

PREFACE

Government Polytechnic, Aurangabad, one of the oldest institutes in Maharashtra was established in the year 1955-56. Over the period of time the institute, through its untiring efforts has created its own niche and has been functioning as a Lead Technical Institute in the State of Maharashtra to serve the Industry and Society by producing excellent technical manpower.

Government Polytechnic, Aurangabad has expanded quantitatively from an intake of 180 in 1995 with three programmes to 720 Intake in eight programmes. The Institute has been striving relentlessly for achievement of excellence in technical education. Government Polytechnic, Aurangabad has been functioning with 'the Autonomous Institute status', since 1994. It is presently functioning in three shifts, by running Diploma Programmes in I Shift (Regular), II shift and Part Time Diploma programmes in evening shift. I am proud to share that, the Institute has been ably rewarded with three state level awards for its best performance in the state of Maharashtra.

Institute has revised the curricula five times in the past and the sixth revision which was due, was initiated in the year 2015 and finally, the revised (sixth) curricula which is the outcome of, search conference under the guidance of NITTTR, Bhopal, several workshops and deliberations, has been implemented with effect from 2017-18 with the approval of Programme wise Board of Studies (PBOS) Board of Studies (BOS) and consent of Governing Body.

The hallmark of sixth revision is, adopting 'Outcome Based Education Philosophy' as the basis for Curriculum Design and Development process. The 'Vision & Mission' of Institute and programme offering Departments, and with programme Educational Objectives (PEOs), Programme Outcomes as mandated by National Board of Accreditation (NBA) have been considered as points of reference for curriculum revision. Taking into account the need/ demand of industry and society, the courses such as 'Vocational Training (Industrial/ In-plant Training), Seminar and Development of Life Skills for all the programmes have been introduced as compulsory. To accommodate these additional courses and other requirements, the credits of each programme have been enhanced from 184 to 194.

'Skill India', 'Digital India' and 'Make in India' the flagship programmes/ initiatives of Government of India and State of Maharashtra have been the basic considerations in the curriculum revision process.

I deem this is as an opportune moment to recall the following proverb/quote which I view as highly relevant, on the occasion of writing the preface.

"If you are planning for a year, sow rice; if you are planning for a decade, plant trees; if you are planning for a lifetime, educate people." – a Chinese proverb &

As the Indian Education Commission of 1964-66, also known as the Kothari Commission, it is stated that

"The destiny of our country is being shaped in our classrooms".

I take great pride in appreciating the efforts of Faculty of all Departments. All Faculty have taken determined efforts under the guidance of NITTTR Bhopal, Industry experts , academicians and Curriculum Development & Implementation Cell (CDIC) in the revision of curricula. I appreciate the contribution of alumni, students and faculty by making valuable suggestions /feedback for the revision of curricula.

I wish to assure, that the curriculum of all programmes will be implemented in true spirit to achieve the intended educational objectives of the programme.

(Prof. F.A.Khan)

Principal

Government Polytechnic, Aurangabad

INDEX

Sr. No.	Contents	Page No.		
1	Preface	i-ii		
2	Vision Mission of Institute	v		
3	Vision Mission of Department	v		
4	Scope	vi		
5	Philosophy of OBE	vii-x		
6	Flowchart of Design and Development of OBE	xi		
7	Skill Identification and Area of Employment	xii- xiii		
8	Job Functions	xiv-xv		
9	Programme Educational Objectives	xvi		
10	Programme Outcomes &Programme Specific Outcomes	xvii		
11	Mapping of Misssion&Programme Educational Objectives	xviii		
12	Mapping of Programme Educational Objectives and Programme Outcomes	xviii		
13	Mapping of Programme Outcomes and Courses	xix-xxi		
14	Scheme at a glance	xxii		
15	Level Wise Courses	xxiii-xxvii		
16	Sample Path	xxviii		
17	Semester wise Courses Table	xxix-xxxiv		
18	Award Winning Courses	xxxv		
19	Course Contents	Course Code	Page No.	
Semester-I				
1	Fundamentals of Fashion Drawing	FFD	6D101	1-6
2	Introduction to Pattern Making	IPM	6D102	7-12
3	Introduction to Sewing Techniques	IST	6D103	13-18
4	Tools for apparel Construction	TAC	6D104	19-25
5	Fabric Ornamentation	FOR	6D105	26-30
6	English	ENG	6G301	31-36
7	Basics of Computer System	BCS	6G203	37-45
8	Development of Life Skills	DLS	6G303	46-54
Semester-II				
9	Elements of Garment Construction	EGC	6D201	55-60
10	Fundamentals of Textile	FTX	6D203	61-65
11	Fashion Drawing	FDR	6D204	66-70
12	Regional Embroidery	RGE	6D205	71-77
13	Communication Skills	CMS	6G302	78-83
14	Environmental Science	EVS	6G304	84-92

Semester-III				
15	Drafting and Pattern Construction	DPC	6D202	93-100
16	Computer Aided Designing	CAD	6D206	101-105
17	Indian Costume	ICS	6D302	106-111
18	Fashion Illustration	FIL	6D402	112-116
19	Pattern Alteration and Grading	PAG	6D404	117-122
20	Indian Textile and World Embroidery	ITE	6D407	123-128
Semester-IV				
21	Graphic Designing	GAD	6D207	129-132
22	Apparel Merchandising	APM	6D304	133-138
23	Advance Fashion Illustration	AFI	6D403	139-143
24	Advance Pattern Construction	APC	6D405	144-150
25	Textile Process	TPR	6D408	151-156
26	Entrepreneurship Development	EDP	6G306	157-165
27	Apparel Construction Specialization- Level-I	ACS-I	6D413	166-170
28	Value Addition Specialization –Level-I	VAS-I	6D414	171-175
29	CAD- CAM Specialization – Level-I	CAM-I	6D415	176-180
Semester-V				
30	History of World Costume	HWC	6D303	181-186
31	Technology of Clothing Mfg.	TCM	6D401	187-193
32	Garment Construction Process	GCP	6D406	194-199
33	Draping Technique	DPT	6D409	200-205
34	Seminar	SEM	6D412	206-211
35	Portfolio Development	PRD	6D503	212-216
36	Apparel Construction Specialization- Level-II	ACS-II	6D505	217-221
37	Value Addition Specialization –Level-II	VAS-II	6D507	222-227
38	CAD- CAM Specialization – Level-I I	CAM-II	6D509	228-232
Semester-VI				
39	Advance Computer Aided Designing	ACD	6D301	233-237
40	Fashion Retailing	FRT	6D305	238-243
41	Vocational Training	VTR	6D410	244-253
42	Project	PRO	6D411	254-259
43	Creative Fashion Presentation	CFP	6D501	260-265
44	Apparel Production Process	APP	6D502	266-272
45	Apparel Construction Specialization- Level-I II	ACS-III	6D506	273-277
46	Value Addition Specialization –Level-III	VAS-III	6D508	278-282
47	CAD- CAM Specialization – Level-III	CAM-III	6D510	283-286
Committees				
	Board of Studies			287
	Programme wise Board of Studies			288
	Examination Committee			289

Government Polytechnic, Aurangabad.

VISION OF THE INSTITUTE:

“To be the internationally accredited institute that contributes in the development of competent professionals and entrepreneurs on the platform of technology based systems blended learning & training by highly qualified and trained staff.”

MISSION OF THE INSTITUTE

“To educate and train the students for making globally competent individuals, professionals, technicians and skilled human resources through world class curriculum, student centric academic systems, team of committed, trained faculty and staff contributing to the students, successful employment and entrepreneurship with a spirit of patriotism & concern for environment”

Department Of Dress Designing and Garment Mfg.

Program Vision

Empower Women in Garment Designing & Making, with respect to Indian Heritage & Global trends.

Program Mission

- 1 To create a learning environment that provides skills, creativity and Industry exposure so as to practice design interventions right from the adornment of the material to the finished Garment and fulfill the clothing needs of the society.
- 2 To enhance the presentation skills, entrepreneurial abilities & development of social values, human ethics for the careers in Garment mfg. units.
- 3 To harness human resource for sustainable growth by inculcating the Philosophy of continuous learning and innovation in Dress Designing and Garment Manufacturing field.

SCOPE:

*The recent Economic Survey 2016-17 of the ministry of finance analyses the growth of the apparel sector, and reveals that there is ample scope for development. The Indian apparel industry can grow considering that China is losing ground due to various factors including a rise in labour wages. However, there are certain factors that are hindering the growth of the sector, which need to be tackled to ensure its unprecedented growth. A **Market Intelligence-Fibre2Fashion** report.*

The Economic Survey, the flagship annual document of the ministry of finance, represents the annual economic performance of the Indian economy. It is presented every year in Parliament by the ministry a day before the presentation of the Union Budget. It reviews the performance of key development programmes the policy initiatives of the government, and forecasts the effect of different government initiatives from short term to long term.

The apparel sector is growing in India as people are more concerned about their lifestyle and thus, the demand for branded and quality clothes across the country as well as across the globe has gone up. During 2015-16, the apparel sector contributed 42 per cent of the total share in textiles and apparel exports of India. The apparel sector has a huge potential for employment generation especially for women.

The apparel sector is the second largest labour intensive sector after footwear. It is dominated by female workers, driving the cause of women empowerment. Women empowerment leads to the development of the country with the growth of the apparel sector.

An Approach to Curriculum Design and Development Based upon Outcome Based Education (OBE) Philosophy as adopted for Sixth Revision of Curriculum of Government Polytechnic Aurangabad .

Introduction:

After conferring academic autonomy to Government Polytechnics during Second Technician World Bank Assisted Project (Tech Ed II) implemented from 1992 to 1999 the curriculum revision process is being carried out after every 4-5 years. Our Institute, being Academically Autonomous since 1994, has been following the same practice and hence this sixth revision of curriculum for all programmes.

Curriculum, as per Colombo Plan Staff College Manila (1984), means *‘an educational programme designed, developed and implemented to attain predetermined educational objectives.’* Therefore curriculum ought to be designed for achieving purpose, objectives, outcomes that are decided well in advance. More over curriculum at any level, let it be at unit, at course, at course category or at programme level at the top, comprises of (Ralph Tylor 1949) rationale, objectives/ outcomes, content, Learning -Teaching strategies (LTS) and finally student’s assessment and evaluation.

We are in the era where technical manpower in general and engineering technicians in particular are required to solve or assist in solving engineering problems from nano – micro level to mega level (Jeff Lohmann 2009). It is expected from him/ her in that case to use knowledge of not only technology but also natural sciences (animate, inanimate and psycho socio sciences) and mathematics. Moreover he/ she is required to use advance IT based tools and techniques in diagnosing faults and carry out maintenance. Further technical manpower should have ability to work in team, communicate effectively, and remain updated of technologies they are expected to deal with.

As per research on curriculum in engineering and technology, education carried out in different parts of world it is concluded that philosophy, framework, approach and model that is to be used for developing technical manpower with such profile should be Interdisciplinary – integrated curriculum.

Therefore the philosophy of curriculum development used in revising sixth curriculum has been Integrated – interdisciplinary in nature to achieve outcome based technical education .

Even though all prevailing & necessary apt theories of curriculum design are used in the curriculum development process the existing curriculum has been questioned for its ability to provide clearly stated learning outcomes and therefore it is right time that the revised curricula

requires that it should give enough clarity as regards intended learning outcomes to all concerned – first to the student, then to the teachers and the industry, followed by all the other stakeholders. This meant that the curriculum should explicitly state as to what are the observable and measurable ‘competencies’ expected by the industry. Such ‘competencies’ comprising of measurable ‘Course outcomes’ in the ‘cognitive domain’, measurable associated practical outcomes in the form of practical exercises in the ‘psychomotor domain’ and measurable social skills related to the ‘affective domain’ will help the students and teachers in knowing the ‘length, breadth and depth’ of the course necessary to achieve the competency.

Therefore Curriculum need to be outcome-based where competencies / program outcomes and course outcomes are measurable.

We are in the era of accords viz. Washington, Sidney, Dublin Accords in which gradation of any engineering and technology programme is carried out using outcome based criteria in signatory countries. It was the outcome based criteria, which was devised for the first time by Accreditation Board for Engineering and Technology (ABET), that is being followed in USA for grading programmes for their quality since 1998. It is the industry which made educational institutes to go for outcome based criteria popularly known as EC 2000 where main emphasis is over outcomes – what he/ she knows and what he/ she is able to do.

National Board of Accreditation (NBA) has been practicing outcome based criteria in grading educational programmes of institutes awarding diploma and degree in engineering and technology. In that case the board empowered to undertake exercise of accrediting programmes has developed indigenous criteria for diploma programmes as follows: -

- i. Vision, mission and programme educational objectives
- ii. Programme outcomes
- iii. Programme curriculum
- iv. Students performance
- v. Faculty
- vi. Facilities and technical support
- vii. Academic support unit and teaching learning process
- viii. Governance
- ix. Institutional support and finance resources
- x. Continuous improvement

As All India Council for Technical Education (AICTE) has made it mandatory to institutions to follow curricular processes for extending Outcome Based Technical Education and get programme accredited from NBA.

2. Philosophy for Sixth Revision of Curriculum adopted at Government Polytechnic Aurangabad :

Sixth revision of Curriculum uses model, approach, philosophy evolved over the years in other part of the world and accepted by our nation through National Board of Accreditation (NBA). being signatory of Washington Accord. It is the curriculum development philosophy that will enable institutes to impart Outcome based education (OBE). It is essential in that case to design a programme curriculum, develop resources for implementing it, implement it and undertake student's assessment and evaluation to impart OBE.

As regards, sixth revision of curriculum, which is based primarily on Outcome Based Education philosophy, follows the following stages.

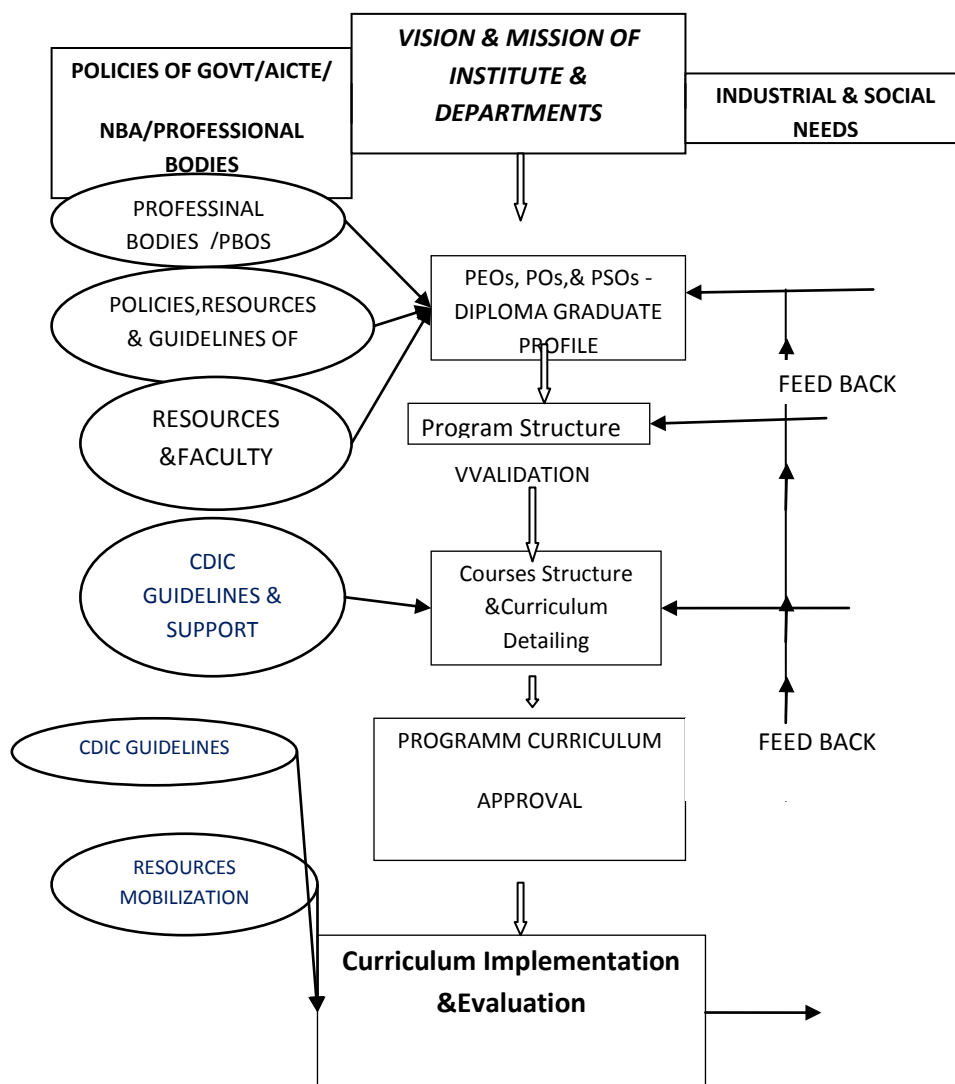
1. Occupation analysis.
2. Formulation of Vision & Mission of Institute/Department.
3. Formulation of Diploma graduate attributes and Programme Educational Objectives.
4. Evolve Program Structure.
5. Evolve Course structure, Course Competencies, Course Outcomes & Curriculum detailing of each course.
6. Approval of Curriculum
7. Implementation of Curriculum.

Approach to Curriculum Design and Development for Sixth Revision of Curriculum based upon above stages has been elaborated and depicted schematically as below.

In line with above stages, the institute ,under the guidance of NITTTR Bhopal organized the search conference/workshop involving industry personnel from several industries in the region covering all sectors related to 8 programmes run in the institute . This led to occupation analysis, knowing industry and society expectations as regards diploma graduate / engineer to arrive at profile of diploma engineers.

Institute also carried meetings and deliberations with stake holders to formulate the renewed Vision & Mission of Institute and departments as well. The Vision & Mission so formulated have been considered as the terms of references in curriculum revision process.

CURRICULUM DEVELOPMENT APPROACH



CURRICULUM DEVELOPMENT APPROACH

Skill identification (Analysis of feedback given by industry expert, alumni, stake holders, academicians of relevant field).

1. Apply Designing and Pattern making skills for garment production of various lines.
2. Draw Technical sketches for product development.
3. Analyze the Construction Skills With Best Finishing Processes
4. Add Value to the fabric by applying various Surface ornamentation techniques.
5. Operate Industrial Machinery Safely & Correctly.
6. Supervising the Garment Manufacturing Process.
7. Grade & Manipulate the paper pattern for product development.
8. Develop Managerial Abilities & Analytical Abilities.
9. Identify Regional Splendor Of Indian Costumes & Understand The Diversity Of Folk Costume.
10. Develop Skills in Written and Verbal Communication.
11. Application of Fundamentals of textile in designing
12. Develop the self confidence in ability to obtain entry level job that leads to a designer merchandizing position.

Area of Employment for Fashion Technologists

Sr. No.	Type of industries/ organizations	Capacity (Designation) in which employed
i)	Entrepreneur	Proprietor
ii)	Industrial Corporation (In Clothing)	Production Manager/ Quality supervisor ,
iii)	Garment manufacturing unit	Assistant Merchandiser, Merchandiser. Assistant Production In charge. Freelance Designer, Value addition in Embroidery, value addition in screen printing, Pattern engineer , Grader Technician
iv)	Boutique	Dress Designer, Pattern engineer, Stitching Technician, Textile Embellisher, Illustrator.
v)	Diploma Institutions	Faculty, Faculty Instructor, lab Assistant.
vi)	Fashion Consultancy	Fashion Consultant, Forecaster, Fashion buyer, Illustrator, Accessory Designer,
vii)	Value Addition unit	Embroider, Screen printer
viii)	Kids wear Unit	Kids wear Designer
ix)	Men's wear unit	Men's wear Designer
X)	Women's wear unit	Women's wear Designer
xi)	Chain store organizations (Apparel)	Visual Merchandiser, Freelance Designer, Computer aided Designer, illustrator.

JOB FUNCTIONS

Sr. no.	Designations of the diploma holders in various employment	Job functions
i)	Entrepreneur	<ul style="list-style-type: none"> • Project Management • Plan, estimate, procure and install equipments required. • Arrange Human resource wherever necessary. • Administer and manage working of various tasks to run the unit smoothly. • Advertisement skill for the Name & Fame of the Boutique/ Unit. • Marketing skills
ii)	Dress Designer	<ul style="list-style-type: none"> • Designing Dresses as per the specialization required. (Freelance Designing / Illustrations) / • Computer aided designing. • Collection Planning. • Plan, Estimate & Implement for sample production.
iii)	Production Manager	<ul style="list-style-type: none"> • Understand customer profile. • Get Details of sampling from Merchandiser. • Approval from customer & issuing work order to various departments. • Check timely status of the order & solve the problems. • In time dispatch of orders.
iv)	Quality Supervisor	<ul style="list-style-type: none"> • Establish Standard appropriate to quality objectives. • Carry Inspection routines. • Correct the deviations • In time reporting of Quality to production manager. • Dispatch to finishing department & Packing as per requirement of buyers.
v)	Fashion Merchandiser/ Assistant merchandiser.	<ul style="list-style-type: none"> • Get information of customer profile. • Fabric & Accessory sourcing. • Preparation of P.P. Samples • Consult production manager for production.

		<ul style="list-style-type: none"> Follow up of packing in correct ratios & dispatching.
vi)	Visual Merchandiser.	<ul style="list-style-type: none"> Plan the peak days of the consumer demand. Finalize the various themes for presentation. Collection of the material required for the presentation. Present the collection in various ways.
vii)	Fashion Consultant.	<ul style="list-style-type: none"> Advice in Freelancing as per requirement. Advice in corporate sector as per requirement.
viii)	Kids/ Men's/ Women's wear Designer.	<ul style="list-style-type: none"> Designing Dresses as per the specialization required. (Freelance Designing / Illustrations) / Computer aided designing. Collection Planning. Plan, Estimate & Implement for sample production.
ix)	Boutique Manager.	<ul style="list-style-type: none"> Project Management Plan, estimate, procure and install equipments required. Arrange Human resource wherever necessary. Administer and manage working of various tasks to run the unit smoothly. Advertisement skill for the Name & Fame of the Boutique/ Unit.
x)	Clothing Embellisher in specific areas like embroider/ screen printing/ tie & dye	<ul style="list-style-type: none"> Follow instruction of Art given by Merchandiser. Maintain quality in Art work as per work order. Dispatching to production department with proper ticketing.

Programme Educational Outcomes

- Students will design garments considering current trends and forecasting as per needs of society.
- Students will pursue higher studies in designing, garment technology, merchandising & fashion communication.
- Students will execute career in garment industries & academics considering green and responsible fashion.
- Students will have self-employment in designing, pattern making, surface ornamentation and graphic designing.

Program Outcomes and Programme Specific Objectives:

1. **PO1 Basic Knowledge:** Apply basic technical knowledge and informative sources for manufacturing apparel of various lines.
2. **PO2 Discipline knowledge:** Designing, manufacturing & promoting for all lines.
3. **PO3 Experiments and practice:** Furnish creativity and develop skills in designing & manufacturing with modern software usage.
4. **PO4 Engineering tools:** Apply pattern making tools and industrial machineries to develop ready to wear.
5. **PO5 The Engineer and the society:** Develop the desire to read, analyze, modify and make the fashion required for the society.
6. **PO6 Environment and Sustainability:** Understand the need of recycling and eco-friendly techniques in apparel mfg. for sustainable environmental development.
7. **PO7 Ethics:** Apply ethical principles for commitment to professional ethics, responsibilities and norms of the practice in field of apparel design and dress making.
8. **PO8 Individual and Team work:** An ability to work effectively as a leader and team member in diverse and multidisciplinary teams.
9. **PO9 Communication:** Communicate effectively in oral and written form as per field requirement.
10. **PO10 Life- long learning skills:** Inculcate life- long learning skills with respect to Dress designing and garment mfg.

Programme Specific Outcomes:-

- 1 Specialised surface ornamentation skills for professional practice
- 2 Specialised Designing & Pattern making skills for professional practice
- 3 Modern software usage for apparel designing & manufacturing.

Mapping of Mission and programme Educational outcomes.

Sr. No.	No.	Mission Statement	PEO
1	M1	To create a learning environment that provides skills, creativity and industry exposure so as to practice design interventions right from the adornment of the material to the finished Garment and fulfill the clothing needs of the society.	I & III
2	M2	To enhance the presentation skills, entrepreneurial abilities & development of social values, human ethics for the careers in Garment mfg. units.	I & II
3	M3	To harness human resource for sustainable growth by inculcating the Philosophy of continuous learning and innovation in Dress Designing and Garment Manufacturing field.	I & III

Mapping of Programme Educational Objectives and programme outcomes

Sr. No.	NO	Programme Educational Objectives	Programme Outcomes
1	I	Students will design garments considering current trends and forecasting as per needs of society.	PO 1,2,3,5, 10 PSO 1,2
2	II	Students will pursue higher studies in designing, garment technology, merchandising & fashion communication.	PO 2,3,4, 6,7,8,9 PSO 2
3	III	Students will execute career in garment industries & academics considering green and responsible fashion.	PO 1,2,3,4,5,7,8,10 PSO 1, 2, 3
4	IV	Students will have self-employment in designing, pattern making, surface ornamentation and graphic designing.	PO 1,2,3,4,5,7,8,10 PSO 1, 2, 3

Mapping of Programme Outcomes and Courses.

Sr. No.	Programme Outcomes	Name of the courses
1	PO1 Basic Knowledge: Apply basic technical knowledge and informative sources for manufacturing apparel of various lines.	Fundamentals of Fashion Drawing Introduction to pattern making Tools for Apparel Construction Fabric ornamentation Elements of Garment Construction Fundamentals of Textile Basic Computer System Indian Costume History of World Costume Textile Process Regional Embroidery Indian Textile & World Embroidery
2	PO2 Discipline knowledge: Designing, manufacturing & promoting for all lines.	Fundamentals of Fashion Drawing Tools for Apparel Construction Indian Textile & World Embroidery Regional Embroidery Drafting and Pattern construction Fashion Drawing Fashion Retailing Apparel Merchandising Apparel Production Process Technology of Clothing Mfg. Pattern Alteration and Grading Draping Techniques Creative Fashion Presentation Portfolio Development Project Seminar Fashion Illustration Computer Aided Designing Graphic Designing Advanced Fashion Illustration Regional Embroidery Indian Textile & World Embroidery
3	PO3 Experiments and practice: Furnish creativity and develop skills in designing & manufacturing with modern software usage.	Computer Aided Designing Graphic Designing Portfolio Development Project Fashion Illustration Introduction to Pattern Making Fabric Ornamentation Fashion Drawing

		Advanced Computer aided Designing Textile process Draping Techniques Regional Embroidery Creative Fashion Presentation Indian Textile & World Embroidery Advanced Fashion Illustration Advanced Pattern Construction Garment Construction Process Drafting and Pattern construction Pattern Alteration and Grading Fundamentals of Fashion Drawing Computer aided Level-I,II,III Value Addition Level-I,II,III Apparel Construction –Level-I,II,III
4	PO4 Engineering tools: Apply pattern making tools and industrial machineries to develop ready to wear.	Introduction to sewing Techniques Tools for Apparel Construction Introduction to pattern Making Advanced Pattern Construction Garment Construction Process Drafting and Pattern construction Apparel Construction –Level-I,II,III Project
5	PO5 The Engineer and the society: Develop the desire to read, analyze, modify and make the fashion required for the society.	Fundamentals of Fashion Drawing Portfolio Development Entrepreneurship Development Project Seminar Vocational Training Creative Fashion Presentation Environmental Science Development of Life Skills Pattern Alteration and Grading Fashion Illustration Value Addition Level-I Apparel Merchandising Apparel Construction Specialization – Level-I,II,III
6	PO6 Environment and Sustainability: Understand the need of recycling and eco- friendly techniques in apparel mfg. for sustainable environmental development.	Environmental Science Introduction to Sewing Techniques Fabric Ornamentation Textile Process
7	PO7 Ethics: Apply ethical principles for commitment to professional ethics,	Value Addition Level-II Fashion Retailing

	responsibilities and norms of the practice in field of apparel design and dress making	Creative Fashion Presentation Development of Life Skills
8	PO8 Individual and Team work: An ability to work effectively as a leader and team member in diverse and multidisciplinary teams.	Tools for Apparel Construction Project Seminar Creative Fashion Presentation Development of Life Skills Vocational Training
9	PO9 Communication: Communicate effectively in oral and written form as per field requirement.	Tools for Apparel Construction Communication Skills English Creative Fashion Presentation Development of Life Skills Apparel Production Process Fashion Retailing Apparel Merchandising
10	PO10 Life- long learning skills: Inculcate life- long learning skills with respect to Dress designing and garment mfg.	Project Seminar Vocational Training Regional Embroidery Creative Fashion Presentation Computer aided Level-I,II,III Value Addition Level-I,II,III Apparel Construction –Level-I,II,III
11	Specialised surface ornamentation skills for professional practice	Value Addition Level-I,II,III Computer aided Level-I Regional Embroidery Indian Textile & World Embroidery
12	Specialised Designing &Pattern making skills for professional practice	Value Addition Level-I,II,III Apparel Construction –Level-I,II,III
13	Modern software usage for apparel designing & manufacturing.	Computer aided Level-I,II,III Computer Aided Designing Graphic Designing Advanced Computer Aided Designing Value Addition Specialization Level-I

Programme Structure

Sr.no	Level	% Credits of total	No. of Credits				No. of Courses		Total Exam Heads		Total Marks	
			L	T	P	Total	Compulsory	Optional	Theory	Non theory	Theory	Non theory
1	Foundation	11	09	1	12	22	05	--	02	03	100	300
2	Basic	22	13	0	29	42	08	--	04	04	200	500
3	Allied	20	20	1	18	39	12	02 non exam	05	05	450	350
4	Applied	35	23	1	44	68	12	1/3	05	08	350	1200
5	Diversified	12	08	0	15	23	3	2/6	02	03	150	400
	Total	100	73	3	118	194	40	05			1250	2750
Total Marks											4000	

Scheme at a Glance:

Total Courses= (Compulsory+ Optional+ Non exam) =40+03+02=45

Total Credits= (Theory + Practical +Non-exam) =76+114+4=194

Credit Ratio = Theory:40% : Practical: 60%

Level: 1 Foundation Level Courses

Sr. no.	Course Code	Course Name	Teaching Scheme					Examination Scheme					
			L	T	P	Cr	Sem	Pt	Th	Pr	Tw	Or	Total
1.	6D101	Fundamentals of Fashion Drawing	3	0	3	06	I	10	40	25@	50	---	125
2.	6D102	Introduction to pattern making	1	0	3	04	I	--	--	25@	50	--	075
3.	6D103	Introduction to sewing Techniques	1	0	3	04	I	--	--	25@	50	--	075
4.	6D104	Tools for Apparel Construction	3	1	0	04	I	10	40	--	--	--	50
5.	6D105	Fabric ornamentation	1	0	3	04	I	--	--	25@	50	--	075
Total			09	01	12	22	--	20	80	100	200	--	400

Scheme at Glance:

Note: Symbol [@ Internal practical exam] [# External practical exam]

Total number of courses offered: 05

Number of Compulsory courses: 05

Number of Optional courses: Nil

Total Courses: 05

Total Credits: 22

Total Marks: 400

Level: 2 Basic Level Courses

Sr. no.	Course Code	Course Name	Teaching Scheme					Examination Scheme					
			L	T	P	Cr	Sem	Pt	Th	Pr	Tw	Or	Total
1	6D201	Elements of Garment Construction	3	0	6	09	II	10	40	25@	50	--	125
2	6D202	Drafting & Pattern Construction	3	0	06	09	III	10	40	50#	50	--	150
3	6D203	Fundamentals of Textile	3	0	00	03	II	10	40	--	--	--	50
4	6D204	Fashion Drawing	1	0	04	05	II	--	--	25@	50	--	075
5	6D205	Regional Embroidery	3	0	03	06	II	10	40	25@	50	--	125
6	6D206	Computer Aided Designing	0	0	04	04	III	--	--	25@	50	--	075
7	6D207	Graphic Designing	0	0	04	04	IV	--	--	25@	25	--	050
8	6G203	Basic of Computer System	0	0	2	02	I	--	--	25@	25	--	050
TOTAL			13	0	29	42		40	160	200	300	--	700

