

**Scheme of Teaching and Examination for
IV Semester DIPLOMA in COSTUME DESIGN & GARMENT MAKING**

THEORY

Sl. No.	SUBJECTS	SUBJECT CODE	TEACHING SCHEME		EXAMINATION SCHEME					
			Periods per Week	Periods in one Session	Hours of Exam.	Terminal Exam. (A) Marks	Final Exam. (B) Marks	Total Marks (A+B)	Pass Marks Final Exam.	Pass Marks in the Subject
1	Garment Design & Construction Practice	35401	4	50	4	20	80	100	26	36
2	Textile Science	35402	4	50	3	20	80	100	26	36
3	Fashion Designing	35403	4	50	4	20	80	100	26	36
4	Pattern Making & Co-ordination	35404	4	50	3	20	80	100	26	36
5	Drawing & Design	35405	4	50	3	20	80	100	26	36
Total :-			20					500		

PRACTICAL

Sl. No.	SUBJECTS	SUBJECT CODE	TEACHING SCHEME		EXAMINATION SCHEME					
			Periods per Week	Periods in one Session	Hours of Exam.	Marks Internal Exam. (A)	Marks External Exam. (B)	Total Marks (A+B)	Pass Marks Final Exam.	Pass Marks in the Subject
6	Garment Design & Construction Practice	35406	8	100	6	20	80	100	32	42
7	Fashion Designing	35407	4	50	3	10	40	50	16	21
8	Textile Science	35408	4	50	3	10	40	50	16	21
Total :-			16					200		

SESSIONAL

Sl. No.	SUBJECTS	SUBJECT CODE	TEACHING SCHEME		EXAMINATION SCHEME			
			Periods per Week	Periods in One Session	Marks of Internal Examiner (X)	Marks of External Examiner (Y)	Total Marks (X+Y)	Pass Marks in the Subject
8	Drawing & Design	35409	6	50	40	60	50	50
Total :-			6				50	

Total Periods per Week	42	Total Marks	750
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GARMENT DESIGN & CONSTRUCTION PRACTICE

Subject Code 35401	Theory			No of Period in one session : 50		
	No. of Periods Per Week			Full Marks	:	100
	L	T	P/S	Annual Exam.	:	80
	04	-	-	Internal Exam.	:	20

Rationale:

This course deals with the basic knowledge of acquiring the drafting and stitching of various fabrics according to the different age and sex groups as well as knitting, embroidery decorating aspects and mending.

According to the time this subject gives following aspects:

1. Basic knowledge about sewing
2. Make the design of garments according to new pattern
3. According to new pattern to give knowledge about drafting
4. Final finishing various garments

CONTENTS:

TOPIC 01: SEWING TECHNIQUES

- 01.01 Finishing of raw edges – Top sewing (overcasting) finishing edges by cross top sewing.
- 01.02 Facing – Shaped or fitted facing, Bias facing, Bias strips, joining bias stripe method, Bias binding.
- 01.03 Disposal of Fullness.
Pleats-mknife pleat, Box pleat, Inverted box/pleat, Deats Tucks, pin tucks.
- 01.04 Seam finishing – plain seam, French seam, Lapped seam, Run and fess seam, overedge seam.
- 01.05 Running stitches, Back stitches.
- 01.06 Basting (Tacking) even & uneven, Heming.
- 01.07 Loop stitch – Blanket & button whole.
- 01.08 Fasteners – Hook & eges, press snaps, Buttons, Button whole, Zip.

TOPIC 02: PREPARATION OF FABRICS

- 02.01 Straightening of fabrics before cloth cutting.
- 02.02 Layout

TOPIC 03: LAYOUT OF FABRICS

- 03.01 Lengthwise layout.
- 03.02 Widthwise layout.
- 03.03 Crosswise layout.
- 03.04 Open layout
Placket opening & pochets
Facing and binding
Different kinds of collars, sleeves skill and linking tucks. Pleats Gatter.

