchase Department c) Information of Suppliers d) Prices e) Progressing f) Verification g) Speculative buying h) Store keeping i) Stock management j) Purchase order.	06	06	
7	**Production Department** a) Objective and Functions of the Production department. b) Manufacturing Functions c) Service Functions d) Production Engineering e) Personnel and Training f) Machinery and Equipment Maintenance g) General Maintenance h) Technical Stores i) Control Functions j) Production Planning and Control h) Budgetary Control	06	05	
8	**Operations Department** a) Company calendar b) Pre production planning and control c) Order Concentration d) The Production order e) Production Planning and Control f) Marker and cut Planning g) Marker planning h) Cutting Room Production Planning i) Control Procedures	06	04	
9	**Principles of Quality Control** a) Concept of Quality b) The Quality Department c) Quality Audit d) Quality Circles e) Quality monitor g) Operation of Quality Control h) System Standards.	06	04	

Reference Books

Author	Title	Publisher
Gerry Cooklin	Introduction to Clothing Manufacture	Hartniolls Ltd. Cornwadl
Jones Richard M.	Apparel Industry	
Harold Carr-John Pomeroy	Fashion Design & Product Development	
Chuter A.J.	Introduction to Clothing Production Management	London BSP pro Books
Diamond Jay	Retail Buying	
Devid J. Tyles	Material Management in Clothing Production	Book Base Ltd.

Learning Resources: - Books, Magazines, Journals LCD, etc.

Instructional Strategy-

Sr.No	Topic	Instructional Strategy
1.	The process and the Structure of the Apparel Industry	Theoretical treatment
2.	The Organization of a Clothing industry	Theoretical treatment
3.	Design Department	Theoretical treatment
4.	Marketing Department	Theoretical treatment
5.	Finance Department	Theoretical treatment
6.	Purchasing Department	Theoretical treatment
7.	Production Department	Theoretical treatment
8.	Operations Department	Theoretical treatment
9.	Principles of Quality Control	Theoretical treatment

2.3/15

Specification Table-

S.N.	Topic	Knowledge	Comprehension	Application	Total
1.	The Process and the Structure of the Apparel Industry	01	01	01	03
2.	The Organization of a Clothing Industry	02	01	01	04
3.	Design Department	02	01	01	04
4	Marketing Department	02	01	01	04
5	Finance Department	03	02	01	06
6	Purchasing Department	03	02	01	06
7	Production Department	02	02	01	05
8	Operations Department	02	01	01	04
9	Principles of Quality Control	02	01	01	04

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Name of Programme : **Dress Designing and Garment Manufacturing**
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Portfolio Development**

Course Code : **DD 548**

Teaching Scheme

	Hours / Week	Total Hours
Theory	0	00
Term Work/Practical	4	64

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--	--	--	--
Marks	--	--	50	--	50

Course Aim-

To enable the student to develop a process of client identification with the help of market research .It promotes design process, exercise and then executes a portfolio.

Course Objective- students will be able to-

- Use various principles of designing & prepare a portfolio.
- Know color schemes, texture so that they can use it while design a collection.
- Understand needs, lifestyle of customer which will help them to prepare the portfolio of a client.

Course content -

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
1				Collection of at least 6 garments for a client
2				Collection of at least 6 garments for a store
3				Collection of at least 6 garments for a fashion show
4				Collection of at least 6 garments for an exhibition
5				Collection of at least 6 garments for stage Event
6				Collection of at least 6 garments for movies, T.V. shows etc.

Reference Books

Author	Title	Publisher
Sandra Burke	Fashion Artist, Drawing Techniques To Portfolio Presentation	Burke Publishing
Linda Tain	Portfolio Presentation For Fashion Designers	Fairchild Publication
MCKEL	Illustration Fashion	Blackwell
Nancy Rielgelman	9 heads	9 Heads Media
	www.templates_fashion_illustration_design/dp/	
Mckelvey	Fashion Design Process Innovation & Practice	Blackwell
Odaniel G	Handbook of Costume Drawing	Elsevier India Pvt.Ltd

Learning Resources - Books, Magazines, LCD, CDs and internet.

Instructional Strategy-

Sr. No	Topic	Instructional Strategy
1.	Collection for a client	Practical treatment
2.	Collection for a store	Practical treatment
3.	Collection for a fashion show	Practical treatment
4.	Collection for an exhibition	Practical treatment
5.	Collection for a stage Event	Practical treatment
6.	Collection for movies, T.V. shows etc.	Practical treatment

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Name of Programme : **Dress Designing and Garment Manufacturing**
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Indian Embroidery**

Course Code : **DD 549**

Teaching Scheme:

	Hours / Week	Total Hours
Theory	3	48
Term Work/Practical	4	64

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	Three Class Tests of 60 Mins Duration	3Hrs	--	--	--
Marks	20	80	50	--	50

Course Aim-
The traditional work produced in each state has its own distinctive character and an aura which possesses heritage of Indian regional embroidery. This course contains the most detail analysis of Indian regional embroidery giving a comprehensive guide to color, motifs, fabric used together with their origin & information about they have evolved.

Course Objective- students will be able to -

- Understand different types of traditional embroideries found in India.
- Gain an insight in to the final details of embroidery from all states.
- Use the embroidery in more versatile & contemporary style to suit to today's fashion.
- Apply these embroideries to embellish various garments.

Section-I

Course content -

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
1	**History of Indian Regional Embroidery** B) Classification of Indian Embroidery. Different regional style. C) Different branches of Indian Embroidery a) Court Embroidery b)Trade Embroidery c) Temple Embroidery d) Folk Embroidery D) Techniques Used in Indian Embroidery.	02	04	Demonstration of each stitch mentioned in theory content & preparing samples.
2	**Kasuti of Karnataka** a) Origin and History of Embroidery b) Characteristics of Stitches used in Embroidery c) Study of Traditional Motifs and Design d) Inspiration and Working Styles.	06	08	**Kasuti of Karnataka**
3	**Phulkari of Punjab** a)Origin and Importance of Phulkari b) Characteristics of Stitches used in Embroidery , Working styles c) Study of fabric, Thread, Colors & Motifs d) Inspiration and Working Styles.	06	08	**Phulkari of Punjab**
4	**Kantha of Bengal** a) History and origin of kantha b) Material, Stitches and Color used c) Motifs and Designs used in	04	08	**Kantha of Bengal**

	Kantha d)Stages involve in kantha making e) Types of kantha			
5	**Kashida of Kashmir** a)Origin of Kashida d) Types of Motives used c) Color, Fabric, Threads used b) Stitches employed f) Inspiration and Theme of work	06	12	**Kashida of Kashmir**

Course content - Section-II

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
6	**Chikankari of Uttar Pradesh** a)Introduction and origin of chikankari b) Motifs and Designs of Chikankari c) Stitches used in Chikankari d) Types of Chikankari e) Introduction to Ari- work	06	08	**Chikankari of Uttar Pradesh**
7	**Embroidery of Gujarat & Rajasthan** a)Introduction to embroideries of Gujarat & Rajasthan b) Stitches used for embroidery c) Motifs and Designs used	06	08	**Embroidery of Gujarat & Rajasthan** a)Soof b)Aari Bharat c)Rabari d)Ahir Bharat e)Banni f)Applique Work
8	**Embroidery of Banjara Tribe.** a) Origin and importance of embroidery	04	08	**Embroidery of Banjara Tribe.**

	b) Designs and Motifs employed in embroidery. c) Stitches, Color, Fabric, used for embroidery.			
9	**Embroidery of the Toda Tribe.** a)Origin and history of Embroidery b)Stitches employed for making an article c) Study of Fabric, Thread, Colors. d) Working Style of Embroidery. e) Inspiration and Theme work.	04	08	**Embroidery of the Toda Tribe.**
10	**Traditional Appliqué** a) Phulpatti work of Aligarh b) Gota work of Jaipur. c) Applique work of Orrisa d)Applique work of Bihar	04	08	**Traditional Appliqué**

Note – Prepare an article (any one) by using state wise embroidery stitches.
Visit to various Embroidery Exhibition.
Workshop on Zardosi work to be arranged.

Reference Books

Author	Title	Publisher
Anne Williams	The Batsford embroidery course	Blackwell
McCalls	McCalls Needle Work Treasury	Random House
Rustam Z. Mehta	Master piece of India textile	
Julia Barton	Needle Work	Merehurst Ltd. London
Nirmala Mistry	Embroidery Designs	Prices Street Bombay
Amanda O' Neil	Needle Work & Sewing Technique	London Crange Books
Kumar P	Artistic Embroidery Designs	Indica
Khan M.J	Indian- Embroidery Ethics & Beyond	

Learning Resources - Books, Magazines, Embroidery pieces, etc.