Scheme at Glance:

Note: Symbol [@ Internal practical exam] [# External practical exam]

Total number of courses offered: 08

Number of Compulsory courses: 08

Number of Optional courses: Nil

Total Courses: 08

Total Credits: 42

Total Marks: 700

Level: 3 Allied Level Courses

Sr. no.	Course Code	Course Name	Teaching Scheme					Examination Scheme					
			L	T	P	Cr	Sem	Pt	Th	Pr	Tw	Or	Total
1	6G301	English	2	0	02	04	I	20	80	--	25	--	125
2	6G302	Communication Skills	1	0	02	03	II	--	--	--	50	25@	075
3	6G303	Development of Life skills	0	0	02	02	I	---	---	--	25	25@	050
4	6G304	Environmental science	0	0	02	02	II	---	---	--	50	---	050
5	6G306	Entrepreneurship Development	2	0	02	04	IV	---	---	--	50	---	050
6	6D301	Advanced Computer aided Designing	0	0	04	04	VI	--	--	50#	50	---	100
7	6D302	Indian Costume	3	1	00	04	III	10	40	--		--	050
8	6D303	History of World Costume	04	0	00	04	V	20	80	--	--	--	100
9	6D304	Apparel Merchandising	04	0	00	04	IV	20	80	--	--	--	100
10	6D305	Fashion Retailing	4	0	00	04	VI	20	80	--	--	--	100
11	6G311 Onwards	Non - Exam	0	0	02	02	II	--	--	--	--	--	--
12		Non-Exam	0	0	02	02	III	--	--	--	--	--	--
TOTAL			20	1	18	39	---	90	360	50	250	50	800

Scheme at Glance:**Note: Symbol [@ Internal practical exam] [# External practical exam]**

Total number of courses offered: 12

Number of Compulsory courses: 12

Number of Optional courses: Nil

Total Courses: 12

Total Credits: 39

Total Marks: 800

Level: 4 Applied Level Courses

Sr. no.	Course Code	Course Name	Teaching Scheme					Examination Scheme					
			L	T	P	Cr	Sem	Pt	Th	Pr	Tw	Or	Total
1	6D401	Technology of clothing manufacturing	04	1	00	05	V	20	80	--	--	--	100
2	6D402	Fashion Illustration	01	0	03	04	III	--	--	50@	50	--	100
3	6D403	Advanced Fashion Illustration	01	0	03	04	IV	--	--	50#	50	--	100
4	6D404	Pattern alteration & Grading	02	0	02	04	III	---	---	50@	50	--	100
5	6D405	Advance Pattern construction	03	0	06	09	IV	10	40	50#	50	--	150
6	6D406	Garment Construction Process	03	0	06	09	V	10	40	50#	50	--	150
7	6D407	Indian Textile and Embroidery	04	0	03	07	III	20	80	50#	50	--	200
8	6D408	Textile process	03	0	03	06	IV	10	40	50#	50	---	150
9	6D409	Draping Techniques	02	0	04	06	V	--	--	50@	50	--	100
10	6D410	Vocational Training	00	0	04	04	VI	--	--	--	50	50#	100
11	6D411	Project	00	0	04	04	VI	--	--	--	100	50#	150
12	6D412	Seminar	00	0	02	02	V	--	--	--	25	25#	050
13	Any one from Group A												
1	6D413	Apparel Construction Specialisation (Level-1)	00	0	04	04	IV	--	--	50@	50	--	100
2	6D414	Value Addition Specialisation (Level-1)											
3	6D415	Cad CAM Specialisation (Level-1)											
TOTAL			23	1	44	68	---	70	280	450	625	125	1550

Scheme at Glance:**Note:** Symbol [@ Internal practical exam] [# External practical exam]

Total number of courses offered: 15

Number of Compulsory courses: 13

Number of Optional courses: 3

Total Credits: 68

Total Marks: 1550

Level : 5 Diversified Level

Sr. no	Course Code	Course Name	Teaching Scheme					Examination Scheme					
			L	T	P	Cr	Sem	Pt	Th	Pr	Tw	Or	Total
1.	6D501	Creative Fashion Presentation	3	0	3	06	VI	10	40	50@	50	--	150
2.	6D502	Apparel Production process	4	0	0	04	VI	20	80	--	--	--	100
3.	6D503	Portfolio development	1	0	4	05	V	--	---	50#	50	---	100
4.Any one from Group B													
1	6D505	Apparel Construction Specialisation (Level-2)	0	0	4	04	V	--	--	50@	50	--	100
2	6D507	Value Addition Specialisation (Level-2)											
3	6D509	CAD CAM Specialisation (Level-2)											
5.Any one from Group C													
1	6D506	Apparel Construction Specialisation (Level-3)	0	0	4	04	VI	--	--	50#	50	--	100
2	6D508	Value Addition Specialisation (Level-3)											
3	6D510	CAD CAM Specialisation (Level-3)											
TOTAL			8	0	15	23	---	30	120	200	200	---	550

Scheme at Glance:

Note: Symbol [@ Internal practical exam] [# External practical exam]

Total number of courses offered: 9

Number of Compulsory courses: 03

Number of Optional courses: 02 out of 06

Total Courses: 05

Total Credits: 23

Total Marks: 550

SAMPLE PATH

Stream of course entrance	I Sem ODD	II Sem EVEN	III Sem ODD	IV Sem EVEN	V Sem ODD	VI Sem EVEN
10+	Fundamentals of Fashion Drawing 6D101 (3+0+3) [FFD]	Elements of Garment Construction 6D201 (3+0+6) [EGC]	Drafting And Pattern Construction 6D202 (3+0+6) [DPC]	Graphic Designing 6D207 (0+0+4) [GAD]	History of World Costume 6D303 (4+0+0) [HWC]	Advance Computer aided Designing 6D301 (0+0+4) [ACD]
	Introduction to Pattern Making 6D102 (1+0+3) [IPM]	Fundamentals of Textile 6D203 (3+0+0) [FTX]	Computer Aided Designing 6D206 (0+0+4) [CAD-I]	Apparel Merchandising 6D304 (4+0+0) [APM]	Technology of clothing manufacturing 6D401 (4+1+0) [TCM]	Fashion Retailing 6D305 (4+0+0)[FRT]
	Introduction to Sewing Techniques 6D103 (1+0+3) [IST]	Fashion Drawing 6D204(1+0+4) [FDR]	Indian Costume 6D302 (3+1+0) [ICS]	Advance Fashion Illustration 6D403 (1+0+3) [AFI]	Garment Construction process 6D406 (3+0+6) [GCP]	Vocational Training (0+0+4)[VT] 6D410
	Tools for Apparel Construction 6D104 (3+1+0)[TAC]	Regional Embroidery 6D205 (3+0+3) [RGE]	Fashion Illustration 6D402 (1+0+3) [FIL]	Advance Pattern Construction 6D405 (3+0+6) [APC]	Draping Technique 6D409 (2+0+4) [DPT]	Project 6D411 (0+0+4) [PRO]
	Fabric ornamentation 6D105 (1+0+3)[FOR]	Communication Skills 6G302 (1+0+2) [CMS]	Pattern Alteration & Grading 6D404 (2+0+2) [PAG]	Textiles Process 6D408 (3+0+3) [TPR]	Seminar 6D412 (0+0+2) [SEM]	Creative Fashion Presentation 6D501 (3+0+3) [CFP]
	English (2+0+2) 6G301 [ENG]	Environmental Science 6G304 (0+0+2) [EVS]	Indian Textile & Embroidery 6D407 (4+0+3) [ITE]	Entrepreneurship Development 6G306 (2+0+2) [EDP]	Portfolio Development 6D503 (1+0+4) [PRD]	Apparel Production Process 6D502 (4+0+0) (APP)
	Basic of Computer System 6G203 (0+0+2) [BCS]	Non – Exam (0+0+02)	Non – Exam (0+0+2)	Any one from	Any one from	Any one from
	Development of Life skills 6G303 (0+0+2)			Apparel Construction Specialisation 6D413 (Level-1) 0+0+4	Apparel Construction Specialisation 6D505 (Level-2) 0+0+4	Apparel Construction Specialisation 6D506 (Level-3) 0+0+4
				Value Addition Specialisation 6D414 (Level-1) 0+0+4	Value Addition Specialisation 6D507 (Level-2) 0+0+4	Value Addition Specialisation 6D508 (Level-3) 0+0+4
				CAD CAM Specialisation 6D415 (Level-1) 0+0+4	CAD CAM Specialisation 6D509 (Level-2) 0+0+4	CAD CAM Specialisation 6D510 (Level-3) 0+0+4
Total	00	30	60	94	129	164
	30	30	34	35	35	30
						194

Semester-I

Sr. no	Course Code	Course Name	Teaching Scheme				Examination Scheme					
			L	T	P	Cr	Pt	Th	Pr	Or	Tw	Total
1	6D101	Fundamentals of Fashion Drawing	3	0	3	06	10	40	25@	--	50	125
2	6D102	Introduction to Pattern Making	1	0	3	04	--	--	25@	--	50	075
3	6D103	Introduction to Sewing Techniques	1	0	3	04	---	----	25@	--	50	075
4	6D104	Tools for Apparel Construction	3	1	0	04	10	40	--	--	--	050
5	6D105	Fabric Ornamentation	1	0	3	04	----	---	25@	---	50	075
6	6G301	English	2	0	2	04	20	80	--	--	25	125
7	6G203	Basic of Computer System	0	0	2	02	--	--	25@	--	25	050
8	6G303	Development of Life Skills	0	0	2	02	---	---	---	25@	25	050
TOTAL			11	01	18	30	40	160	125	25	275	625

Note: Symbol [@ Internal practical exam] [# External practical exam]

Semester-II

Sr. no	Course Code	Course Name	Teaching Scheme				Examination Scheme					
			L	T	P	Cr	Pt	Th	Pr	Or	Tw	Total
1	6D201	Elements of Garment Construction	3	0	06	09	10	40	25@	--	50	125
2	6D203	Fundamentals of Textile	3	0	00	03	10	40	--	--	--	050
3	6D204	Fashion Drawing	1	0	04	05	--	--	25@	--	50	075
4	6D205	Regional Embroidery	3	0	03	06	10	40	25@	--	50	125
5	6G302	Communication Skills	1	0	02	03	--	--	--	25@	50	075
6	6G304	Environmental Science	0	0	02	02	---	---	---	--	50	050
7		Non - Exam	0	0	02	02	--	--	--	--	--	--
Total			11	0	19	30	30	120	75	25	250	500

Note: Symbol [@ Internal practical exam] [# External practical exam]

Semester-III

Sr. no	Course Code	Course Name	Teaching Scheme				Examination Scheme					
			L	T	P	Cr	Pt	Th	Pr	Tw	Or	Total
1	6D202	Drafting And Pattern Construction	3	0	06	09	10	40	50#	50	--	150
2	6D206	Computer Aided Designing	0	0	04	04	--	--	25@	50	--	075
3	6D302	Indian Costume	3	1	00	04	10	40	--	--	--	050
4	6D402	Fashion Illustration	1	0	03	04	--	--	50@	50	--	100
5	6D404	Pattern alteration & Grading	2	0	02	04	---	---	50@	50	--	100
6	6D407	Indian Textiles and Embroidery	4	0	03	07	20	80	50#	50	--	200
7		Non-Exam	0	0	02	02	--	--	--	--	--	--
Total			13	1	20	34	40	160	225	250	---	675

Note: Symbol [@ Internal practical exam] [# External practical exam]

Semester-IV

Sr. no	Course Code	Course Name	Teaching Scheme				Examination Scheme					
			L	T	P	Cr	Pt	Th	Pr	Tw	Or	Total
1	6D207	Graphic Designing	0	0	4	04	--	--	25@	25		050
2	6D304	Apparel Merchandising	4	0	0	04	20	80	--	--	--	100
3	6D403	Advanced Fashion Illustration	1	0	3	04	--	--	50#	50	--	100
4	6D405	Advance Pattern Construction	3	0	6	09	10	40	50#	50	--	150
5	6D408	Textiles Process	3	0	03	06	10	40	50#	50	--	150
6	6G306	Entrepreneurship Development	2	0	2	04	---	---	--	50		050
7	Any one from group A											
1	6D413	Apparel Construction Specialisation (Level-1)	0	0	4	04	--	--	50@	50	--	100
2	6D414	Value Addition Specialisation (Level-1)										
3	6D415	CAD CAM Specialisation (Level-1)										
TOTAL			13	0	22	35	40	160	225	275	--	700

Note: Symbol [@ Internal practical exam] [# External practical exam]

Semester-V

Sr. no	Course Code	Course Name	Teaching Scheme				Examination Scheme					
			L	T	P	Cr	Pt	Th	Pr	Tw	Or	Total
1	6D303	History of World Costume	4	0	00	04	20	80	--	--	--	100
2	6D401	Technology of clothing manufacturing	4	1	00	05	20	80	--	--	--	100
3	6D406	Garment Construction process	3	0	6	09	10	40	50#	50	--	150
4	6D409	Draping Techniques	2	0	4	06	--	--	50@	50	--	100
5	6D412	Seminar	0	0	2	02	--	--	--	25	25#	050
6	6D503	Portfolio Development	1	0	4	05	--	--	50#	50	---	100
7	Any one from groupB											
1	6D505	Apparel Construction Specialisation (Level-2)	0	0	4	04	--	--	50@	50	--	100
2	6D507	Value Addition Specialisation (Level-2)										
3	6D509	CAD CAM Specialisation (Level-2)										
TOTAL			14	1	20	35	50	200	200	225	25	700

Note: Symbol [@ Internal practical exam] [# External practical exam]

Semester-VI

Sr. no	Course Code	Course Name	Teaching Scheme				Examination Scheme					
			L	T	P	Cr	Pt	Th	Pr	Tw	Or	Total
1	6D301	Advanced Computer Aided Designing	0	0	4	04	--	--	50#	50		100
2	6D305	Fashion Retailing	4	0	0	04	20	80	---	----	----	100
3	6D410	Vocational Trainng	0	0	4	04	---	---	---	50	50#	100
4	6D411	Project	0	0	4	04	--	--	--	100	50#	150
5	6D501	Creative Fashion Presentation	3	0	3	06	10	40	50@	50---	--	150
6	6D502	Apparel Production Process	4	0	0	04	20	80	---	---	---	100
7	Any one from group C											
1	6D506	Apparel Construction Specialisation (Level-3)	0	0	4	04	--	--	50#	50	--	100
2	6D508	Value Addition Specialisation (Level-3)										
3	6D510	CAD CAM Specialisation (Level-3)										
TOTAL			11	0	19	30	50	200	150	300	100	800

Note: Symbol [@ Internal practical exam] [# External practical exam]

Award of Diploma

Sr. no	Course Code	Course Name	Teaching Scheme					Examination Scheme					
			L	T	P	Cr	Sem	Pt	Th	Pr	Tw	Or	Total
1.	6D501	Creative Fashion Presentation	03	0	03	06	VI	10	40	50	50	--	150
2.	6D502	Apparel Production Process	04	0	00	04	VI	20	80	--	--	--	100
3.	6D503	Portfolio Development	01	0	04	05	V	---	---	50	50	--	100
4.	6D406	Garment Construction Process	03	0	06	09	V	10	40	50	50	--	150
5.	6D301	Advanced Computer aided Designing	0	0	04	04	VI	--	--	50	50	---	100
6.	6D408	Textile Process	03	0	03	06	IV	10	40	50	50	---	150
7.	6D305	Fashion Retailing	04	0	00	04	VI	20	80	---	----	---	100
8.	6D411	Project	00	0	04	04	VI	--	--	--	100	50	150
9.	6D407	Indian Textile &Embroidery	04	0	03	07	III	20	80	50	50	--	200
10.	6D412	Seminar	00	0	02	02	V	--	--	--	25	25	050
11 Any one from GroupA													
1	6D413	Apparel Construction Specialisation (Level-1)	00	0	04	04	IV	--	--	50	50	--	100
2	6D414	Value Addition Specialisation (Level-1)											
3	6D415	CAD CAM Specialisation (Level-1)											
12 Any one from GroupB													
1	6D505	Apparel Construction Specialisation (Level-2)	00	0	04	04	V	--	--	50	50	--	100
2	6D507	Value Addition Specialisation (Level-2)											
3	6D509	CAD CAM Specialisation (Level-2)											
13 Any one from GroupC													
1	6D506	Apparel Construction Specialisation (Level-3)	00	0	04	04	VI	--	--	50	50	--	100
2	6D508	Value Addition Specialisation (Level-3)											
3	6D510	CAD CAM Specialisation (Level-3)											
TOTAL			22	0	41	63	---	90	360	450	575	75	1550

No. of courses: 13 No. of Theory heads: 07 No. of Non- theory: 06 Theory Marks: 450 Term work marks: 575 Practical Marks: 450 Oral Marks: 75 Total Marks for Award Diploma: 1550

COURSE TITLE: Fundamentals of Fashion Drawing**COURSE CODE: 6D101****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	First

1. RATIONALE

This course provides foundation for drawing, which enables the students to develop skills of illustration. Pupil can better organize and communicate the thought by learning the language of elements of drawing. The course develops hands on skill for fashion sketching and further developing dress design portfolios.

2. COMPETENCY

“Select different colors, elements, principles concepts to develop Garment Design Process.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE@ (PR)	PA (TW)	
3	0	3	6	40	10	25@	50	
Duration of the Examination (Hrs)				2	1	4	-	

Legends: L- Lecture; T- Tutorial/Teacher Guided Theory Practice; P-Practical;

C- Credit; ESE- End Examination; PT- Progressive Test; PA-Progressive Assessment,

OR- Oral Examination, TW- Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

1. Select relevant dry & wet media for drawing process
2. Apply the basic elements and principles of design and know the various silhouettes of garments to design dresses for all lines.
3. Analyze the standard figure and compare figure types and its challenges and advice dressing to conceal figure drawbacks.
4. Identify different colour combinations/ schemes and harmonies
5. Select colour harmonies and schemes to understand its effect on illusion.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Introduction to Drawing Basics.	1a. Identify & select different materials used in basic drawing. 1b. Differentiate between dry & wet media. 1c. Describe different textile	1.1 Different material used in basic drawing with their features and purpose. 1.2 Different Dry & Wet media such as- poster & water colors, dry & oil pastels.

	families. 1d. Justify selection of drawing material according to texture effects.	1.3 Study of textile families.
Unit– II Study of Elements &Principles of Design	2a. Explain different elements of design & principles of design. 2b. Differentiate between Structural design& Decorative Design 2c. Describe types of silhouette with its features. 2d. Develop a model to select appropriate color, silhouette & texture according to figure type.	2.1 Different elements of design- Line, Color, Texture, Details. 2.2 Different principles of design- Proportion, Rhythm, Balance, Harmony, Emphasis. 2.3 Study of Structural Design & Decorative Design 2.4 Definition of silhouette. 2.5 Types of silhouette with their features. - Straight, Triangular, oval
Unit– III Study of Do's & Don'ts for different figure types	3a. Describe the standards of human figure & different types of figures . 3b. Compare human figure with fashion figure. 3c. Justify with examples criteria for selection of proper garment elements for different type of human figures.	3.1 Definition of standard figure. 3.2 Difference between Human & Fashion figure. 3.3 Do's & Don'ts for Top Heavy & bottom Heavy, Tall & thin , Tall & stout. Short & thin & short & stout.
Unit– IV Color Concept.	4a. Explain Newton's color theory& color terminology. 4b. Compare Additive with Subtractive color theory. 4c. Identify Advancing& Receding color	4.1 Colour Terminology–Hue, Chroma, Value, Intensity, Tints, shades, Tones, Advancing& Receding color, Cool & warm colors. 4.2 Newton's color theory. 4.3 Additive color theory. 4.4 Subtractive color theory
Unit – V Color Harmonies &Perception of Color.	5a. Describe Triad color Harmony& Discord color Harmony. 5b. Explain Achromatic, Monochromatic Complementary, Split Complementary color scheme.	5.1 Triad color Harmony. 5.2 Achromatic & Monochromatic. 5.3 Complementary & Split Complementary. 5.4 Discord color Harmony.

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	Introduction to Drawing Basics.	08	2	2	2	6
II	Study of Elements & Principles of Design	12	2	4	4	10
III	Study of Do's & Don'ts for different figure types	08	2	2	2	6
IV	Color Concept.	10	4	4	2	10
V	Color Harmonies & Perception of Color.	10	2	4	2	8
Total		48	12	16	12	40

Legends: R = Remembrance; U = Understanding; A = Application and above levels

(Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	Exercise on Dry & Wet media such as- poster & water colors, dry & oil pastels.	06
2	I	Exercise on textile families with Repeat.- (any two) Floral, Ethnic, Geometrical, Conversational.	06
3	II	Different elements of design- Line, Texture, forms & shape	06
4	II	Different principles of design- Proportion, Rhythm, Balance, Harmony, Emphasis. (using templates)	12
5	II	Exercise on Structural Design & Decorative Design	03
6	II	Types of silhouette with their features. - Straight, Triangular, Oval, Ample, Waisted line –I&II (pencil rendering)	06
7	III	Campus survey for analyze different figure types.	03
8	IV	Color wheel of 18 Colors with tints & shades.	06
TOTAL			48

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment

of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

1. Prepare journals based on different design elements.
2. Collect different pictures of costume from internet & study design principles in garment.
3. Collect pictures of garment from magazines which shows application of different lines.
4. Identify silhouette while window shopping & sketch it in your sketch book.
5. Create texture with varied media that reflect different looks.
6. Find out collages of different color schemes.
7. Prepare survey report on different types of Indian Figure.
8. Prepare Power point on different colour media .i.e.colored pencil, marker, watercolor, etc.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

1. Arrange visits to Fashion House to study elements, principles & silhouette of Costumes.
2. Motivate students to use internet and collect information regarding topics.
3. Arranging Garment Designing competitions among students.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Joy Of Drawing.	Bill Martine.	ISBN 0-8230-2370-2
2	Clothing Decision –	Anita Webb & Rosalyn Lester.	B.T.Batsford ISBN-10:0026680106
3	Fashion Design Illustration(Women)	Patrick John Ireland	B.T.Batsford ISBN-10:0713466227
4	Textile Design	Suzan Meller & Joost Elffers.	Harry N. Abrams ISBN10:0810938537
5	Fashion Source Book	Kathryn Mckelvy.	Blackwell ISBN 10:0632039930
6	Beyond Design	Sandra Keiser	Fairchild Books ISBN 9788-160901-226-7
7	Color Forecasting	Tracy Diane & Tom Cassy	Black well Publishers ISBN:1405139692

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	Drawing Table/ Board	Ms steel square pipe 16 gauge, stands of powder coating painted. Knobs for adjustments, with standard size top.
2	Drawing Pencils, colours (Wet, Dry), brushes, drawing sheets (etc.)	Pencil set from 2B to 9B ,poster colors and water colors ,pencil colors set of 12,round and flat brushes from 0 ,00 to 8 no.

		Cartridge sheets.
--	--	-------------------

12. LEARNING WEBSITE AND SOFTWARE

1. <https://creativemarket.com/blog/20123/12/02/10-basic-elements-of-design>
2. <https://www.youtube.com/watch?v=GigfWyFAe7Y>
3. <http://www.fashionillustrationtribe.com/art-supplies-for-fashion-illustration>
4. https://en.wikipedia.org/wiki/Theory_of_Colours
5. https://en.wikipedia.org/wiki/Subtractive_color
6. https://en.wikipedia.org/wiki/Additive_color
7. www.tigercolor.com/color-lab/color-theory/color-harmonies.htm

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's) WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Select relevant dry & wet media for drawing process	1	--	1	--	--	--	--	--	--	--	--	--	--
CO2	Apply the basic elements and principles of design and know the various silhouettes of garments to design dresses for all lines.	1	2	3	--	--	--	--	--	--	--	--	--	--
CO3	Analyze the standard figure and compare figure types and its challenges and advice dressing to conceal figure drawbacks.	1	--	--	--	2	--	--	--	--	--	--	--	--
CO4	Identify different colour combinations/ schemes and harmonies	1	--	3	--	--	--	--	--	--	--	--	--	--
CO5	Select colour	1	--		--	--	--	--	--	--	--	--	--	--

	harmonies and schemes to understand its effect on illusion			2										
--	--	--	--	---	--	--	--	--	--	--	--	--	--	--

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	A V Ramaiya	Lect. In DDGM, GPA

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: INTRODUCTION TO PATTERN MAKING**COURSE CODE:6D102****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	FIRST

1. RATIONALE

This course deals with the fundamentals of drafting garments. The course helps in understanding the human body dimensions. Considering the various shapes and contours of human figure in adult size of women as well as children, develop block set (outline of bodice, skirt and sleeve) as a base for making designs in garments which can be used in further courses of garment manufacturing.

2. COMPETENCY

Develop basic block set to adapt fashion pattern for various size and age group.

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE@ (PR)	PA (TW)	
1	0	3	4	0	0	25@	50	75
Duration of the Examination (Hrs)				-	-	4	-	

Legends: L- Lecture; T- Tutorial/Teacher Guided Theory Practice; P-Practical;

C- Credit; ESE- End Examination; PT- Progressive Test; PA-Progressive Assessment, OR-Oral Examination, TW- Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

1. Select the different techniques of taking measurements.
2. Draft the basic skirt pattern set for women as well as for children.
3. Measure the various dimensions, shapes and contours of human figure.
4. Prepare the bodice and sleeve block for various age of kids and for different sizes in women.
5. Develop the trouser block, dress block on the basis of block set

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Taking measurements	1a. Understand the physique structure (Size, shape and contours) of human body and various features of human body of male female and kids. 1b. Describe the girth & vertical measurements.	1.1 Individual measurements 1.2 Standard measurements [from charts] Adults Standard measurement

	<p>1c. Differentiate between Standard measurement & Individual.</p> <p>1d. Describe need for special measurement.</p> <p>1e. Explain the mechanism of measuring body measurements</p>	s [from charts] Children.
Unit– II Basic skirt Blocks	<p>2a. Explain Draft of basic skirt block with & without dart.</p> <p>2b. Select proper size chart.</p> <p>2c. Prepare full size paper cutting of basic skirt with & without dart.</p> <p>2d. Explain draft of A-line skirt block for 5years children.</p> <p>2e. Prepare full size paper cutting of A-line skirt.</p> <p>2f. Explain draft of basic skirt block for adults size 12.</p> <p>2g. Prepare full size paper cutting of basic skirt block for adults size 12</p>	<p>2.1 1:4 scale Template, Draft of Basic skirt block [for Children] 1:4 scale Template, Draft of A line skirt Block [for Children]</p> <p>2.2 1:4 scale Template, Draft of Basic skirt block [for adults]</p>
Unit– III Basic Blocks & Supplementary Block	<p>3a. Understand the physique structure (Size, shape and contours) of human body and various features of human body of male female and kids for bodice.</p> <p>3b. Explain draft of basic bodice block & basic sleeve block with & without dart for children.</p> <p>3c. Prepare full size paper cutting of basic bodice block & sleeve block for children.</p> <p>3d. Explain draft of basic bodice block & basic sleeve block for adults.</p> <p>3e. Prepare full size paper cutting of basic bodice block & sleeve block for adult.</p> <p>3f. Explain draft of dart less bodice block for adults.</p> <p>3g. Prepare full size paper cutting for dart less bodice block for adults.</p>	<p>3.1 1:4 scale Template, Draft of Basic Bodice block & Basic sleeve block [for children]</p> <p>3.2 1:4 scale Template, Draft of Basic Bodice block & Basic sleeve block [for adults]</p> <p>3.3 1:4 scale template, Draft of Dart less Bodice Block (for adults)</p>
Unit-IV Basic Dress Block	<p>4a. Draft the Dress block</p> <p>4b. Adapt the basic block set for Dress block</p> <p>4c. Explain the dress block for children.</p> <p>4d. Prepare full size paper pattern of dress block for children.</p> <p>4e. Explain dress block for adult.</p> <p>4f. Prepare full size paper cutting of dress block for adults.</p>	<p>4.1 Dress block for Children.(1:4 scale Template)</p> <p>4.2 Dress block for Adult.(1:4 scale Template)</p>

Unit-V Draft of Trouser block	5a. Draft the Trouser block 5b. Explain the draft of Trouser block for children. 5c. Prepare full size paper cutting of Trouser block for children.	5.1 1:4 scale Template, Draft of Trouser block [for Children]
--	---	---

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	Taking measurements	02	00	00	0	00
II	Basic skirt Blocks	04	00	00	00	00
III	Basic Blocks & Supplementary Block	06	00	00	00	00
IV	Basic Dress Block	02	00	00	00	00
V	Draft of Knickers' Block/Trouser block	02	00	00	00	00
Total		16	00	00	00	00

Legends: R = Remembrance; U= Understanding; A= Application and above levels (Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	a) Measure Individual measurements. b) Compare standard measurements with individual measurements.[from charts] Adults and children.	04
2	II	Draft 1:4 scale Template & full size Paper cutting of With & without dart of Basic skirt block for children.	06
3	II	Draft 1:4 scale Template & full size paper cutting of A line skirt Block for Children.	04
4	II	Draft 1:4 scale Template & full size paper cutting of Basic skirt block for adults.	06
5	III	Draft 1:4 scale Template & full size paper	06

		cutting of with & without dart of Basic Bodice block & Basic sleeve block for children.	
6	III	Draft 1:4 scale Template & full size paper cutting of Basic Bodice block & Basic sleeve block for Adults.	05
7	III	Draft 1:4 scale template and full size paper cutting of Dart less Bodice Block for adults.	05
8	IV	Draft 1:4 scale template & full size paper cutting of Dress block for children.	04
9	IV	Draft 1:4 scale template & full size paper cutting of Dress block for adults.	04
10	V	Draft 1:4 scale trouser block and develop changes for knickers' block	04
		TOTAL	48

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

- Market Survey to collect blocks used by at least three/ five local boutiques.
- Prepare the measurements of different sizes to understand the various dimensions, shapes and contours of human figure of your family members.
- Prepare blocks any three individual measurements.
- Collect samples of ready- made skirts/ dress from your wardrobe to compare with each other.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

- Demonstration
- Activity based Learning

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Metric pattern cutting for women's	Winifred Aldrich	Blackwell science ISBN 10 : 1405102780
2	Metric pattern cutting for children	Winifred Aldrich	Blackwell science ISBN 10 : 140518292X
3	Lingerie wear	Ann Hagar	ISBN 13 :978- 1405118583
4	Drafting patterns	Natalie Bray	ISBN13 :978- 0632065011

5	Pattern Making	Armstrong	ISBN 13:978-0060403324
6	Art Of Sewing	Annna Jacob Thomas	Ubs Publisher & distributors Ltd. ISBN:8185944326

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	Dress forms of size 08,12,10.	Kid's, Women standard size dress forms.
2	Scale triangle, Full scale, Hip curve, L-Square, Yard stick, French curve, measuring Tape etc, scissor etc.	Stationary ,equipments/ pattern making tools

12. LEARNING WEBSITE AND SOFTWARE

1. <https://www.youtube.com/watch?v=-Z2hvYFkUF0>
2. www.leenas.com/English/draw_bodice.html
3. www.welcometothemousehouse.com/how-to-draft-basic-bodice-tutorial.html
4. <https://www.youtube.com/watch?v=iaGmxDpi8pk>
5. <http://www.burdastyle.com/techniques/drafting-the-basic-skirt>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's)WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Select the different techniques of taking measurements.	3	1	1	2	1	--	--	--	--	--	--	---	--
CO2	Draft the basic skirt pattern set for women as well as for children.	3	2	1	3	1	--	--	--	--	--	--	---	--
CO3	Measure the various dimensions, shapes and contours of human figure.	3	3	--	2	--	--	--	--	--	--	--	---	--
CO4	Prepare the bodice and sleeve block	3	1	1	2	--	--	--	--	--	--	--	---	--

	for various age of kids and for different sizes in women.													
CO5	Develop the trouser block, dress block on the basis of block set	3	1	1	2	--	--	--	--	--	--	--	---	--

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	Mrs. A. L. Rode	Lect. In DDGM, GPA
2	Mrs. N.R. Lakhotiya	Lect. In DDGM, GPA

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Introduction to Sewing Techniques (IST)**COURSE CODE:6D103****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	First

1. RATIONALE

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 matching also the course develops hands on skill for methods of garment closure including button, buttonholes, through which students learn the most basics of stitching crafts for further garment making.