1. Mending
2. Patching
3. Dashing
4. Renovation

TEXTILE SCIENCE

Subject Code 35402	Theory			No of Period in one session : 50		
	No. of Periods Per Week			Full Marks	:	100
	L	T	P/S	Annual Exam.	:	80
	04	-	-	Internal Exam.	:	20

Rationale:

This course deals with the basic knowledge of textiles and understanding of which will enable the technical intelligent use of textile science is the most important subject it deals with the following aspects.

1. To select the clothes according to costume.
2. To differentiate the cloths by superiority and inferiority.
3. To justify the cost of cloth according to the quality and market value.
4. To select the colours and design of the cloth according to costume.

Objective:

This course will enable the technician to develop the ability to:

- Select the cloth according to quality.
- Select the cloth according to occasion.
- Use the cloth according to season.
- Select the cloth according to geographical location.
- Washing of fabrics according to their physical and chemical characteristics.

CONTENTS:

TOPIC: 01:

Introduction & importance of Textile Science in our life.

TOPIC: 02:

Classification of textile fibres including natural & manmade.

02.01 Cellulose fibres – Cotton, Flak, Rayon, Viscose (man made cellulose)

02.02 Protein fibres wool, silk.

02.03 Thermoplastic fibres – Nylon, Polyester, Acrylic.

Manufacturing properties and their suitability in garments of the above.

TOPIC: 03:

Fibres needed in Textile Industry: their properties such as weather and climate, washability, satisfactory length elasticity, flexibility, pliability, luster absorbancy.

TOPIC: 04:

Important definitions- Textile Science, Textile fibres – simple & filament, yarn, thread, fabric, garment.

TOPIC: 05:

Size of count of the yarn/thread (few important fibres)

TOPIC: 06:

Elementary process of fibre to yarn, different types of yarn, their properties & suitability for garment.

TOPIC: 07:

Simple knowledge of processing & finishing bleaching, mercerizing, shrinking, tentering, Calendeing, crease resistance, natural dyes, vegetable dyes, animal dyes, mineral dyes, sulphur dye, vat dye, pigment dye, printing–block.

Books Recommended:**Reference Books**

1. Indian Costumes Publication - Biswas, , 1985, New Delhi
2. The Indian Cares - K.B. Dengeshery, The All India Handicraft Board, New Delhi
3. Historic Costume - Lester K.T., Chas & Benneth & Co. Illinois 1961
4. Con/stumers & Textile of India - Brij Bhushan, Tarapurwala & Sons & Co., New Delhi 1985
5. G.A History of Fashion - Blach T.A. & Redge, Abis Publishing, London 1978
6. Costume Throughout The Ages - Evans H., J.B. Lippiscot Co., New York
7. Ancient Greek, Roman Byzantine, costumes & Decoration Adan & Egyptian - Houston G.M., Charles Block, London 1989
8. Ancient Egyptian, Messopotamian & Block - Houston G.M., London, 1954
9. Oriented Costume - Ayer, Bhula Bai Desai Road, Bombay, 1973
10. Costumes of Indian - Dehis Olymn, IBH Publishing Co., New Delhi, 1971
11. English Costume - Philips Cunniggte, A.C. Black Ltd., London, 1996
12. Costume of India & Publication - Bas S.N., D.B. Tarapurwala & Sons & Co., Bombay, 1966
13. India Costumes - Chustms Churye G.S., Bombay Popular Prakashan, 1966
14. The Textile & Ornaments of India - Pupul Jaykar & John Jrwin
15. Shrm Athrshasthi - Shinha, Bharti Bhawan
16. Vyapar Pranali Avam Patri Vyaghr - Vai. P. Verma, As. Chan.
17. वस्त्र विज्ञान एवं परिधान - डॉ. प्रमिला वर्मा, हिन्दी ग्रंथ एकेडमी, पटना
18. वस्त्र धुलाई विज्ञान - डॉ. प्रमिला वर्मा, हिन्दी ग्रंथ एकेडमी, पटना
19. हमारा राज्य सभी राज्यों की संस्कृति पर आधारित - पर्यटन विभाग, भारत सरकार, दिल्ली