Specification Table-

S.N.	Topic	Knowledge	Comprehension	Application	Total
1.	**Section-I** History of Indian regional Embroidery.	02	02	--	04
2.	Kasuti of Karnataka	02	02	04	08
3.	Phulkari of Punjab	02	02	04	08
4	Kantha of Bengal	02	02	04	08
5	Kashida of Kashmir	02	04	06	12
6	**Section-II** Chikankari of Uttar Pradesh	02	02	04	08
7	Embroidery of Gujarat & Rajasthan	02	02	04	08
8	Embroidery of Banjara Tribe.	02	02	04	08
9	Embroidery of the Toda Tribe.	02	02	04	08
10	Traditional Appliqué	02	02	04	08

Instructional Strategy

Sr.No	Topic	Instructional Strategy
	Section-I	
1	History of Indian regional Embroidery	Theoretical
2	Kasuti of Karnataka	Theoretical + Practical treatment
3	Phulkari of Punjab	Theoretical + Practical treatment
4	Kantha of Bengal	Theoretical + Practical treatment
5	Kashida of Kashmir	Theoretical + Practical treatment
	Section-II	
6	Chikankari of Uttar Pradesh	Theoretical + Practical treatment
7	Embroidery of Gujarat & Rajasthan	Theoretical + Practical treatment
8	Embroidery of Banjara Tribe.	Theoretical + Practical treatment
9	Embroidery of the Toda Tribe.	Theoretical + Practical treatment
10	Traditional Appliqué	Theoretical + Practical treatment

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32/5

Name of Programme : **Dress Designing and Garment Manufacturing**
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Apparel Management**

Course Code : **DD550**

Teaching Scheme-

	Hours / Week	Total Hours
Theory	3	48
Term Work/Practical	0	--

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	Three Class Tests of 60Mins Duration	3Hrs	--	--	--
Marks	20	80	--	--	--

Course Aim-
This course provides an introductory view of the managerial and technical factors which influence the day to day operation of a clothing factory. The course makes aware the students about the dramatic role of the fashion which changes frequently and guides to reconcile the conflicting requirements of the market and its manufacturing facilities in order to stay in business.

Course Objective- student will be able to -

- Introduce the process, the structure, the technological environment of the apparel product development.
- Develop skills in the managerial ability of the organization of a clothing industry.
- Bifurcate various departments working together to run the activities of apparel product development such as design department, marketing department, finance department, purchasing department, production department & operation department.
- Explore the ideas and views about forecasting, fashion trends, price structure, designing, collection, planning, pattern making, grading and producing a sample garment to work in the department of designing in a clothing industry.

33/5

- Acquire the skill of marketing by getting introduced to various managerial task of marketing such as pricing distributing the product, selling, sales forecasting and budgeting.
- Explore the manner in which production functions are operated such as product manufacturing function, service functions, production engineering, personnel and training, machinery and equipment maintenance, general maintenance, store, production planning and control, budgetary control.
- Give the importance of quality and can control the system to assure the required quality.

Section -I

Course content-

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
1	**The Process and the Structure of the Apparel Industry** a) Structure b) Technological Environment of Product development c) The process of product development	04	10	
2	**The Organization of a Clothing Industry** a) Principles of Management b) Definition of Management c) Functions of Management Planning, Organizing, Staffing, Direction, Control.	06	10	
3	**Design Department** a) Forecasting b) Fashion Trends c) Price Structure d) Designing e)Collection f) Planning g) pattern Making h) Production of Sample Garment i) Pattern Grading.	08	08	

4	**Marketing Department** a) Definition of Marketing Management b) Marketing calendar c) Product Pricing d) Price Evaluation e) Product Planning f) Customers g) Distribution h) Selling i)Sales Forecasting	06	12	

Section - II

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
5	**Finance Department** a)Definition of Finance Management b)Functions of the Finance Department c)Providing Management Information d) Budgeting e)Garment Costing Administration	04	06	
6	**Purchasing Department** a)Objective of the Purchase Department b) Function of the Purchase Department c) Information of Suppliers d) Prices e) Progressing f) Verification g) Speculative buying h) Store keeping i) Stock management j) Purchase order.	06	06	
7	**Production Department** a) Objective and Functions of the Production department. b) Manufacturing Functions c) Service Functions d) Production Engineering	05	12	

30/5

	e) Personnel and Training f)Machinery and Equipment Maintenance g) General Maintenance h) Technical Stores i) Control Functions j) Production Planning and Control h) Budgetary Control			
8	**Operations Department** a) Company calendar b) Pre production planning and control c) Order Concentration d) The Production order e) Production Planning and Control f) Marker and cut Planning g) Marker planning h)Cutting Room Production Planning i) Control Procedures	05	10	
9	**Principles of Quality Control** a) Concept of Quality b) The Quality Department c) Quality Audit d) Quality Circles e) Quality monitor g) Operation of Quality Control h) System Standards.	04	06	

Reference Books

Author	Title	Publisher
Gerry Cooklin	Introduction to Clothing Manufacture	Hartniolls Ltd. Cornwadl
Jones Richard M.	Apparel Industry	
Harold Carr-John Pomeroy	Fashion Design & Product Development	
Chuter A.J.	Introduction to Clothing Production Management	London BSP pro Books
Diamond Jay	Retail Buying	
Devid J. Tyles	Material Management in Clothing Production	Book Base Ltd.

36/5

Learning Resources: - Books, Magazines, Journals LCD, etc.

Specification Table-

S.N.	Topic	Knowledge	Comprehension	Application	Total
1.	**Section -I** The Process and the Structure of the Apparel Industry	04	02	04	10
2.	The Organization of a Clothing Industry	04	02	04	10
3.	Design Department	02	02	04	08
4	Marketing Department	04	04	04	12
5	**Section – II** Finance Department	02	02	02	06
6	Purchasing Department	02	02	02	06
7	Production Department	04	04	04	12
8	Operations Department	04	03	03	10
9	Principles of Quality Control	02	02	02	06

345

Instructional Strategy-

Sr.No	Topic	Instructional Strategy
1.	**Section –I** The Process and the Structure of the Apparel Industry	Theoretical treatment
2.	The Organization of a Clothing Industry	Theoretical treatment
3.	Design Department	Theoretical treatment
4	Marketing Department	Theoretical treatment
5	**Section - II** Finance Department	Theoretical treatment
6	Purchasing Department	Theoretical treatment
7	Production Department	Theoretical treatment
8	Operations Department	Theoretical treatment
9	Principles of Quality Control	Theoretical treatment

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Level - VI

Aided Technology Courses

Part - C
(Any Two)

Course Code	Course Title
MA641	Entrepreneurship
MA642	Supervisory Skills
MA643	Project Management
MA645	Industrial Organization & Management
MA646	Plant Engineering
MA648	Marketing Management
MA650	Management Information System
MA651	Material Management
MA652	Waste Management
MA653	Introduction to Web Technology

Name of Programme : CE/EE/ET/ME/MT/CM

Programme Code : 01/02/03/04/05/06

Name of Course : Entrepreneurship

Course Code : MA – 641

Teaching Scheme:

	Hours / Week	Total Hours
Theory	03	48
Term work / Practical	--	--

Evaluation:

	Progressive Assessment	Semester End Examination			
		Theory	Practical	Oral	Term Work
Duration	Three class tests of 60 Min. duration	3 Hrs.	--	--	--
Marks	20	80	--	--	--

Course Aim: To make the students aware of entrepreneurship as one of the career options and hence to teach him the various aspects of starting his own enterprise.

Course Objectives: To enable the students to develop entrepreneurial abilities such as

- SWOT analysis
- Business Environment scanning and opportunity scanning
- Market assessment
- Project formulation
- Identification of product/Technology/Equipment
- Financial Sources
- Sales and Marketing

Course content:

Sr. No.	Topic / Subtopic	Hours	Weightage	Practical
1.	**Need Analyzing** Human need, SWOT analysis, goal setting, business environment, emerging trends, information collection techniques, opportunities available	9	16	-
2	**Identification of product / project** Product and services, demand availability, resource requirement, Market survey techniques, agencies and organizations to be contacted. Product, suppliers of plant, equipment and raw material, technology.	12	20	-
3.	**Preparation of project report business plan.** Structures of project report, purpose of project report, working and fixed capital, financial institutions, procedures and norms for financing, feasibility criteria, project planning, time management, legal formalities, municipal bylaws, safety consideration, plant layout, commissioning of plant and equipment, trial production and quality assurance.	15	24	-
4	**Management of enterprise.** Forms of business organization, human behavior, personnel management, sales management, marketing management, costing and pricing, marketing practice, distribution channels, advertising, packaging	12	20	-

Term-work: Each student must submit a detailed project report based on field visit to any one organization on individual basis. (Grade to be awarded)

Instructional Strategy:

Sr. No.	Topic	Instructional Strategy
1.	Need Analyzing	Lecture, market survey, workshops, interviews.
2	Identification of product / project	
3.	Preparation of project report business plan	
4	Management of enterprise	

Reference Books:

Author	Title	Publisher
Vasant desai, Pragati Desai	Entrepreneurial development Vol. I	
Vasant desai, Pragati Desai	Entrepreneurial development Vol. II	
Vasant desai, Pragati Desai	Entrepreneurial development Vol. III	
Colombo Staff College, Manila	Entreprenuership Development Plan	TMH, New Delhi

Learning Resources: Books, Articles, Case studies

Specification Table:

Sr. No.	Topic	Cognitive Levels			To tal
		Knowledge	Comprehension	Application	
1.	Need Analyzing	04	08	04	16
2	Identification of product / project	06	08	06	20
3.	Preparation of project report business plan	06	12	06	24
4	Management of enterprise	06	08	06	20
		22	36	22	80

Prepared by

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Member Secretary

Prof. U.V.Kokate
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Name of Programme: CE / EE / ET / ME / MT / CM / IT

Programme Code : 01 / 02 / 03 / 04 / 05 / 06 / 07

Name of Course : Supervisory Skills

Course Code : MA 642

Teaching Scheme :

Title	Hours / Week	Total Hours
Theory	03	48
Term Work / Practical	--	--

Evaluation :

	Progressive Assessment	Semester End Examination			
		Theory	Practical	Oral	Term Work
Duration	3 Class Test of 60 Minutes	3 Hours	--	--	--
Marks	20	80	--	--	--

Course Aim :

To inculcate ability in the students for coordinated supervision activities of a group of workers engaged in manufacturing and also developing leadership attitude.