2. COMPETENCY

“Apply construction techniques for quality garments”.

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE@ (PR)	PA (TW)	
1	0	3	4	00	00	25@	50	75
Duration of the Examination (Hrs)				-	-	4	-	

Legends: L- Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-**Practical;

C- Credit; **ESE-** End Examination; **PT-** Progressive Test; **PA-**Progressive Assessment, **OR-**Oral Examination, **TW-** Term Work; # External, @ Internal

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

1. Apply various stitches while developing apparel.
2. Select the types of seam& seam finishes while constructing garments
3. Develop fullness to the garments with various pleats and tucks.
4. Prepare a sample of Gathers, Shirring, and Ruffles. &calculate the material required for frills of different length & width.
5. Identify different types of placket& neckline finishes with their application.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit-I Construction Basics	1a. Identify the different parts of sewing machine 1b. Handle sewing machine. 1c. Prepare samples of	1.1 Cleaning, Oiling&handling of sewing machine 1.2 Temporary stitches : Even Basting, Uneven Basting

	Permanent & Temporary stitches.	,Upright Basting & Diagonal Basting 1.3 Permanent Stitches : Running Stitch, Hemming, Over Casting
Unit-II Seams and Seam finishes	2a. Prepare samples of seams and seam finishes. 2b. Identify application of all seams and seam finishes in garment construction.	2.1 Plain Seams ,Top Stitched Seam (One Side &Two Side) French Seam, Flat Felled Seam, Hong - Kong Seam 2.2 Types of Seam Finishes Edge Stitched Finish, Pinked Finish& Bias bound Seam Finish
Unit-III Shaping Devices &Introduction to Fullness	3a. Prepare samples of Pleats gathers, shirring, tucks, darts flounces etc. 3b. Identify application of various pleats, gathers, ruffles, tucks, darts, flounces etc. in clothing 3c. Calculate the material required for construction of various pleats, tucks, darts, gathers, ruffles and shirring.	3.1 Pleats- Knife Pleats, Box Pleats,Inverted Box Pleats, Kick pleats. 3.2 Darts and Dart Finishes: Single point, French and Contour (Fish) dart. 3.3 Tucks: Pin tucks, Shell tucks, Graduated, Released, Corded tucks. 3.4 Introduction to Gathers, shirring, ruffles, flounces.
Unit-IV Openings & Neck finishing	4a. Prepare samples of Openings & Neck Finishing's 4b. Select openings according to garment requirements 4c. Design two innovative necklines	4.1 Openings: One piece opening, Two piece opening ,Faced slashed opening 4.2 Neck Finishes: Round Neck, Square Neck, V Neck

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	Construction Basics	04	00	00	00	00
II	Types Of Seam Finishes	04	00	00	00	00
III	Shaping Devices &Introduction to Fullness	04	00	00	00	00
IV	Openings & Neck finishing	04	00	00	00	00
Total		16	00	00	00	00

Legends: **R** = Remembrance; **U**= Understanding; **A**= Application and above levels
(Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	Solve common problem of sewing machine, Handling of sewing machine Construct Basics -Temporary & Permanent Stitches	04
2	II	Develop samples for Seams-Plain Seams ,Top Stitched Seam (One Side &Two Side), French Seam, Flat Felled Seam, Hong - Kong Seam	10
3	II	Make samples Seam Finishes-Edge Stitched finish, Pinked finish, bias bound seam finish.	04
4	III	Develop samples of darts & fullness -Single point dart, French dart ,Contour dart (fish dart) Pleats- Knife Pleats, Box Pleats, Inverted Box Pleats, Kick pleats. Tucks-Pin tuck, Square tucks, Graduated tucks, Released tucks, Shell tucks, Gathers, Shirring, Ruffles.	14
5	IV	Make samples for Openings -One Piece Opening, Two Piece Opening, Faced Slash opening,	08
6	IV	Make samples for Neck finishing-Round Neck Square Neck, V Neck	08
Total			48

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

- 1 Prepare a report on market survey by collecting information on use of different seams& seams finishes in readymade garments.
- 2 Collect pictures of children wear having types of Tucks.
- 3 Draw different patterns of uniform having pleats, darts, tucks and plackets.
- 4 Prepare samples of innovative neck finishes.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

1. Demonstration of sample making and finishing technique in the Sewing lab.
2. Industrial visit to show machine operation techniques and finishing process.

3. Introduce various sewing and other machineries used for garment mfg.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Complete guide to sewing	Reader's digest	Reader's digest ISBN 10:0762104201
2	Encyclopedia of sewing techniques	Jan eaten	Barrons Educational Series ISBN 10:0812058151
3	Clothing Decision -	Anita Webb & Rosalyn Lester.	B.T.Batsford ISBN-10:0026680106
4	Art of Sewing	Anna Jacob Thomas	UBS Publisher ISBN:8185944326
5	Cutting & Sewing 1-2	Nimi	---

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	Juki Lock stitches sewing machine, Bobbin Case & Bobbin, Machine needle -16 no. cloth scissor, small scissor for thread cutting.	SNLM-Medium weight application ,5500 SPM,5mm stitch length,by kneepressurefoot-13mm, Snipper-Anti Rust Coating on Steel@Light Weight Smooth Trimming,Ultra Sharp Blades,Metal Spring-Free Technology .scissor:- Sharp blades and well proportioned hardness, Corrosion and abrasion resistant Sizes: 9/10/11/12-inch,Length: 240mm, 260mm, 280mm, 300mm
2	Cotton Cloth, Tailor chalk , matching sewing thread , hand needle, hooks, buttons	Poplin fabric,tailors chalk –for marking,ball point- hand needles-5-10-number, cheniles-13-26 number,2 &4 holes plastic buttons,stainless steel snap buttons,cotton or polyester sewing thread spools (matching)
3	Plastic ruler, brown paper, drawing sheets for file	Stationery material.

12. LEARNING WEBSITE AND SOFTWARE

1. <https://youtu.be/BvyCf6srAGQ>
2. https://youtu.be/k_fJLdhcK0w
3. <https://youtu.be/FKj6wQ6ssaU>
4. <https://youtu.be/whLFkUHjxOg>
5. <https://youtu.be/O6DrTptHqhM>

6. <https://youtu.be/kKPmC6WNrEk>
7. <https://youtu.be/nvb2TaHUu-U>
8. https://youtu.be/KQ_JgFXhEaE
9. https://youtu.be/dXQ_2Pf9LTY
10. <https://youtu.be/F1dsUtpNEQ>
11. <https://youtu.be/9mGGM5UIWrM>
12. <https://youtu.be/Tfizh2DyFIQ>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's)WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Apply various stitches while developing apparel	1	2	3	2	--	--	--	--	--	--	--	--	--
CO2	Select the types of seam& seam finishes while constructing garments	1	2	--	-	--	--	--	--	--	--	--	--	--
CO3	Develop fullness to the garments with various pleats and tucks.	1	2	3	3	--	--	--	--	--	--	--	--	--
CO4	Prepare a sample of Gathers, Shirring, and Ruffles. &calculate the material required for frills of different length & width	1	3	3	3	--	--	--	--	--	--	--	--	--
CO5	Identify different types of placket& neckline finishes with their application.	1	3	3	3	--	--	--	--	--	--	--	--	--

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	Mrs.R.S.Joshi	Lecturer,DD&GM, GPA
2.	P. J. Lanjewar	Lecturer,DD&GM, GPA

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Tools for Apparel Construction(TAC)**COURSE CODE:6D104****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	First

1. RATIONALE

This subject introduces students with various types of tools, equipments and domestic machine used for garment construction. The course helps to understand the standards that maximize the quality of product by selecting various sewing attachments and trimmings for particular function in manufacturing. This core course highlights the importance of sewing equipments and thus coordinates the knowledge with all apparel construction courses.

2. COMPETENCY

“Select tools and application of domestic machine with its accessories”.

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE@ (PR/OR)	PA (TW)	50
3	1	0	4	40	10	0	0	
Duration of the Examination (Hrs)				2	1	-	-	

Legends: L- Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-**Practical;

C- Credit; **ESE-** End Examination; **PT-** Progressive Test; **PA-**Progressive Assessment, **OR-**Oral Examination, **TW-** Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

- 1 Identify equipments and tools used for giving a finished touch to the apparel.
- 2 Prepare a domestic sewing machine for stitching.
- 3 Recognize the suitability of different pressure foot according to job operation.
- 4 Select proper sewing tools, aids, notions ,supplies, needle & thread types according to fabric types.
- 5 Select fasteners according to the design & use of the clothing

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Tools For Clothing Construction	<p>1a. Describe the importance of required tools for clothing construction, pinning tools with its applications.</p> <p>1b. Differentiate between Measuring tape & Yard stick; Scissor & Shears.</p> <p>1c. Explain the different features of marking tools; different sewing tools with its uses; Pressing tools according to fabric & parts of garment</p>	<p>1.1 Measuring Tools - Measuring Tape, Seam Gauge, Yard stick OR Meter Stick, L-square, Scale triangle, Transparent Ruler and Skirt Maker Etc.</p> <p>1.2 Pinning tools - Silk Pins, Ball Point Pins, T -Pins , Cushion Etc.</p> <p>1.3 Marking tools - Tracing Wheel, Dressmakers Tracing Paper, Tailors Chalk, Marking pens, Awls/stiletto. etc.</p> <p>1.4 Cutting tools – Shears, Scissors, Dress Makers Shears, Scalloping shears, Cutting table etc.</p> <p>1.5 Sewing tools and finishing tools – Thimble, Needle threader, Bodkin, Sewing Tape Pointer, etc. Needle- Hand Needle (Milliners, Bodkin, Leather , Chenilles , Tapestry & Darners) Machine Needle- (Flat, Round, Twin & Triple Needle.)</p> <p>1.6 Pressing tools- A sleeve board, Press mitt, Tailor ham, Seam roll, Tailors Board, Velvet or needle Board, Point presser Ironing Board.</p> <p>1.7 General Tools- Sewing Threads with Nos.(cotton, nylon, polyester, silk & metallic) Mirror, Hangers & Models/Dress forms, muslin etc.</p> <p>1.8 Packaging tools.</p>
Unit– II Introduction to Sewing machine	<p>2a. Explain the history of sewing machine; basic sewing machine parts with its function & diagram; the sequence of lower & upper threading by demo on sewing model; care of sewing machine for smooth running ; common faults occur in sewing machine.</p>	<p>2.1 History of Sewing Machine.</p> <p>2.2 Study of single needle lock stitch sewing machine with its purpose.</p> <p>2.3 Single needle lock stitch sewing machine parts with functions & diagram.</p> <p>2.4 Threading (Lower & Upper)</p> <p>2.5 Sewing machine care</p> <p>2.6 Cleaning & Oiling of sewing</p>

	<p>2b. Describe different remedies to overcome the problems occur in sewing machine.</p> <p>2c. Develop a model to select appropriate configuration of needle sizes, thread size suitable to different fabric quality for stitching on sewing machine</p>	<p>machine</p> <p>2.7 Common faults, causes & remedies of sewing machine.</p> <p>2.8 Selection of needle & thread according to the fabric.</p>
Unit– III Description & function of sewing machine attachments	<p>3a. Explain different types of pressure foot</p> <p>3b. Describe suitability of different pressure foot according to job operation.</p> <p>3c. Justify with examples criteria for selection of proper pressure foot according to job operation in garment industry</p>	<p>3.1 Pressure Foot- Roller foot, binding foot, zipper foot, Teflon coated foot, Cording foot, Shirring foot, Gathering foot Single Turn Hemming Foot, and Stitching guide & Compensating Foot.</p>
Unit-IV Different Types Of Sewing Supplies	<p>4a. Describe different parts of needle; the importance of needles; the physical properties of thread; different sewing thread packages.</p> <p>4b. Explain different needle points for different fabric types; the methods of calculating thread consumption; the ticket numbering system.</p>	<p>4.1 Needle- Details of Needle.</p> <p>4.2 Needle Shapes, Needle Point Thread- Strengths, Elasticity, Uniform Thicknesses, Smoothness</p> <p>4.3 Thread Consumption, Sewing Thread Packages & Ticket Number.</p>
Unit-V Trimming and Fasteners	<p>5a. Describe different types of snaps with their features .</p> <p>5b. Explain types of buttons and Zippers with its parts..</p>	<p>5.1 5.1 Snap-basic snap, covered snap, no-sew snap.</p> <p>5.2 Buttons-Button size chart, Shank Button, Sew through Button , corded button, covered button.</p> <p>5.3 Hooks & Eyes.</p> <p>5.4 Zippers-Parts of zipper.</p> <p>5.5 Types of zipper-Conventional zipper, Separating zipper, Invisible zipper.</p>

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R	U	A	TOTAL

			Level	Level	Level	
I	Tools For Clothing Construction	12	2	2	4	08
II	Introduction to Sewing machine	10	2	4	4	10
III	Description & function of sewing machine attachments	10	2	4	2	08
IV	Different Types Of Sewing Supplies	10	2	2	4	08
V	Trimming and Fasteners	06	2	2	2	06
	Total	48	10	14	16	40

Legends: R = Remembrance; U= Understanding; A= Application and above levels
(Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	Collect & compare different measuring tools like measuring tape, yard stick or meter stick, L- square, scale triangle, transparent ruler and skirt marker.	03
2	II	Prepare the chart of common faults, causes & remedies of basic sewing machine	02
3	II	Draw the diagram of Basic sewing machine and label its parts.	02
4	II	Prepare a diagrammatic flow chart of upper & lower threading of basic sewing machine	01
5	II	Analyze the specifications, costs, quality and availability of various types of domestic lock stitch machine in Domestic Market	02
6	III	Collect different types of Pressure foot.	01
7	IV	Collect & Prepare journals of different types of thread packages with their label.	02
8	V	Collect & Prepare journals of different fasteners.	03
Total			16

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

1. Solve machine problems in department machine laboratory
2. Interact with three boutique owners and list common troubles found in sewing machine
3. Analyze the specifications, costs, quality and availability for various types of domestic machines, threads, needles and pressure foot in local market.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

1. Arrange guided industrial visits to garment industry and demonstrate machine settings, special foot attachment.
2. Motivate students to use internet and collect name, addresses, catalogues, rates, specifications of manufacturers of sewing machines and equipments.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Encyclopedia of sewing techniques	Jan Eaton	Barrons Educational Series- ISBN10:0812058151
2	Clothing Decisions	Anita Webb-Lupo	Macmillan/McGraw-Hill ISBN10-0026680106
3	Guide to Clothing –	Theodora Faiola Priest Jo Ann Pullen	GLENCOE/McGraw-HILL ISBN:0-07-050941-7
4	Complete guide to sewing	Reader's digest	Reader's digest ISBN10:0762104201
5	Fashion Production Terms	Debbie Anngioello	Fairchild Publication ISBN10:0870052004

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	Measuring tape, yard stick or meter stick, 1-square, scale triangle	Plastic 60 inch length and 1.6 cm wide measuring tape., 12cm & 6 inch ruler seam gauge
2	Cutting tools – Shears, Scissors, Dress Makers Shears, Scalloping shears, Cutting table etc	Scissor-Sharp blades and well proportioned hardness Corrosion and abrasion resistant Sizes: 9/10/11/12-inch Length: 240mm, 260mm, 280mm, 300mm, 8 inch stainless steel blades for scallop shear,
3	Domestic sewing model/Industrial sewing	SNLM-Medium weight

	machine	application ,5500 SPM,5mm stitch length,by kneepressurefoot-13mm,
4	Dress form, mirror ,trimming &fasteners	8-12 size dress forms,two and four hole plastic buttons,metalbuttons,snaps, Velcro etc.

12. LEARNING WEBSITE AND SOFTWARE

1 <https://textinfo.wordpress.com/2011/12/17/tools-used-in-garment-construction/>

2 https://www.youtube.com/watch?v=CvLUC4_ITBY

3 <https://en.wikipedia.org/wiki/Sewing>

4 <http://www.abakhan.co.uk/haberdashery/fastenings.html>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's)WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Identify equipments and tools used for giving a finished touch to the apparel	2	--	--	--	--	--	--	--	--	--	--	--	--
CO2	Prepare a domestic sewing machine for stitching.	--	1	--	2	--	--	--	1	1	--	--	--	--
CO3	Recognize the suitability of different pressure foot according to job operation.	2	--	--	--	--	--	--	--	--	--	--	--	--
CO4	Select proper sewing tools, aids, notions ,supplies, needle & thread types	2	--	--	--	--	--	--	--	--	--	--	--	--

	according to fabric types.													
CO5	Select fasteners according to the design & use of the clothing.	2	--	--	--	--	--	--	1	1	--	--	--	--

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	Mrs. A.V. Ramaiya	Lecturer in DDGM, GPA

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Fabric Ornamentation (FOR)**COURSE CODE:6D105****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	First

1. RATIONALE

This course provides knowledge and skill about different techniques which are useful to create texture/surface to richly embellish fabric. This course also helps to add splendor to clothes using decorative methods of handicrafts to adorn garments and articles with own style, more tastefully and skillfully according to the design.

2. COMPETENCY

“Incorporate relevant fabric ornamentation technique for designing dresses”.

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)				Total Credits (L+T+P)	Examination Scheme(Marks)				Total
					Theory		Practical		
L	T	P	C	ESE	PT	ESE@ (PR)	PA (TW)		
1	0	3	4	00	00	25@	50	75	
Duration of the Examination (Hrs)				-	-	4	-		

Legends: L- Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-**Practical;

C- Credit; **ESE-** End Examination; **PT-** Progressive Test; **PA-**Progressive Assessment, **OR-**Oral Examination, **TW-** Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

1. Identify the different tools and equipments required for embroidery
2. Perform the various stitches of stitch families and classify them.
3. Prepare attractive and delicate hems using latest and fancy trimmings such as crochet.
4. Apply different ways to create texture of fabrics. For ex. smocking.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Introduction to embroideries	1a. Describe the tools & supplies used in embroidery. 1b. Explain charting of design; enlarging & reducing of design; design transfer technique.	1.1 Definition of Embroidery. 1.2 Tools & supplies for Embroidery. 1.3 Embroidery Fabrics – 1.4 Yarns & threads- 1.5 Types of needles 1.6 Hoops & frames- 1.7 Design transfer materials- 1.8 Charting of design-
Unit– II Introduction to stitch	2a. Explain stitch families. 2b. Describe running stitches & back stitches; herring	2.1 Flat–Running, Back, Satin, Fishbone, Herringbone, Chevron, Sheaf-

families	bone, fishbone & looped stitch family; Chevron sheaf stitch. 2c. Differentiate between running & back stitch. 2d. Develop a design to select appropriate stitch of respective families	2.2 Looped –Feather, Creaton, Vandyke, Chain, Wheat ,Buttonhole. 2.3 Knotted-French, Bullion, Corel. 2.4 Couching-Romanian, Spider web (Single sample for each family).
Unit –III Crochet	3a. Describe crochet terminology. 3b. Explain the basic stitches used in crochet. 3c. Demonstration of stitches. Half , Single, Double, Triple	3.1 Crochet basics 3.2 Crochet terminology 3.3 Basic crochet rules, turning chain- 3.4 Different crochet stitches- Half , Single, Double, Triple.
Unit-IV Smocking	4a. Explain the smocking & English smocking. 4b. Demonstration of Pre gathering & different smoking stitches.	4.1 Pre gathering 4.2 Different smocking stitches 4.3 English Smocking.

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	Introduction to embroideries	04	00	00	0	00
II	Introduction to stitch families	04	00	00	00	00
III	Crochet	04	00	00	00	00
IV	Smocking	04	00	00	00	00
	Total	16	00	00	00	00

Legends: R = Remembrance; U= Understanding; A= Application and above levels (Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I & II	Prepare a practice sample of Flat Stitch family– Running, Back, Satin, Fishbone, Herringbone, Chavron ,Sheaf	06
2	I& II	Prepare a practicesample of Looped family – Feather, Creaton, Vandyke, Chain, Wheat, and Buttonhole.	06
3	I & II	Prepare a practice sample of Knotted Family - French, Bullion, and Corel.	03
4	I & II	Prepare a sample of Couching- Roumamin, Spider web, Weaving.	06
5	I,II,	Prepare a sample of any one stitch family.	06
6	III	a) Practice &Prepare Half Crochet stitch sample	06

		b) Single Crochet stitch sample	
7	III	c) Double Crochet stitch sample d) Triple Crochet stitch sample	06
8	IV	Prepare pre gathering for English smocking.	03
9	IV	Prepare two samples smocking at least using with 3stitches.(Honeycomb, Herringbone, Cable)	06
TOTAL			48

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

1. Prepare journals based on practical's performed in laboratory.
2. Prepare an article using any embroidery stitch family.
3. Collect three articles from used garments of above surface ornamentation techniques.
4. Collect any three motives used in current articles available in market and analyze the stitch family combined for designing.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

1. Visit to design houses and boutiques, exhibitions and retail outlets for studying embellishment techniques.
2. Motivate students to use internet and collect name, addresses, catalogues, rates, of surface ornamentation workshops.
3. Arrange workshops on latest /trends and techniques of embellishment.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	The complete guide to needle work	Readers Digest	Readers Digest Publication ISBN10:0895770598
2	Needlework & sewing techniques	Pradeep Kumar	Indica Publishers
3	Bats ford embroidery course	Ranne Williams	Batsford Ltd. ISBN10:0713464798
4	Encyclopedia of embroidery	Marion Nichols	Dover Publication ISBN10:0486229297
5	Indian Embroidery-	Kamaladevi Chattopadhyaya	Willey Eastern Ltd. ISBN10:085226111X
6	The Stitches of	Jacqueline Enthoven	Schiffer Publishing-ISBN-10:

	Creative Embroidery		0887401112
--	---------------------	--	------------

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	Sewing machine	Domestic Model-Half Shuttle/Full shuttle, tension assembly, Hinged pressure foot, lever type stitch regulator.
2	Crochet needles	Steel needles of 3.5 to 1.0 Metric size.
3	Embroidery frames & Hand needles	Needles-1-12,18-28-rings-13-27 cm, high quality anchor brand threads of 8. mts each skein

12. LEARNING WEBSITE AND SOFTWARE

- <http://www.craftsy.com/blog/2015/04/hand-embroidery-supplies/>
- http://embroidery.about.com/od/Embroidery-Tools_Supplies/
- <https://www.youtube.com/watch?v=dgDzhXrlt6s>
- [Running stitch - Wikipedia, the free encyclopedia](#)
- www.embroidery.rocksea.org/stitch/fishbone-stitch/

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's) WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Identify the different tools and equipments required for embroidery	2	1	1	--	--	--	--	--	--	--	--	--	--
CO2	Perform the various stitches of stitch families and classify them	3	2	3	--	--	--	--	--	--	--	1	--	--
CO3	Prepare attractive and delicate hems using latest and fancy trimmings such as	3	2	3	--	1	--	--	--	--	--	1	--	--

	crochet													
CO4	Apply different ways to create texture of fabrics. For ex. smocking	3	2	3	--	1	--	--	--	--	--	1	--	--

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	A.L. Rode	Lect. In DDGM, GPA
2	J.S. Lakade	Lect. In DDGM, GPA

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE ENGLISH
COURSE CODE 6G301

Diploma Programme in which this course is offered	Semester in which offered
Common to all programmes	First

1. RATIONALE

English language has become a supreme necessity to pick up a solid core of knowledge. It has a power of linking us with the outside world. Competency in English is also important in business matters like transactions including e-mails, memos, reports and contracts in writing not only for Indian industry, but also worldwide. Students having proficiency in reading, writing and speaking English has become a prospect of employment in the industry. Hence, this course is designed to help the students to communicate in English effectively.

2. COMPETENCY

At the end of studying this course students will be able to

“Communicate in English language in spoken and written form.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (In Hours)				Total Credits (L+T+P)				Examination Scheme		
								Theory Marks	Practical Marks	Total Marks
L	T	P	C	ESE	PT	ESE	PA			
2	-	2	4	80	20	-	25*	125		
Exam Duration				3 Hrs	1 Hr	-	-	-		

(*): Out of 25 marks, 05 marks -micro-project assessment; 20 marks-progressive assessment.

Legends: L-Lecture; T – Tutorial/Teacher Guided Theory Practice; P -Practical; C – Credit, ESE -End Semester Examination; PT- Progressive Test; OR-Oral Examination; PA- Progressive Assessment

4. COURSE OUTCOMES

1. Interpret the meaning of new words from the text.
2. Formulate grammatically correct sentences using new words.
3. Prepare resume in proper format.
4. Use relevant vocabulary to construct sentences.

5. COURSE DETAILS

Unit	Major Learning Outcomes (in cognitive domain)	Topics and Sub-topics
UNIT-I Comprehension	1a. Understanding meaning of new words from the text.	Text from the book & Vocabulary Building 1.1.Man Versus Machine—

	1b. Write summary of the text 1c. Responding to the questions from the text 1d. Express ideas and views on learned topics	M..K..Gandhi 1.2. Say No to Plastic Bags 1.3. Interview of Dr.A.P.J.AbdulKalam 1.4. Dare to Dream- N.R.Narayan Murthy 1.5. The History Maker— MaltiHolla
UNIT-II Functional Grammar	2a. Apply correct verbs in given sentences 2b. Use of correct structures in writing 2c. Identify different types of sentences 2d. Apply correct auxiliaries 2e. Use appropriate connectors in the given sentences 2f. Use appropriate prepositions in the given sentences 2g. Apply correct and exact rules and structures to transform the sentences 2h. Use of correct punctuations in writing	Functional Grammar 2.1.Tenses & Time 2.2. Sentence Patterns 2.3. Types of Sentences 2.4. Modal Auxiliaries 2.5. Connectors 2. 6. Prepositions 2.7. Voice, Degree and Reported Speech 2.8. Punctuation Marks
UNIT-III Craft of writing	3a. Writing a paragraph effectively 3b. Writing e-mail in proper formats 3c. Prepare resume in suitable format	3.1.Paragraph Writing 3.2.E-mail writing 3.3. Resume Writing
UNIT-IV Listening & Speaking Skills	4a. Formulate sentences using new words 4b. Enrich vocabulary through reading and listening 4c. Follow correct pronunciations, intonations & accents in communication	4.1. Importance of effective listening 4.2.Barriers in listening and how to overcome them 4.3Problems in speaking English faced by Indian Students

6. SUGGESTED SPECIFICATION TABLE WITH HOURS AND MARKS (THEORY)

Unit No.	Unit Title	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	Total Marks
I	Text from the book & Vocabulary Building	12	08	12	10	30
II	Functional Grammar	12	05	08	13	26
III	Craft of Writing	06	04	04	08	16
IV	Listening & Speaking Skills	02	02	02	04	08
	Total	32	19	26	35	80

Legends: R = Remembrance; U = Understanding; A = Application and above levels (Revised Bloom's taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from the above table.

7. SUGGESTED EXERCISES/PRACTICALS

The tutorial/practical/exercises should be properly designed and implemented with an attempt to develop different types of cognitive and practical skills (**Outcomes in cognitive, psychomotor and affective domain**) so that students are able to acquire the competencies.

Sr. No.	Unit No.	Practical Exercises (Outcomes in Psychomotor Domain)	Approx. Hrs. required
1.	I	Make Sentences Using Correct Collocations	04
2.	II	Frame Sentences Using Appropriate Preposition/Conjunction	04
3.	III	Make Sentences Using Correct Tenses	04
4.	IV	Make Sentences Using Seven Basic Sentence Patterns	04
5.	V	Transform Sentences in Reported Speech	04
6.	VI	Prepare an Effective Resume in a Proper Format	04
7.	VII	Draft Formal E-mails	04
8.	VIII	Listen a Paragraph/Speech/Story and Make a Summary	04
Total			32

8. SUGGESTED STUDENT ACTIVITIES

Following is the list of proposed student activities like:

- Read newspapers daily.
- Solve exercises on lexical items.

- c. Use apps for practice.
- d. Use pocket dictionary to increase vocabulary.
- e. Listen the news bulletin on radio.
- f. Play different word games to improve vocabulary.
- g. Write different articles & posts.
- h. Practice role-playing.
- i. Write a story of own experiences.
- j. Practice listening comprehension.
- k. Collect articles from newspapers & make a collection.
- l. Practice paragraph writing.
- m. Collect different business letters.

9. SPECIAL INSTRUCTIONAL STRATEGIES (if any)

- a. Arrange different competitions to solve various grammatical items.
- b. Motivate students to listen, speak, read and write English in their day-to-day life.
- c. Student centered methods and techniques of teaching and learning e.g. group discussion, role-play, individual and group assignments should be used so as to make the students actively participate in the teaching-learning process.

10. SUGGESTED TITLES FOR MICRO-PROJECTS

A *micro-project* is planned to be undertaken by a student. He/she ought to submit it by the end of the semester to develop the industry oriented COs. The micro-project could be industry application-based, internet-based, workshop-based, laboratory-based or field-based. Each student will have to maintain dated work diary consisting of individual contribution in the project work and give a seminar presentation of it before submission. A suggestive list is given here. Similar micro-projects could be added by the concerned faculty:

- a. The use of English language in the user manual of electronic appliances used at home.
- b. Prepare an advertisement for five daily used products using contextual vocabulary.
- c. Observe environmental problems in your locality and frame at least ten slogans to create awareness.
- d. Take an interview of any successful person in your locality in context with his life journey, inspiration, social contribution, role model and keys to success.
- e. Prepare a leaflet giving information about your institute.
- f. Write a review of your favourite movie/drama/novel.
- g. Find out the difficulties in speaking English faced by the students from rural areas.

11. SUGGESTED LEARNING RESOURCES

Sr. No.	Title of Book	Author	Publication
1	English Grammar & Composition	R. C. Jain	Macmillan
2	Business Letters & E-mails	Jyoti Nandedkar	Saket Pub.
3	Business Correspondence and Report writing	R. C. Sharma & Krishna Mohan	Tata McGraw Hill
4	Contemporary English Grammar	David Green	Macmillan
5	A Communicative Grammar of English	Geoffrey Leech & Jansvartvik	Pearson Education
6	*Spectrum- A Text Book on English	-	MSBTE
7	* A Text Book on English	-	MSBTE

12. Major Equipments/ Instruments with Broad Specifications

Sr.No.	Name of the Equipment	Specification
1	Digital English Language Laboratory	
2	Computers and Headphones	
3	Magazines, Articles, Journals in Lab.	

13. E-learning resources

(Please mention complete URL of the E- resources CO wise)

1	https://www.nptel.ac.in/courses
2	https://www.k12reader.com
3	https://www.eduction.com
4	https://www.k5learning.com
5	https://www.english4u.com

POs and PSOs assignment and its strength of assignment with each CO of the Course

CO. NO.	Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	Interpret the meaning of new words from the text.	3	1	1	1	1	1	1	1	3	1	-	-	-
CO2	Formulate grammatically correct sentences using new words.	3	1	1	1	1	1	1	1	3	1	-	-	-
CO3	Prepare resume in proper format.	1	1	2	1	3	3	2	3	3	3	-	-	-
CO4	Use relevant vocabulary to construct sentences.	1	1	1	1	1	1	1	1	2	1	-	-	-

Sr. No	Name of the faculty member	Designation and Institute
1	Mrs. P.Y. Kamble	Lecturer in English, Government Polytechnic, Aurangabad
2	Mrs. M.S. Ban	Lecturer in English, Government Polytechnic, Aurangabad
3	Mr. P.V. Deshmukh	Lecturer in English, Government Polytechnic, Aurangabad
4	Mr. R.L. Korde	Lecturer in English, Government Polytechnic, Aurangabad
5	Mr. D.D. Gangthade	Lecturer in English, Government Polytechnic, Aurangabad
6	Mr. A.P. Jagtap	Lecturer in English, Government Polytechnic, Osmanabad

Member Secretary PBOS

Chairman PBOS

Co-coordinator
science and Humanities

COURSE TITLE-	BASICS OF COMPUTER SYSTEM
COURSE CODE	6G203

PROGRAMME & SEMESTER

Diploma Programme in which this course is offered	Semester in which offered
Common to all branches (CE/ME/EE/ET/CO/IT/AE/DDGM)	FIRST SEMESTER

1. RATIONALE

This course pertains to basic technology level. It aims to developing fundamentals of Computer and its Applications in students of various programs. This will enable students in using application software's such as word processor, spreadsheets, and power point presentations in their professional fields. Further it will enable students to be lifelong learner.