FASHION DESIGNING

Subject Code 35403	Theory			No of Period in one session : 50		
	No. of Periods Per Week			Full Marks	:	100
	L	T	P/S	Annual Exam.	:	80
	04	-	-	Internal Exam.	:	20

Rationale:

This subject is the important subject today. Fashion is the backbone of costume. A human being likes to go together of time and it is the mentality of society to run to date. Change is the universal phenomenon, so, this course will be helping latest and modern fashions. It is helpful for the following aspects:

5. Sleeves
6. Collars
7. Necks
8. Pockets
9. Yolks

Objective:

This course is very useful to know the following aspects:

1. To gain basic knowledge about part shift
2. To gain basic knowledge about sleeves, collars, necks, pockets
3. To gain basic knowledge about yolks of different types

CONTENTS:

TOPIC: 01: SLEEVES

Short plated type sleeves, puff sleeves, three quarter sleeve, full sleeve, Bishop Sleeve, Raglan sleeve, magic sleeve, Kimen of delman sleeves

TOPIC: 02: COLLAR

Peater pan collar, scrotion collar, square neck reverse collar, one callop flat collar, scalloped collar, flat back collar, boat collar, double turning collar, scalloped collar, tucked collar, flared collar, shirt collar, stand collar, double breast collar, double breast stand collar, flat collar, jubets.

TOPIC: 03: NECKS

V-shaped, U-shaped, round, square, glass-glass necks.

TOPIC: 04: POCKETS

Patch pocket, cult pocket, diagonal attached pocket, flap pocket, side pocket.

TOPIC: 05: DRAFTING & DESIGNING OF VARIOUS TYPES OF LADIES GARMENTS

Petticoat with six or four panel with placket opening. Open & high neck blouses, different types of salwar, kamiz & tips night suit, gawn, maxi, house coat with shawl collar, churidar pajama, garara & all ladies to current fashion.

Pattern Making and Co-ordination

Subject Code 35404	Theory			No of Period in one session : 50		
	No. of Periods Per Week			Full Marks	:	100
	L	T	P/S	Annual Exam.	:	80
	04	-	-	Internal Exam.	:	20

Rationale:

This course will enable the technician to human fyncies draft and modigy pattern according to individual size and shape making corrections in body defects where necessary. According to the demand of time it gives following aspects:

1. Dress Making with measurement
2. Under measurement to take the drafting of different types of dresses likewise Indian or foreign
3. Measurement makes drafting of different types of modern dresses likewise – Indian or foreign
4. Measurement makes drafting of different types of modern dresses likewise – ladies and gents, babies, baby and girls, sports, sleeping gown, house dresses and parties
5. Measurement charts

Objective:

The technician will be able to gain knowledge and develop skills to:

1. Take actual measurement and modify and construct according to:
 - (a) Baby defects
 - (b) Various age and sex groups

CONTENTS:

TOPIC: 01: HUMAN FIGURES

Normal and abnormal figures namely long neck, short neck, abnormal shoulder, bad development and sloping determination of abnormal development and its measurement in garment making. (03)

Hunch back, pigeon chest etc. trying and adjustment, measurement consideration of salncing of abnormalities. Height related to total height of different types of figures. (02)

TOPIC: 02: ANTHROPOMETRIC MEASUREMENTS

Anatomy eight head theory child & adult growth & development joints & their effect on garment preparation and dispartion of human figure.

TOPIC: 03: PATTERN MAKING

Selection patterns and pattern making, kinds of patterns drafting, layout of patterns on plain, check, stripped and figures fabrics, precautions in layout of the pattern on cloth.