Course Objectives :

1. To offer practical advice about how to handle real life, on the job situations.
2. To recognize an ever changing social and work environment.
3. Provide useful insight based up on job tested experiences to cover all vital aspects of supervision.
4. To appreciate latest professional concepts of supervisory practice and organizational behavior.
5. To maintain good humored prospective of supervision.

Course Content :

Sr. No.	Topic / Subtopic	Hrs.	Weigh tage	Practical
1.	**Role of a Supervisor :** Member of a team, Competencies required, Linking goals and effects, Converting resources into outputs, concern for work and people.	04	08	
2.	**Supervision And Management Processes :** Principles, Management process, Approaches, Systems and Situations.	07	12	
3.	**Implementing Pans And Policies :** Goal setting, Planning Process, Scheduling guide lines, Methods and Techniques, Policies. Identifying training needs of employees, employees appraisal performance.	08	12	
4.	**Management Information System :** Problems cause and effect, Decision making rational & infative, information as a raw material. Effective employee communications methods, Non verbal communication, Communications guide lines.	07	12	
5.	**Conflict Management & Problem Solving :** Complaints and grievances, Group dynamics, Dissolving conflict, Securing co-operation, Employee discipline – purpose, Employee expectations, Administrative guide lines Legal aspects.	08	12	
6.	**Productivity Improvement :** Understanding productivity, Human factors, Work measurement. Methods improvement innovations & creativity.	07	12	
7.	**Employees Safety and Health :** Safety at work, OSHA'S mandated safety standards. Accident prvention basics, Accident prevention specifixs, accident reporting and investigation.	07	12	

Instructional Strategy :

Sr. No.	Topic	Instructional Strategy
1.	Role of a Supervisor	Classroom teaching / Hand Outs.
2.	Supervision And Management Processes	Classroom teaching / Hand Outs.
3.	Implementing Pans And Policies	Classroom teaching / Hand Outs.
4.	Management Information System	Case Studies, Group discussion.
5.	Conflict Management & Problem Solving	Case Studies, Presentations
6.	Productivity Improvement	Case Studies, Group discussion.
7.	Employees Safety and Health	Case Studies, Group discussion.

Text Books :

Author	Title	Publisher
Nil	Nil	Nil

Reference Books :

Author	Title	Publisher
O.P. Khanna	Industrial Engineering and Management	Dhanpat Rai and Sons, New Delhi
Banga and Sharma	Industrial Organization and Engineering Economics	Khanna Publishers, New Delhi
Srinivasan	Industrial Management	
Lestec R. Bittel	What every	McGraw Hill Publishing
John W. Newstrom	Supervisor Should Know	Company, (GREGG Division)

Learning Resources :

Books, Articles, C.D.'s, Visits, Video Cassettes No. 115 and 120 of G.P.P. Library.

7/6

Specification Table :

Sr. No.	Topic	Cognitive			Total
		Knowledge	Comprehension	Application	
1.	Role of a Supervisor	04	04	--	08
2.	Supervision And Management Processes	06	04	02	12
3.	Implementing Pans And Policies	06	06	--	12
4.	Management Information System	04	04	04	12
5.	Conflict Management & Problem Solving	04	04	04	12
6.	Productivity Improvement	04	04	04	12
7.	Employees Safety and Health	04	04	04	12

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8/6

Name of Programme :CE/EE/ET/ME/MT/CM

Programme Code : 01/02/03/04/05/06

Name of Course : Project Management

Course Code : MA 643

Teaching Scheme:

	Hours / Week	Total Hours
Theory	03	48
Term work / Practical	---	---

Evaluation:

	Progressive Assessment	Semester End Examination			
		Theory	Practical	Oral	Term work
Duration	Three class test of 60 min. duration	3 Hrs	--	--	--
Marks	20	80	--	--	--

Course Aim: In all projects, huge financial investments are made. It is therefore necessary to manage all the resources for effective project implementation. A Diploma technician has to acquire this knowledge as per the job requirements.

Course Objectives:

The students will be able to –

- Appreciate the importance of planning, scheduling, and controlling resources.
- Calculate project durations
- Understand the importance of cost – time analysis

Course Content:

Sr. No.	Topic / Subtopic	Hours	Weigh tage	Practicals / Tutorials
1	**Introduction** What is Project Management? Principles and Functions of Project Management Project life cycle Major types of Projects Role of Project Manager	04	08	--
2	**Organising For Project Management** Organization of project participants Types – Line, Line and staff, Functional organization Merits and demerits of each type	08	12	--

	Leadership and Motivation for the project team Interpersonal behaviour and communication – Its types, barriers in communication			
3	**Project Planning** Basic concepts in the development of project plans Defining work tasks / activities Defining precedence relationships among activities Estimating activity durations Estimating resource requirements for activities	08	12	--
4	**Fundamental Scheduling Procedures** Critical path method Meaning of terms – events, activity, earliest start time, Latest start time, earliest finish time, latest finish time, total float, free float, critical activity, dummy activity, critical path, project duration, . PERT, Comparison between CPM and PERT	10	16	--
5	**Cost – Time Analysis in Network Planning** Importance of Time – Cost analysis Project cost, direct cost, and indirect cost. Variation of direct cost with time Normal time, normal cost, crash time, crash cost, cost – slope. Variation of indirect cost with time.	04	08	--
6	**Use of Computers in Project Management :** Computer aids for project. Software available in PJM. Project information – Types and Uses.	04	08	--
7	**Introduction to Important Laws:** Factories Act – Scope and provisions Minimum Wages Act – Scope and provisions Workmen's compensation Act– Scope and Provisions.	04	08	--
8	**Safety in Execution Of Works:** Importance of Safety, Causes of accidents at work places. Precautions to avoid accidents, Safety programmes. Terms-Accident cost, Injury frequency rate, Injury severity rate.	06	08	--

Instructional Strategy:

Sr. No.	Topic	Instructional Strategy
1	Introduction	Class room teaching
2	Organizing for project management	Class room teaching
3	Project planning	Class room teaching
4	Fundamental scheduling procedures	Class room teaching
5	Cost – time analysis in network planning	Class room teaching
6	Use of computers in project Management	Class room teaching
7	Introduction to important laws	Class room teaching
8	Safety in execution of works	Class room teaching

Reference Books:

10/6

Sr.No.	Author	Title	Publisher
1	Chris Hedrickson and Tung Au.	Project Management for Construction	Prentice Hall Englewood Cliffs, New Jersey
2	M. Spinner	Elements of Project Management	Prentice Hall Englewood Cliffs, New Jersey
3	Victor G. Hajek	Project Engineering	McGraw – Hill Book Company
4		Bar Laws	

Learning Resources: Computer software

Specification Table:

Sr. No.	Topic	Cognitive Levels			Total
		Knowledge	Comprehension	Application	
1	Introduction	04	04	---	08
2	Organizing for Project Management	04	04	04	12
3	Project Planning	04	06	02	12
4	Fundamental scheduling procedures	02	02	12	16
5	Cost – time analysis in network planning	04	04	--	08
6	Use of computer in project management	04	--	04	08
7	Introduction to important laws	04	04	---	08
8	Safety in execution of woeks	--	04	04	08
		26	28	26	80

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Name of Programme : CE/EE/ET/ME/MT/CM

Programme Code : 01/02/03/04/05/06

Name of Course : Industrial Organizational and Management

Course Code : MA 645

Teaching Scheme

	Hours / Week	Total Hours
Theory	03	48
Term work / Practical	--	--

Evaluation

	Progressive Assessment	Semester End Examination			
		Theory	Practical	Oral	Term Work
Duration	Three class tests of 60 Min. duration	3 Hrs.	--	--	--
Marks	20	80	--	--	--

Course Aims

At the end of the course, students will be able to :

- Create necessary awareness and motivation of technical student for promoting self-employment and alternative to wage employment.
- Develop skills for organizing market survey and management's.
- Appreciate importance of human relations in industry.

Course Objectives

- After going through this course the diploma technician will be able to know :
- The basic knowledge about entrepreneurship.
- Fundamentals of accounting, finance, marketing.
- Various aspects of management, Taylor's principle.
- Management techniques.
- Different acts used in factories.