2. COMPETENCY

Use of computer and software application proficiently.

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme (Marks)				
				Theory		Practical		Total
L	T	P	C	ESE	PT	ESE@ (PR/)	PA (TW)	50
-	-	2	2	--	--	25	25	
Duration of the Examination (Hrs)				--	--	--	--	

Legends : **L**-Lecture; **T**-Tutorial/Teacher Guided Theory Practice ; **P**- Practical; **C**- Credits; **ESE**- End Semester Examination; **PT** – **Progressive Test**, **PA**- Progressive Assessment, OR –Oral Examination, TW - Term Work, # External, @ Internal

4. COURSE OUTCOMES

On successful completion of the course, the students will be able to:

1. Connect and operationalize computer system with its peripheral devices.
2. Create and Format documents in Microsoft Word.
3. Create spreadsheets in Microsoft Excel by using formulae.
4. Create and edit basic power point presentations in Microsoft PowerPoint.

5. Use internet for creating email-id, receive and send email with attachment & search information on internet.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics And Sub-Topics
Unit- 1 Basics of Computer System	1a. Describe computer hardware and software 1b. Identify & use of I/O devices 1c. Describe functioning of CU ALU and memory unit 1d. Differentiate various types of printers 1e. Explain use of OS 1f. Demonstrate various file handling operations	1.1 Concept of Hardware and Software 1.2 Computer block diagram and its component like CPU, Control Unit, Arithmetic logic Unit (ALU) & Memory Unit 1.3 Input Output Devices: Keyboard, Mouse, Scanner, Monitor, Printers: Dot matrix, Laser, Inkjet, Plotters. 1.4 System software and Application Software 1.5 Operating system concepts, purpose and functions 1.6 Operations of Windows OS. 1.7 Creating and naming of file and folders 1.8 Copying file, renaming and deleting of files and folders, 1.9 Searching files and folders, installation application, creating shortcut of application on the desktop 1.10 Overview of control Panel, Taskbar.
Unit-2 Word Processor	2a. Create, edit and save word document using basic text formatting features, page setup options & print options. 2b. Apply spell check & grammatical check in the created document. 2c. Insert graphics/clipart/ smart art/shapes/charts in the document. 2d. Create tables, insert, delete rows and columns and apply different table properties.	2.1 Overview of Word processor 2.2 Basics of Font type, size, colour 2.3 Effects like Bold, italic, underline, Subscript and superscript, 2.4 Case changing options, 2.5 Inserting, deleting, undo and redo, Copy and Moving (cutting) text within a document, 2.6 Formatting Paragraphs and Lists 2.7 Setting line spacing; single, multiple 2.8 Page settings and margins including header and footer 2.9 Spelling and Grammatical checks 2.10 Table and its options, Inserting rows or columns, merging and splitting cells. 2.11 Insert Picture, Clipart, shapes, smart

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics And Sub-Topics
		<p>art & charts.</p> <p>2.12 Working with pictures, Inserting Pictures from Files, Wrapping it with image.</p> <p>2.13 Finding & replacing text.</p> <p>2.14 Using Drawings and WordArt; Lines and Shapes, Modifying Drawn Objects.</p> <p>2.15 Printing: print preview, select printer & appropriate print options.</p>
Unit- 3 Excel (Spreadsheets)	<p>3a. Create, open, save and print worksheet with page setup and print options.</p> <p>3b. Enter data and insert, delete and format cells, rows and columns.</p> <p>Use formula and functions</p> <p>3c. Insert formulas, functions and named ranges in worksheet.</p> <p>3d. Create chart of different types.</p>	<p>3.1 Introduction to Excel,</p> <p>3.2 Introduction to data, Cell address, Excel Data Types, Concept of hyperlink</p> <p>3.3 Introduction to formatting number, text and date.</p> <p>3.4 Concept of worksheet and workbook.</p> <p>3.5 Understanding formulas, Operators in Excel, Operators Precedence, Understanding Functions, Common Excel Functions such as sum, average, min, max, date, sqrt, power, upper, lower, count, countif, roundup, sin, cos.</p> <p>3.6 Introduction to charts, overview of different types of charts available with Excel.</p> <p>3.7 Hide, unhide rows and columns.</p> <p>3.8 Concept of print area, margins, header, footer and other page setup options.</p>
Unit- 4 Power Point Presentation	<p>4a. Create a simple text slide using formatting, selecting a slide layout and insert pictures & backgrounds.</p> <p>4b. Use different design templates for creating slides.</p> <p>4c. Apply slide transitions and slide timings and animation effect for slide show.</p> <p>4d. Insert hyperlink in the created slides.</p>	<p>4.1 Outline of an effective presentations</p> <p>4.2 Starting a New Presentation Files, Saving work,</p> <p>4.3 Creating new Slides, Working with textboxes.</p> <p>4.4 Changing a slides Layout, Applying a theme, Changing Colours, fonts and effects, Creating and managing custom Colour & font theme, Changing the background.</p> <p>4.5 Use of design template and auto content wizard.</p> <p>4.6 Apply animation and transition to slides with timing effect.</p>

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics And Sub-Topics
		4.7 Slideshow: from beginning slideshow, from current slideshow, custom slideshow. 4.8 Creating hyperlinks, Using action buttons
Unit- 5 Introduction to Internet	5a. Know different terms related to internet and browsers. 5b. Understand need & duty of ISP & List out different ISP in city. 5c. Use internet for searching information and create, receive & send email with attachment.	5.1 What is the Internet? 5.2 Web pages, Home Pages. 5.3 Use of web sites 5.4 ISP: need & duties of ISP, different ISP in city 5.5 Browsers 5.6 Universal resource locators (URL) 5.7 Browsing or surfing the web 5.8 Search engines 5.9 E-mail and Creation of E-mail ID. Sending & Receiving email with attachment. 5.10 Chatting & Video Conferencing tools: Skype and GTalk 5.11 Applications of the Internet

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title Of Unit	Practical Hours	Distribution Of Theory Marks			
			R level	U Level	A Level	TOTAL
1	Basics of Computer System	08				NA
2	Word Processing	08				NA
3	Spreadsheet	06				NA
4	Presentation	06				NA
5	Introduction to Internet	04				NA
6						NA

Legends: R – Remember, U – Understand, A – Apply and above (Bloom's revised Taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/ TUTORIALS

Sr.No.	Unit	Title Practical/ Lab. Work/ Assignments/ Tutorials	Hours
1	1	Connect the peripherals to a computer system. Get the information about the manufacturers and prices of various components of a PC and laptop.	2
2	1	Start and shutdown of windows, starting different applications. Use of accessories like calculator, paint, notepad & WordPad, Use of system tools like Disk Cleaner, Disk defragmenter, System Information, System Restore & Control panel.	4
3	1	Perform file management operations such as copying, deleting, renaming, creating folders, renaming folders using My computer, Windows Explorer, searching files and folders.	2
4	1	Change windows format such as wall paper, date & time, installing printer, installing and removing programs by using add/remove programs.	2
5	2	Prepare a sample doc files such as resume, application, time table etc. using all word processor tools from menu bar.	6
6	3	Prepare sample spreadsheets such as sample result sheet, salary sheet of employees using all MS-Excel tools from menu bar. (applying excel formulae/functions)	6
7	4	Prepare sample power point presentation by applying MS-Power Point tools such as design template, background, transition and animation effect to slides.	6
8	5	Search information on internet .Use Internet to create email account, send email with attachment, receive email and management of email account.	2
9	5	Use of E-commerce sites, Mobile apps for various online transactions.	2
			32

8. SUGGESTED STUDENTS ACTIVITIES

Following is the list of proposed student activities like: assignments based on MS-Office, teacher guided self learning activities and lab based mini-projects on MS-Word, MS-Excel and MS-PowerPoint. These could be individual or group-based.

- a. Visit institute website.
- b. Manage files and folder using Windows.
- c. Prepare letter and project report using word processor
- d. Create result sheet by inserting student marks and show it in chart form on the same worksheet using Excel spreadsheet.
- e. Develop effective presentation of project report using PowerPoint Presentation.
- f. Use open source software like openoffice.org (latest version).

9. SUGGESTED SPECIFIC INSTRUCTIONAL STRATERGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

- a. Group based.
- b. Q & A technique.
- c. Individual based.
- d. Activity based learning
- e. Self Line learning.

10. SUGGESTED LEARNING RESOURCE

S.No.	Name of Book	Author	Publication
1.	Fundamentals of computers	P.K.Sinha	BPB Publication
2.	Computer course	R.Taxali	TMGH Publication
3.	MS-Office for Dummies	Wallace Wang	Wiley India, New Delhi
4.	Basic Computer Engineering	Dr. Shailendra Singh, Pawan Thakur, Anurag Jain	SatyaPrakashan, New Delhi, India.
5.	Microsoft Office	Ron Mansfield	BPB Publication
6.	Fundamentals of computers	P.K.Sinha	BPB Publication

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

S.No.	Name of equipment	Brief specification
1.	Computer System with latest configuration along with Windows Operating System and latest MS-Office.	Desktop Computer/Personal Computer (Windows OS Prof. Edition/Academic edition) with preloaded operating systems windows 7/windows 8 (academic Lic)
2.	PROJECTOR	Multimedia Projector with wireless connectivity between PC and Projector
3.	PRINTER	HP 1022n laser printer
4.	SCANNER	HPscanner ,Color Scan Method: Color, Flatbed, Mirror Moving Scanner Optical Resolution: 800 x 1600 dpi Maximum Scanning Area 304.8 x 431.8 mm (12x17 inch)
5.	Computer System with latest configuration along with Windows Operating System and latest MS-Office.	Desktop Computer/Personal Computer (Windows OS Prof. Edition/Academic edition) with preloaded operating systems windows 7/windows 8 (academic Lic)
6.	PROJECTOR	Multimedia Projector with wireless connectivity between PC and Projector

12. LEARNING WEBSITE & SOFTWARE

(Please mention complete URL of the E- resource CO wise)

- <https://www.youtube.com/watch?v=cXBVMYKQ3ZY>
- <http://www.gcfllearnfree.org/computerbasics/>
- http://www.homeandlearn.co.uk/word2007_2010/Word-2007-2010.html
- <http://www.homeandlearn.co.uk/excel2007/Excel2007.html>
- <https://support.office.com/>

13. MAPPING OF PROGRAMME OUTCOMES (POs) AND PROGRAMME SPECIFIC OUTCOMES (PSOs) WITH COURSE OUTCOMES (COs)

SNo	Course Outcome	POs										PSOs	
		1	2	3	4	5	6	7	8	9	10	01	02
1	Connect and operationalize computer system with its peripheral devices.	2	2	2	0	0	0	0	0	0	2	0	0
2	Create and Format documents in Microsoft Word.	3	0	3	3	0	0	0	0	0	3	0	0
3	Create spreadsheets in Microsoft Excel by using formulae.	3	0	3	3	0	0	0	0	0	3	0	0
4	Create and edit basic power point presentations in Microsoft PowerPoint.	3	0	3	3	0	0	0	0	0	3	0	0
5	Use internet for creating email-id, receive and send email with attachment & search information on internet.	1	1	1	1	0	0	0	0	0	1	0	0

Course Curriculum Design Committee

Sr No	Name of the faculty members	Designation and Institute
1	R.T.Aghao	Sr.Lecturer in APM Dept. , Govt. Polytechnic, Aurangabad
2	O.R.Varma	Lecturer in IT Dept., Govt. Polytechnic,Aurangabad

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: -DEVELOPMENT OF LIFE SKILLS**COURSE CODE:- 6G303**

Diploma Programme in which this course is offered	Semester in which course is offered
CE/ME/ETX/EE/AE/DDGM/CO/IT	AS PER SAMPLE PATH

1 RATIONALE

The generic skills are lifelong skills which need to be developed continuously. These skills are necessary for diploma engineers for their professional career.

This course aims to develop interpersonal skills, problem solving, decision making, Professionalism with etiquettes, ethics and value system.

This course also aims at developing an engineer as a team leader, effective member of the team and to become sound personality. It will develop the abilities and skills to perform at highest degree of quality as an individual.

2 COMPETENCY

“Develop life skills to enhance personal effectiveness, professionalism and optimal use of resources.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (In Hours)			Total Credits (L+T+P)	Examination Scheme				
				Theory Marks		Practical Marks		Total Marks
L	T	P	C	ESE	PT	ESE	PA	
0	0	2	2	00	00	25(Or) @	25	50

Legends: L-Lecture; T – Tutorial/Teacher Guided Theory Practice; P -Practical; C – Credit, ESE - End Semester Examination; PA - Progressive Assessment

4. COURSE OUTCOMES (COs)

1. Develop interpersonal skills.
2. Exhibit corporate etiquettes and professionalism.
3. Enhance personal effectiveness and body language
4. Practice time management and goal setting technique
5. Develop presentation skills.
6. Manage Stress at workplaces

5 COURSE DETAILS

Unit	Major Learning Outcomes (in cognitive domain)	Topics and Sub-topics
Unit –I Self Analysis	1a. Identify Strengths and weaknesses of an individual 1b. Identify opportunities, threats in different situations. 1c. Describe principle of Need Base Theory	Self-Analysis 1.1 Strength, weaknesses, opportunities and threats 1.2 Techniques of self-control 1.3 Understanding Need base Theory — Attitude, aptitude, assertiveness, self-esteem, Confidence 1.4 Understanding Self
Unit– II Communication Skills& Presentation Skills	2a. Identify techniques of communications. 2b. Describe Body language techniques 2c. Understand the principle Eye contact and facial expression. 2d. Develop appropriate presentation Skills. 2e. Use multimedia tools and technology for effective presentation. 2f. Conduct Group discussion and Interviews.	Communication Skills& Presentation Skills 2.1 Techniques of communication skills, 2.2 Body language, Dress like the audience, Posture, Gestures, Eye contact and facial expression. 2.3 Presentation Skill –Stage fright, Voice and language – Volume, Pitch, Inflection, Speed, Pause Pronunciation, Articulation, Language, Practice of speech. 2.4 Group discussion and Interview technique, Use of aids –OHP, LCD projector, white board
Unit III Interpersonal communication and Corporate and Etiquettes	3a. exhibit/apply inter personal skills in different situations. 3b. Practice manners and Etiquettes.	Interpersonal communication and Corporate and Etiquettes 3.1 Interpersonal communication. Through Self Development and

		<p>change.</p> <p>3.2 Polished personal habits</p> <p>3.3 Ethics & Etiquettes: a way of life, what are ethics, how ethics help to ensure positive interpersonal relations,</p> <p>3.4 Personal value system, Personal Attire & Grooming</p> <p>3.5 Cell phone manners</p>
<p>Unit IV</p> <p>Time Management and goal setting.</p>	<p>4a. Understand importance of time management.</p> <p>4b. Apply time management skills.</p> <p>4c. Set the goals for career growth.</p>	<p>Time management and Goal Setting</p> <p>4.1 Time management skills in groups for completion of project</p> <p>4.2 Factors that lead to time loss and how they can be avoided</p> <p>4.3 Time matrix & urgent versus, Important jobs</p> <p>4.4 Importance of goal setting</p> <p>4.5 How to set SMART goals.</p>
<p>Unit V</p> <p>Health and Stress Management</p>	<p>4a. Manage health for personal efficiency.</p> <p>4b. Describe Stress Management,</p> <p>4c. Use strategies to overcome stress</p> <p>4d Understand emotions</p>	<p>Health and Stress Management</p> <p>5.1 Importance of health management,</p> <p>5.2 Relevance of it,</p> <p>5.3 Tips to maintain good health</p> <p>5.4 Strategies to overcome stress, understanding importance of good health to avoid stress. 5.5 Stresses in groups,</p>

		understand and identify emotions, how to control emotions, emotional intelligence.
Unit VI Problem Solving Techniques and Creativity	6a. participate in technical Quizzes and puzzles. 6b. Use problem solving techniques 6c. Describe factors enhancing creativity	Problem Solving Techniques and Creativity 6.1 definition of problem, types 6.2 solving Puzzles and technical quizzes. 6.3 Reducing conflict by preventing problems in the classroom. 6.4 Creativity concept, Tips and ways to increase creativity, importance of creativity.

6 SUGGESTED SPECIFICATION TABLE WITH HOURS AND MARKS (THEORY)

Unit No.	Unit Title	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	Total Marks
I	Self-Analysis	4	NA	NA	NA	NA
II	Communication Skills & Presentation Skills	6	NA	NA	NA	NA
III	Interpersonal communication and Corporate and Etiquettes	6	NA	NA	NA	NA
IV	Time management and Goal Setting	6	NA	NA	NA	NA
V	Health and Stress Management	6	NA	NA	NA	NA

Unit No.	Unit Title	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	Total Marks
VI	Problem Solving Techniques and Creativity	4	NA	NA	NA	NA

Legends: R = Remembrance; U= Understanding; A= Application and above levels
(Revised Bloom's taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

7. SUGGESTED EXERCISES/PRACTICALS

The tutorial/practical/exercises should be properly designed and implemented with an attempt to develop different types of cognitive and practical skills (**Outcomes in cognitive, psychomotor and affective domain**) so that students are able to acquire the competencies.

Note: Here only outcomes in psychomotor domain are listed as practical/exercises. However, if these practical/exercises are completed appropriately, they would also lead to development of **Programme Outcomes/Course Outcomes in affective domain** as given in a common list at the beginning of curriculum document for this programme. Faculty should refer to that common list and should ensure that students also acquire those Programme Outcomes/Course Outcomes related to affective domain.

S. No.	Unit No.	Practical Exercises (Outcomes in Psychomotor Domain)	Approx. Hrs. required
1	I	1) Analyze self with SWOT techniques.	04
2	II	2) Present a topic (related to technical advancement should be given to a group of five to six students. Group should search the necessary information from various sources and prepare a systematic power point presentation. All such presentations should be delivered in front of class by groups. Presentations are to be evaluated by teacher).	04

S. No.	Unit No.	Practical Exercises (Outcomes in Psychomotor Domain)	Approx. Hrs. required
3	II	3) Deliver extempore (Topic will be given to the individual for a speech of 5 to 8 minutes. Here the individual speeches of students will be conducted and evaluated by group of students.)	04
4	II	4) Participate in Group Discussion (Teacher should form group of six to eight students and give topics for group discussion. Group discussions should be carried out and evaluated by teacher)	04
5	III	5) Exhibit Etiquettes in different situations (Visit to any one place like office/firm/development sites etc. and observe the communication and etiquettes.)	04
6	IV	6) Prepare your individual time table for a week - a) List down your daily activities. b) Decide priorities to be given according to the urgency and importance of the activities. c) Find out your time wasters and mention the corrective measures. d) Set short term and long term goal for PT/TEE/Gymkhana -sport/gathering event etc.	04
7	V	7) Demonstrate simple Yoga postures and other stress relieving techniques by professional persons and narrate his/her experiences.	04
8	VI	8) Participate in Quizzes, puzzle- solving and educational games and narrate his/her experiences.	04
Total			32

8. SUGGESTED STUDENT ACTIVITIES

Following is the list of proposed student activities like:

- Following activities will be undertaken as per their convenience. students are advice to submit their report about participation in activities.
- 1. Case studies to be discussed in a group and presentation of the same by group /group leader.

- Carry out Field exercises and prepare reports. (e.g. interact with supplier/trader and discuss about techno commercial specifications of product)
- Role play by individual/group leader.
- Sharing of self -experiences in a group.
- Brain storming sessions in a group
- Questionnaire -filling & discussing results of the same in a group.

9. SPECIAL INSTRUCTIONAL STRATEGIES (if any)

- Motivate students to use internet and collect information about various generic skills
- Arrange expert lecture on various topics on (two/three) SWOT analysis/Time management/Etiquette / stress management/health management.etc.

10. SUGGESTED LEARNING RESOURCES

A) Books

S. No.	Title of Book	Author	Publication
1	Pearson Education Asia	Organizational Behavior	Tata McGraw Hill
2	Marshall Cooks	Adams Time management	Viva Books
3	Bishop , Sue	Develop Your Assertiveness	Kogan Page India
4	Allen Pease	Body Language	Sudha Publications Pvt. Ltd.
5	Lowe and Phil	Creativity and problem solving	Kogan Page (I) P Ltd
6	You can win	Mr. Shiv Khera	Macmillan ,India Ltd.
7	Wings of Fire	Mr .Abdul Kalam	Universities Press
8	Prabhavi Vyaktimatwa	SEEMA GUPTA	SAKET PUBLICATION
9	Yoga Dipika	Mr. Iyyengar	Rohan prakashan
10	Tan Tanavache Niyojan (Marathi)	Dr. Anand Nadkarni	Majestic Publishing House

S. No.	Title of Book	Author	Publication
11	Tandrust Raha ,Mast Jaga.(Marathi)	Dr. Rajiv Sharangpani	Continental Prakashan

**B) Software/Learning Websites:
Websites related to soft skills.**

POs and PSOs assignment and its strength of assignment with each CO of the Course

CO. NO.	Course Outcome	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PSO 1	PSO 2
CO1	Develop interpersonal skills.				2				2	3			
CO2	Exhibit corporate etiquettes and professionalism.		2			2			2				
CO3	Enhance personal effectiveness and body language			2							2		
CO4	Practice time management and goal setting technique	2		2					2	2			
CO5	Develop presentation skills.		2		2			2					
CO6	Manage Stress at workplaces		2			2					2		

Course Curriculum Design Committee

Sr No	Name of the faculty members	Designation and Institute
1	Dr.Uday V. Pise	Head of Department , Mechanical Engg. Govt. Polytechnic, Aurangabad
2	Prof. R. T. Aghao	Lecturer in Applied Mechanics., Govt. Polytechnic, Aurangabad

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Elements of Garment Construction (EGC)**COURSE CODE:6D201****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	SECOND

1. RATIONALE

This course deals with the principles of cut and fit of various elements of garments which lead to finalization of pattern. The main emphasis of this course is to develop skill and techniques of drafting pattern for garment mfg. in students. Hence this foundation course is introduced

2. COMPETENCY

“Incorporate basic elements of construction for innovative design in garments.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)				Total Credits (L+T+P)				Examination Scheme(Marks)		
								Theory	Practical	Total
L	T	P	C	ESE	PT	ESE@ (PR)	PA (TW)			
3	0	6	9	40	10	25@	50			125
Duration of the Examination (Hrs)				2	1	4	-			

Legends: L- Lecture; T- Tutorial/Teacher Guided Theory Practice; P-Practical;

C- Credit; ESE- End Examination; PT- Progressive Test; PA-Progressive Assessment,

OR- Oral Examination, TW- Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

1. Identify the terminology used in pattern making for manufacturing apparel product.
2. Translate the paper pattern into production pattern for garment and understand the fabric terminology
3. Convert the block pattern into fashion pattern/working pattern and final pattern/master pattern of skirt.
4. Develop the paper pattern for elements of garment part- sleeves, collars and skirts.
5. Draft and sew the fashion feature- collar, sleeve, skirts
6. Design a baby frock

5. DETAILED COURSE CONTENTS

NOTE: Body measurement size chart allowed for all examinations.

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Working room terms Definitions &Drafting the pattern	1a. Identify the drafting and fabric terminology. 1b. Explain pattern drafting. 1c. Differentiate between final pattern & working pattern.	1.1 Drafting Terminology –i) pattern drafting ii) pattern draping, [basic pattern set]/ block pattern / foundation pattern iii) working pattern/fashion pattern iv) final pattern /master pattern 1.2 Bias ,True bias, Blocking, Face of fabric/Right side of fabric, Cross grain, Length grain, off grain, On grain, straightening, Selvage. 1.3 Notches, Seams, Jog seams, Punches, Circles, Seam allowance, Grain line indicator, Seam line 1.4 Apex of dart ii) Balance Balancing Patternmaking Lines iii) Break Point Line 1.5 Chalked Markings, Chalked Thread ,Colour Coding Pin Marking ,Tailor's Tack and Thread Tracing.
Unit-II Skirts and its types.	3a Draft & prepare skirt patterns. 3b Prepare draft pattern for production.	2.1 Drafting Instructions and 1:4size template for following pattern.-Four gored skirt, pleated skirt, Yoke skirt, Circular skirt. 2.2 Inseam & Cut pocket for Skirt. 2.3 Types of Belts [for skirts] Standard waist band; shaped waist band; elasticized waist band.
Unit-III Sleeves and its types.	4a. .Identify Set in sleeves, Kimono sleeves, Raglan sleeves. 4b. Differentiate the set in sleeve with raglan sleeve & Raglan with kimono sleeve. 4c. Draft short; Puff; Bell; Leg o' mutton and Lantern sleeve for 5years children.	3.1 Set in sleeves, Kimono sleeves, Raglan sleeves. 3.2 Drafting Instructions and 1:4size template for following pattern. Sleeves- Short sleeve, Puff sleeve, Bell sleeve, Lantern sleeve, Leg o' mutton.
Unit-IV Collars and its types	5a. Identify the collars. 5b. Draft Peter pan; Stand; Sailor and Roll collar for	4.1 Flat collar, Stand collars, Roll line collars. 4.2 Drafting Instructions and

	5years children,	1:4size template for following pattern. Collars- Peter pan, Stand, Sailor, Roll collar.
UNIT V Developing Baby garment	5a. Design, draft and cut the garment for a kid	5.1 Design a client base baby garment with skirt, collar and sleeve features. 5.2 Draft the pattern 5.3 Prepare the master pattern 5.4 Make the flow chart for sewing the garment

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	Working room terms Definitions & Drafting the pattern	12	06	04	02	12
II	Skirts and its types.	10	02	02	04	08
III	Sleeves and its types.	10	02	04	02	08
IV	Collars and its types	08	02	02	04	08
V	Developing Baby garment	08	00	00	04	04
Total		48	12	12	16	40

Legends: R = Remembrance; U= Understanding; A= Application and above levels(Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

NOTE: Size Chart and Basic Block Set are allowed for Practical Examination.

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	II	(*Note- Inseam & Cut pocket should be cut & stitch with any skirt.) Prepare full size paper cutting of& Develop a working & master pattern of Four gored skirt with Standard waist band & stitch it.	06
2	II	Prepare full size paper cutting& Develop a working & master pattern of Yoke skirt with shaped waist band& stitch it.	06
3	II	Prepare full size paper cutting& Develop a working & master pattern of Circular skirt with elasticized waist band & stitch it.	06
4	II	Prepare full size paper cutting & Develop a working & master pattern of pleated skirt block.	06
5	III	Prepare full size paper cutting& Develop a working & master pattern of short sleeve & Stitch it.	06
6	III	Prepare full size paper cutting& Develop a working & master pattern of Puff sleeve & Stitch it.	06

7	III	Prepare full size paper cutting & Develop a working & master pattern of Bell sleeve.	06
8	III	Prepare full size paper cutting & Develop a working & master pattern of Lantern sleeve and stitch it.	06
9	III	Prepare full size paper cutting & Develop a working & master pattern of Leg o' mutton sleeve	06
10	IV	Prepare full size paper cutting & Develop a working & master pattern of Peter pan collar & Stitch it.	06
11	IV	Prepare full size paper cutting & Develop a working & master pattern of Stand collar & Stitch it.	06
12	IV	Prepare full size paper cutting & Develop a working & master pattern of Sailor collar & Stitch it.	06
13	IV	Prepare full size paper cutting & Develop a working & master pattern of Roll collar & Stitch it.	06
14	V	Design a baby frock with any of the features for a particular client, and then draft, cut and make (Mini Project)	18
TOTAL			96

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

- 1 Collect pictures of skirt, sleeves & collar & make a scratch book.
- 2 Undertake market Survey to collect information on blocks of garments used by local boutiques

SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

- 1 Demonstration
- 2 Improved lecture method
- 3 Workshop
- 4 Field visits
- 5 Mini project
- 6 Expert Guidance

9. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Metric pattern cutting for women's	Winifred Aldrich	Blackwell science ISBN10:14051027180
2	Metric pattern cutting for children	Winifred Aldrich	OM Publisher ISBN10:0632059788
3	Lingerie wear	Ann Hagar	Blackwell Publishing ISBN10:140511858X
4	Drafting patterns	Natalie Bray	
5	Pattern Making	Joseph Armstrong	ISBN10:0321034236

10. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	Drafting Table, paper cutting tools.	Wooden tables with felt top & fiber or metal paper cutting scissors
2	Single needle sewing machine , & three thread over lock machine	Domestic Model-Half Shuttle/Full shuttle, tension assembly, Hinged pressure foot, lever type stitch regulator. 2 needle overlock machine, 7000 stitches per minute, 3.8 mm stitch length, with differential feed ratio, overedging width 2, 3, 4 mm.
3	LCD Projector.	LCD Projector with LCD Panel, Lence, Lamp, ceiling or floor installation & Supplied Accessories
4	Visualizer	PS Scan Camera with internal picture memories , vertical & horizontal & 350 degree head rotation. Led upper light & accessories.
5	Internet.	---
6	Sewing Machines with all Foots and Folders also attachments.	/plastic Steel Metal foots like zipper, shirring, cording etc & Folders like heming , elastic, waist band folders
7	Mannequins and Dress forms (Male , Female, Children)	Dress forms of size 08, 12, 10 Kid, s, Women standard size dress forms & Mannequins

11. LEARNING WEBSITE AND SOFTWARE

- 1 <https://www.youtube.com/watch?v=3eZlmei9ifE>
- 2 <https://www.youtube.com/watch?v=SrkFchHsy2Y>
- 3 https://www.youtube.com/watch?v=aJtCSXBjT_o
- 4 <https://www.youtube.com/watch?v=iyRNy-yzqUg>
- 5 <https://www.youtube.com/watch?v=vqBelewfaZI>
- 6 <https://www.youtube.com/watch?v=W7TFx7y7ZD4>
- 7 <https://www.youtube.com/watch?v=z2urTxqpVqY>
- 8 <https://www.youtube.com/watch?v=F4qwdtTIGa4>

12. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's) WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	Pos										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Identify terminology used in pattern making for manufacturing apparel product.	2	1	--	--	--	--	--	--	--	--	--	--	--
CO2	Translate the	2	1	1	3	--	--	--	--	--	--	--	1	--

	paper pattern into production pattern for garment and understand the fabric terminology													
CO3	Convert the block pattern into fashion pattern/ working pattern and final pattern/master pattern of skirt.	2	2	2	2	--	--	--	--	--	--	--	1	--
CO4	Develop the paper pattern for elements of garment part- sleeves, collars and skirts.	2	1	2	2	--	--	--	--	--	--	--	1	--
CO5	Draft and sew the fashion feature- collar, sleeve, skirts	2	1	2	2	--	--	--	--	--	--	--	1	--
CO6	Design a baby frock	2	2	2	2	--	--	--	--	--	--	--	3	--

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	A L Rode	Lect. In DDGM, GPA
2	N R Biyani	Lect. In DDGM, GPA

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Fundamentals of Textile(FTX)**COURSE CODE:6D203****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	SECOND

1. RATIONALE

This course provides the fundamental of various fibers with the introduction of characteristics of fiber manufacturing process. The course contents provide students all the basic information for the selection of textile fibers and fabrics suitable for designing garments.