TOPIC: 04: MEASUREMENT CHARTS & IMPORTANCE

Sequence of taking measurement, recording of measurement. (01)

TOPIC: 05: MEASUREMENT CHARTS FOR CHILDREN, MALE & FEMALE

Style reading of given design, adopting the same to the given measurement making the paper pattern of the design, paper pattern making and grading for the following garments:

Children's Wear – Jhabla, Romper, Feeder, Napkin, Frock, School uniform.

Women's Wear – Salwar, Lahanga and the costumes according to current fashion.

Men's Wear – Burmoodas paint, pyjama with different styles, kurta

Books Recommended:

Dress Fitting	-	Brey N., Crossby Loco Wood & Sons, London (latest)
Practical Dress Design	-	E. Rain M., Macmillan & Co., New York, 1961
भारतीय कला की रूप-रेखा	-	श्री अरविन्द इन्टरनेशनल
भारतीय कटाई सिलाई विज्ञान	-	शकुन्तला वर्मा, किताब महल
मिथिला लोक कला	-	डा. हिन्दी ग्रंथ एकेडमी, पटना

DRAWING & DESIGN

Subject Code 35405	Theory			No of Period in one session : 50		
	No. of Periods Per Week			Full Marks	:	100
	L	T	P/S	Annual Exam.	:	80
	04	-	-	Internal Exam.	:	20

Rationale:

The subject Drawing & Design is the demand of the course. The design of garments is the basic need for a technician in Costume Design & Garment Making. The course will help a technician to:

- develop the design
- adjust the design & make new design
- develop a technique to generate different pattern and design
- invent new design

Objective:

This course is very useful because to know following aspects. After going through the contents, a technician will be able to:

- gain basic knowledge of geometry
- apply the knowledge of geometry to develop intricate design
- gain knowledge of the development of geometrical design
- lettering, monogram, reduction, enlargement

CONTENTS:

Elementary and applicable knowledge of the following:

TOPIC: 01: SIMPLE GEOMETRICAL CONSTRUCTIONS

Drawing parallel, erecting perpendicular lines, constructing angles, triangle, quadrilaterals, circles and polygons, revision of lines and angles locating centers respectively with and around given figures, free hand sketching of simple objects involving curves etc. Geometrical and decorative figures, circles, diamond shapes, mango shapes and leaf shapes.

TOPIC: 02: DESIGNING AND ITS TECHNIQUE

Simple and composite and geometrical designs for borders. Composite and geometrical designs for border leaves and flowers and their shading, preparation for ornamenting borders, dresses and other household articles, enlargement, reduction and transfer of design cartoons, use of tools and equipment of the trade.

TOPIC: 03: ORNAMENTAL DRAWING AND DESIGNING OF TABLE RUNNERS (MATS)

TOPIC: 04: LETTERING, MONOGRAM, REDUCTION AND ENLARGEMENTS

- 04.01 Block lettering
- 04.02 Ornamental lettering
- 04.03 Monogram
- 04.04 Reduction design
- 04.05 Enlarging the design

TOPIC: 05: USE OF PENTAGRAM

Books Recommended:

Reference Books

- | | |
|---|--|
| <ul style="list-style-type: none"> 1 Indian Costumes Publication 2 The Indian Cares 3 Historic Costume 4 Con/stumers & Textile of India 5 G.A History of Fashion 6 Costume Throughout The Ages 7 Ancient Greek, Roman Byzantine, costumes & Decoration Adan & Egyptian | <ul style="list-style-type: none"> - Biswas, , 1985, New Delhi - K.B. Dengeshery, The All India Handicraft Board, New Delhi - Lester K.T., Chas & Benneth & Co. Illinois 1961 - Brij Bhushan, Tarapurwala & Sons & Co., New Delhi 1985 - Blach T.A. & Redge, Abis Publishing, London 1978 - Evans H., J.B. Lippiscot Co., New York - Houston G.M., Charles Block, London 1989 |
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|----|---|---|---|
| 8 | Ancient Egyptian, Messopotamian & Block | - | Houston G.M., London, 1954 |
| 9 | Oriented Costume | - | Ayer, Bhula Bai Desai Road, Bombay, 1973 |
| 10 | Costumes of Indian | - | Dehis Olymn, IBH Publishing Co., New Delhi, 1971 |
| 11 | English Costume | - | Philips Cunnigge, A.C. Black Ltd., London, 1996 |
| 12 | Costume of India & Publication | - | Bas S.N., D.B. Tarapurwala & Sons & Co., Bombay, 1966 |
| 13 | India Costumes | - | Chustms Churye G.S., Bombay Popular Prakashan, 1966 |
| 14 | The Textile & Ornaments of India | - | Pupul Jaykar & John Jrwin |
| 15 | Shrm Athrshasthi | - | Shinha, Bharti Bhawan |
| 16 | Vyapar Pranali Avam Patri Vyaghr | - | Vai. P. Verma, As. Chan. |
| 17 | वस्त्र विज्ञान एवं परिधान | - | डॉ. प्रमिला वर्मा, हिन्दी ग्रंथ एकेडमी, पटना |
| 18 | वस्त्र धुलाई विज्ञान | - | डॉ. प्रमिला वर्मा, हिन्दी ग्रंथ एकेडमी, पटना |
| 19 | हमारा राज्य सभी राज्यों की संस्कृति पर आधारित | - | पर्यटन विभागए भारत सरकारए दिल्ली |

GARMENT DESIGN & CONSTRUCTION PRACTICE

Subject Code 35406	Practical			No of Period in one session : 100		
	No. of Periods Per Week			Full Marks	:	100
	L	T	P/S	Annual Exam.	:	80
	-	-	08	Internal Exam.	:	20

Rationale:

The polytechnic students are getting theoretical knowledge of subject of Garment Design & Construction having wide application in manufacturing garments with design and construction industries in Part II Diploma Course. They need to corroborate the theoretical knowledge with some practical experience in the institution itself. In this regard the subjects of Garment Design & Construction Practice gets much importance there. Students get opportunity to perform experiment on theoretical knowledge obtained.

Objective:

By doing the practical work, the students will be able to:

- Understand applications of garment construction
- Understand the principles of knitting(hand & machines)
- Learn Embroidery under different aspects
- Understand the cutting and tailoring
- Understand the design construction under traditional and latest.

CONTENTS:

01.00 Knitting (Hand Knitting)

Minimum 5 patterns samples.

02.00 Embroidery (Hand stitches)

Running stitch, basting-even, uneven & diagonal basting, back stitch, harrinbane stitch, combination stitch, over carding stitch, hemming stitch, slip stitch, darning stitch, dhain stitch, long and short stitch, cross stitch, laisy daisy stitch, surface stitch, smocking stitch and button stitch.

03.00 Cutting and tailoring

03.01 Children's wear – Jhabla, Ramper, Feeder, Napkin, Frocks, School uniform for boys and girls.

03.02 Women's wear – Salwar, Lahanga and the costume according to current fashion blouse.

03.03 Men's wear – Burmooda pants, pyjama with different styles.

Books Recommended:

Reference Books

- | | | | |
|---|---------------------------------------|---|--|
| 1 | वस्त्र विज्ञान एवं परिधान | - | डॉ. प्रमिला वर्मा, हिन्दी ग्रंथ एकेडमी, पटना |
| 2 | भारतीय कटाई सिलाई विज्ञान | - | शकुन्तला वर्मा, किताब महल |
| 3 | सिलाई मशीन निर्देश पुस्तिका | - | |
| 4 | New The Sewing Machine Book | - | Myracoles – B.I. Publication |
| 5 | The Mechanism of Weaving | - | Fex |
| 6 | How to Draw and Point To Days Fashion | - | Violera French Wetter T. FASTER |

FASHION DESIGNING

Subject Code 35407	Practical			No of Period in one session : 50		
	No. of Periods Per Week			Full Marks	:	50
	L	T	P/S	Annual Exam.	:	40
	-	-	04	Internal Exam.	:	10

Rationale:

This is very important subject because it is a part of human nature. Fashion is the backbone of costume. A Diploma holder knows how to invent new design in latest time.