Course content

Sr.No.	Topic / Subtopic	Hours	Weightage	Practical
1.	**Entrepreneurship development** Definition and scope, characteristics, development of entrepreneurial attitude. Need for promotion of small business with reference to appropriate technology.	05	06	
2.	**Finance and Accounting** Working capitals and fixed capital, importance and scope, assessment of working capital and fixed capital financial institutions and their financial procedures, factors affecting working capital, components of working capital.	03	08	
3.	**Marketing:** Market survey, definition, modern concept of marketing orientations, Project report preparation, utility, project report preparation of utility for evaluation, market oriented report, product costing, project costing, format, evaluation of project report, costing and pricing, classification of costs, calculation of break even point, packing and advertising.	03	08	
4	**Fundamentals of accounting** Important accounting terminology, types of accounts rules for debit and credits systems of book keeping books of accounts, trial balance, manufacturing accounts, trading account profit and loss accounts, balance sheet their significance.	05	08	
5.	**Organization** Manufacturing organisation as system : system approach and its model, subsystems of a manufacturing organisation. Application of system model to each subsystem and system as a whole w.r.t. input, output and environment. Forms of ownership, individual partnership, joint stock companies, co-operative public sector and government undertaking (study restricted to difference, comparison, suitability only), necessity of organization, types of organizations, functional organization. Advantages and disadvantages of each. Factors in departmentalization authority and responsibility. Factors affecting selection of site, economic survey of site selection. Layout of facilities in industry. Dependency of various functions. Organisation for a new business.	08	15	

6.	**Management** Functions in industry with their brief outline, procuring, buying, inspection, storing, production, material handling, packing, forwarding, marketing supervision. Functions management, forecasting planning organizing, directing communicating, controlling, motivating decision making. Personnel management, human needs importance of fulfilling motivation, functions of supervisor, authorisation and democratic styles. Task centered style. Benevolent, style, critical style, self dispensing style, industrial hygiene, welfare and safety of workers. Financial management – Description, definition and scope, causes depreciation methods of calculating depreciation, obsolescence, standardization, advantages and disadvantages of standardization wage incentives. Development in management technique – critical path method, its language, advantages, network diagram, fixing of critical path, project evaluation and review technique (PERT), definitions used in PERT operations research, optimization, linear programming as optimization technique.	17	26
7.	**Acts:** Factory act, industrial dispute act, workmens, compensation act, ESI act, boiler act, Maharashtra recognition of trade union and prevention of unfair labour practices act 1971, Patent Acts- Brands and Trademarks.	03	04
8.	**Field of industrial psychology** Multiple perspectives. Human Problems in industries - Different problems in industry related with human nature.	04	05

Instructional Strategy

Sr. No.	Topic	Instructional Strategy
1.	Entrepreneurship development	Classroom teaching, case study
2.	Finance and accounting	Classroom teaching, lecture of field experts.
3.	Marketing	Classroom teaching, lecture of field expert.
4.	Fundamentals of accounting	Classroom teaching, self learning
5.	Organization	Case study, audio visual aids, Classroom teaching
6.	Management	Classroom teaching, lecture of field experts, case study, visits
7 & 8	Acts, I.S., Fields of industrial psychology	Classroom teaching, field visit

Text Books

Author	Title	Publisher
Nil	Nil	Nil

Reference Books

Author	Title	Publisher
Sept. 1988, TTTI, Chandigarh	Entrepreneurship development training material	Sept. 1988, TTTI, Chandigarh
March 1988, TTTI, Chandigarh	Report for institutional entrepreneurship	March 1988, TTTI, Chandigarh

14/6

	development and management courses in selected institutions	
Uday Parikh, T.V. Rao and D.M. Pestonjee	Behavioural processes in organizations	Tata McGrawhill.
O.P. Khanna	Industrial engineering and management	Dhanpat Rai and sons.
Banga and Banga	Project Planning and entrepreneurship	Khanna Publishers.
David, Kroenke	Management Information Systems	McGraw Hill Book Co.
Lester R. Bittel, John W. Newstrom	What every supervisor should know	McGraw Hill Book Co.

Learning Resources Video cassettes No. 139a of G.P.P. Library

Specification Table

Sr. No.	Topic	Cognitive Levels			Total
		Knowledge	Comprehension	Application	
1.	Entrepreneurship development	03	03	--	06
2.	Finance and accounting	06	02	--	08
3.	Marketing	--	04	04	08
4.	Fundamentals of accounting	06	02	--	08
5.	Organization	07	04	04	15
6.	Management	10	10	06	26
7.	Acts	04	--	--	04
8.	Fields of industrial psychology	05	--	--	05
		40	26	14	80

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Name of Programme : CE/EE/ET/ME/MT/CM

Programme Code : 01/02/03/04/05/06

Name of Course : Plant Engineering

Course Code : MA 646

Teaching Scheme

	Hours / Week	Total Hours
Theory	03	48
Term work / Practical	--	--

Evaluation

	Progressive Assessment	Semester End Examination			
		Theory	Practical	Oral	Term Work
Duration	Three class tests of 60 Min. duration	3 Hrs.	--	--	--
Marks	20	80	--	--	--

Course Aims

The student will be able to :

1. Deal with various hazards in Industries and to take precautions to avoid these.
2. Develop supervisory skills.
3. Handle different protective devices.
4. Identify and diagnose causes of failure.
5. Maintain different machinaries under working conditions

Course Objectives

Diploma technicians after going through this course will be able to :

1. Acquire knowledge of safety practices used in modern Industries.
2. Knowledge of Industrial accidents and their consequences.
3. Know factories Act for safety and their implementation.
4. Know various safety devices used.
5. Know various programme of housekeeping.
6. Know different types of maintenance.
7. Repair cycle and complexity of modern machines.

Course content

Sr.No.	Topic / Subtopic	Hours	Weightage	Practical
1.	**Accidents** Sources of Accidents, accidents investigation and its causes, environmental and behavioural accidents, direct, indirect industrial hazards and their prevention of accidents, injury distribution a) Chance distribution b) Biased distribution c) Unequal liability	04	03	-
2.	**Plant Layout and Safety** Safety factors influencing plant layout from maintenance and production point of view.	04	06	-
3.	**Safety Laws / Acts** Factories act and implementation of safety provisions, ESI scheme and compensation for loss of ability, Motivation for safety.	04	06	-
4	**Material Handling** Safe practices and methods used, latest techniques in material handling, and storage requirements, handling cost and quality aspects, aspect of fatigue	04	06	-
5.	**Protective requirements and Protective Guarding** Protective device used under various working conditions, protective guards for milling, lathes, grinding machine, shearing machine etc.	04	06	-
6.	**House Keeping** Need for housekeeping and results of good housekeeping	04	05	-
7.	**Fire Prevention And Protection** Prevention of fire in different types of organization eg. In chemical, Automobile industry etc. and protection for the same.	05	04	-
8.	**Safety Organizations and Safety Training** Types of safety organisation ,duties of executives, plant safety inspection, importance of plant safety practices, codes safety management, need for safety training, literature and postures	03	04	-
9.	**Overview of Maintenance** Preventive, on line, shutdown, and their refractions on production and cost	04	04	-
	a) **Preventive Maintenance** Its importance, repair cycle, systematic recording, programming – types of schedule, manpower and machine planning, lubrication methods and practices, colour codes schedules, spare parts handling & storage, Spare part management, & documents (maintenance manual)	03	10	-

	b) **Online Maintenance** Attending to joints, valves, pumps and other equipments, developing the codes for safety closure of parts of machine or plant operating on shift basis. To put on steam traps on stand by units, repairing the damages to steam pipe insulation etc. without stoppage of plant. Fault finding and troubleshooting.	03	08	-
	c) **Shutdown Maintenance** Economic aspects, programming of shutdown maintenance PERT, and its advantage, maintenance of major equipments eg. Boiler, Furnaces etc.	03	10	-
	d) **Total Productive Maintenance** Concept of total productive maintenance, assessment of maintenance work, manpower planning for maintenance staff.	03	08	-

Instructional Strategy

Sr. No.	Topic	Instructional Strategy
1.	Accidents	Class room teaching
2.	Plant Layout and Safety	Class room teaching, case study
3.	Safety Laws / Acts	Class room teaching, self learning
4	Material Handling	Class room teaching, case study
5.	Protective requirements and Protective Guarding	Class room teaching
6.	House Keeping	Group discussion
7.	Fire Prevention And Protection	Class room teaching
8.	Safety Organizations and Safety Training	Lectures from field experts
9.	Types of Maintenance	Class room teaching
	a) Preventive Maintenance	Class room teaching, case study
	b) Online Maintenance	Case study, group discussion
	c) Shutdown Maintenance	Class room teaching, case study, group discussion.
	d) Diagnostic Maintenance	Class room teaching

Reference Books

Author	Title	Publisher
Donald P Blake	Industrial safety	Prentice hall Inc. New York
Dr. A. N. Saxena	Safety and Good Housekeeping	N.P.C.

Learning Resources Slides, Films, Charts

Specification Table

18/6

Sr. No.	Topic	Cognitive Levels			Total
		Knowledge	Comprehension	Application	
1.	Accidents	03	--	--	03
2.	Plant Layout and Safety	03	--	03	06
3.	Safety Laws / Acts	06	--	--	06
4	Material Handling	03	--	03	06
5.	Protective requirements and Protective Guarding	--	--	06	06
6.	House Keeping	--	--	05	05
7.	Fire Prevention And Protection	04	--	--	04
8.	Safety Organizations and Safety Training	04	--	--	04
9.	Types of Maintenance	04	--	--	04
	a) Preventive Maintenance	04	--	06	10
	b) Online Maintenance	04	--	04	08
	c) Shutdown Maintenance	04	--	06	10
	d) Diagnostic Maintenance	04	--	04	08
		43	--	37	80

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19/4

Name of Programme : CE/EE/ET/ME/MT/CM

Programme Code : 01/02/03/04/05/06

Name of Course : Marketing Management

Course Code : MA 648

Teaching Scheme:

	Credits	Hours/Week	Total Hours
Theory	03	03	48
Term work / Practical	--	--	--

Evaluation:

	Progressive Assessment	Semester End Examination			
		Theory	Practical	Oral	Term work
Duration	Three class tests of 60 Min. duration	3 Hrs.	--	--	--
Marks	20	80	--	--	--

Course Aim:

This subject deals with marketing aspect of an industry. Market planning or development is the most important part of any organization. There should be market for any product which is produced. This is of prime importance from profit of the industry and running or any industry. In the increasing competition various technical services are being marketed as well as in product design various inputs from marketing should be taken into product design various inputs from marketing should be taken into consideration. Thus marketing has become a technical job and number of students are entering this field.

Course Objectives:

- The students will learn various elements of the market survey.
- To study types of marketing organizations, duties of marketing engineers or managers.
- To know market requirements of any product.
- To plan marketing straightedges over competing industries.
- To study financial aspects of marketing division.
- To forecast sale or diversification in products.