2. COMPETENCY

“Select suitable fabric as per the requirement of design, occasion, season, client profile.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE@ (PR/OR)	PA (TW)	
3	0	0	3	40	10	0	0	50
Duration of the Examination (Hrs)				2	1	-	-	

Legends: L- Lecture; T- Tutorial/Teacher Guided Theory Practice; P-Practical;

C- Credit; ESE- End Examination; PT- Progressive Test; PA-Progressive Assessment, OR-Oral Examination, TW- Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

- 1 Identify fiber characteristics.
- 2 Outline manufacturing process of different fibers.
- 3 Analyze fiber, yarn, and fabric attributes in terms of aesthetic, performance & serviceability characteristics.
- 4 Compare Physical and chemical properties of cotton, linen, silk and wool.
- 5 Select appropriate fabric for designing as per the structure and characteristics of fabric.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Introducti on of Textile Fibers and	1a. Classify fabrics. 1b. Describe the origin of fiber with their name. 1c. Draw the flow chart of classification of fiber.	1.1 Classification of fibers with the help of flow chart Based on origin and chemical nature of fibers. 1.2 Importance of textile in fashion designing

fabric terminology	1d. Explain importance of textile in fashion designing.	1.3 Name of fabric:-Terminology
Unit– II Introduction of yarn manufacturing	2a. Explain Fiber, yarn, fabric, lycra and polyester material. 2b. Differentiate Staple and filament. 2c. Describe manufacturing process of Cotton, Linen, Silk, Wool and rayon fabric.	2.1 Definition of fiber, Yarn & Staple & Filament Yarn. 2.2 Yarn manufacturing process of following in brief. a) Cotton b) Linen c) Silk d) Wool 2.3 Introduction to Rayon 2.4 Introduction of Polyester & Lycra fabric.
Unit– III Fabric structure	3a. Classify fabric structure 3b. Identify fabric structure	3.1 Knit fabric 3.2 lace fabric structure 3.3 Napped Fabric structure 3.4 Net fabric structure 3.5 Pile fabric structure 3.6 Plastic fabric structure 3.7 Woven fabric structure
Unit– IV Yarn formation And twisting of yarn	4a. Identify blending of yarn. 4b. Distinguish dry spinning and wet spinning. 4c. Explain characteristics of S and Z twist 4d. Describe Yarn structure	4.1 According to direction i.e. S & Z twist 4.2 According to no. of twist per inch (TPI) 4.3 Low twist, hard twist and crepe twist 4.4 Definition & type of spinning- wet spinning & Dry spinning. 4.5 Type of yarn and its characteristics Simple yarn – 2 ply 4 ply multiple and cable. (with diagram) 4.6 Novelty yarn – single, coral, spiral, knot, chenille, gimpy, slub etc 4.7 Blending of yarn (with diagram)
Unit– V Physical & Chemical properties of above fibers.	5a. Explain importance of physical and chemical properties for each fiber. 5b. Compare characteristics of above fibers. (cotton, silk, wool, linen)	5.1 Physical properties Strength, Elasticity, Shrinkage, Drape ability, Absorbency. 5.2 Chemical Properties- 5.3 Reaction to – Bleaches, Alkalis, Acids, Sunlight, Perspiration 5.4 Affinity for dyes.

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	Introduction of Textile Fibers and fabric terminology	04	03	01	00	04
II	Introduction of yarn manufacturing	18	04	10	02	16
III	Fabric Structure	06	03	00	03	06
IV	Yarn formation and twisting of yarn	10	04	02	02	08
V	Physical & Chemical properties of above fibers	10	0	04	02	06
Total		48	14	17	09	40

Legends: R = Remembrance; U= Understanding; A= Application and above levels (Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
NIL			

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

- 1 Prepare a catalogue of collection of fabric swatches.
- 2 Identify type of fabric by conducting burning test.
- 3 Identify the type of fabric by feel and drape.
- 4 Select on length of fabric from those provided in class, play with the fabric on dress form and analyze how the fabric, fiber content weight, surface design, drape will influence silhouette design.- sketch a series of silhouette inspired by the fabric analyzed.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

- 1 Arrange industrial visits to Yarn manufacturing units and demonstrate process.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Textile-Fiber to Fabric	Bernard P.Corbman	Mc-Graw-Hill Book Company. ISBN10:0070662363
2	Fundamental of textiles	SusheelaDantyagi	Orient Black swan

	&their care.(fifth edition)		ISBN10-8125010270
3	Clothing	Jeanette Weber.	Macmillan/McGraw-Hill ISBN 0-02-640162-2
4	Guide to Clothing	Theodora Faiola/J.A/Pullen	Mc-Graw Hill ISBN10:0070198551
5	Fashion Production Terms	Debbie Ann Gioello/BerlyBerke	Fairchild ISBN10:0870052004

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	LCD projector	LCD Projector with LCD Panel,Lence,Lamp,ceiling or flore installation & Supplied Accessories

12. LEARNING WEBSITE AND SOFTWARE

1. <http://trcs.he.utk.edu/textile/nonwovens/cottonfib.html>
2. <http://www.CottonInc.com/>
3. <http://www.cottoninc.com/CottonPickin/>
4. [Fiber Facts](#)
5. <http://www.fabrics.net/fabricinfo.htm>
6. <http://www.fabriclink.com/home.html>
7. <http://www.fabriclink.com/university.html>
8. <http://www.fibersource.com/fiber.html>
9. <http://www.woolworks.org/fibers.html>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's)WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Identify fiber characteristics.	1	1	--	--	--	--	--	--	--	--	--	--	--
CO2	Outline manufacturing process of different fibers	2	2	--	--	--	--	--	--	--	--	--	--	--
CO3	Analyze fiber, yarn, and fabric attributes in terms of aesthetic, performance & serviceability characteristics	2	0	--	--	--	--	--	--	--	--	--	--	--
CO4	Compare Physical and chemical properties of cotton, linen,	1	3	--	--	--	--	--	--	--	--	--	--	--

	silk, wool.													
CO5	Select appropriate fabric for designing as per the structure and characteristics of fabric.	1	3	--	--	--	--	--	--	--	--	--	--	--

Course Curriculum Design Committee

Sr.	Name of the Faculty	Designation of the Institute
No.	members	
1	F.B. Siddiqui	Lect. In DDGM, GPA

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Fashion Drawing (FDR)**COURSE CODE: 6D204****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	SECOND

1. RATIONALE

This course provides foundation for drawing of human body & fashion figure to make illustration successful. This course explores the creativity by manual drawing of different poses with proportion. The course enables to draw the figure from different angles including many different stylized poses. It develops the knowledge of presenting the ideas through drawing elements of costumes with color interpretation.

2. COMPETENCY

“Develop library for elements of costumes and fashion poses with suitable color scheme.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE@ (PR)	PA (TW)	
1	0	4	5	0	0	25@	50	75
Duration of the Examination (Hrs)				-	-	4	-	

Legends: L- Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-**Practical;

C- Credit; **ESE-** End Examination; **PT-** Progressive Test; **PA-**Progressive Assessment, **OR-** Oral Examination, **TW-** Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

- 1 Identify& analyze the effective use of color schemes for fashion designing.
- 2 Select proper garment elements according to functional & decorative purpose.
- 3 Produce Human& Fashion figure for developing new ideas.
- 4 Illustrate figure from different angles such as stylized poses, action poses with proper position and weight distribution.
- 5 Prepare various color swatches based on color theory.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Introduction to Color	1a. Select color scheme from color wheel. 1b. Explain the relationship of color	1.1 Color Schemes – a) Achromatic b) Monochromatic

Basics.	schemes. 1c. Choose colors that work best.	c) Analogous d) Complementary e) Split complementary
Unit– II Study of Elements of Costumes	2a. Outline elements of costumes. 2b. Identify silhouettes of skirts, sleeves & trousers. 2c. Explain different elements of costume with their special features. 2d. Select suitable accessories in garment designing	2.1 Elements of Costume- a) Necklines & Collars b) Sleeves & Cuffs c) Skirts & Pockets d) Jackets Trousers e) Suits 2.2 Drawing Accessories a) Footwear. b) Headwear. c) Bags d) Scarves & Belts
Unit –III Study of Constructing Figure & it's elements	3a. Explain 8 head theory & manipulation for developing 10 head theory 3b. Prepare the sketches of human body parts	3.1 Constructing Figure a) Constructing Human & Fashion Figure. 3.2 Basic Blocking of Human Body Parts. Stylization of different body parts- a) Hands b) Legs c) Faces with hairstyles. 3.3 Croqui Manipulation-8 to 10 heads
Unit– IV Blocking of Figure.	4a. Use of balance line to form Blocking in the figure. 4b. Draw various figure using tips & laws of blocking in the figure .	4.1 Blocking of figure with weight distribution 4.2 Study of different poses a) S shape b) Z shape c) X shape d) L shape

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	Introduction to Color Basics.	2	00	00	00	00
II	Study of Elements of Costumes.	4	00	00	00	00
III	Study of Constructing Figure & it's elements	4	00	00	00	00
IV	Blocking of Figure.	6	00	00	00	00
TOTAL		16	00	00	00	00

Legends: R = Remembrance; U= Understanding; A= Application and above levels

(Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	Prepare color schemes .— a) Achromatic b) Monochromatic c) Analogous d) Complementary e) Split complementary	12
2	II	Draw Elements of Costume- a) Necklines & Collars b) Sleeves & Cuffs c) Skirts & Pockets d) Jackets Trousers e) Suits Draw Accessories a)Footwear. b)Headwear. c)Bags d)Scarves& Belts	08 08
3	III	Construct Figure a) Constructing Human & Fashion Figure. b) Exercise on Croqui Manipulation-8 to 10 heads, Draw basic blocking of human body Parts. Stylization of different body parts- a) Hands b) Legs c) Faces with hairstyles	12 12
4	IV	Draw blocking of figure with weight distribution on different poses--- a) S shape b) Z shape c) X shape d) L shape	12
TOTAL			64

Note: Experiments beyond the course curriculum should be conducted.**8. SUGGESTED STUDENTS ACTIVITIES**

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

- 1 Prepare charts on types of necklines, collars, sleeves, skirts, pants, jackets, etc. to display into class.
- 2 Collect pictures of different types of faces with hairstyle.
- 3 Prepare a step wise process chart to construct Human & Fashion Figure.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

- 1 Field Visit
- 2 Workshop of an expert
- 3 Demonstration
- 4 Online learning

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Joy Of Drawing.	Bill Martine.	ISBN 0-8230-2370-2
2	Clothing Decision -	Anita Webb & Rosalyn Lester.	B.T.Batsford ISBN10:0026680106
3	Fashion Design Illustration Women	Patrick John Ireland	B.T.Batsford ISBN10:0713466227
4	Textile Design	Suzan Meller & Joost Elffers.	Harry N.Abrams ISBN10:0810938537
5	Fashion Source Book	Kathryn Mckelvy.	Wilei Blackwell ISBN10:0632039930
6	Beyond Fashion	Sandraj Keser, myrnab. Garner	ISBN10:1609012267
7	Advanced sketch book	Bina Abling	Fairchild books ISBN -81-8710-738-3

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	Drawing Table/ Board	Ms steel square pipe 16 gauge, stands with powder coating painted. Knobs for adjustments, with standard size top.
2	LCD Projector	LCD Projector with LCD Panel, Lence,Lamp,ceiling or flore installation & Supplied Accessories
3	Visualizer	PS Scan Camera with internal picture memories ,vertical & horizontal &350 degree head rotation.Led upper light & accessories.

12. LEARNING WEBSITE AND SOFTWARE

- 1 . <https://www.youtube.com/watch?v=-Z2hvYFkUF0>
- 2 <http://www.wikihow.com/Draw-Fashion->
- 3 <http://www.pinterest.com/pin/541135711447994240/>
- 4 <http://in.pinterest/explore/fashion-figure-drawing/>
- 5 <http://www.youtube.com/watch?v=43Tf5vpwvi4>
- 6 <http://www.youtube.com/watch?v=MZmYiUIHb9o>
- 7 <http://www.tigercolor.com/color-lab/color-theory/color-theory-intro.html>

13 MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's)WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Identify & analyze the effective use of color schemes for fashion designing.	1	1	1	--	--	--	--	--	--	--	--	--	--
CO2	Select proper garment elements according to functional & decorative purpose.	1	2	2	--	--	--	--	--	--	--	--	1	--
CO3	Produce Human & Fashion figure for developing new ideas.	1	2	2	--	--	--	--	--	--	--	--	--	--
CO4	Illustrate figure from different angles such as stylized poses, action poses with proper position and weight distribution	1	1	1	--	--	--	--	--	--	--	--	--	--
CO5	Prepare various color swatches based on color theory.	1	1	2										

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	A. V. Ramaiya	Lect. In Dress Designing and Garment Mfg.

COURSE TITLE: Regional Embroidery (RGE)**COURSE CODE:6D205****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	SECOND

1. RATIONALE

This course involves analysis of Indian regional embroidery providing comprehensive guidelines to identify color, motif, and fabric. Knowledge of Indian traditional embroidery enables an individual in embellishing the garment and hence enhances traditional and contemporary designing abilities, which are further used in theme based designing in project and portfolio development.

2. COMPETENCY

“Apply Indian traditional embroidery proficiently in apparel designing.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)				Total Credits (L+T+P)				Examination Scheme(Marks)		
								Theory	Practical	Total
L	T	P	C	ESE	PT	ESE@ (PR)	PA (TW)			
03	00	03	06	40	10	25@	50			125
Duration of the Examination (Hrs)				2	1	4	-			

Legends: L- Lecture; T- Tutorial/Teacher Guided Theory Practice; P-Practical;

C- Credit; ESE- End Examination; PT- Progressive Test; PA-Progressive Assessment, OR-Oral Examination, TW- Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

- 1 Identify & select appropriate material, motifs and stitch of Kashmir, Punjab, Gujarat, Bengal and Karnataka embroideries for garment designing.
- 2 Analyze the history and origin of each embroidery state.
- 3 Design & apply the embroidery of Kashmir, Punjab, Gujarat, Bengal and Karnataka with traditional & contemporary motifs.
- 4 Incorporate the above embroidery in more versatile & contemporary style to suit today's fashion
- 5 Explore traditional motifs of above 5 embroideries to embellish articles.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Kashida of Kashmir	1a. Explain the origin of Kashida, different motifs, different features of Gaba&Namdaand other articles 1b. Describe the stitches, colors,	1.1 Origin of Kashida – 1.2 Stitches employed – 1.3 Color, fabric, threads used – 1.4 Types of motives used with drawing. –

	<p>ground fabric ,threads of Kashida</p> <p>1c. Differentiate between pashmina shawl & Do-shala</p> <p>1d. Design motifs of kashmiri kashida.</p>	<p>1.5 Types of shawls-Pashmina Do-shala, Do-Rookha, Jamewar , Kasba, Gaba,Namda, Zalakdozo, Suzni,Vata-chikan, Shikargarhs, Hashiya, Phala,Jangir or Zanju,Kunj butta</p>
Unit– II Phulkari of Punjab	<p>2a. Explain the origin of Phulkari, types of motif, characteristics and working styles of Punjab embroidery.</p> <p>2b. Describe the stitches, colors, ground fabric, threads of Phulkari</p> <p>2c. Differentiate between bagh phulkari</p> <p>2d. Design motifs of phulkari of Punjab</p>	<p>2.1 Origin and importance of Phulkari–</p> <p>2.2 Difference between Phulkari & Bagh</p> <p>2.3 Phulkari-Chop, Subar, Til patra, Nilak, Shishedar, Thirma, Darshan dwar or darwaza, Sainchi.</p> <p>2.4 Bag- Ghunghat bagh, Vari da bagh, Suraj mukhi bagh, Reshmi shisha bag, Velianin bag Bawan bagh, Nazar butti.</p> <p>2.5 Characteristics of stitches used in embroidery & Working styles</p> <p>2.6 Study of fabric, thread, colors & motifs</p>
Unit– III Sindh Taropa , Kutch & Kathiawar of Gujarat	<p>3a. Describe the origin of sindhi taropa</p> <p>3b. Differentiate between Mochi Bharat & Beed work and bird motifs & animal motifs.</p> <p>3c. Explain the features of Appliqué work with diagram.</p> <p>3d. Explain stages involve in sindhi taropa making</p> <p>3e. Differentiate between Explain different type of Kathiawar embroidery with its uses.</p> <p>3f. Describe three types of embroidery of Gujarat</p> <p>3g. Design motifs of Kathiawar and Kutch embroidery..</p>	<p>3.1 Introduction to embroideries of Sindh, Kutch and Kathiawar</p> <p>3.2 Kutch embroidery of Gujarat</p> <p>3.3 Ahirbharat, Kunbi, Mochi,</p> <p>3.4 Rabari.</p> <p>3.5 Kathiawar embroidery of Gujarat</p> <p>3.6 Abla Bharat ,Heer Bharat ,Moti Bharat ,Beed work,Appliqué work</p> <p>3.7 Sindhi Torapa</p> <p>3.8 Stitches used for embroidery, motifs and design.</p>
Unit-IV Kantha of Bengal	<p>4a. Describe the origin of Kantha</p> <p>4b. Differentiate between Arshilata & Bayton</p> <p>4c. Explain the features of Durjani with diagram.</p> <p>4d. Explain stages involve in Kantha making</p> <p>4e. List out floral motifs & animal</p>	<p>4.1 History and origin of Kantha</p> <p>4.2 Types of Kantha –Arshilata, Bayton, Durjani, Thalia, lep, Oar, Sujani, Rumal. making</p> <p>4.3 Material, stitches and color used</p> <p>4.4 Motifs and designs used in Kantha along with drawing</p>

	motifs. 4f. Explain different type of kantha with its uses. 4g. Design motifs of Kantha of Bengal.	of motifs.
Unit-V Kasuti of Karnataka	5a. Describe the origin of Kasuti 5b. Differentiate between Gavanti & Murgi, Negi & Menthi. 5c. Explain stages involve in Kasuti making 5d. State the floral motifs & animal motifs. 5e. Design motifs of kasuti embroidery.	5.1 Origin & history of Kasuti embroidery 5.2 Characteristics of stitches used in embroidery & Working styles 5.3 Stitches –Gavanti, Murgi, Negi, Menthi. 5.4 Color, fabric, threads used 5.5 Types of motives, drawing of swan, a serpent, a Gopuram.

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	Kashida of Kashmir	10	02	04	02	08
II	Phulkari of Punjab	10	02	04	02	08
III	Sindh Taropa , Kutch and Kathiawar of Gujarat	10	02	04	02	08
IV	Kantha of Bengal	09	02	04	02	08
V	Kasuti of Karnataka	09	02	04	02	08
Total		48	10	20	10	40

Legends: R = Remembrance; U= Understanding; A= Application and above levels (Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	Prepare the Sample of Kashida of Kashmir	09
2	II	Prepare the Sample of Phulkari of Punjab	09
3	III	Prepare the Sample of sindhi taropa , kutch and kathiawar of Gujarat-	09
4	IV	Prepare the Sample of Kantha of Bengal	09
5	V	Prepare the Sample of Kasuti of Karnataka	09
6	I-V	Mini project-Article.	03
TOTAL			48

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

- 1 Project on any one State with charting of design.
- 2 Conduction of competition for motif drawing of various states.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

- 1 Guided industrial visits to embroidery units and exhibitions.
- 2 Demonstration of thread work for each design.
- 3 ICT strategies
- 4 Work based experience.
- 5 Library based experience.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Batsford embroidery course	Anne Williams	Batsford Publication- ISBN-0713464798
2	Encyclopedia of embroidery	Marion Nichols	Dover Publication ISBN-10: 0486229297
3	Complete guide to needle work	Reader's digest.	Reader's Digest; Eighth printing edition ISBN-0895770598
4	Indian Embroidery-	Kamaladevi Chattopadhyaya	Wiley Eastern Limited ISBN-10: 085226111X
5	Ethnic Embroidery of India	Usha Shrikant-part-I	Honesty b publishers. ISBN-9788175250796
6	Ethnic Embroidery of India	Usha Shrikant-part-II	Honesty b publishers.
7	The needle lore	Grewal, Neelam	Ajanta Publications ISBN-812020204X
8	The Stitches of Creative Embroidery	Jacqueline Enthoven	Reinhold PUBLisher ISBN-0887401112
9	Needle work	Julia Barton	Merehurst Ltd. London
10	Embroidery Designs	Nirmala Mistry	Navneet Publication ISBN13-9781000681
11	Needle work & sewing technique	Amanda O Neil	London Crange Books- ISBN-1856270645
12	Artistic embroidery	Pradeep Kumar	Indica Publisher

	Designs		-ISBN-8177270168
13	Indian- Embroidery Ethics & Beyond	Anjuman Siddiqui	Super Book House- ISBN-8190080962
14	Batsford embroidery course	Anne Williams	Batsford Publication- ISBN-0713464798 -
15	Encyclopedia of embroidery	Marion Nichols	Dover Publication ISBN-10: 0486229297
16	Complete guide to needle – work	Reader's digest.	Reader's Digest; Eighth printing edition ISBN-0895770598
17	Indian Embroidery-	Kamaladevi Chattopadhyaya	Wiley Eastern Limited ISBN-10: 085226111X

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	Hand needle, embroidery ring, anchor embroidery thread, embellishment materials	Needles-1-12,18-28-rings-13-27 cm,high quality anchor brand threads of 8. mts each skein
2	Yellow carbon , tracing paper drawing paper for file , Pencil, Pen	Yellow and black carbon paper –A4 size.,A-4 size butter paper,2 b pencil,
3	Different texture fabric- cotton ,silk, khaddar, casement	As per requirement of project.

12. LEARNING WEBSITE AND SOFTWARE

Phulkari

<https://www.youtube.com/watch?v=C6tiOyn7wic>
<https://www.youtube.com/watch?v=jIwaxiY7GXA>
<https://www.youtube.com/watch?v=UJNeKn1qMyw>
<https://www.youtube.com/watch?v=X-A8HjYNXOE>

Kantha

<https://www.youtube.com/watch?v=3Q5r3ntffB8>
https://www.youtube.com/watch?v=Qn_cVzusaVY
<https://www.youtube.com/watch?v=2oqeqrloHOA>
https://www.youtube.com/watch?v=cKOtXot_40

Kutch embroidery of Gujarat

https://www.youtube.com/watch?v=_TRTTdqXMPg
<https://www.youtube.com/watch?v=CoKhyv9nPNw>
<https://www.youtube.com/watch?v=vCXWt9uWPrM>
<https://www.youtube.com/watch?v=CjDx3ikLFBA>
<https://www.youtube.com/watch?v=X4bM8RBe6QU>
<https://www.youtube.com/watch?v=VNTh14jScaQ>

Kashmir

<https://www.youtube.com/watch?v=4d961eZoVz0>
<https://www.youtube.com/watch?v=3oqxP9Jd608>
<https://www.youtube.com/watch?v=YkGsIsBjDLy>
https://www.youtube.com/watch?v=MCDbJwFu_0w

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's) WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Identify Kashmir, Punjab, Gujarat, Bengal and Karnataka Embroideries and work appropriate one as per the garment design.	1	1	1	--	--	--	--	--	--	--	2	--	--
CO2	Apply the embroidery of Kashmir, Punjab, Gujarat, Bengal and Karnataka with its traditional colors, pattern, and motifs, fabrics to add value to product.	1	1	1	--	--	--	--	--	--	--	2	--	--
CO3	Develop household articles & garments of Kashmir, Punjab, Gujarat, Bengal and Karnataka embroidery	1	2	2	--	--	--	--	--	--	--	2	--	--

	in designing.													
CO4	Incorporate the above embroidery in more versatile & contemporary style to suit today's fashion.	1	1	2	--	--	--	--	--	--	--	2	--	--
CO5	Explore traditional motifs of above s embroideries to embellish modern garments.	1	1	2	--	--	--	--	--	--	--	2	--	--

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	R.S. Joshi	Lecturer in DDGM, GPA
2	J.S. Lakde	Lecturer in DDGM, GPA

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE : COMMUNICATION SKILLS

COURSE CODE : 6G302

Diploma Programme in which this course is offered	Semester in which offered
All Branches of Diploma in Engineering and Technology	Second Semester

1. RATIONALE

Proficiency in communication skills is one of the prime needs of diploma engineer/ technician who has to communicate all the time with peers, superiors, subordinates and clients in his professional life. The need of acquiring effective communication skills is more essential. As the world is shrinking into a global village with the new technologies, technically sound diploma holders may be a quality human resource, if their communicative abilities are shaped properly. Therefore, this course is designed to develop the ability of students to stand as a skilled and effective communicator with employability skills.

2. COMPETENCY

At the end of studying this course students will be able to

“Communicate effectively at workplaces.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (In Hours)			Total Credits (L+T+P)	Examination Scheme				
				Theory Marks		Practical Marks		Total Marks
L	T	P	C	ESE	PT	ESE(OR)	PA	TOTAL MARKS
1	0	2	3	-	-	25	50*	75
Exam Duration				-	-	-	-	

(*): Out of 50 marks, 10 marks -micro-project assessment; 40 marks-progressive assessments

Legends: L-Lecture; T – Tutorial/Teacher Guided Theory Practice; P -Practical; C – Credit, ESE -End Semester Examination; PA - Progressive Test; OR-Oral examination

4. COURSE OUTCOMES

- Express new ideas effectively.
- Select suitable type of communication in different situations.
- Avoid communication barriers for effective communication.
- Use appropriate body language to communicate effectively.
- Formulate various ways to face interview effectively.
- Draft different types of business letters, notices, memoranda and E-mails using correct formats.

5. COURSE DETAILS

Unit	Major Learning Outcomes (in cognitive domain)	Topics and Sub-topics
UNIT-I Introduction to communication	1a. Describe significance of Communication. 1b. Describe the elements of communication. 1c. Explain the cycle & process of communication. 1d. Identify the various communication situations.	1.1. Definition, importance 1.2. Communication cycle / process 1.3. Elements of Communication
UNIT-II Types of communication	2a. Identify the types of communication. 2b. Explain the types of communication.	2.1. Verbal-nonverbal , formal-informal, upward-downward, horizontal-diagonal communication
UNIT -III Principles of effective communication	3a. Explain the principles of communication. 3b. Illustrate principles of effective communication. 3c. Describe communication barriers. 3d. Identify the types of communication barriers. 3e. Select ways to overcome communication barriers.	3.1. Effective Communication 3.2. Barriers to communication & ways to overcome them
UNIT-IV Non -Verbal Communication	4a. Understanding non-verbal communication. 4b. Know the uses of body language. 4c. Uses of pictorial representations.	4.1. Non-verbal codes 4.2. Aspects of body language 4.3. Pictorial representation
UNIT –V Interview Techniques	5a. Listening & comprehending the passage. 5b. Having presence of mind. 5c. Managing stress. 5d. Facing viva.	5.1. Listening skills 5.2. Stress management 5.3. Facing oral communication
UNIT-VI Formal Written Skills	6a. Correct format with correct language. 6b. Identify the types of letters. 6c. Applying different techniques of drafting letters.	6.1. Business Letters: Enquiry, Order, Complaint, Adjustment, Seeking Permission etc.

6. SUGGESTED SPECIFICATION TABLE WITH HOURS AND MARKS (THEORY)

Unit No.	Unit Title	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	Total Marks
I	Introduction to Communication	03	NA	NA	NA	NA
II	Types of communication	02	NA	NA	NA	NA
III	Principles of Effective Communication	03	NA	NA	NA	NA
IV	Non-verbal communication	03	NA	NA	NA	NA
V	Interview Techniques	02	NA	NA	NA	NA
VI	Formal written skills	03	NA	NA	NA	NA
	Total	16	NA	NA	NA	NA

Legends: R = Remembrance; U = Understanding; A = Application and above levels (Revised Bloom's taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

7. SUGGESTED EXERCISES/PRACTICALS

The tutorial/practical/exercises should be properly designed and implemented with an attempt to develop different types of cognitive and practical skills (**Outcomes in cognitive, psycho-motor and affective domain**) so that students are able to acquire the competencies.

S. No.	Unit No.	Practical Exercises (Outcomes in Psychomotor Domain)	Approx. Hrs. required
1	I & II	Identify the elements of communication cycle with three Suitable examples.	04
2	II	Deliver two short and long prepared speeches.	04
3	III	Present a role-play.	04
4	III	Form a group of four students and make a group discussion on current issues and summarize it.	04
5	II&IV	Prepare a power point presentation on any one technical topic.	04
6	III	Demonstrate any assigned activity using appropriate body language.	04
7	III	Face a mock-interview.	04
8	IV	Write two formal letters in correct format.	04
Total			32

8. SUGGESTED STUDENT ACTIVITIES

Following is the list of proposed student activities:

- a. List the different communication situations.
- b. Use audio visual aids to learn different skills in communication.
- c. Conversations –formal/informal.
- d. Read newspaper.
- e. Collect different audio clips.
- f. SWOT analysis.
- g. Deliver welcome/farewell speeches in various programmes.
- h. Use of graphics in technical writings.
- i. Interviewing common people.
- j. Debating practices.
- k. Summarizing discussions.
- l. Practicing interviews

9. SPECIAL INSTRUCTIONAL STRATEGIES (if any)

- a. Arrange various debate/elocution competitions to develop spoken communication skills.
- b. Show audio/video clips to develop listening skills.
- c. Collect various pictures/charts to demonstrate body language.
- d. Prepare and give oral presentations.
- e. Guide micro-projects in groups as well as individually.

10. SUGGESTED TITLES OF MICRO PROJECTS

A *micro-project* is planned to be undertaken by a student. He/she ought to submit it by the end of the semester to develop the industry oriented COs. The micro-project could be industry application-based, internet-based, workshop-based, laboratory-based or field-based. Each student will have to maintain dated work diary consisting of individual contribution in the project work and give a seminar presentation of it before submission. A suggestive list is given here. Similar micro-projects could be added by the concerned faculty:

- a. Find out five communication events from day to day life and explain them in the form of communication process.
- b. Find out various reasons of communication gap in certain official situations.
- c. Identify various types of communication situations in student's life.
- d. Study various barriers occurring in communication among diploma students.
- e. Find out the remedies to overcome psychological barriers in communication.
- f. Collect different types of letters and analyze the language and format used in it.
- g. Prepare a review on the listened story/news/discussion/meeting.

11. SUGGESTED LEARNING RESOURCES

Sr.No.	Title of Book	Author	Publication
1.	Business Communication	R.C.Bhatiya	Ane Books India, New Delhi.
2.	Developing Communication Skills	Krishna Mohan & Meera Banerjee	Macmillan
3.	Power Point Presentation	Adam B Cooper	Macmillan
4.	Group Discussions & Interviews	Dr.B.R.Kishor & D. S.Paul	Vee Kumar
5.	Body Language	Allan Pease	Sheldon Press, London.

12. Major Equipment/ Instrument with Broad Specifications

Sr.No.	Name of the Equipment	Specification
1	Digital English Language Laboratory	
2	Computers and Headphones	
3	Magazines, Articles, Journals in Lab.	