Objective:

This course is very useful because the student learn practical aspect of fashion design.

CONTENTS:

- 01.00 Paper patterns of at least five types of each items sleeves, collar, aorks & pockets.
- 02.00 Suitable dress assembly through paper patterns of different above mentioned accessories.
- 03.00 Display of design book or cat cough.

TEXTILE SCIENCE

Subject Code 35408	Practical			No of Period in one session : 50		
	No. of Periods Per Week			Full Marks	:	50
	L	T	P/S	Annual Exam.	:	40
	-	-	04	Internal Exam.	:	10

Rationale:

The polytechnics are getting theoretical knowledge of subject of textile science, classification of textile fibres, fibres need in textile industry, type of wearing and their finishing etc. having wide application in manufacturing and power generation industries in Part-I Diploma course. They need to corroborate the theoretical knowledge with some practical experience in the institution itself. In this regard the subjects get opportunity to perform experiment based on theoretical knowledge obtained.

Objective:

By doing the practical work, the students will be able to:

- Understand applications of textile
- Learn behaviour of materials (fibres) under different situation (seasons)
- Learn use of the selection of fibres and their quality, measuring devices and devices and developing energy
- Learn about the cloth according to weather, occasion and geographical location
- Learn about the finishing of fabrics according to their character
- Learn about losses of fabrics
- Learn about working principles about manufacturing of fabrics
- Understand the working principles of textile industry

CONTENTS:

A. TESTS:

- 01 Identification tests for cotton, Linen, Rayon, Wool, Silk, Nylon
- 02 Burning test
- 03 Crease test
- 04 Chemical test

B. THE CONSUMER AND TEXTILE MARKETS:

- 01 Seal/ Table of certificate
- 02 Cost, availability, suitability
- 03 Selection of cloth/ fabrics in respected design, colour, print quality etc.
- 04 Selection of cloth/ fabrics in respect of season and occasion.
- 05 Selection of cloth/ fabrics in respect of profession, age, sex, occasion, culture.

C. THE DEFECTS:

- 01 Traditional Indian textiles
- 02 Important types of fabrics
- 03 Dyeing Tie and Dye, Batik
- 04 Washing of different types of fabrics

Books Recommended:

Reference Books

- | | | |
|---|---|--|
| 1 Personal Management Industrial Relations | - | Pradeep Kumar, put Kedar Nath Ram Nath |
| 2 Managing Small Business | - | Stain Matzkli – put Takaporavale |
| 3 A Handbook of Textile Testing L.Q.C. | - | Inter Put |
| 4 Designer Guide to fabrics Dyeing and Printing | - | Butter Worth |
| 5 Chemical Equipment Design | - | B.C. Bhattacharya |

DRAWING & DESIGN

Subject Code 35409	Theory			No of Period in one session : 50		
	No. of Periods Per Week			Full Marks	:	50
	L	T	P/S	Annual Exam.	:	30
	-	-	06	Internal Exam.	:	20

Rationale:

The polytechnic students are getting theoretical knowledge of the subject Drawing & Design having wide applications but preparation of a design is the main function of this course. Stress is given more on sheets. In the first year course, students get knowledge to develop the design to adjust the design.

Objective:

By doing the sessional works, the students will be able to learn to simple geometrical constructions.

Learn to designing and its technique:

- Learn to ornamental drawing and designing of table runners teacosy
- Learn how to develop the design
- Understand how to invent new design

CONTENTS:

01	Simple geometrical constructions	2 sheets
02	Free hand sketches	2 sheets
03	Geometric and decorative rangoli	2 sheets
04	Alpana pattern design	2 sheets
05	Simple and composite design	2 sheets
06	Enlargement, reduction or transfer of design	2 sheets
07	Ornamental drawing and designing of table rummours teacasy	2 sheets

Required

1. Geometrical tools and the book of Art of the World, the Art of Indian and Art of Mithila.