Course Content:

Sr. No.	Topic / subtopic	Hours	Weightage
1	**Marketing Concepts** Marketing function and concepts of marketing, approaches to study of marketing, management orientation, process of marketing, product, pricing, promotion, physical distribution.	06	10
2	**Marketing Organization** Marketing organization, designing of its structure, career alternatives in marketing, duties and responsibilities at different levels.	06	10
3	**Marketing Environment** Marketing environmental scanning for different industries/business in Indian context, introduction to marketing research.	06	10
4	**Market Segmentation** Market segmentation, consumer, behaviors, types of markets, consumer, industrial, rural, government purchases, services and marketing, analysis of consumer decision making process & predict consumer behavior in various stages of buying decision.	06	10
5	**Marketing Strategy** Marketing strategy formulations, marketing planning, competitive strategies. One case study on advertising.	07	12
6	**Marketing Decisions** Marketing mix, product life cycle, new product decisions, branding, packaging, pricing decisions, distribution and communication decisions.	06	10
7	**Marketing Control** Marketing control, budgeting, marketing audits. Use of marketing ratios.	06	10
8	**Sales Forecasting** Sales forecasting, sales analysis, management of sales force. One case study on after sales services & service network reaching the customer.	05	08

Instructional Strategy:

Sr. No.	Topic	Instructional Strategy
1 2 3 4	Marketing Concepts Marketing Organization. Marketing Environment Market Segmentation	Class room teaching, group discussion, lectures of experts from industries. Periodical assignment.

5 6 7 8	Marketing Strategy Marketing Decisions Marketing Control Sales Forecasting	Class room teaching, group discussion, lectures of experts from industries. Periodical assignment

Reference Books:

Author	Title	Publisher
Phillip Kolter	Marketing Management -- Analysis Planning and control Sales Management	
Cunliffe L. Blooing	Sales Management Decision, Policies and Cases	
R.R. Still, E.W.Condiff, N.A,.P.Govoni	Modern Marketing Management	
Rustom Davar	Fundamentals of Marketing	
Gandhi	Marketing Management	
Borce Joseph Guiltinan	Selling Principles & Practices	
B. Riuchard	Marketing Management	
Dholakia, Bhandari & Khurana McCarthy.	Basic marketing – A Managerial Approach.	

Specification Table:

Sr. No.	Topic / subtopic	Cognitive Levels			Total
		Knowledge	Comprehension	Application	
1	Marketing concepts	05	05	--	10
2	Marketing organization	08	02	--	10
3	Marketing environment	06	04	--	10
4	Market Segmentation	06	04	--	10
5	Marketing strategy	06	04	02	12
6	Marketing decisions	06	04	--	10
7	Marketing control	05	03	02	10
8	Sales forecasting	04	04	--	08
	Total	46	30	04	80

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Name of Programme : CE/EE/ET/ME/MT/CM/IT

Programme Code : 01/02/03/04/05/06/07

Name of Course : Management Information System

Course Code : MA650

Teaching Scheme:

	Hours/Week	Total Hours
Theory	03	48
Term work / Practical	--	--

Evaluation:

	Progressive Assessment	Semester End Examination			
		Theory	Practical	Oral	Term work
Duration	Three class tests of 60 Min. duration	80			
Marks	20	80			

Course Aim:

MIS is a concept continuous to evolve, emerging trend consistent with the evolution of the MIS concept endures computing. It is the power of computers which makes MIS feasible. From this point of view, the course is introduced.

Course Objectives:

After studying this subject, student will be able to –

- Understand the role of MIS in various functional areas of management.
- Understand the determination of requirement and analysis it to design information system necessary.
- Understand the supporting role of MIS in decision making.

Course Content:

S.N.	Topic / subtopic	Hrs.	Weightage
1	Information and Management Types of information, why do we need a computer based information system? Management structure, Management and information requirements, qualities of information. Examples of Information Systems Various functions in organizations, Information processing for a store- An overview, Varieties of information systems. Information Systems Analysis Overview: Overview of design of an information system. The role and tasks of systems analysts, Attributes of systems analyst, Tools used by system analyst.	04	10
2	Information Gathering Strategy to gather information, Information sources, Methods of searching for information, Interviewing techniques, Questionnaires, Other methods of information search, Case example-Hostel information system. System Requirements Specification:	04	10

	System requirements specification: Example, Data dictionary, Steps in Systems Analysis, Modularizing requirements specifications, Conclusions.		
3	Feasibility Analysis Deciding on project goals, Examining alternative solutions, Evaluating proposed solution, Cost-benefit analysis, Pay back period, Feasibility report, and System proposal. Data flow diagrams: Symbols used in DFD's Describing a system with a DFD, Good conventions in developing DFDs Leveling of DFDs, Logical and Physical DFDs. Process Specifications Process specification methods, structured English Some examples of process specification.	08	15
4	Decision Tables Decision table terminology and development, Extended entry decision tables, Establishing the logical correctness of decision tables, Use of Karnaugh maps to detect logical errors in decision tables, Eliminating redundant specifications. Importance of Logical Database Design in MIS Entity-relationship model, Relationship cardinality and participation, relations, Normalizing relations, Why do we normalize a relation? Second normal form relation. Third normal form, Boyce-Codd normal form (BCNF), Fourth and Fifth normal forms, Some examples of Database design. Data input Methods: Data input, Coding techniques, Detection of error in codes, Validating input data, interactive data input.	08	15
5	Database and Database Management Systems for MIS -Problem with file based systems, -Objectives of Database management, -Overview of database management systems, -database administrator, -Database design, Conclusions -Object Oriented System Modeling Object and their properties, Implementation of classes, Identifying objects in an application, Modeling systems with objects, Conclusions. Object Oriented System Modeling: Object and their properties, implementation of classes, Identifying objects in an application, Modeling systems with objects, Conclusions. Designing Outputs: Output devices, objectives of output design, Design of output reports, Design of screens, Use of business graphics.	12	15
6	Control, Audit and Security of Information Systems Control in information systems, Audit of Information Systems, Testing of Information Systems, Security of Information Systems. Electronic Commerce What is E-Commerce? Advantages and Disadvantages of E-Commerce, E-Commerce System architecture, Electronic data interchange, Security in E-commerce, Electronic payment systems, Conclusions. System Design Example: A system for journal acquisition, Document and Data flow diagrams, Feasibility of the system, System specification,	12	15

	Database design, Control, audit and test plan, implementation plan, conclusions.		

Instructional Strategy:

S. N.	Topic	Instructional Strategy
1.	Information and Management	Class room teaching for all
2.	Information Gathering	
3.	Feasibility Analysis	
4.	Decision Table	
5.	Database Management Systems (DBMS)	
6.	Control Audit and security of information systems	

Reference Books:

Author	Title	Publisher
Gordon B. Davis and Margeth H. Olson	MIS	
Kroenke Davis	Management information System	2nd edition
Sein	MIS	
Jawadekar W.S.	MIS	
Millind Oka	MIS	
Jayashankar	Decision Support Systems	
Lucas	Information System Concepts for Management	4th edition

Learning Resources: OHP, LCD Projector and Transparency.

Specification Table:

S. N.	Topic / subtopic	Cognitive Levels			Total
		Knowledge	Comprehension	Application	
1	Information and Management	4	4	2	10
2	Information Gathering	4	2	4	10
3	Feasibility Analysis	2	8	5	15
4	Decision Table	2	8	5	15
5	Database Management Systems (DBMS)	6	4	5	15
6	Control Audit and security of information systems	4	5	6	15
		22	31	27	80

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Chairman
PBOS Computer Engineering

Name of Programme : CE/EE/ET/ME/MT/CM

Programme Code : 01/02/03/04/05/06

Name of Course : Materials Management

Course Code : MA 651

Teaching Scheme:

	Hours / Week	Total Hours
Theory	03	48
Term Work / Practical	--	--

Evaluation:

	Progressive Assessment	Semester End Examination			
		Theory	Practical	Oral	Term work
Duration	Three class test of 60 min duration	3 hrs	--	--	--
Marks	20	80	--	--	--

Course Aim: This course deals with management of materials. Smooth running of any industry depends upon the interdepartmental relations and planning for execution of work jointly. Efficiency of production department also depends upon the availability of raw material of required quality and quantity. Therefore there should be proper co-ordination between production department, production planning, stores department and purchase department. Incorrect materials planning can also lead to higher inventories & high cost.

Course Objectives:

After studying this course the students will be able

- To know the importance of materials and inventory management
- To know the different aspects of buying procedure and price forecasting.
- To acquaint with latest techniques in materials management
- To know procedure for giving requisition of materials along with specifications
- To know different features of negotiation technique and management of obsolete and scrap materials.