13. E-learning resources

(Please mention complete URL of the E- resources CO wise)

1	https://www.nptel.ac.in/courses
2	https://www.k12reader.com
3.	https://www.eduction.com
4.	https://www.k5learning.com
5.	https://www.english4u.com

POs and PSOs assignment and its strength of assignment with each CO of the Course -

CO. NO.	Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	Develop the habit to express new ideas properly.	1	1	3	-	1	-	-	-	1	1	-	-	-
CO2	Select correct type of communication in different situations.	-	-	1	-	1	-	1	1	1	1	-	-	-
CO3	Avoid communication barriers for effective communication.	-	-	2	-	2	2	2	2	2	2	-	-	-
CO4	Use appropriate body language to communicate effectively	-	-	1	-	2	2	2	3	3	3	-	-	-

CO5	Formulate various ways to face interview effectively.	-	-	2	-	3	2	2	3	3	3	-	-	-
CO6	Draft different types of business letters, notices, memoranda and E-mails using correct formats.	-	-	1	-	1	-	-	1	1	1	-	-	-

Sr. No	Name of the faculty member	Designation and Institute
1	Mrs. P.Y. Kamble	Lecturer in English, Government Polytechnic, Aurangabad
2	Mrs. M.S. Ban	Lecturer in English, Government Polytechnic, Aurangabad
3	Mr. P.V. Deshmukh	Lecturer in English, Government Polytechnic, Aurangabad
4	Mr. R.L. Korde	Lecturer in English, Government Polytechnic, Aurangabad
5	Mr. D.D. Gangthade	Lecturer in English, Government Polytechnic, Aurangabad
6	Mr. A.P. Jagtap	Lecturer in English, Government Polytechnic, Osmanabad

Member Secretary PBOS

Chairman PBOS

Co-coordinator
science and Humanities

COURSE TITLE : ENVIRONMENTAL SCIENCE

COURSE CODE : 6G304

DIPLOMA PROGRAMME IN WHICH THIS COURSE IS OFFERED	SEMESTER
ME, CE, EE, E&TC, CO, IT, AE,DD	SECOND

1. RATIONALE :

The present plight of the world as a victim to a number of environmental setbacks ranging from global warming, ozone layer depletion, acid rains led to alarmingly increase in world pollution levels. This has led to the dangerous situation threatening existence of biosphere on the earth. Diploma engineers also get confronted with this issue in their professional life.. Diploma engineers need to be aware of environment and associated issues so that he can help in protection and preservation of environment.

2. COMPETENCY :

“Contribute in overall preservation of eco system of organization.”

3. TEACHING AND EXAMINATION SCHEME :

Teaching Scheme (In Hours)			Total Credits (L+T+P)	Examination Scheme				
				Theory Marks		Practical Marks		Total Marks
L	T	P	C	ESE	PT	ESE (PR)	PA	50
0	--	2	2	--	--	--	50	
Exam duration			--	--	--	--	--	

Legends : L-Lecture; T-Tutorial/Teacher Guided Theory Practice ; P- Practical; C- Credits; ESE- End Semester Examination; PT – Progressive Test, PA- Progressive Assessment, PR- Practical Examination, OR – Oral Examination, TW - Term Work, # External, @ Internal examination , ~ Online Examination.

4. COURSE OUTCOMES :

At the end of this course, students would be able to -

1. Analyze and assess the impact of biodiversity and its loss on environment
2. Identify causes of pollution in working system and apply control measures for prevention.
3. Apply provisions of various environmental protection acts in practice.
4. Appreciate correlation between Human population and its effect on environment.
5. Read, analyze and apply various laws and regulations concerning environmental issues.

5. COURSE DETAILS :

Unit	Major Learning Outcomes (in cognitive domain)	Topics and Sub-topics
------	--	-----------------------

Unit –I Environment and studies	1a. Write genesis of environmental concerns 1b. Identify the various types of environmental issues.	1.1 Definition , Scope and importance of Environmental studies 1.2 Meaning of environment, , Environment and its components, Segments of environment, scientific aspects 1.3 Global environment crisis and factors affecting it. Deforestation. aquatic life and tsunami effects ,Population, Carbon dioxide emissions, pollution, Extinction of species etc. Ecological Foot print
Unit– II Environmental Natural Resources	2a. Classify different resources 2b. Outline issues associated with different resources. 2c. Develop strategies to conserve of natural resources.	2.1. Renewable and Nonrenewable natural resources and associated issues as under, a. Forest resources b. Water resources c. Energy resources d. Land resources e. Food resources f. Energy resources 2.2. Role of individual in conservation of natural resources
Unit– III Ecosystems	3a. Outline ecosystem. 3b. Categorize various ecosystems .	3.1 Concept of Ecosystem 3.2 Structure and function of ecosystem 3.3 Structure and functions of following ecosystems, a. Forest Ecosystem b. Grassland Ecosystem c. Desert Ecosystem d. Aquatic ecosystem
Unit– IV Biodiversity and Conservation	4a. Outline Biographical classification of India 4b. Assess Biodiversity loss and its impact.	4.1 Introduction, Values of the Biodiversity, Biographical classification of India 4.2 Biodiversity loss and its impact 4.3 Conservation of Biodiversity, Efforts made in

		India.
Unit - V Environmental Pollution	5a. Describe pollution and its types 5b. Describe cause, effect relationship. 5c. Conduct Survey on Environmental Pollution	5.1 Definition of pollution and its types 5.2 Causes, effects and control measures of following types of pollutions a. Air Pollution b. Water Pollution c. Soil Pollution d. Marine Pollution e. Thermal Pollution f. Nuclear hazards and pollution 5.3 Pollution norms, rules and bye laws 5.4 Solid waste management: Causes, Effects and control measures of urban and industrial waste.
Unit – VI Social Issues and Environment	6a. Identify social issues related to environment 6b. Suggest control measures to counter the issues,	6.1 Urban problems related to Energy, Measures of water conservation including Rain water harvesting, Watershed Management 6.2 Climatic changes, Global Warming, Acid rain, Ozone layer depletion issue, Nuclear accidents and holocaust. Kyoto Protocol, Climate justice 6.3 Introduction to Environment (protection) act(prevention and control of pollution),Wildlife protection act, Forest protection act Air (Prevention and control of pollution) Act, Water related Environment laws ,issues in enforcement of environmental legislation, public awareness.
Unit – VII Human population and environment	7a. Use of ICT in environment and human health areas.	7.1Concepts of Population Growth, Environment and human health, Role of information technology in environment and human health

6. SUGGESTED SPECIFICATION TABLE WITH HOURS AND MARKS (THEORY) :

Unit	Unit Title	Teaching Hours	Distribution of practical examination marks			
			R Level	U Level	A Level	Total Marks
I	Environment and studies	4	NA	NA	NA	NA
II	Environmental Natural resources	4	NA	NA	NA	NA
III	Ecosystems	4	NA	NA	NA	NA
IV	Biodiversity and conservation	4	NA	NA	NA	NA
V	Environmental Pollution	8	NA	NA	NA	NA
VI	Social issues and environment	4	NA	NA	NA	NA
VII	Human population and environment	4	NA	NA	NA	NA
Total		32	NA	NA	NA	NA

Legends: R = Remembrance; U = Understanding; A = Application and above levels (Revised Bloom's taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

7. SUGGESTED EXERCISES/PRACTICALS :

The tutorial/practical/exercises should be properly designed and implemented with an attempt to develop different types of cognitive and practical skills (**Outcomes in cognitive, psychomotor and affective domain**) so that students are able to acquire the competencies.

Here all the practical exercises are to be completed by students in a group. The group size should be 10 to 12. The groups should be formed by concerned teacher in consultation with students. Every group should be assigned a group leader. All groups will complete the practical assignments in spare time and during Sundays and holidays. No separate time slots will be allotted to these practical exercises. Teacher will guide and give necessary inputs for modus operandi of exercises.

S. No.	Unit No.	Practical Exercises (Outcomes in Psychomotor Domain)	Approx. Hrs. required
1	I	Prepare report on environmental issues of your institute / Selected Premises	04
2	II	Collect information related to natural resources of India and methods adopted for conservation of these resources	02

3	I, II	Prepare “Energy Audit Report” of a small home. And give suggestions for conservation of energy.	02
4	III, IV	Examine water usage of a small community/locality in city/Apartment /Your Institute and prepare a Report on actions that could be taken to conserve the water from following point of view: How much water is consumed How much wastage of water occurs How can demand of water be reduced How can ecological footprint of water they get can be reduced What other environment friendly ways of getting water can one implement What is the quality of water and how can it be improved How reuse and recycling of water can be done How users can be educated for proper use of water	02
5	I,II,III, VI	Visit, “Roof water harvesting” system installed in nearby area and prepare a detailed report. Include local bodies legislation as regards roof water harvesting	02
6	I,II,III	Undertake “Tree plantation project” and plant at least 03 trees per student in your Institute. Prepare detailed report on tree plantation.	02
7	I,II,III	Visit ,study and analyze a “Solar systems” installed in nearby area and prepare a detailed report. Include following types of systems, a. Household Solar water heating systems b. Solar P-V Systems c. Solar roof top Net metering systems	02
8	IV	Preparation of Biodiversity Report: Select a small park or garden in your area. Prepare a Biodiversity register: list all the species found in place ,find their scientific names with the help of a botanist. Interview long term users of the place and find out about loss of biodiversity. Write a report describing your observations and your recommendations for conservation of biodiversity.	04
9	V	Prepare a report on water pollution scenario in your institute and make a detailed report. Following activities can be undertaken with permission, Locating and studying water consumption locations in institute like Water coolers , R.O units, Filters, taps. Taking and checking drinking water samples periodically from testing authorities and keeping records. Preparing and executing schedule for cleaning water tanks, water filters, RO units etc.	06
10	V	Prepare report Vehicular pollution checking in your institute: Here sample check the two wheelers, four wheeler vehicles of employees, students with the help of Exhaust gas analyzer / Smokemeter periodically and check the levels of pollution.	02
11	V	Prepare report of Noise and Air pollution levels at a crowded square of city using Deciblemeter and Air sampling device	02
12	VI	Collect information on Global Warming, Acid rain, Ozone layer depletion issue, Nuclear accidents and holocaust. Kyoto	02

		Protocol, Climate justice, Environment protection laws and regulations.	
Total			32

8. SUGGESTED STUDENT ACTIVITIES :

Following is the list of proposed student activities like:

- 1 Search different journals on Environment
- 2 Collect info of Environmental laws and regulations from websites.
- 3 Collect various news paper cuttings on the issues of environment
- 4 Observe and celebrate following important days on environment,
 - 22 April- Earth Day
 - 1 – 7 July – Vanamahotsava Week
 - 11 International Mountain day
 - 2 February –Worlds wetland day
 - 5 April – National Maritime day
 - 8 June – World Oceans day
 - 22 May – international Day of Biological diversity
 - 22 March – World Water day.
 - 21 March – World Forestry Day
 - 16 October –Worlds food day
 - 22 September –Car free day
 - 29 October-National disaster reduction day
 - 21 July – Worlds Population day
 - 8 March – Womans day
- 5 Prepare charts, banners, posters on environment and its protection and display in class, notice boards.
- 6 Participate in social campaigns concerning environment and its preservation.
- 7

9. SUGGESTED SPECIFIC INSTRUCTIONAL STRATEGIES :

1. Q & A Techniques.
2. Field Visits
3. Expert Lectures.

10. SUGGESTED LEARNING RESOURCES :

S. No.	Title of Book	Author	Publication
1	Environmental Studies	R.Rajgopalan	OXFORD university press
2	Environmental Studies	Anindata Basak	Pearson education
3	Air Pollution	M.N. Rao	Tata Macgrawhill
4	Elements of Environmental Science and Engineering	P. Meenakshi	Prentice Hall
5	Introduction to Environmental	P.AarneVesilind and Susan	Thomson

	Engineering	Morgan	
--	-------------	--------	--

11. Major Equipment/ Instrument with Broad Specifications :

Sr. No.	Major equipment/ Instrument with Broad Specification	Quantity
1	Biological Microscope	01
2	Air sample testing setup	01
3	Water sample testing setup	01
4	Exhaust gas Analyzer	01
5	Smoke meter	01
6	PC with Net connectivity	01
7	LCD Projector	01 et

12. E-learning resources :

(Please mention complete URL of the E- recourse CO wise)

1. www.unep.org
2. www.ipcc.ch
3. www.grida.no
4. www.wildlifeinindia.com
5. www.fsi.nic.in/sfr_2009.htm
6. www.unesco.org
7. www.chilika.com
8. www.foodfirst.org/media/opeds/2000/4-greenrev.html
9. www.cites.org
10. <http://projecttiger.nic.in/>
11. www.iwmi.cgiar.org/
12. www.worldwater.org
13. www.indiaenergyportal.org
14. <http://www.lifeaftertheoilcrash.net/>
15. www.mmpindia.org/
16. www.pcri.com
17. http://www.unwater.org/statistics_pollu.html

List of Films

1. The 11th hour
2. The many faces of madness
3. Planet Earth-BBC documentary
4. The childrens of Amazon
5. The Blue Planet-BBC documentary
6. End of Line
7. The State of planet – BBC Documentary
8. The truth about Tigers
9. Bringing home rain- A film by SushamaVeerappa.
10. Drinking the sky – BBC documentary
11. A Crude Awakening :The OIL Crash – A documentary by Basil Gelpke
12. Poison on a platter – Documentary by Mahesh Bhatt

13. The story of bottled water – A documentary by Annie Leonard on packaged water industry.(Download from www.storyofstuff.org)

13. POs and PSOs assignment and its strength of assignment with each CO of the Course :

CO. NO.	Course Outcome	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P O 10	P S O 1	P S O 2
CO1	Analyze and assess the impact of biodiversity and its loss on environment.	2				2	2						
CO2	Identify causes of pollution in working system and apply control measures for prevention.					2	2						
CO3	Apply provisions of various environmental protection acts in practice.	2				3	3			3			
CO4	Appreciate correlation between Human population and its effect on environment.	2				2	2			3			
CO5	Read, analyze and apply various laws and regulations concerning environmental issues.	2				3	3						

Course Curriculum Design Committee :

Sr No	Name of the faculty members	Designation and Institute
1	Prof.S.P.Shiralkar	Lecturer in Mechanical Engineering Department
2	Prof. A.B. Deshpande	Lecturer in Mechanical Engineering Department

(Member Secretary PBOS)

(Chairman PBOS)

1. Identify elements of biodiversity.
2. Assess the impact of biodiversity
3. Apply provisions of various environmental protection acts in practice.
4. Undertake survey on environmental concerns and remedial measures

COURSE TITLE: Drafting & Pattern Construction (DPC)**COURSE CODE:6D202****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	THIRD

1. RATIONALE

This course introduces students with drafting paper pattern for various basic garments of different age group. The course adds confidence, foresight good judgment & speed to perform drafting paper pattern for garments. It enables to apply various stages of adopting basic pattern to working pattern & finally to master pattern making for garment production. The course enables the pattern making and manufacturing skills for many more advanced as well innovative garments.

2. COMPETENCY

“Apply basic elements of construction for Innovative garment making.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE# (PR)	PA (TW)	
3	0	6	9	40	10	50#	50	150
Duration of the Examination (Hrs)				2	1	6	-	

Legends: L- Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-**Practical;

C- Credit; **ESE-** End Examination; **PT-** Progressive Test;**PA-**Progressive Assessment, **OR-** Oral Examination, **TW-** Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

- 1 Identify, estimate, spread and lay mark the fabric in various different ways.
- 2 Determine the different types of pattern layout due to various directional prints on fabric
- 3 Draft, paper cut and stitch the apparel especially Indian dress patterns such as Salwar, chudidar with appropriate finishing process.
- 4 Prepare the draft for A; line Punjabi top and stitch with suitable finishing technique.

- 5 Draft paper patterns step by step through the selection of appropriate style, the choice of flattering fabric & then construct the baby frock.
- 6 Develop practical aspects of clothing manufacture from the original dimensional block to fashion pattern for culottes.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit-I Spreading /or Folding fabric and pattern layout	<p>1a. Describe the types of Layouts- Combination, cross & Lengthwise fold layout; Double lengthwise, Partial lengthwise & Double ply layout; Pattern layout; directional design fabric</p> <p>1b. Differentiate between Combination fold layout & Cross and bias fold layout; Border fabric & Check fabric; c. machine spreading & manual spreading.</p> <p>1c. Explain spreading & folding of fabric; Knit fabric & Large print fabric; One-way Design Fabric & Irregular design fabric, precaution taken while doing pattern layout.</p> <p>1d. Compare One-way directional with two-way directional fabric.</p>	<p>1.1 Spreading /or Folding fabric. (Demo and definitions of the following lay outs) Combination fold layout Cross and bias fold layout Lengthwise fold layout Double lengthwise fold layout/ bias-fold layout Partial lengthwise fold layout Double ply layout / multi ply layout</p> <p>1.2 Introduce machine spreading & manual spreading. Folds & faults, remedies during folds.</p> <p>1.3 Pattern Layout Border design fabric Border fabric/Finished border fabric Check fabric/Chequered fabric Diagonal design fabric/Diagonal print fabric Diagonal weave fabric/ Twill type fabric Directional Design Fabric/One-way & Two Way Design Fabric Irregular design fabric Knit fabric Large print fabric Large Print Fabric/ Motif Design fabric Light- Reflecting fabric</p>
Unit-II Types Of	<p>2a. Explain draft of Salwar and chudidar for size 10.</p> <p>2b. Draft 1:4cm scale pattern of Salwar and chudidar for Size 10.</p> <p>2c. Calculate the fabric required for</p>	<p>2.1 Drafting Instructions and 1:4 size template for Salwar</p> <p>2.2 Draft Side panel, Mid panel & waist band, With narrow /broad bottom.</p>

Salwar	<p>Salwar and chudidar for size 10.</p> <p>2d. Estimate Cost for above garments.</p> <p>2e. Prepare a Flow Chart for stitching a Salwar and a chudidar and dhoti salwar</p>	<p>2.3 1:4 scale lay plan</p> <p>2.4 Drafting Instructions and 1:4 size template for Chuddidar [Bespoke method]</p> <p>2.5 Draft with waist band and without waist band</p> <p>2.6 1:4 scale lay plan</p> <p>2.7 Drafting Instructions and 1:4 size template for Dhoti Salwar</p> <p>2.8 Draft of Dhoti Salwar</p> <p>2.9 1:4 scale lay plan</p>
Unit-III A-Line Punjabi Top	<p>3a. Explain draft of A Line Punjabi Top for size 10</p> <p>3b. Draft 1:4cm scale pattern of Salwar for Size 10.</p> <p>3c. List out the measurements required to draft Punjabi Top/Kurta.</p> <p>3d. Calculate the fabric required for A Line Punjabi Top/Kurta for size 10.</p> <p>3e. Estimate Cost</p> <p>3f. Prepare a Flow Chart for stitching A Line Punjabi top/kurta.</p>	<p>3.1 Drafting Instructions and 1:4 size template for following A Line Punjabi Top/Kurta [Bespoke method]</p> <p>3.2 Fish dart in front & back, Armhole dart, A- symmetric neck line, Full sleeves/ short sleeve, Back zip opening.</p> <p>3.3 1:4 scale lay plan</p>
Unit-IV Baby Frock with yoke:-	<p>4a. Design four different types of Peter Pan collar for 5 years children.</p> <p>4b. Explain draft of Peter pan collar for 5 years children.</p> <p>4c. Design four different types of Baby Frock for 5 years children.</p> <p>4d. Draft 1:4cm scale pattern of Peter pan collar.</p> <p>4e. Calculate the fabric required for Baby Frock with yoke.</p> <p>4f. Estimate cost</p> <p>4g. Prepare a Flow Chart for stitching Baby Frock with yoke.</p>	<p>4.1 Drafting Instructions and 1:4 size template for Sleeveless Baby Frock with yoke:-</p> <p>4.2 Different types of yoke with different silhouette and discuss the various patterns and make any one sleeveless frock with peter pan collar.</p> <p>4.3 1:4 scale lay plan</p>
Unit-V Culottes (Children)	<p>5a. Design four different types of Culottes (Children) for 5 years children.</p> <p>5b. Explain draft of Culottes for 5 years children</p>	<p>5.1 Drafting Instructions and 1:4 size template for Culottes (Children)- Plain, Flared & Pleated Side opening with zip, cut</p>

	5c. Draft 1:4cm scale pattern of Culottes 5d. Calculate the fabric required for Culottes 5e. Estimate Cost. 5f. Prepare a Flow Chart for stitching Culottes	pocket & waist belt 5.2 1:4 scale lay plan
--	--	---

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	Spreading /or Folding fabric and pattern layout	08	02	00	02	04
II	Types Of Salwar	12	02	02	04	08
III	A Line Punjabi Top	08	02	04	04	10
IV	Baby Frock with yoke:-	10	02	04	04	10
V	Culottes (Children)	10	02	04	02	08
	Total	48	10	14	16	40

Legends: R = Remembrance; U= Understanding; A= Application and above levels (Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	II	Prepare full size paper cutting & Develop a working & master pattern of Salwar& stitch it.	12
2	II	Prepare full size paper cutting& Develop a working & master pattern of Chuddidar& stitch it.	12
3	II	Prepare full size paper cutting& Develop a working & master pattern of DhotiSalwar.	12
4	III	Prepare full size paper cutting& Develop a working & master pattern of A- Line Punjabi Top & Stitch it.	14
5	IV	Prepare full size paper cutting& Develop a working & master pattern of Baby Frock with yoke& Stitch it.	14
6	V	Prepare full size paper cutting& Develop a working & master pattern of Culottes (Children) & Stitch it.	14

7	Design , draft, cut and make a client based garment from the topics you have learned (Mini Project)	18
	TOTAL	96

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

Following is the list of proposed student activities like.

- 1 Collect minimum five pictures of Salwar, Chuddidar, Dhoti Salwar, A-Line Punjabi Top, and Baby Frock with Yoke & Culotte& make a scratch book.
- 2 Collect any ten different types of fabric Swatches according to different textures, print, cost.
- 3 Market Survey to study Garments used by local boutiques.
- 4 Prepare paper pattern for Patiyala Salwar.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

Following is the list of proposed student activities like.

Field visit

Industrial visit

Demonstration

Experiential Learning

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Metric pattern cutting for women's	Winifred Aldrich	Blackwell science ISBN10:1405102780
2	Metric pattern cutting for children	Winifred Aldrich	Om Books ISBN10:0632059788
3	Pattern Cutting for Lingerie wear	Ann Hagar	Blackwell science ISBN10:140511858X
4	Dress pattern designing	Natalie Bray	Blackwell Scince ISBN:0-632-01881-X
5	Pattern Making	Helen Joseph Armstrong	ISBN:0060403322
6	The Technology Of Clothing Manufacturer	Harrold Carr, david Tyler	Willey publication ISBN10:1405161981

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	LCD Projector	LCD Projector with LCD Panel,Lence,Lamp,ceiling or flore installation & Supplied Accesssories
2	Visualizer	PS Scan Camera with internal picture memories ,vertical& horizontal &350 degree head rotation.Led upper light & accessories.
3	Brown paper, Tailors chalk ,Measuring tape, scissors.	Stationary material as per requirements
4	Cutting tools – Shears, Scissors, Dress Makers Shears, Scalloping, shears, Cutting table etc	Scissor-Sharp blades and well proportioned hardness Corrosion and abrasion resistant Sizes: 9/10/11/12-inch Length: 240mm, 260mm, 280mm, 300mm, 8 inch stainless steel blades for scallop shear,
5	Industrial sewing machine	SNLM-Medium weight application ,5500 SPM,5mm stitch length,by kneepressurefoot-13mm,
6	Cloth, matching thread , steam press, hand needles, machine needles.	Hand Needles-1-12,18-28,Machine Needles in American size 10 TO 16,cloth-cotton ,silk, khaddar etc(as per need),steam press
7	Dress form, mirror ,trimming &fasteners	8-12 size dress forms, two and four hole plastic buttons,metalbuttons,snaps,Velcro etc.

12. LEARNING WEBSITE AND SOFTWARE

<https://www.youtube.com/watch?v=-Z2hvYFkUF0>
<https://www.youtube.com/watch?v=SdKXRaPpjkA>
<https://textileapex.blogspot.com/.../fabric-spreading-objects-requirements...>
www.textilestudent.com/discussions-of-the-methods-of-fabric-spreading/
<http://she-styles.blogspot.in/2013/08/different-types-of-salwar-dhoti-salwar.html>
<http://indusladies.com/community/threads/different-versions-types-of-salwar-designs.145918/>
<http://she9.blogspot.in/2010/02/latest-salwar-styles-trend-new-shalwar.html>
<https://in.pinterest.com/thefivecseh/sewing-culottes/>
<https://www.youtube.com/watch?v=uxdfgrSviWE>
<https://www.youtube.com/watch?v=4Vgm9FHmr5U>
<http://www.govideo.site/search/dress%20cating>
<https://www.youtube.com/watch?v=RtoL0mhycu8>
<https://www.youtube.com/watch?v= VHOI...>
<https://www.youtube.com/watch?v=rap3dybxQ-k>
<https://www.youtube.com/watch?v=kWMDpERyiYk>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's)WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Identify, estimate, spread and lay mark the fabric in various different ways also	--	3	1	1	--	--	--	--	--	--	--	--	--
CO2	Determine the different types of pattern layout due to various directional prints on fabric	--	3	3	1	--	--	--	--	--	--	--	2	--
CO3	Draft, paper cut and stitch the apparel especially Indian patterns such as Salwar, chudidar with appropriate finishing process.	--	3	3	3	--	--	--	--	--	--	--	2	--
CO4	Prepare the draft for A; line Punjabi top and stitch with suitable finishing technique.	--	3	3	3	--	--	--	--	--	--	--	2	--
CO5	Draft paper patterns step by step through the selection of appropriate style, the choice of flattering fabric & then construct the baby frock.	--	3	3	3	--	--	--	--	--	--	--	2	--

CO6	Develop practical aspects of clothing manufacture from the original dimensional block to fashion pattern for culottes.	--	3	3	1	--	--	--	--	--	--	1	2	--
-----	--	----	---	---	---	----	----	----	----	----	----	---	---	----

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	Ms. P.J. Lanjewar	Lecturer in DDGM
2	Ms. N.R. Lakhotiya	Lecturer in DDGM

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Computer aided Designing (CAD)**COURSE CODE:6D206****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	THIRD

1. RATIONALE

The use of CAD in clothing & designing is an inseparable part, which is preparing student for a career either in fashion industry or in the designing market. The course provides the knowledge and skills for applying CAD in the field of Garment Designing.

2. COMPETENCY

“Apply graphic software for garment designing & presentation skills”.

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE@ (PR)	PA (TW)	
0	0	4	4	00	00	25@	50	75
Duration of the Examination (Hrs)				-	-	4	-	

Legends: L- Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-**Practical;

C- Credit; **ESE-** End Examination; **PT-** Progressive Test; **PA-**Progressive Assessment, **OR-**Oral Examination, **TW-** Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

1. Select tools of Corel Draw for designing elements.
2. Apply the Corel Draw tools for illustrating textile prints, garment elements, effects in garment designing.
3. Design logos, visiting cards & promotional medias.
4. Apply different color schemes to improve design quality.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Corel- Draw	1a. Identify Corel-Draw graphics of Garment Designing 1b. Select the different bars and terminology of working space.	1.1 Introduction to Corel-Draw, its Menus & Bars. 1.2 Difference between vector & raster images.

	1c. Outline the importance of Corel-Draw in designing.	
Unit– II Intro & use of basic Tools	2a. Identify Tools of Corel-Draw. 2b. Select different tools of Corel-Draw for designing elements. 2c. Illustrate Basic shapes & create small motifs. 2d. Edit texts and apply the colors and dimensions to text. 2e. Differentiate between clone and duplicated tool.	2.1 Pick tool Shape Tool & Its sub Tools 2.2 Crop Tool & Its sub Tools 2.3 Smart Fill, Drawing Tool. 2.4 Rectangle Tool, 3 point rectangle, Ellipse, 3 point Ellipse 2.5 Polygon Tool, Star, Complex Star tool 2.6 Basic Shapes, Arrow shape flow 2.7 Chart shapes, Banner shapes, call out shapes. 2.8 Text Tool & table tool 2.9 Blend, Contour, Distort, drop shadow, transparency, Eye Dropper Paint Bucket, Outline Pen. Outline color. 2.10 Clone & duplicate
Unit– III Intro to Drawing and color filling tools	3a. Draw different shapes, of garments using appropriate tools. 3b. Fill colors and create filling effects. 3c. Explain the use of Artistic media. 3d. Differentiate between interactive fill & fill tool.	3.1 Bezier Tool & its sub tools 3.2 Free hand tool 3.3 Artistic media 3.4 Pen Tool 3.5 Point curve tool 3.6 Fill tool & its sub tools 3.7 Interactive fill 3.8 Mesh Fill
Unit-IV Intro. to Effect tools.	4.a Apply the given effects in various assignments.	4.1 Envelope tool 4.2 Extrude tool 4.3 Perspective tool 4.4 Powerclip 4.5 Transformation 4.6 Conversion to Bitmap & applying effects.

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
NIL						

Legends: R = Remembrance; U = Understanding; A = Application and above levels
(Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	II & III	Create Basic Shapes Project on Elements of costumes.(any three) a) Necklines b) Sleeves c) Collar d) Skirts e) Trouser f) Jackets	20
2	II & III	Create Textiles Prints and different texture effects of fabric(any two prints & effects) a) Floral Prints b) Geometrical Print c) Ethnic Prints d) Conversational prints. e) Quilting effects f) Fur effect g) Transparency h) Embroidery	16
3	II, III & IV	Create a Fashion mannequin.(Female)&dressing with a casual/formal/beach /sport's wear.	08
4	II , III & IV	Design Logo for Institute , Design Visiting card,	08
5	II & III	Draw flats &spec sheets.	04
6	II,III & IV	Make any one promotional media	08
Total =			64

8. SUGGESTED STUDENTS ACTIVITIES

- 1 Collect fabric swatches of different print and try to draw the same in Corel-Draw.
- 2 Collect different designs of visiting cards.
- 3 Collect different promotional Media & design any one of it..

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

- 1 Arrange field visits to offset printing units/Advertising agencies.
- 2 Motivate students to use internet and prepare assignments on advanced effects in Corel-Draw.
- 3 Arrange competition on greeting cards.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Corel Draw Wow Book	LinneaDayton,Shan Hunt & Sharon Stever	DestokPublishion ISBN 0-201-88632-4
2	Corel Draw 12	L.P.Editorial Board	Law point Publication ASIN:B00RXALYV4

3	Corel Draw X7 in simple Steps	Kogent Learning Solution	Dreamtech Press ISBN 10:9351194698
4	Corel Draw 8:The official guide	Foster D. Coburn	Osborne/McGraw-Hill ISBN10:0078824478

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	Computer system with internet.	Intel processor core i3 or i7 or latest with mother board Intel chipset 41/61/latest with 4 USB,1 serial port, 1 LPT port,2GB RAM DDR III,500 GB Sata Hard disk, 16" or 18.5" LCD/LED monitor, ATX cabinet with SMPS and lock system, DVD writer, Keyboard, USB mouse,1 Gigabit Network card/ latest configuration
2	Corel-Draw software	X4-15 User
3	Scanner	HP Scan Jet ,flat bed with 4800dpi with scan size 216*311mm for all medias(paper,envelopes,labels) & control panel with scan input modes(front panel),compatables with operating system 7,8,10windows

12. LEARNING WEBSITE AND SOFTWARE

- 1 <https://www.youtube.com/watch?v=XcPLf4Ox5qw>
- 2 https://www.insidegraphics.com/corel_basics/default.asp
- 3 <https://www.youtube.com/watch?v=vjzuyaKJyMI>
- 4 <http://www.sulfurcreek.com/classes/CDclass/dr12Bch1.htm>
- 5 <http://www.coreldraw.com/us/pages/items/17700701.html>
- 6 <http://www.coreldraw.com/us/pages/items/17700700.html>
- 7 <http://design.tutsplus.com/tutorials/a-beginners-guide-to-digital-textile-printing--vector-3189>
- 8 <https://www.youtube.com/watch?v=JnvdZwHnek>
- 9 <https://www.youtube.com/watch?v=U4LpoDMgjNw>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's)WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Select tools of CorelDraw for designing elements	--	2	2	--	--	--	--	--	--	--	--	--	1
CO2	Apply the CorelDraw tools for illustrating	--	2	3	--	--	--	--	--	--	--	--	--	1

	textile prints, garment elements ,effects in garment designing													
CO3	Design logos, visiting cards & promotional medias.	--	1	3	--	--	--	--	--	--	--	--	--	2
CO4	Apply different color schemes to improve design quality.	--	2	3	--	--	--	--	--	--	--	--	--	2

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	F.B.Siddiqui	Lecturer in DDGM, GPA
2.	J.S. Lakade	Lecturer in DDGM, GPA

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Indian Costume (ICS)**COURSE CODE:6D302****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	THIRD

1. RATIONALE

This course provides the knowledge of Indian costumes. The course cover those early periods & the uniqueness of the various draping styles, costumes, color schemes & ornaments of different states & to make the source of inspiration in their designing skills.