Course Content:

Sr. No.	Topic / Subtopic	Hours	Weightage
1	**Importance of Materials Management** Growing importance of Materials Management- Scope of Materials Management Objectives and functions of Materials Management Organising for Materials Management Introduction to Materials planning Importance of specifications in Materials Management	10	16
2	**Inventory Management** Selective control – ABC Analysis - Purpose and objectives of ABC Analysis Mechanics & Advantages of ABC Analysis limitations of ABC Analysis Order point – Lead Time, safety stock, Re-order point, standard order. Economic order Quantity (EOQ), Graphical & Analytical Method	10	16
3	**Buying procedure** Sourcing, Buy or lease Purchase systems Problems in relations with supplier Value Analysis → Definition & scope Selection of products for value analysis Value analysis framework Implementation & methodology Ethics in purchasing	10	16
4	**Price forecasting** Importance & Approaches Types of forecasting Elements of good forecasting method Different price forecasting techniques	06	10
5	**Latest Techniques in Materials Management** Just in Time (JIT) zero inventory concept Integrated computerised management systems in Materials Management	05	10
6	**Management of obsolete Surplus and Scrap material** Definitions, Reasons for generation and accumulation of obsolete Surplus and scrap, Survey committee, presale preparations, sale, auction, sale by tender.	07	12

Instructional Strategy:

Sr. No.	Topic	Instructional Strategy
1	Importance of Materials Management	Class room teaching
2	Inventory Management	Class room teaching
3	Buying procedure	Class room teaching
4	Price forecasting	Class room teaching
5	Latest Techniques in Materials Management	Class room teaching
6	Management of obsolete & scrap material	Class room teaching

Test Books:

Author	Title	Publisher
Ammer Deans S.	Materials Management	R.D. Irwin Hllions
P. Gopalkrishan and M. Sundaresan	Materials Management An Integrated approach	Prentice – Hall of India Pvt. Ltd. New Delhi.
M.M. Shah	An integrated concept of Materials Management	Tata McGraw Hill Publisher Co. Ltd. New Delhi
P.G. Menon	Materials Management	
A Deb	Materials Management	Academic Publishers
Dobler D.W. and Lee C	Purchasing and Materials Management	
Brandy C.S.	Materials Handbook	

Specification Table:

Sr. No.	Topic	Cognitive Level			Total
		Knowledge	Comprehension	Application	
1	Importance of Materials Management	6	6	4	16
2	Inventory Management	6	6	4	16
3	Buying procedure	6	6	4	16
4	Price forecasting	--	6	4	10
5	Latest techniques in Materials Management	2	4	4	10
6	Management of obsolete and scrap materials	6	6	--	12
		26	34	20	80

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Name of Programme : CE/EE/ET/ME/MT/CM

Programme Code : 01,02,03,04,05,06

Name of Course : Waste Management

Course Code : MA 652

Teaching Scheme:

	Hours / Week	Total Hours
Theory	3	48
Term work / Practical	---	---

Evaluation:

	Progressive Assessment	Semester End Examination			
		Theory	Practical	Oral	Term Work
Duration	Three class tests of 60 min Duration	3 hours	---	---	---
Marks	20	80	---	---	---

Course Aim: Solid Waste Management is an integral part of urban and environmental Management of each city. Solid Waste Management includes the activities related to generation of refuse, its storage, collection, transportation, processing and disposal in an economic and environmentally acceptable manner.

Extremely low priority is given to the subject of Waste handling and disposal resulting in budgetary limitations and weak infrastructure to handle one of the most important problems of urban areas. Improper Solid Waste Management causes social, ecological aesthetic and economic problems having negative impact on human health and quality of life.

This course contents on 'Solid Waste Management' are designed to highlight. Action plan for each and every activity involved in Solid Waste Management which would be very helpful for students to know how to managing the Waste collection, transportation and disposal.

Course Objectives:

The students will be able -

- To know the definitions of terms relation of Wastes.
- To know various aspects like institutional, legal, financial and health aspect in Waste Management.
- To known the sources, composition, quantities and characteristics of Solid Waste.
- To know the storage, collection, Transportation and disposal of different kinds of Solid Wastes.
- To know about recycling the Waste and Resource recovery from Waste.
- To know Health and Safety of workers handling the Waste.

Course Content:

Sr. No	Topic / Sub Topic	Hours	Weight age
1	**Types of Wastes** Definitions: - Solid Waste – refuse, Garbage, rubbish, trash etc. Domestic Wastes, commercial Wastes, institutional waste, industrial waste, construction Waste, hazardous Waste. Toxic Wastes, Nuclear e- waste, street sweepings etc.	06	10
2	**Characteristics of Waste** Sources, composition, quantities and physical and chemical analysis of Solid Waste. Storage of Wastes.	06	10
2	**Characteristics of Waste** Sources, composition, quantities and physical and chemical analysis of Solid Waste. Storage of Wastes	10	10
3	**Collection of Waste** Current situation about collection of domestic, trade communal, industrial, construction Waste, street sweepings, frequency of collection, problem and issues and action required Transportation of Waste types of vehicles used for transportation their advantages and disadvantages.	08	10
4	**Disposal of Waste:** Disposal of Domestic and trade Waste Sanitary land filling, Composting of Waste, Incineration of Waste, Handling and Disposal of hospital Waste. Industrial waste & its disposal -Sugar, chemical, fertilizers, e-waste & its disposal.	10	20
5	**Recycling of waste** Recycling of Waste and Resource Recovery Health and safety of workers and recyclers Promotion of household and community awareness and participation through health and environmental education and public information systems.	06	10
6	Different aspects of Waste management Industrial aspects- Scope of service-policy, Approach, action required fixing work norms for labours, vehicles and equipment required – Service to poor community, Privatisation-current situation, Approach Legal Aspects- provision in ISO 14000 Legislation By Law- current situation Action required Financial Aspects Financial planning and Management Cost recovery, Cost accounting, sources of funds-Taxes, fees and subsidies, Impact on environment.	12	20

Instructional Strategy:

Sr. No.	Topic	Instructional Strategy
1.	Types of wastes	Class room Teaching
2.	Characteristics of waste	
3.	Collection of waste	
4.	Disposal of waste	
5.	Recycling of waste	
6.	Different aspects of waste management	

Reference books:

Sr.No	Author	Title	Publisher
1.	P.U. Ashani Dr. S.R. Shukla P.S. Rajwanshi	Solid Waste Management	I.S.T.E. Journal
2.	Frank Kreith	Hand book of Solid Waste Management	McGraw Hill New Delhi

Specification Table:

Sr. No	Topic	Cognitive Level			Total
		Knowledge	Comprehension	Application	
1.	Types of wastes	4	4	2	10
2.	Characteristics of waste	6	4	--	10
3.	Collection of waste	4	4	2	10
4.	Disposal of waste	8	6	6	20
5.	Recycling of waste	2	4	4	10
6.	Different aspects of waste management	6	6	8	20
		30	28	22	80

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31/6

Name of Programme : CE/EE/ET/ME/MT/CM/IT

Programme Code No : 01/02/03/04/05/06/07

Name of Course : Introduction to Web Technology

Course Code : MA653

Time Allotted:

	Hours/Week	Total Hours
Theory	01	16
Term Work/Practical	02	32

Evaluation:

Progressive Assignment	Semester End Examination			
	Theory	Practical	Oral	Term work
Marks 10	40	--	--	50

Course Aims: In the Era of Web technology it is essential for every Diploma Engg. To have knowledge of Web Designing. This course covers Web designing using HTML.

Course Objective: After studying this course student will be able to

- Create HTML document and text editing
- Giving Links to text inks to images.
- How to import images
- How to crate tables, text alignments using Fonts.
- Creation of Style sheets, HTML forms using various attributes.
- Creation of active server pages.
- Adding various controls to web pages.

Course Contents:

S.N	Topic/Subtopic	Hrs	Weight age	Practical
1.	Introduction to HTML: -Basic HTML Concepts -Overview of HTML HTML and World Wide Web -HTML's Role in Web -Issues Facing HTML & the Web	1	03	
2.	Web Publishing -The Goals of Web Design -The process of Web publishing -Determining Purpose -Defining Goals -Determining the final plan Implementation	1	04	
3.	Introduction to Common HTML: -HTML Overview -HTML Rules -The structure of HTML Documents -Document Types -The HTML, Head, Title, Body -Block	2	03	Creation of HTML documents and text Editing

	& Text Level Elements -Character Entities			
4.	Links and Addressing: -Linking Basics -What are URL's -Linking in HTML -Anchor Attributes -Images and Anchors -Image Maps -Semantic Linking with the <Link> Element -Meta Information -Meta and the Name attribute -Linking Issues	2	06	Giving Links to text, Creating and giving Links to List of items.
5.	HTML and Images: -The Role of Images on the Web -Image preliminaries -Image Download issues -Obtaining Images -HTML Image Basics -Images as Buttons -Image Maps -Full Syntax of Image -Image and Color attributes for <BODY>	1	03	Importing Images in HTML of various Formats, Creation of images as Buttons
6.	Introduction to Layout: Text Alignment, Tables and Fonts -Design Requirements -HTML Approach to Web design -Alignment Choices -Text Alignment -Word Hinting -Alignment with Images -The <SPACER> element -The <MULTICOL> element -Introduction to Tables -Simple Tables -ROWSPAN and COLSPAN -Tables for Layout -Tables in HTML 4.0 <TABLE> Syntax -Data binding, Fonts	1	03	Creation of Tables and text alignments using various Fonts.
7.	Advanced Layout: Frames and Layers: Frames -Overview of frames, Simple frame, Example, Frame targeting, Floating Frames, Using frames, Frame problems Layers - Positioned Layers, In Flow Layers, Layers Syntax, Intersecting Layers	2	04	Creation of Frames, Creation of Layers
8.	Style Sheets and HTML Forms: Style Sheets: -The Rise of Style, Style Sheet Basics, Style Sheet Example, Style Sheet properties. HTML Forms:-How are Forms Used? Forms Preliminaries, The <FORM> Element, ACTION Attribute, METHOD Attribute, Simple Form Syntax, Complete Form Syntax, FORM controls, New and Emerging Form Elements, < BUTTON > element, Labels, <FIELDSET>, Form Accessibility Enhancement	2	02	Creation of Style Sheets Using various attributes. Creation of HTML Forms Using various attributes.
9.	Introduction to Programmed Web Pages: -Overview of Client / Server -Programming on the web -Server side programming	1	03	Creation of Active Server Pages. Any Five programs by

	-Common gateway Interface -Active Server Pages			using JavaScript.
10.	Client side Scripting and HTML: -Purpose of Scripting, Including scripts in a -HTML Document, Script Events and HTML, Dynamic HTML and the Document -Object Model, HTML and Scripting Access	1	03	Including Scripts in HTML Documents.
11.	Client Side Programming & HTML -Scripting, Programming and objects, Plug Ins <EMBED Syntax>, Java Applets -Active X Controls, -Adding controls to Web pages, <OBJECT> Syntax, Cross Platform Support with plug ins & ActiveX controls	1	03	Adding Controls to Web Pages.
12.	Putting it All Together: Delivering the Web Site -Publishing the site -Outsourcing web hosting -Virtual Hosting -Running a local Web Server -How web servers work -Maintaining a web Site	1	03	Hosting the web Site

Text Books:

Author	Title	Publisher
Thomas A. Powell	The Complete Reference: HTML	TMH

Reference Books:

Author	Title	Publisher
Deborah S. Ray Eric J. Ray	Mastering HTML 4.0	BPB

Learning Resources: OHP, LCD Projector and Transparency

Specification Table:

S.N.	Topic	Knowledge	Comprehension	Application	Total
1.	Introduction to HTML	01	01	01	03
2.	Web Publishing	01	01	02	04
3.	Introduction to Common HTML:	01	01	01	01
4.	Links and Addressing:	02	02	02	06
5.	HTML and Images	01	01	01	03
6.	Introduction to Layout: Text Alignment, Tables and Fonts	01	01	01	03
7.	Advanced Layout: Frames and Layers	01	02	01	04
8.	Style Sheets and HTML Forms:	00	01	01	02

9	Introduction to Programmed Web Pages:	01	01	01	03
10	Client side Scripting and HTML:	01	01	01	03
11	Client Side Programming & HTML	01	01	01	03
12	Putting it All Together: Delivering the Web Site	01	01	01	03
	Total	29	21	30	40

Instructional Strategy:

S.N.	Topic	Instructional Strategy
1.	Introduction to HTML	Explanation
2	Web Publishing	Explanation & demonstration
3.	Introduction to Common HTML	Explanation & practical execution
4.	Links and Addressing:	Explanation & practical execution
5.	HTML and Images	Explanation & practical execution
6.	Introduction to Layout: Text Alignment, Tables and Fonts	Explanation & practical execution
7.	Advanced Layout: Frames and Layers	Explanation & practical execution
8.	Style Sheets and HTML Forms	Explanation & practical execution
9.	Introduction to Programmed Web Pages	Explanation & practical execution
10	Client side Scripting and HTML	Explanation
11.	Client Side Programming & HTML	Explanation
12.	Putting it All Together: Delivering the Web Site	Explanation

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Level - VII

Diversified Courses

Part - A

(All Compulsory)

Course Code	Course Title
DD741	Retail Promotion
DD742	Advance Computer Aided Designing

Part - B

(Any One)

DD743	Women's Wear
DD744	Men's wear
DD745	Kid's wear

(Any One)

DD746	Fashion Communication
DD747	Fashion Accessories

Name of Programme : **Dress Designing and Garment Manufacturing**
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Fashion Retail promotion**

Course Code : **DD 741**

Teaching Scheme-

	Hours / Week	Total Hours
Theory	3	48
Term Work/Practical	2	32

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	Three class tests of 60 Mins Duration	3 Hrs	--	--	--
Marks	20	80	--	--	50

Course Aim-
The field of Retail Management has opened up with the entry of big players in the Retail market. Innovative methodologies are being adopted to push retail sales. Professional opportunities are therefore growing by leaps and bounds. The course equips students with the strategies of retail promotion.

Course Objective:- The students will be able to -

- Understand the concept of retail market & retail strategies.
- Know the national as well as private brands.
- The meaning of visual merchandising & publicity.

Section -I

Course content-

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
1	**Introduction to Retailing** a) Types of Retailing b) Various Retail outlets c) Site selection d) Store layout & Design	05	08	Competition survey Sourcing props Visiting vendors
2	**Retail Merchandising** a) Merchandise Management b) Retail Merchandiser & Role of Merchandiser c) Merchandising Policies d) Distribution Channel & Channel activities e) Selling to Retail Stores f) Consumer Service	11	18	Seasonal Display
3	**Retail Buying** a) Introduction to Retail Buying b) Buyers Role c) Buyers Offices d) Fundamentals of effective Buying e) Additional Buyers Responsibilities	08	14	Presentation on Merchandise Display

Section - II

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
4	**Retail Marketing** a) Marketing Process b) Marketing Mix c) Marketing & Selling d) Fashion Supporting Agencies e) Special Events	07	14	Window Display Theme Based Displays
5	a) Direct Marketing b) On-line marketing channel c) The Marketing Actors I. Customers II. Marketing Facilitators d) Strategic Marketing I. Marketing Mix Planning II. Marketing segments III. Marketing controls IV. The salesman	14	20	Instore Displays Promotional Displays
6	**Visual Merchandising** a) Introduction to VM b) Elements of VM c) Basic Rules of VM d) Types of Displays e) Importance of VM	03	06	Festival Display (Diwali / Christmas / Sale)

Reference Books

Author	Title	Publisher
Goworek Helen	Fashion Buying	Blackwell
Frings Gini	Fashion From Concept to Consumer	Printice Hall
Donnelian John	Merchandising Buying & Management	

Learning Resources - Books, magazines, Journals, Market Survey, Visit to Malls etc.

Specification Table-

Sr.No	Topic	Knowledge	Comprehension	Application	Total
1.	**Section –I** Introduction to Retailing	03	03	02	08
2.	Retail Merchandising	05	08	05	18
3.	Retail Buying	04	06	04	14
4	**Section-II** Marketing Process	04	04	06	14
5	Direct Marketing	05	08	07	20
6	Visual merchandising	02	01	03	06

Instructional Strategy-

Sr.No	Topic	Instructional Strategy
1	**Section -I.** Introduction to Retailing	Theoretical Treatment +Practical Treatment
2	Retailing Merchandising	Theoretical Treatment +Practical Treatment
3	Retail Buying	Theoretical Treatment
4	**Section-II** Marketing Process	Theoretical Treatment
5	Direct Marketing	Theoretical Treatment
6	Visual merchandising	Theoretical Treatment +Practical Treatment

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Name of Programme : **Dress Designing and Garment Manufacturing**
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Advance C.A.D.**

Course Code : **DD 742**

Teaching Scheme-

	Hours / Week	Total Hours
Theory	1	16
Term Work/Practical	3	48

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--	--	---	--
Marks	--	--	50	--	50

Course Aim- Designing Software has features that include major skills required by a professional in the Industry. From pattern making, to designing textiles and garments, to viewing fit and look to even global sourcing. This course teaches the major requirements of a fashion professional in Computer Aided Designing.

Course Objective- Students will be able to –

- Make student's computer savvy.
- Present computerized pattern drafting.
- Prepare graded patterns & economical layout.

Course content -

Sr. No	Topic/Subtopic	Hours	Weight age	Practical
1	**Garment Grading System** a) Introduction to working tools b) Modification Tools c) Grading Tools.	06		a) Grading Tools. b) Grading according to measurement chart from base size to other sizes. c) Important Tools i. Pattern Info ii. Style Info iii. Working Units (cm, mm, and inch.) iv. Shrinkage
2	**Garment Marker System** a) Introduction to working tools	05		a) Making marker on different fabric i.e. plain, checks, stripe, knits b) Marker efficiency

				c) Consumption of Fabric d) Auto Nesting e) Time Nesting
3	**Pattern Development System** a) Introduction to working of tools	05		a) Important Tools b) On screen Pattern Development (i.e. Basic Shirt)

Reference Books

Author	Title	Publisher
	Richpeace Garment CAD System Users Guide	Richpeace Group Co. Limited

Learning Resources- Internet, LCD etc.

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1	Garment Grading System	Theoretical + practical Treatment
2	Garment Marker System	Theoretical+ practical Treatment
3	Pattern Development System	Theoretical+ practical Treatment

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Name of Programme : **Dress Designing and Garment Manufacturing**
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Women's Wear**

Course Code : **DD 743**

Teaching Scheme-

	Hours / Week	Total Hours
Theory	2	32
Term Work/Practical	5	80

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--	--	--	--
Marks	--	--	100	--	50

Course Aim-

This course provides the knowledge of designing ladies garment by studying the latest trends. This develops personal style of the wearer by putting together practical aspect of designing and preparing sample garment of the same.

Course Objectives – Students will be able to -

- Use different finishing techniques as per the garment.
- Evaluate latest trends.
- Design and construct different patterns of Indian and western wear.

Course content –

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
1	Drafting of a)Jacket b) Coat	06		Cut & Stitch following patterns Jacket (Hosiery) or Coat
2	Western Dress	06		Western Dress (Hosiery)
3	Track Suit	06		Track Suit (Hosiery)
4	a)Traditional wear b)Evening Outfit	06		Traditional wear or Evening Outfit
5	Creative Pattern reading (Two)	08		Survey of brand analysis of women's wear

Note- 1) Computerized drafting, cost sheet & Layout of all patterns to be done in A- CAD practical
2) Students will develop computer aided design sheet of all above mentioned garments. (Min 6 designs each)

Reference Books

Author	Title	Publisher
Todd Lyon	Lands end Business Attire for women	Clarkson Potter
W. Aldrich	Metric Pattern Cutting	Fair Child
Natly Bray	Dress Fitting	OM
Winifred Aldrich	Fabric, Form &Flat Pattern Cutting	Blackwell Science

Learning Resources- Magazines, Internet, and Market Survey etc.