2. COMPETENCY

“Design innovative costumes using resource of Indian Costumes.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE@ (PR/OR)	PA (TW)	
3	1	0	4	40	10	00	00	50
Duration of the Examination (Hrs)				2	1	-	-	

Legends: L- Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-**Practical;

C- Credit; **ESE-** End Examination; **PT-** Progressive Test;**PA-**ProgressiveAssessment, **OR-**Oral Examination, **TW-** Term Work; # External, * Internal

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

- 1 Analyze the influence of Mughal era on Indian costumes.
- 2 Identify the traditional Maharashtradrapping styles.
- 3 Createcontemporary designs of traditional ornaments.
- 4 Apply traditional costumes of mentioned states of India in your designs.
- 5 Identify traditional costumes of mentioned Indian states.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Influence of Mughal Emperors era	1a. Describe the history of Akbar & Jahangir era 1b. Explain the influence of Rajput on Akbars costume.	1.1 Study of costumes of Akbar era-Jama,Turban. 1.2 Influence of Rajput on Akbar’s costume. .

on Indian costumes		1.3 Study of Jahangir era-Jama, Turban, Footwear. 1.4 Study of costume of Aurangzeb era.
Unit– II Study of Indian costume through different states Maharashtra :	2a. Describe men's & Women's costume of Maharashtra- Dhoti ,Sadra , Ganjipharak , Bandi , Pheta, Sari Drape- Sakachcha – Nesana&GolNesana&Choli. 2b. Illustrate the costume of Maharashtra men & women.	Maharashtra - 2.1 Study of Men's Costume. Dhoti,Sadra ,Ganjipharak , Bandi , Pheta. 2.2 Study of Women's Costume. Sari Drape- Sakachcha – Nesana&GolNesana&Choli. 2.3 Study of Ornaments.
Unit– III Kashmir & Punjab	3a. Explain Costume of Men & Women-Pehran ,Salwar , Rural Men, Urban Punjabi Men- KhesTehmed , Kurta, Pajama, sharwani, chuddidar,Tarban. Chadar , Skull – Cap 3b. Describe the ornaments used by kashmiri/Punjabi women. 3c. Illustrate the costume & ornaments of Punjabi men & women	Kashmir 3.1 Costume of Men & Women.Pehran ,Salwar , Chadar , Skull – Cap Etc. 3.2 Study of Ornaments Kashmir 3.3 Costume of Rural Men, Urban Men- Khes,Tehmed , Kurta, Pajama, sharwani, chuddidarTurban. 3.4 Costume of Rural Women & Urban Women- Salwar , Kameez , Orhani , Churidar, Ghagra, Kurti, 3.5 Study of Draping of Dupatta Study of Ornaments.
Unit– IV Gujarat & Rajasthan	4a. Explain different Men's & Women Costume of Gujarat- Dhotiyu / BadanaPotadi / Paheeran / Jabboh / Paghadi / Kediyu ,Chaniya – Choli, Orhani, Kancholi 4b. Describe the ornaments of Gujarati & Rajasthani women 4c. Explain the costume of Rajasthani men & Women- Dhoti ,Bandia – Angarkha , PotiaAchakan-Ghagra – Choli,Orhani.Jodhpur,Breeches, PicharangaPagadi , Kamarband.	Gujarat : 4.1 Study of Men's Costume- Dhotiyu / BadanaPotadi / Paheeran / Jabboh / Paghadi / Kediyu 4.2 Study of Women's Costume.Chaniya – Choli, Orhani, Kancholi 4.3 Study of Ornaments Rajasthan : 4.4 Costume of Rajasthani men Dhoti,Bandia – Angarkha ,PotiaAchakanJodhpur,Breeches, PicharangaPagadi , Kamarband. 4.5 Costume of Women:Ghagra – Choli, Orhani. 4.6 Study of Ornaments.
Unit– V Bengal	5a. Explain the Costume of Bengali Men & women	Bengal : 5.1 Costume of

&Kerala	Dhoti/Kurta /Gangi/ bandi/ khes. 5b. Describe the Ornaments of Bengali women. 5c. Explain the Costume of Kerala Men& women- Mundu, Konam, Torthu, Parumundu, Thattu. 5d. Compare the costume of Christian, Muslim & Jewish Women.	MenDhoti/Kurta /Gangi/ bandi/ khes. 5.2 Costume of Women, Draping style of saree. 5.3 Study of Ornaments. 5.4 Costume of Kerala Men Mundu, Konam, Torthu, Parumundu, Thattu. 5.5 Costume of Women- Onnaramundu, Blouse, Mundu, Neriya tu 5.6 Costume of Christian, Muslim & Jewish Women,
--------------------	--	--

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	Influence of Mughal Emperors era on Indian costumes	10	04	04	00	08
II	Study of Indian costume of different states - Maharashtra:	06	02	04	02	08
III	Kashmir & Punjab	10	02	04	02	08
IV	Gujarat&Rajasthan	12	02	04	02	08
V	Bengal & Kerala	10	02	04	02	08
Total		48	12	20	08	40

Legends: R = Remembrance; U= Understanding; A= Application and above levels (Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr.no.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I-V	Collect the photos of costumes& Prepare a Hand book.	04
2	I-V	Prepare contemporary designs of different states costumes.	04
3	I	Draw the costume of Mughal Emperors era.	02
4	III,V	Draw the costume of Punjab, Bengal states.	02
5	II,IV	Collect costumes & accessories & prepare a display of Maharashtra&Gujarat or Rajasthan state.	04
Total			16

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

- 1 Prepare sketches of costumes.
- 2 Collect & Prepare displays of traditional costumes of India (which is not covered in tutorial).
- 3 Prepare a book with pictures of traditional costume & ornaments of India.
- 4 Collect videos of traditional draping through internet.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

1. ICT Strategies
2. Group Strategies
3. Demonstration for draping garments
4. Live modeling.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Indian Costumes	A. Biswas	---
2	The Saree	Linda Lynton	Thames & Hudson LTD ISBN10:0500283788
3	Costume & textile of Royal India	Ritu Kumar	Acc art books ISBN10:1851495096
4	History of fashion	---	---

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	LCD Projector	LCD Projector with LCD Panel, Lence, Lamp, ceiling or flore installation & Supplied Accesssories
2	Visualizer	PS Scan Camera with internal picture memories ,vertical & horizontal & 350 degree head rotation. Led upper light & accessories.

12. LEARNING WEBSITE AND SOFTWARE

1. <http://en.wikipedia.org/wiki/Akbar><http://blog.cbazaar.com/dress-like-jodha-aka-paridhi-sharma-and-akhbar-aka-rajat-tokas/>
2. http://www.josbd.com/Mughal_dress.html
3. <http://www.hinduwebsite.com/history/akbar.asp>
4. <http://www.utsavpedia.com/fashion-cults/indias-greatest-emperor-in-history-akbar/>
5. <http://world4.eu/indian-mughal-empire-costumes/>
6. <https://www.youtube.com/watch?v=NnsPsLQbPfU>
7. <https://www.youtube.com/watch?v=JOAPLLZW1v4>
8. <https://www.youtube.com/watch?v=8J7wTGGRjC8>
9. <https://www.youtube.com/watch?v=jorqok0ydg>
10. <https://www.youtube.com/watch?v=JUGjeHCJ7Pc>
11. <https://www.youtube.com/watch?v=HbB1Z0CLXn0>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's) WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Analyze the influence of Mughal era on Indian costume.	2	--	1	--	--	--	--	--	--	--	-	1	--
CO2	Identify the traditional Maharashtrian draping styles and ornaments	2	--	1	--	--	--	--	--	2	--	--	1	--
CO3	Create contemporary designs of traditional ornaments	3	--	1	--	--	--	--	--	2	--	--	1	--
CO4	Identify traditional costumes of mentioned Indian states.	3	--	1	--	--	--	--	--	2	--	--	2	--
CO5	Apply traditional costumes of mentioned states of India in your designs.	2	--	--	--	--	--	--	--	2	--	--	1	--

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	A.L .Rode	Lecturer in DDGM, GPA
2	P. J. Lanjewar	Lecturer in DDGM, GPA

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Fashion Illustration (FIL)**COURSE CODE:6D402****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	THIRD

1. RATIONALE:

This course applies the art of communicating fashion ideas in a visual form. It explores the creativity through texture rendering techniques, depicting fashion flats. The course helps to render different garment categories and accentuating proper figure shape for different figure types by enhancing the best in every outfit.

2. COMPETENCY

“Apply elements of design for different figure types with appropriate presentation techniques.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE@ (PR/OR)	PA (TW)	
1	0	3	4	00	00	50@	50	100
Duration of the Examination (Hrs)				-	-	04	-	

Legends: L- Lecture; T- Tutorial/Teacher Guided Theory Practice; P-Practical;

C- Credit; ESE- End Examination; PT- Progressive Test; PA-Progressive Assessment, OR-Oral Examination, TW- Term Work; # External, @ Internal, ~ Online Examination

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

- 1 Identify different style variable for creating different patterns.
- 2 Illustrate Male & Children poses with rule of proportion & weight distribution.
- 3 Create different texture effects with fabrication.
- 4 Prepare technical flats & spec sheets
- 5 Suggest Do's and Don'ts for different figure types.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Study of different	1a. Illustrate Male poses using rule of proportion. 1b. Draw Children poses using	1.1 Study of different poses Men & Children- using rule of proportion.

poses	rule of proportion. 1c. Explain how to draw toddlers to pre-adolescence. 1d. Prepare Male & Children poses with weight distribution.	[Toddlers to pre-adolescence.]
Unit– II Textural experiments with mixed media.	2a. Explain how to develop textures according to season. 2b. Describe the process of making textures with color media. 2c. Illustrate croquis with texture effects with fabrication.	2.1 Textural experiments with mixed media. Knit, Wool, Fur, Leather Satin, Velvet, Embroidered fabric, Smocking, Shirring, Lace, Crepe, Cotton, Linen, Dobby, Georgette (Assignment can have a combination of two or more textures & to be segregated into Autumn, Spring, , Summer & Winter wear.)
Unit– III Introduction to Flats & Spec	3a. Explain the importance of Flats & Specs in designing. 3b. Prepare technical flats & specs 3c. Process of making portfolio flats.	3.1 Introduction to Flats & Spec- How to make flats & spec sheets. 3.2 Croqui mixed with flats. 3.3 Portfolio flats.
Unit-IV Garment variations by category-	4a. Explain style variables. 4b. Differentiate between T-shirt and Sweaters. 4c. Illustrate the given garment categories with style variations.	4.1 Garment variations by category- a. Tops and T-shirts b. Sweaters c. Shirts and Blouses d. Outer jackets and Vests e. Dresses With style variables.
Unit – V Optical Illusion using elements of design.	5a. Describe elements of design. 5b. Explain different figure types and optical illusion using elements of design. 5c. Suggest do's and don'ts for different figure types. 5d. Prepare sheets accordingly by using -color, texture, lines, prints.	5. Optical Illusion using elements of design. Study of do's & don'ts of different figure type. 5.1 Top Heavy & bottom Heavy. 5.2 Tall & thin & tall & stout. 5.3 Short & thin & short & stout.

Note: Experiments beyond the course curriculum should be conducted.

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	Study of different poses	02	00	00	00	00
II	Textural experiments with	04	00	00	00	00

	mixed media					
III	Introduction to Flats & Spec	03	00	00	00	00
IV	Garment variations by category	03	00	00	00	00
V	Optical Illusion using elements of design	04	00	00	00	00
		16	00	00	00	00

Legends: R = Remembrance; U= Understanding; A= Application and above levels
(Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	Exercises on Male and Children poses with rule of proportion. (Minimum eight poses each)	09
2	II	Exercises on Textural effects mixed with croquis. (Minimum six effects required)	09
3	II	Assignments on Autumn, Spring, , Summer & Winter wear. (Four sheets of above seasonal wear mixed with croquis and textures.)	09
4	III	Assignment on technical flats & specs.	06
5	IV	Assignment on Garment categories (Prepare sheets of given categories using flats & specs)	06
6	V	Assignment on optical illusion on figure types using- a) Color b) Lines c)Texture d) Print (Prepare sheets of optical illusion using each element given.)	09
Total			48

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

- 1 Collect different fabric swatches from local market to identify texture effects.
- 2 Analyze the effects and try it to be exact on sheets using color media (any five)
- 3 Analyze different colors, textures used for season wears and prepare report.
- 4 Collect pictures of different seasonal wears from magazines and Internet.
- 5 Select a garment category and collect ten pictures for swimwear, sleepwear.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

- 1 Motivate students to use Coral and Photoshop to prepare texture effects.
- 2 Motivate students to use internet and collect pictures of other garment category not covered.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Fashion Design Illustration -Men	Patrick John Irland	B.T.Batsford ISBN10:0713466235
2	Fashion Design Illustration– Children	Patrick John Irland	B.T.Batsford ISBN10:0713466243
3	Introduction to Fashion Design	Patrick John Irland	B.T.Batsford ISBN10:0713460172
4	Fashion Design Drawing & presentation	John Irland	B.T.Batsford ISBN 0713435194
5	Children's Fashion Illustration	KojiroKumagai	Graphic Sha Publishing Company ISBN10:4766102940
6	Fashion Drawing	Anne Allen & Julian Seman	ISBN-0-7134-7096-8

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	Color Medias, Brushes etc. all drawing material	Round & Flat Brushes 0,00 To 12NO,Poster & Pencil Colors 12Shades
2	Drawing Table/ Board	Ms steel square pipe 16 gauge, stands are power coating painted. Knobs for adjustments, with standard size top.

12. LEARNING WEBSITE AND SOFTWARE

- 1.<https://www.youtube.com/watch?v=-Z2hvYFkUF0>
- 2.www.tedbaker.com/.../Clothing/Tops...shirts/.../category_womens_clothing_tops-t-shi...
- 3.<https://ir.library.oregonstate.edu/xmlui/bitstream/handle/1957/.../ECNO1382.pdf?>
- 4.<https://www.youtube.com/watch?v=99zNSnPJ04E>
- 5.<https://www.youtube.com/watch?v=zqMtkEP6E7I>
- 6.<https://www.youtube.com/watch?v= xf5Lr4vv3Q>
- 7.<https://www.youtube.com/watch?v=8DJCEDERGy8>
- 8.<http://www.craftsy.com/blog/2013/10/watercolor-texture-techniques>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's)WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Identify different style variable for creating different patterns.	--	1	2	--	1	--	--	--	--	--	--	1	--
CO2	Illustrate Male & Children poses with rule of proportion & weight distribution.	--	2	3	--	1	--	--	--	--	--	--	1	--
CO3	Create different texture effects with fabrication.	--	3	2	--	--	--	--	--	--	--	--	1	--
CO4	Prepare technical flats & spec sheets	--	1	3	--	--	--	--	--	--	--	--	1	--
CO5	Suggest Do's and Don'ts for different figure types.	--	1	2	--	1	--	--	--	--	--	--	1	--

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	Mrs.A.V.Ramaiya	Lecturer in DDGM,G.P.A,Bad
2	Mrs.M.P.Chavan	Lecturer in DDGM,G.P.A,Bad

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Pattern Alteration & Grading [PAG]**COURSE CODE:6D404****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	THIRD

1. RATIONALE

The course provides the alterations made on basic pattern sets for unfit garments. The skills developed enable a designer to overcome the figure faults by altering the paper patterns allowing proper hang of the garment to various figures having disproportionate posture, non symmetric line, unvarying contours etc. It provides the knowledge about fashion reading & grading which make pupil able to design various styles in different sizes to meet the industrial need.

2. COMPETENCY

“Analyze figure challenges and alter the standard pattern to enlarge & reduce the size as per requirement.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE@ (PR)	PA (TW)	
2	0	2	4	00	00	50@	50	100
Duration of the Examination (Hrs)				--	--	04	--	

Legends: L- Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-**Practical;

C- Credit; **ESE-** End Examination; **PT-** Progressive Test; **PA-**ProgressiveAssessment, **OR-**Oral Examination, **TW-** Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

1. Identify abnormalities of figure occurred due to habits, occupation, accidents and heredity.
2. Identify the problems of fit and indicate remedies.
3. Develop Basic Pattern Alteration for various block set .
4. Prepare advanced and integrated pattern alterations for garments.
5. Grade the patterns for required sizes by slash and pivot method.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I- Introduct ion of Figure types & General Abnorma lities	1a. Identify different figure types 1b. Describe features& key measurements for various figure types. 1c. Explain abnormalities occurs due to variation in Proportion, contours, Posture, & symmetry 1d. Develop Indian figures size chart through market survey for male female & kids. 1e. Compare measurements of Indian female size 10 with Metric female size 10.	1.1 Types of figure- Misses, miss petite, junior, junior petite, young junior or teen, half size and women & Ideal standard Figure. 1.2 Abnormality occurs due to following variations- Variation in Proportion, Variation in contours, Variation in Posture, Variation in symmetry. 1.3 Abnormalities occurred due to habit, heredity, occupation & accidents.
Unit– II Importan ce of good fit & Introduct ion to pattern alteration	2a. State the importance of good fit in apparels. 2b. Develop a chart on dos & don'ts for design application to all types of figure.any4 2c. Explain Principles of pattern alteration. 2d. Describe method of taking measurements for alteration. 2e. Develop new patterns for various abnormalities with the use of three steps of pattern alteration.	2.1 Elements of good fit. Appearance, comfort, design and Fabric. 2.2 Do's & don'ts for design application to all types of figure, such as Tall & thin, Tall & stout, Short& stout, Short & Slim and corpulent fig. 2.3 Steps of pattern alteration i. Taking key measurements ii. Comparing measurements iii. Making the alteration
Unit– III Basic pattern alteration	3a. Identify the need of length, width & hip alterations 3b. Explain Length & Width alteration (increase & decrease) Bodice, Sleeve, Princess Line & skirt 3c. Describe Hip line alteration (Increase & decrease)- Bodice, Sleeve, Princess Line & skirt.	3.1 Length alteration (increase & decrease) Bodice, Sleeve, Princess Line & skirt 3.2 Width alteration (increase & decrease)-Bodice, Sleeve, Princess Line & skirt 3.3 Hip line alteration (Increase & decrease)-Bodice, Sleeve, Princess Line & skirt
Unit– IV Advance alteration	4a. Differentiate between basic & advanced alteration 4b. Identify fitting problems in garments. 4c. Prepare shell for figure types.	4.1 Advance alteration i. Method for advance alteration ii. Make a shell iii. Judging the fit 4.2 Neck line alterations: Tight & too loose neckline;

	4d. Alter the pattern according to the various figure types.	<p>large neckline, gaping neckline.</p> <p>4.3 Shoulder alterations -Sloping, square, narrow and broad shoulders</p> <p>4.4 Bust alterations -Hollow, pigeon bust, high and low bust large cup and Small cup</p> <p>4.5 Back alterations -Broad, narrow, round and erect back</p> <p>4.6 Armhole and sleeve alterations -High or tight armholes, gaping armhole sleeve too tight (large elbows), too loose (heavy upper arm), sleeve cap rise.</p> <p>4.7 Protruding hip bones (for skirts only)-One high hip,sway back.</p> <p>4.8 Derriere alterations(for skirts only) -Round or flat derriere, sway back</p>
Unit - V Grading	<p>5a. Identify the need of computer grading in apparel industry.</p> <p>5b. Compare methods of grading.</p> <p>5c. Grade the pattern in different sizes with pivot & slash method</p>	<p>5.1 Introductions to grading</p> <p>5.2 General principles</p> <p>5.3 Practical principles</p> <p>5.4 Importance of computer in Grading.</p> <p>5.5 Sizing development</p> <p>5.6 Basic grading applications on the following: The basic front& backbodice , sleeve ,collars, basic skirt, and Kids trouser block.</p>

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	Introduction of Figure types & General Abnormalities	06	00	00	00	00
II	Importance of good fit & Introduction to pattern alteration	04	00	00	00	00
III	Basic pattern alteration	06	00	00	00	00
IV	Advance alteration	08	00	00	00	00
V	Grading	08	00	00	00	00
Total		32	00	00	00	00

Legends: R = Remembrance; U= Understanding; A= Application and above levels (Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	Measure proper key measurement of different figure.	02
2	II	Prepare a size chart for different types of figure.	03
3	III	a) Alter length alteration. b) Alter width alteration. c) Alter waist alteration. d) Alter hip alteration.	04
4	IV	Make Advance alteration— Neck line alterations- Tight & too loose neckline; large neckline, gaping neckline.	02
5	IV	Alter shoulder alterations -Sloping, square, narrow and broad shoulders	02
10	IV	Alter bust alterations -Hollow, pigeon bust, high and low bust large cup and Small cup	02
11	IV	Alter back alterations -Broad, narrow, round and erect back.	01
12	IV	Alter armhole and sleeve alterations - High or tight armholes, gaping armhole sleeve too tight (large elbows), too loose (heavy upper arm), sleeve cap rise.	02
13	IV	Alter Protruding hip bones (for skirts only)-One high hip, sway back.	01
14	IV	Alter derriere alterations (for skirts only) -Round or flat derriere, sway back	01
15	V	Grade the following patterns: (Increase & Decrease by Slash & Pivot Method)- The basic front & back bodice block, sleeve and collars, basic skirt.	12
TOTAL			32

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

Following is the list of proposed student activities like.

1. Prepare a size chart for any three types of Indian female figure .
2. Solve alteration problems for two members of your family.
3. Analyze the specifications and suitable color and fabric and style line for various types of figure.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

1. Improved lectures
2. Demonstration
3. Group discussion
4. Arrange guided industrial visits at clothing industry.
5. Motivate students to use internet and collect name, addresses, and specifications of manufacturers of size chart, machines and equipment.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Simplicity		
2	Complete guide to sewing	Reader Digest	Reader Digest Publication ISBN-10:0762104201 ISBN-13:978-0762104208
3	The perfect fit : The classic guide to Altering pattern	Lynda Maynard	Creative Publishing ISBN-10:1589232275 ISBN-13:978-1589232273
4	Fitting & Pattern Alteration: A Multi-Method Approach	Elizabeth L, Liechty	Fair Child Books ISBN-10:1563677830 ISBN-13:978-1563677830
5	Fast fit: Easy Pattern Alteration for every figure book.		
6	Concept of Pattern Grading for Women's, Men's.		

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	LCD Projector	LCD Projector with LCD Panel, Lence, Lamp, ceiling or flore installation & Supplied Accessories
2	Brown paper, Tailors chalk, Measuring tape, scissors.	Stationary material as per requirements
3	Cutting tools – Shears, Scissors, Dress Makers Shears, Scaloping, shears, Cutting table etc	Scissor-Sharp blades and well proportioned hardness Corrosion and abrasion resistant Sizes: 9/10/11/12-inch Length: 240mm, 260mm, 280mm, 300mm,

	8 inch stainless steel blades for scallop shear,
--	--

12. LEARNING WEBSITE AND SOFTWARE

1. http://tuscarawas.osu.edu/sites/tuscarawas/files/imce/Program_Pages/4H/GuidelinesCloth/Principles%20of%20Pattern%20Alteration.pdf
2. <http://www.clothingpatterns101.com/clothes-that-fit.html>
3. http://www.cwu.edu/~robinsos/ppages/resources/costxt/costxt_17.htm
4. <https://www.youtube.com/watch?v=nx35FBDQhLo>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's) WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Identify abnormalities of figure occurred due to habits, occupation, accidents and heredity.	--	2	1	--	3	--	--	--	--	--	--	1	--
CO2	Identify the problems of fit and indicate remedies.	--	2	1	--	3	--	--	--	--	--	--	1	--
CO3	Develop Basic Pattern Alteration for various block set	--	2	3	2	--	--	--	--	--	--	--	2	--
CO4	Prepare advanced and integrated pattern alterations for garments	--	3	3	3	--	--	--	--	--	--	--	2	--
CO5	Grade the patterns for required sizes by slash and pivot	--	3	3	2	--	--	--	--	--	--	--	2	--

	method.													
--	---------	--	--	--	--	--	--	--	--	--	--	--	--	--

Course Curriculum Design Committee

Sr. Name of the Faculty Designation of the Institute

No. members

1 **Ms. A.L.Rode** **Lecturer in DDGM**

2 **MS. P.J. Lanjewar** **Lecturer in DDGM**

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Indian Textile & Embroidery (ITE)**COURSE CODE: 6D407****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	Third

1. RATIONALE

Designing profession needs the quality of identifying the textile of each state of India with respect to colours, weaving and motifs for designing.

Surface Ornamentation with embroidery on garments increases the value of garments. This technique of Value addition is a one of the professional area of this programme, which is practiced by many Indian Designers. This course develops the skill of World/Indian embroidery application on garments. Students can choose this area professionally and have an identity in designing.

2. COMPETENCY

“Identify Indian textile of various states and implement the world embroidery in designing process.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE# (PR)	PA (TW)	
4	0	3	7	80	20	50#	50	200
Duration of the Examination (Hrs)				3	1	4	-	

Legends: **L-** Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-** Practical; Credit; **ESE-** End Examination; **PT-** Progressive Test; **PA-** Progressive Assessment, **OR-** Oral Examination, **TW-** Term Work; # External, * Internal

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

- 1 Identify and select appropriate material, motifs and stitches of Indian and World embroidery as per garment design.
- 2 Design and apply traditional and contemporary motifs of Indian and World embroidery
- 3 Prepare samples of Indian & World embroidery.
- 4 Identify the motifs, color combination and textiles of western, Eastern, & south region..
- 5 Analyze the origin & features of western, Eastern, & South region textile.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (in cognitive domain)	Topics & Sub –Topics (Containing Pos & Cos assignment in each Sub - topics)
Unit-I European, Chinese Work	1a. Describe the Origin of Black Work ,Chinese , &Mountmellick Embroidery. 1b. Suggest colors & fabrics used for Black Work ,Chinese , &Mountmellick Embroidery 1c. Explain the stitches & threads used for Black Work ,Chinese , Mountmellick Embroidery.	1.1 European(Black Work &Mountmellick –Black & White) 1.2 Origin, Stitches, Motifs & types of embroidery 1.3 Color, fabric, threads used in the Black & White embroidery. 1.4 Chinese embroidery 1.5 Origin ,Stitches, Motifs & types of embroidery 1.6 Color, fabric, threads used in Chinese embroidery
Unit-II Western Region- Maharashtra, Rajasthan & Gujarat	2a. State the origin & techniques of Deccan Sari, Paithani Sari, Himroo Shawls, Patola & Gharchola. Hand block printed textiles 2b. Write the characteristics of Deccan Sari, Paithani Sari, Himroo Shawls, Patola & Gharchola. 2c. Describe the motifs & color combination of Himroo Shawls 2d. Compare Pitambari with Paithani 2e. Differentiate between Patola & Gharchola.	2.1 The Western Region - Maharashtra ,Rajasthan & Gujrat. Origin, techniques, fabric used, various motifss & color combination, & characteristics of following textiles 2.2 Deccan sari ,Paithani Sari & Pitambari, Himroo Shawls. 2.3 Rajasthan:Hand block printed sari, Bandhej the lehriya. 2.4 Gujrat: - PatanPatola, Tinsel Sari, Gujarati Brocades, Gharchola.
Unit-III The Eastern Region- Bengal, Bihar	3a. Explain the fabric, stitches, motifs, color combination of Eastern region textiles. 3b. Differentiate between Dacca muslin and Jamdani muslin.	3.1 The eastern Region- Bengal, Bihar:-Origin, techniques, fabric used, various motives & color combination, & characteristics of following textiles 3.2 Bengal: - Bengali Deshi muslin, Dacca muslins, Jamdani Muslins, Bengal silks. 3.3 Bihar: - Tasar Silk, Khadi
Unit-IV South Region- Tamilnadu, Karnataka, Andhra	4a. State the fabric, stitches, motifs, color combination of South region textiles. 4b. Describe the characteristics of kornad sari.Kora,Pochampalli,	4.1 South Region- Tamilnadu, Karnataka, Andhra Pradesh Origin, techniques, fabric used, various motives & color combination, & characteristics

Pradesh	4c. Ikat ,Gadwal Sari. 4d. Explain the weaving techniques of Kornad sari.Kora,Pochampalli,Ikat, Gadwal Sari.	of following textiles 4.2 Tamilnadu: - Kornad Sari, KosaraPadava, Kora Silk. 4.3 Karnataka: - Karnataka Saris 4.4 Andhra Pradesh: - Batik &Kalamkari, Gadwal sari, PochampalliIkat, siddipet Khan.
UNIT V- Indian Embroidery	5a. Identify the Indian Embroidery & state its features. 5b. State the fabric,stitches,motifs,threads,col our combination of each embroidery.	5.1 Uttarpradesh Embroidery:- Origin;Fabrics;Stitches Motifs & themes;articles 5.2 Himachal Pradesh:- Origin ;Fabrics; Stitches; Motifs; themes and articles

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOT AL
I	European, Chinese	12	6	8	6	20
II	Western Region- Maharashtra, Rajasthan & Gujarat	14	4	6	4	14
III	The eastern Region- Bengal, Bihar	12	4	6	4	14
IV	South Region- Tamilnadu, Karnataka, Andhra Pradesh	12	4	6	4	14
V	Indian Embroidery	14	6	6	6	18
Total	64	64	24	32	24	80

Legends: R = Remembrance; U= Understanding; A= Application and above levels.

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No .	Unit No.	Practical Exercises (Outcomes in Psychomotor Domain)	Approx. Hrs. Required
1	I	Prepare Sample of Black Work	9
		Working Out the Sample of mount mellick	9
3	V	Working Out the Sample of Chikankari of Uttar Pradesh .	9
4	I	Prepare Sample of Chamba Work	9

5	II,III,IV	Power point presentation should be prepared on each topic.	12
TOTAL			48

8. SUGGESTED STUDENTS ACTIVITIES.

- 1 Collect the articles of various embroideries and study the stitches and motifs.
- 2 Visit the sari retail outlets and study the features of saris of each state of India.
- 3 Visit to various embroidery and textile exhibition.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

Experiential learning, presentation based learning, online learning.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Title Of Book	Author	Publication
1	The Sari	Linda Lyntan	Blackwell science ISBN 10 : 1405102780
2	Batik and tie Dye Techniques	Nancy welfer	Dover Publication ISBN-10:0486271315 ISBN-13:978-048671316
2	Elements of fashion & apparel design	Sumathi G.J.	New Age International Pub; First edition (2002) ISBN-10: 8122413714
3	Masterpieces of India Textiles	Rustam J. Mehta	ISBN-10: 090665405X

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1.	Hand needle, embroidery ring, anchor embroidery thread, embellishment materials	Needles-1-12,18-28-rings-13-27 cm,high quality anchor brand threads of 8. mts each skein
2.	Yellow carbon , tracing paper drawing paper for file , Pencil, Pen	Yellow and black carbon paper – A4 size.,A-4 size butter paper,2 b pencil,
3.	Different texture fabric- cotton ,silk, khaddar, casement	As per requirement of project.

12. LEARNING WEBSITE AND SOFTWARE

<https://www.youtube.com/watch?v=oEXuktYWafk>

<https://www.youtube.com/watch?v=fJzEj5cNEiI>

<http://www.indian-heritage.org/alangaram/textiles/specials.html>

<http://textiles.indianetzone.com>

<http://www.webindia123.com>

<http://www.craftsvilla.com/blog/indian-handlooms-from-different-states-of-india>

<https://www.sarisafari.com/saristyles.html>

<http://www.indiamarks.com/different-types-saris-north-india-south-india-east-india/>

**13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME
SPECIFIC OUTCOMES (PSO's)WITH COURSE OUTCOMES (CO's)**

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Identify and select appropriate material, motifs and stitches of Indian and World embroidery as per given design	--	2	--	--	--	--	--	--	--	--	--	--	--
CO2	Design and apply traditional and contemporary motifs of Indian and World embroidery	--	2	3	--	--	--	--	--	--	--	3	--	--
CO3	Prepare samples of Indian & World embroidery.	--	2	3	--	--	--	--	--	--	--	3	--	--
CO4	Identify the motifs, color combination and textiles of western, Eastern, Northern East & south region textile.	--	2	--	--	--	--	--	--	--	--	--	--	--
CO5	Analyze the origin & features of western, Eastern, Northern East & South region textile.	--	2	--	--	--	--	--	2	2	--	--	--	--

Sr. No.	Name of the Faculty members	Designation of the Institute
1	Ms.P.J.Lanjewar	Lecturer Dress Designing & garment A'bad.