Instructional Strategy

Sr.No	Topic	Instructional Strategy
1	a)Jacket, b) Coat	Theoretical + Practical
2	Western Dress	Theoretical + Practical
3	Track Suit	Theoretical + Practical
4	a)Traditional Wear b) Evening Outfit	Theoretical + Practical
5	Pattern reading	Theoretical

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Name of Programme : **Dress Designing and Garment Manufacturing**
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Men's Wear**

Course Code : **DD 744**

Teaching Scheme-

	Hours / Week	Total Hours
Theory	2	32
Term Work/Practical	5	80

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--	--	--	--
Marks	--	--	100	--	50

Course Aim-
This course provides the knowledge of designing new styles & ideas, offering men a great choice of fashionable clothing. Also gives practice of step by step construction of men's wear by considering sizes and parameters of fitting.

Course Objectives- students will be able to-

- Design and construct different patterns of Indian and western wear.
- Use different finishing techniques as per the garment.
- Know Dressing rules.

Course content: -

Sr. No	Topic/Subtopic	Hours	Weight age	Practical
1	Drafting of a)Jacket b) Coat	08		Cut & stitch following patterns Jacket (Hosiery) or Coat
2	Drafting of Sherwani – Top & Bottom	06		Sherwani - Top & Bottom
3	Drafting of Track Suit	06		Track Suit (Hosiery)
4	Considerations while selecting clothing for adults	06		Survey of brand analysis of Men's wear
5	Guidelines for good fit &Wardrobe maintenance	06		

Note- 1) Computerized drafting, cost sheet & Layout of all patterns to be done in A cad practical
2) Students will develop computer aided design sheet of all above mentioned garments. (min 6 designs each)

Reference Books

Author	Title	Publisher
Todd Lyon	Lands End Business Attire for Men	Clarkson Potter
W .Aldrich	Metric Pattern Cutting	Fairchild
Alam Parvez Khan	Men's wear Pattern Making	Pankaj Pub

Learning Resources- Magazines, Internet, and Market Survey etc.

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1	Drafting of a)Jacket b) Coat	Theoretical + Practical
2	Drafting of Sherwani – Top & Bottom	Theoretical + Practical
3	Drafting of Track Suit	Theoretical + Practical
4	Considerations while selecting clothing for adults	Theoretical
5	Guidelines for good fit &Wardrobe maintenance	Theoretical

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Name of Programme : **Dress Designing and Garment Manufacturing**
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Kids Wear**

Course Code : **DD 745**

Teaching Scheme-

	Hours / Week	Total Hours
Theory	2	32
Term Work/Practical	5	80

Evaluation-

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--	--	--	--
Marks	--	--	100	--	50

Course Aim-

This course provides the knowledge of designing clothes for children with study of growth and development of child, incorporated with different finishing techniques, suitable for garments.

Course Objectives- Students will be able to -

- Proper sizing as per the age group.
- Select suitable fabrics and notions for kids wear.
- Design and decorate children's garments as per various occasions.

Course content -

Sr. No	Topic/Subtopic	Hours	Weight age	Practical
1	Growth & Development From Infant to Adult, Body types & size chart for children, Key points while selecting & designing clothing for children's	6		Survey for Brand analysis of Kids Wear
2	Drafting of Bathrobe	4		Cut & stitch following Garments Bath robe
3	Designing & drafting of Jacket	4		Jacket(Hosiery)
4	Drafting of School Uniform a) Boy b) Girl	6		School Uniform
5	Designing & drafting of Party Wear	6		Party Wear
6	Designing & drafting of Casual Wear	6		Casual wear (Hosiery)

Note- 1) Computerized drafting, cost sheet & Layout of all patterns to be done in A cad practical
2) Students will develop computer aided design sheet of all above garments.(min 6 designs each)

Reference Books

Author	Title	Publisher
Aldrich Winifred	Metric Pattern Cutting	Blackwell
Aldrich Winifred	Metric Pattern Cutting for children wear & Baby wear	Blackwell

Learning Resources- Magazines, Internet, and Market Survey etc.

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1	Growth & Development	Theoretical
2	Designing & Drafting of Bathrobe	Theoretical + practical Treatment
3	Designing & Drafting of Jacket	Theoretical + practical Treatment
4	Drafting of School Uniform	Theoretical + practical Treatment
5	Designing & Drafting of Party Wear	Theoretical + practical Treatment
6	Designing & Drafting of Casual Wear	Theoretical + practical Treatment

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Name of Programme : **Dress Designing and Garment Manufacturing**
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Fashion Communication**

Course Code : **DD 746**

Teaching Scheme:

	Hours / Week	Total Hours
Theory	2	32
Term Work/Practical	3	48

Evaluation:

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--	--	--	--
Marks	--	--	50	--	50

Course Aim- The fashion communication programme encompasses areas such as visual merchandising, exhibition & display design, graphic design, fashion journalism, photography, advertising and public relations, specific to the fashion and lifestyle industry. At the exit level therefore, equipped with an intensive skill, knowledge and concept base.

Course Objective- Students will be able to –

- Acquire communication skills pertinent to the fashion industry.
- Develop a deeper understanding of fashion through further research, contextual studies, seminars and design projects.

15/4

Course content -

Sr. No	Topic/Subtopic	Hours	Weight age	Practical
1.	**The Fashion Industry Components-** a) Research b) Design c) Marketing & Promotion d) Distribution	08		Assignments on Fashion industry a) Research b) Design
2.	**The structure of the fashion industry** a) Men's wear b) Women's wear c) Kid's wear	08		c) Marketing & Promotion d) Distribution
3.	**Role of Visual Presentation in Fashion Industry** a) Design presentation b) Logos c) Tags d) Labels e) Packaging systems	08		Design Logos
4.	**Publication Design** a) Fashion Magazines b) Catalogs c) Advertisement	08		Design catalogs, Advertisement

Reference Books

Author	Title	Publisher
Jeff Stone & kim Johnson Gross	Simple Accessories	
	Femina	
Mckelvey Kathryn	Fashion Source Book	Blackwell
	Elle	

Learning Resources- Magazines, Internet, and Market Survey etc.

16/4

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1	The Fashion Industry Components	Theoretical+ practical treatment
2	The structure of the fashion industry	Theoretical+ practical treatment
3	Role of Visual Presentation in Fashion Industry	Theoretical+ practical treatment
4	Publication Design	Theoretical+ practical treatment

Prepared by

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Member Secretary (PBOS)

Chairman (PBOS) D.D.G.M

17/7

Name of Programme : **Dress Designing and Garment Manufacturing**
Programme Code : 01/02/03/04/05/06/07/**08**

Name of Course : **Fashion Accessories**

Course Cod : **DD 747**

Teaching Scheme:

	Hours / Week	Total Hours
Theory	2	32
Term Work/Practical	3	48

Evaluation:

	Progressive Assessment	Theory	Practical	Oral	Term work
Duration	--	--	--	--	--
Marks	--	--	50	--	50

Course Aim- Design & create beautiful accessories for runway presentation. It also gives knowledge about growing market of accessories. The course also incorporates knowledge of various types of fashionable accessories.

Course Objective- Students will be able to –

- Design innovative & useful accessories.
- Make dressing complete & truly individual.
- Have knowledge about various types of fashion accessories.

18/7

Course content -

Sr. No	Topic/Subtopic	Hours	Weightage	Practical
1.	**Textiles in Accessories** **A. Fibers & Yarns** a) Different types of Fabric structures b) Adding colors & designs to fabrics c) Design & Surface effects. **B. Leather & Furs** a) History & significance of leather to fashion b) Anatomy of leather & fur c) Fur production process d) Types of leather.	08		Market survey for trends in accessories, textiles & materials for accessories.
2.	**Closures, Belts & Footwear** a) History & usage of Closures in fashion accessories. b) Types of Closures c) History & Significance Of Belts & Footwear d) Anatomy & Components of Belts & Footwear, e) Types of Belts & Footwear.	08		Develop five Designs & prepare Any One Belts & Footwear
3.	**Handbags & Headwear** a) History & significance Handbags & Headwear b) Anatomy of Handbags & Headwears c) Types of Handbags & Headwear	08		Develop five Designs & prepare Any One Handbags & Headwears

4.	**Hosiery, Gloves, Shawls, Scarf's & Ties** a) History & significance b) Anatomy of necktie. c) Types of shawls, scarves & neckties.	08		a) Draping styles of Shawls & Scarf's b)Knotting the Necktie c)Fashion Jewelry

Note – All above accessories should be designed by students which is suitable for collection of Creative Fashion Presentation.

Reference Books

Author	Title	Publisher
Jeff Stone & kim Johnson Gross	Simple Accessories	
	Femina	
Mckelvey Kathryn	Fashion Source Book	Blackwell
	Elle	

Learning Resources- Magazines, Internet, and Market Survey etc.

Instructional Strategy

Sr. No	Topic	Instructional Strategy
1	Textiles in Accessories	Theoretical+ practical treatment
2	Closures, Belts & Footwear	Theoretical+ practical treatment
3	Handbags & Headwear	Theoretical+ practical treatment
4	Hosiery, Gloves, Shawls, Scarf's & Ties	Theoretical+ practical treatment

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