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Graphic Designing (GRD)**COURSE CODE:6D207****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	Fourth

1. RATIONALE

Graphic Designing helps to ease the designing process right from inspiration to technical sketch. This process of designing helps to make a career in garment designing in Industry as well as freelance designing. It's a Basic level course which helps to achieve skills of editing the garment designs, increase creativity & promote designs.

2. COMPETENCY

“Implement the Graphic software for garment designing in a meaningful way to cope up with the competitive nature of market.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				
				Theory		Practical		Total
L	T	P	C	ESE	PT	ESE@ (PR)	PA (TW)	
0	0	4	4	00	00	25@	25	
Duration of the Examination (Hrs)				--	--	4	--	

Legends: **L-** Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-**Practical;

C- Credit; **ESE-** End Examination; **PT-** Progressive Test; **PA-**Progressive Assessment,

OR- Oral Examination, **TW-** Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

1. Explore the ideas for garment designing with the application of different tools of Photo – Shop.
2. Design creatively mood board story board and theme based display, using graphic designing software.
3. Achieve the skill of mixing and editing of photographs for creating the cover pages, advertises, other promotional material.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Photoshop	1a. Identify the use of Photoshop in Garment Designing. 1b. Explain the importance of Photoshop in designing and editing. 1c. Select different menus and sub menus	1.1 Introduction to Photoshop 1.2 Introduction to All Menu & Sub menu

	&property bar.	
Unit– II Intro & use of basic Tools	2a. Identify Tools of Photoshop & know its shortcut keys. 2b. Explain the use of different tools of Photoshop.	2.1 Intro & use of all Tools a) Move tool & Marquee tool & sub tools. b) Magic Wand tool& Crop tool c) Lasso Tool & its sub tools d) Slice tool, Healing Brush Tool. e) Brush tool & sub tools f) Stamp tool & Clone tool g) History Brush Tool & Eraser Tool. h) Paint Bucket tool & its sub tools i) Blur tool , Path Selection tool, Sponge tool & it's sub tools j) Horizontal type tool, Pen tool. k) Rectangle tool, Eye Dropper tool, Hand tool & Zoom tool.
Unit-III Introduction to Working area and editing.	3a. Explain the use of layers, filters. 3b. Identify the effects of different filters& use it for designing.	3.1 Layers: New layer, duplicate, layer properties, Layer style, smart filter. 3.2 layer mask, vector Mask, Smart object, 3D Layer. 3.3 Group layer, ungroup layer, Merge layer Flatten layer. 3.4 Filters, convert for smart filters, extract filter gallery, liquefy pattern makers, vanishing points, 3.5 Artistic ,Blur, Brush strokes, distort, Noise, Pixilated ,sketch ,stylize.

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL

Legends: R = Remembrance; U= Understanding; A= Application and above levels

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	II & III	Intro. To basic tools of Photoshop. Making assignments-min 04 using tools of Photoshop.	16
2	II & III	Creating backdrop for various events. 3) Scanning fabric swatches & applying on apparel with suitable background.	08
3	II & III	Creating Mood board ,Creating a Color board Texture board ,creating a theme based Display	16

4	II & III I	Make over & photos retouching. Designing a cover page for a fashion magazine/educational Institute with mixing different images.	08
5	II & III	Creating Clothing Tags, Labels .	08
6	II & III	Creating an advertisement for a product.(Static webpage, Flyers, Brochures, taglines etc.)	08
TOTAL			64

8. SUGGESTED STUDENTS ACTIVITIES

Following is the list of proposed student activities like.

Prepare E-Folders based on practical performed in laboratory.

Collect fabric swatches of different print and try to apply the same in Photoshop.

Identify customer with his/her profession and design Visiting cards

Design theme based calendars

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

Arrange industrial visits to offset printing units/Advertising agencies.

Motivate students to use internet and collect tutorials of advanced drawing in Photoshop.

Arrange competition on cover page designing.

Show various videos of graphic software use for inspirations.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Photoshop CS6 in simple Steps	Kogent Learning Solutions	Dreamtech Press ISBN-10: 9350045877

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	Photoshop software	Adobe CS4 or latest Version 15 User.
2	Computer system with the configuration required for Photoshop software	Intel processor core i3 or i7 or latest with mother board Intel chipset 41/61/latest with 4 USB, 1 serial port, 1 LPT port, 2GB RAM DDR III, 500 GB Sata Hard disk, 16" or 18.5" LCD/LED monitor, ATX cabinet with SMPS and lock system, DVD writer, Keyboard, USB mouse, 1 Gigabit Network card/ latest configuration
3	Latest version of Photoshop software	-----
4	Scanner	FLAT BED ,4800 DPI, 216 x 311 mm-SCAN SIZE Media types Paper (plain, inkjet, photo, banner), envelopes, labels, cards (index, greeting), Front-panel: Scan (reflective scans from the glass), Scan film, Copy, Scan to PDF

12. LEARNING WEBSITE AND SOFTWARE

<https://www.youtube.com/watch?v=vjzuyaKJyMI>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's) WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Explore the ideas for garment designing with the application of different tools of Photo – Shop.	--	--	3	--	--	--	--	--	--	--	--	--	2
CO2	Design creatively mood board story board and theme based display, using graphic designing software	-	--	3	--	--	--	--	--	--	--	--	--	2
CO3	Achieve the skill of mixing and editing of photographs for creating the cover pages, advertises, other promotional material	--	--	3	--	--	--	--	--	--	--	--	--	2

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	Ms.F.B.Siddiqui	Lecturer DDGM G.P.Abad
2	Ms. J. S. Lakade	Lecturer DDGM G.P.Abad

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Apparel Merchandising (APM)**COURSE CODE:6D304****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	FOURTH

1. RATIONALE

The course appparel merchandizing practices information about the responsibilities of fashion buying and merchandizing. The course stimulates the interest and encourages regarding the profession in order to obtain broader point of view about the effect of fashion on society. It prepares students to enter the retail fashion business with knowledge of environment of fashion and practices of the different levels of the fashion business.

2. COMPETENCY

“Apply the knowledge of fashion business for the role of retail fashion merchandiser.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE@	PA (TW)	
4	0	0	4	80	20	--	--	100
Duration of the Examination (Hrs)				3	1	--	--	

Legends: L- Lecture; T- Tutorial/Teacher Guided Theory Practice; P-Practical;

C- Credit; ESE- End Examination; PT- Progressive Test; PA-Progressive Assessment,

OR-Oral Examination, TW- Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

- 1 Identify the principles of fashion& analyze the environmental influence on fashion.
- 2 Analyze the five stages of fashion cycle with respect to consumer .
- 3 Identify rolesand responsibilities of clothing designer, manufacturer and retailer particularly in fashion.
- 4 Compare the different forms of business &understand export documentation.
- 5 Discuss procedures in fashion buying and role of retail merchandiser.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I The nature of fashion	1a. Differentiate between a)style& fashion. b) style& design. c) classic& fad. 1b. Explain intangibles,principles of fashion.	The nature of fashion 1.1 Classification of fashion (Fad, style, design, classic, taste) 1.2 Misconceptions and myths about fashion 1.3 Principles of fashion

		1.4 Intangibles of fashion. (time, place, acceptance and change)
Unit– II The environment of fashion	2a. Explain market segmentation and sociological characteristics of the class structure. 2b. Discuss the effect of economic factors & technological advances on fashion. 2c. Identify psychological attitudes of the consumers. 2d. Describe effect of wars, disasters & crises on fashion.	The environment of fashion 2.1 The Economic Factors & Technological advances. 2.2 The sociological characteristics of the class structure. 2.3 The psychological attitudes of the consumers. 2.4 Effect of wars and disasters and crises on fashion.
Unit– III The movement of fashion	3a. Identify five phases of fashion cycle. 3b. Distinguish between adaptations & line-for-line copies. 3c. Explain what can disrupt the normal progress of a fashion cycle. 3d. Differentiate between long-run and short-run fashions & give examples of each. 3e. Discuss the factors that accelerate& retard the development of fashion cycles. 3f. Justify how consumer use cycle differs from consumer buying cycle.	The movement of fashion 3.1 The stages of fashion cycle 3.2 Lengths & breaks of fashion cycles 3.3 Long and short run fashion 3.4 Consumer buying and the fashion cycle 3.5 Factors influencing &retarding fashion movement. 3.6 Recurring Fashion. 3.7 Study of consumer groups & motives for consumer buying.
Unit-IV The leaders of fashion	4a. Distinguish between the three types of designers most commonly serving to fashion industry today. 4b. Identify the major sources of inspiration for many fashion designers. Give examples. 4c. Describe three groups of fashion manufactures & retailers. Identify the characteristics of each group. 4d. Explain how valid is the downward-flow-theory of fashion adoption today? Why? 4e. Identify four reasons for which most people follow rather than lead in matters	The leaders of fashion 4.1 Birth of a fashion -The designer'srole -Types of Designer. 4.2 Sources of Design Inspiration. 4.3 Manufacturers role -Types of Manufacturer's 4.4 Retailers role-Types of Retailers 4.5 Theories of fashion adopting and implications for merchandizing 4.6 Downward flow theory Horizontal flow theory. 4.7 Upward flow theory. 4.8 Fashion Leaders and followers.

	relating to fashion. 4f. Prepare a list of practical obstacles act as limitations to fashion designers.	
Unit-V Fashion Merchandising	5a. Explain the principles of fashion merchandising, the levels of merchandising & the role of merchandiser 5b. Identify the steps a buyer follows in fashion merchandising.	Fashion Merchandising 5.1 Principles of Fashion Merchandising. 5.2 Importance of Fashion Merchandising. 5.3 Steps a buyer follows in Fashion Merchandising. 5.4 Practice of Merchandising. 5.5 Wholesale; Retail and Publication level. 5.6 Role of a merchandiser, steps in apparel merchandising.
Unit-VI The business of fashion and marketing	6.1 Identify the four levels of the fashion business, Give one example of each. 6.2 Differentiate auxiliary level from other three levels of business. 6.3 List the role fashion marketers in the markets. 6.4 List marketing strategies used in fashion business. 6.5 State the Role of a Retail Merchandiser including pricing policies. 6.6 Compare between direct & indirect exporting. 6.7 Explain the methods of payment. 6.8 Discuss the major differences between private & publicly owned corporations.	The business of fashion 6.1 Scope of the fashion business and its levels a. Primary level b. Secondary level c. Retail level d. Auxiliary level . 6.2 Forms of business ownership. 6.3 Marketing concept. 6.4 Role of fashion marketers. 6.5 Market segmentation 6.6 Fashion marketing planning (strategies) 6.7 Mass marketing. 6.8 Goals of merchandiser and pricing policies. 6.9 Export Documentation & Methods Of Exporting.-(Direct & Indirect) 6.10 Methods of Payment--Payment in advance. Letter of Credit, against Shipment.

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	The nature of fashion	10	06	04	04	14
II	The environment of fashion	12	04	04	04	12
III	The movement of fashion	10	04	06	06	16
IV	The leaders of fashion	10	04	06	04	14

V	Fashion Merchandising	12	02	06	04	12
VI	The business of fashion and Marketing	10	02	06	04	12
Total		64	22	32	26	80

Legends: R = Remembrance; U= Understanding; A= Application and above levels
(Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/Tutorials	Hours
NIL			

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

1. Visit to any brand fashion store and write the report on how do they maintain the inventory of current trend stock.
2. Finding out by visiting to the fashion store through interviewing – “The roles and responsibilities of merchandiser in fashion store”

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

- Market Survey
- Expert lecture

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Dynamics Of fashion	Elaine Stone Samples	Fairchild publication ISBN-1-56367-151-4
2	Concept to Consumer	Gini Stephens	Prentice ISBN-10:0130806412 ISBN-13:978-0130806413
3	Fashion Business		
4	Fashion buying and merchandizing-	Sidney Packard	Fairchild publication

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	LCD projector	LCD Projector with LCD Panel, Lence, Lamp, ceiling or floor installation & Supplied Accessories

12. LEARNING WEBSITE AND SOFTWARE

https://prezi.com/lvicjmt_o74a/the-fashion-cycle/

<https://prezi.com/knemz8gvs7yi/trickle-up-theory/>

<https://www.boundless.com/business/...business.../types-of-business-ownership-6/>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's) WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Identify the principles of fashion & analyze the environmental influence on fashion.	1	2	--	--	--	--	--	--	--	--	--	--	--
CO2	Analyze the five stages of fashion cycle with respect to consumer	--	1	--	--	2	--	--	--	--	--	--	--	--
CO3	Identify roles and responsibilities of clothing designer, manufacturer and retailer particularly in fashion.	--	3	--	--	1	--	--	--	--	--	--	--	--
CO4	Compare the different forms of business & understand export documentation.	--	2	--	--	--	--	--	--	--	--	--	--	--
CO5	Discuss procedures in fashion buying and role of retail merchandiser.	--	3	--	--	--	--	--	--	--	--	--	--	--

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	M.P. Chavan	Lecturer in DDGM

COURSE TITLE: Advanced Fashion Illustration (AFI)**COURSE CODE:6D403****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	Fourth

1. RATIONALE:

The course provides the visualization of innovative ideas, the concept from fabric to costume & presentation technique to give an accurate impression about an illustrator's mind. It helps to bring out unique characteristics of designing in order to create attractive fashion illustration. It also helps to develop fashion flats which must be performed according to industry standards and fashion industry conventions for product development.

2. COMPETENCY:

“Implement the knowledge of mood board, flats & spec sheet for design process.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE# (PR/OR)	PA (TW)	
1	0	3	4	00	00	50	50	100
Duration of the Examination (Hrs)						04		

Legends: L- Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-**Practical;

C- Credit; **ESE-** End Examination; **PT-** Progressive Test;**PA-**Progressive Assessment, **OR-**Oral Examination, **TW-** Term Work; # External, @ Internal

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

- 1 Apply ideas through different color board, mood board for design process
- 2 Design different garment wears with backdrop.
- 3 Develop different Flats and Spec sheet for garments.
- 4 Read the fashion for given apparel.
- 5 Develop fashion sketches using quick sketching technique

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Study of different wears with	1a Identify required accessories and trimming for given wears. 1b Differentiate between casual and formal wear.	Study of different wears with presentation skill (Backdrop) 1.1 Casual & Formal wear 1.2 Evening & Bridal wear

presentation skill (Backdrop)	1c Describe the features of different mentioned wear. 1d Illustrate different garment wears. 1e Prepare different wears with presentation skill (Backdrop)	1.3 Night & Beach wear 1.4 Ramp wear
Unit– II Visual Design Process.	2a. Identify different garment styles. 2b. Explain the concept of mood Board/concept board/color board. 2c. Describe the steps for Design process.	Visual design process: Concept of mood board. 2.1 Fabric and notion board 2.2 Style summery sheet- Garment features 2.3 Silhouette Concept Board 2.4 Color Story board
Unit– III Flat and Spec	3a. Identify different types of flats. 3b. Describe the detail contain of spec sheet, tech pack 3c. Explain the Collage technique	Flat and Spec 3.1 Introduction to tech pack and Spec pack 3.2 Flat with Fabrication 3.3 Silhouette Development for creative planning 3.4 Collage Technique
Unit– IV Fashion Reading	4a. Identify different Fashion Terms & the concept of Fashion Reading. 4b. State the features of casual and formal wear to prepare fashion reading.	Fashion Reading 4.1 Prepare Fashion Reading Of any one of the following using fashion vocabulary- * Casual Wear * Formal Wear
Unit – V Quick sketching	5a. Describe the drawing technique of stick figure. 5b. Explain the importance of balance line in stick figure.	Quick sketching 5.1 Stick Figure 5.2 Balancing line 5.3 Quick sketching

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	Study of different wears with presentation skill (Backdrop)	4	---	--	--	--
II	Visual Design Process.	3	--	---	---	---
III	Flat and Spec	3	---	----	---	--
IV	Fashion Reading	3	---	--	--	--
V	Quick sketching	3	--	---	--	--
		16	00	00	00	00

Legends: R = Remembrance; U= Understanding; A= Application and above levels (Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	Develop any four wear of following with presentation skill (Backdrop) a)Casual & Formal wear b)Evening & Bridal wear c)Night & Beach wear d)Ramp wear	16
2	II	Visual design process.(for any two wear of unit no 1) a)Concept of mood board. b)Fabric and notion board c)Style summery sheet-Garment features d)Silhouette Concept Board e)Color Story board	12
3	III	Flat and Spec(for any two wear of unit no 1) a)Flat with Fabrication b)Silhouette Development for creative planning c)Collage Technique	08
4	IV	Fashion Reading Prepare Fashion Reading of any one of the following using fashion vocabulary- * Casual Wear * Formal Wear	06
5	V	Quick sketching(at list six figure) Stick Figure Balancing line Quick sketching	06
Total			48

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

- 1 Read fashion magazine to improve fashion vocabulary & collect 50 fashion terms.
- 2 Make a collection of five types of mood board, color board, fabric board using given Website.
- 3 Interact with three boutique owners and list special requirement for rendering figure drawing for Custom base designing .

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

- 1 Arrange visits to Fashion Studio.
- 2 Demonstration
- 3 Field learning experience

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Fashion Design Process Innovation & Practice	Kathryn McKelvey & Janine Munslow	Blackwell
2	Fashion Design Drawing Course	Caroline Tathom, Julian Seaman.	Thames & Hudson
3	Encyclopedia of Fashion Details	Patric John Ireland	B.T. Batsford.
4	Developing a collection	Colin Renfrew, Elinor Renfrew	Ava Publishing S.A Switzerland
5	Research and Design	Simon Seivewright	Ava Publishing S.A Switzerland
6	Drawing for Fashion Designers	Angel Fernandez & Gabriel Martin Roig	Page One Publishing Ltd. Singapore
7	Beyond Design	Sandra J. Keser	Garner publication ISBN-10:1609012267 ISBN-13:978-1609012267

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	Color Medias, Brushes etc. all drawing material	Round & Flat Brushes 0,00 To 12NO, Poster & Pencil Colors 12 Shades
2	Drawing Table/ Board	Ms steel square pipe 16 gauge, stands are power coating painted. Knobs for adjustments, with standard size top.

12. LEARNING WEBSITE AND SOFTWARE

- https://www.moodfabrics.com/?utm_source=bing&utm_medium=cpc&utm_campaign=Branded&utm_term=%2Bmood%20%2BFashion&utm_content=Mood
- https://www.moodfabrics.com/?utm_source=bing&utm_medium=cpc&utm_campaign=Branded&utm_term=%2Bmood%20%2BFashion&utm_content=Mood
- <https://www.leaf.tv/articles/how-to-make-a-fashion-mood-board/>
- http://r.search.yahoo.com/_ylt=AwrTcdkYOx1Zs_gAzhsPxQt.;_ylu=X3oDMTBBya2cwZmh2BGNvbG8DZ3ExBHBvcwM1BHZ0aWQ
- <http://www.howcast.com/videos/501958-what-are-spec-line-sheets-flats-fashion-sketching/>
- <https://za.pinterest.com/mmmmbeti/sketches-flats-technical-specs/>
- <http://fashionista.com/2010/05/required-reading-for-people-who-work-in-fashion-want-to-work-in-fashion-or-simply-love-fashion>
- <https://www.youtube.com/watch?v=qPl6K7iovOM>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's) WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Apply ideas through different color	--	1	3	--	--	--	--	--	--	--	--	2	--

	board, mood board for design process													
CO2	Design different garment wears with backdrop.	--	1	3	--	--	--	--	--	--	--	--	2	--
CO3	Develop different Flats and Spec sheet for garments.	--	2	3	--	--	--	--	--	--	--	--	2	--
CO4	Read the fashion for given apparel.	--	2	3	--	--	--	--	--	--	--	--	2	--
CO5	Develop fashion sketches using quick sketching technique	--	2	3	--	--	--	--	--	--	--	--	2	--

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	Mrs.A.V.Ramaiya	Lecturer in DDGM,G.P.A'Bad
2	Mrs.M.P.Chavan	Lecturer in DDGM,G.P.A'Bad

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Advanced Pattern Construction (APC)**COURSE CODE:6D405****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	Fourth

1. RATIONALE

This course provides the different structural techniques for various, indo western fashion patterns. It adds confidence to use scissors on both paper patterns as well as on cloth also to evaluate fitting appearance of garment. This course develops the skills for garment designing by using dart manipulation technique.

2. COMPETENCY

“Develop basic pattern into fashion pattern for women’s dresses by applying dart manipulation technique.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE# (PR)	PA (TW)	
3	0	6	9	40	10	50	50	150
Duration of the Examination (Hrs)				2	1	6	-	

Legends: L- Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-**Practical;

C- Credit; **ESE-** End Examination; **PT-** Progressive Test;**PA-**Progressive Assessment,

OR-Oral Examination, **TW-** Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

1. Develop smart fit patterns for cowls on bodice, strapless bustier, princess line and sari blouses using dart manipulation techniques.
2. Convert the skirt block into trumpet skirt design.
3. Apply various finishing techniques and sew strapless bustier, sari blouses, trumpet and princess line dress.
4. Create patterns on bodice by applying first principles of dart manipulation.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit-I Introduction to dart manipulation	1a. Explain Dart Manipulation 1b. Describe the necessity of Dart manipulation in Designing 1c. Prepare the Samples of Dart manipulation through slash and spread and pivotal techniques. 1d. Mention the location of Dart manipulation on Bodice 1e. Convert the single dart into two	1.1 Introduction to dart manipulation 1.2 Definition dart manipulation & its importance 1.3 Charting Dart location 1.4 Types of dart manipulation 1.5 Introduction to pivotal transfer technique and slash and spread technique

	<p>dart series at various locations on Bodice.</p>	<p>1.6 Introducing single dart series and double dart series</p> <p>1.7 Single Dart Series Slash and Spread Technique (1:4scale templates)</p> <p>1.8 Center front waist dart, center front neck dart, mid-shoulder dart, French dart, neck dart, shoulder-tip dart.</p> <p>1.9 Two Dart series (Slash and spread technique) (1:4scale templates)</p> <p>waist and side dart, mid-shoulder and waist dart mid-armhole and waist dart</p>
Unit-II Manipulation of dart into design	<p>2a. Develop designs by converting darts into various fashions and by adding fullness with manipulating dart amount in to styles/details.</p> <p>2b. Prepare the sample templates of few designs</p> <p>2c. Compare Non symmetrical dart manipulation with symmetrical dart manipulation</p> <p>2d. Collect few designs of western top developed through dart manipulation techniques.</p> <p>2e. Implement your design patterns in dart manipulation techniques.</p>	<p>Introductions to advance dart manipulation(1:4scale templates)</p> <p>2.1 Parallel dart-parallel French dart, parallel dart at neck, parallel dart-cape effect.</p> <p>2.2 Dart clusters-waist cluster, bust cluster, pleat cluster, shoulder cluster</p> <p>2.3 Graduated & radiating darts</p> <p>2.4 Manipulating dart for following Patterns(1:4scale templates)</p> <p>2.5 Asymmetric darts</p> <p>2.6 Intersecting darts</p> <p>2.7 Shoulder dart</p>
Unit-III Full length Trumpet skirt	<p>3a. Explain draft of Full length Trumpet skirt for size12.</p> <p>3b. Draft 1:4cm scale pattern of Full length Trumpet skirtfor Size 12.</p> <p>3c. Calculate the fabric required for Full length Trumpet skirt for size 12.</p> <p>3d. Prepare a Cost Sheet for above Full length Trumpet skirt garment.</p> <p>3e. Make a flow Chart for stitching a trumpet skirt</p>	<p>3.1 Drafting Instructions and 1:4/1:6 size template [1:4 /1:6 scale lay plan] for Full length Trumpet skirt</p>
Unit-IV Saree Blouse	<p>4a. Explain draft of Plain blouse and Katori blouse .</p> <p>4b. 4b.Draft 1:4cm scale pattern of Plain blouse & Katori blouse</p> <p>4c. Calculate the fabric required</p>	<p>4.1 Drafting Instructions and 1:4/1:6 size template[1:4/1:6 scale lay plan] for Plain blouse</p> <p>Four darts, Back opening, &</p>

	<p>for Plain blouse and katori blouse for particular size.</p> <p>4d. Prepare a Cost Sheet for above garment.</p> <p>4e. Make a flow Chart for stitching Plain blouse</p>	<p>petal sleeve</p> <p>4.2 Drafting Instructions and 1:4/1:6 size template [1:4/1:6 scale lay plan]for Katori Blouse with lining One piece Katori, Front opening & sleeve (any pattern)</p>
Unit-V Princess line frock / Kameez for Adult	<p>5a. Explain draft of Princess line frock / Kameez for Adult.</p> <p>5b. Draft 1:4cm scale pattern of Princess line frock / Kameez for Adult.</p> <p>5c. Calculate the fabric required for Princess line frock / Kameez for Adult.</p> <p>5d. Prepare a Cost Sheet for above garment.</p> <p>5e. Prepare a flow Chart for stitching a Princess line frock / Kameez for Adult</p>	<p>5.1 Drafting Instructions and 1:4/1:6 size template [1:4 /1:6 scale lay plan]for Princess line frock / Kameez for Adult (Adaptation by using basic bodice block)</p> <p>5.2 Design feature: High neck, sleeveless.</p>
Unit-VI Strapless/ Halter top for Adult	<p>6a. Explain draft of Strapless/ Halter top for Adult.</p> <p>6b. Draft 1:4cm scale pattern of Strapless/ Halter top for Adult</p> <p>6c. Calculate the fabric required for Strapless/ Halter top for Adult .</p> <p>6d. Prepare a Cost Sheet for above garment.</p> <p>6e. Prepare a Flow Chart for stitching a Strapless/ Halter top for Adult</p>	<p>5.3 Drafting Instructions and 1:4 /1:6 size template[1:4 /1:6 scale lay plan] for Strapless/ Halter top for Adult (Adaptation by using basic bodice block)</p>
Unit-VII Cowl top for Adult	<p>7a. Explain draft of Cowl top for Adult .</p> <p>7b. Draft 1:4cm scale pattern of Cowl top for Adult .</p> <p>7c. Calculate the fabric required for Cowl top for Adult .</p> <p>7d. Prepare a Cost Sheet for above garment.</p> <p>7e. Prepare a Flow Chart for stitching a Cowl top for Adult</p>	<p>6.1 Drafting Instructions and 1:4/1:6 size template for Cowl top for Adult(Adaptation by using basic bodice block)1:4 scale lay plan</p>

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	Introduction to dart manipulation	08	02	00	02	04
II	Manipulation of Dart into design	10	00	02	04	06
III	Full length Trumpet skirt	06	00	02	04	06
IV	Saree blouse	06	02	02	04	08
V	Princess line frock / Kameez for Adult	06	02	04	00	06
VI	Strapless/ Halter top for Adult	06	02	02	00	04
VII	Cowl top for Adult	06	0	04	02	06
Total		48	08	16	16	40

Legends: R = Remembrance; U= Understanding; A= Application and above levels
(Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	Single dart and two dart series dart manipulation Full size paper pattern	06
2	I	Pivotal transfer technique for two dart and single dart series any four pattern full size	04
3	II	Converting patterns into design each (mentioned in contents) in small size.	06
4	II	Converting patterns into design each (mentioned in contents) in small full size (Each pattern at least one example	06
5	II	Developing new dart design pattern (Any three pattern full size	10
6	III	Trumpet skirt (Full size paper pattern and sewing the pattern with suitable finishing technique)	12
7	IV	Plain blouse(Full size paper pattern and sewing the pattern with suitable finishing technique)	08
8	IV	Katori Blouse with lining(Full size paper pattern and sewing the pattern with suitable finishing technique)	08
9	V	Princess line frock / Kameez for Adult (Full size paper pattern and sewing the pattern with suitable finishing technique)	12
10	VI	Strapless/ Halter top for Adult (Full size paper pattern and sewing the pattern with suitable finishing technique)	12
11	VI	Cowl top for Adult (Full size paper cutting and	12

		sewing the pattern with suitable finishing technique)	
TOTAL			96

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

1. Collect five pictures of Trumpet skirt, Plain and katori blouse, Strapless/ Halter top, cowl top & make a scratch book.
2. Collect different types of fabric Swatches according to different textures, print, cost suitable for the garments studying in this course.
3. Market Survey to study Garments designed by local boutiques.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

- 1 Demonstration method
- 2 Guided industrial visits.
- 3 Expert lecturer/workshop
- 4 Mini Project.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Fashion Production Term	Debbie Ann Gioello, Beverly Berk	Fairchild Pubns (1979) ISBN 10: 0870052004
2	Metric pattern cutting for women's	Winifred Aldrich	ISBN--10: 1405102780
3	Metric pattern cutting for Children's	Winifred Aldrich	Om Books (2007) ISBN-10: 0632059788
4	Pattern making	Helen Joseph Arm Strong	ISBN-10: 0321034236
5	Complete guide to sewing	Reader's Digest	Readers digest.ISBN 10: 0762104201
6	Simplicity	Christine Swirnoff	ISBN-7394-2100-X
7	Liberty	Dilip Karampurikar	Liberty Publication, ASIN: B00SIZYREO
8	Art of sewing-	Anna Jacob Thomas	ISBN-81-85944-32-6

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	Dress form, Drawing sheets, Drafting book, 1:4 scale triangle, French curve,	Women standard size dress forms.
2	Brown paper, Measuring tape, Tailor's chalk, scale	Stationary equipments/ pattern making tools
3	Cloth, Measuring tape, Tailor's chalk, scale	Stationary material as per requirements
4	Juki machine, bobbin, bobbin case, Scissor, machine needle, matching threads.	SNLM-Medium weight application, 5500 SPM, 5mm stitch length, by knee pressure foot- 13mm, Scissor-Sharp blades and well proportioned hardness Corrosion and abrasion resistant Sizes: 9/10/11/12-inch Length: 240mm, 260mm, 280mm, 300mm, 8 inch stainless steel blades for scallop shear,

12. LEARNING WEBSITE AND SOFTWARE

- 1 <https://youtu.be/JcaAzWLAuFw>
- 2 <https://youtu.be/WFh8Tpwm7DM>
- 3 <https://youtu.be/FR5Llw0JWIQ>
- 4 <https://youtu.be/j8V-XNYRNfQ>
- 5 https://youtu.be/YUNSn_YFgCo
- 6 https://youtu.be/jfNUb59_00
- 7 <https://youtu.be/DD6ppbpIGUM>
- 8 https://youtu.be/hzjIK_P-2Fo
- 9 <https://youtu.be/WLAKa4iXeHk>
- 10 <https://youtu.be/5rB2vXVqMHE>
- 11 <https://youtu.be/u6suL3XRWI0>
- 12 <https://youtu.be/7IBzRRfipzk>
- 13 <https://youtu.be/sWSfeoO4rvo>
- 14 <https://youtu.be/RPJPbvXomBY>
- 15 <https://youtu.be/rxW-FNuyMJU>
- 16 <https://youtu.be/t41YHt7Ut20>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's) WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Develop smart fit patterns for cowls on bodice, strapless bustier, princess line and sari blouses using dart manipulation techniques.	1	2	--	3	--	--	--	--	--	--	--	--	--

CO2	Convert the skirt block into trumpet skirt design.	2	3	--	2	--	--	--	--	--	--	--	2	--
CO3	Apply various finishing techniques and sew strapless bustier, sari blouses, trumpet and princess line dress.	1	2	2	3	--	--	--	--	--	--	--	2	--
CO4	Create patterns on bodice by applying first principles of dart manipulation technique	1	3	2	3	--	--	--	--	--	--	--	2	--

Course Curriculum Design Committee

Sr. No. Name of the Faculty Designation of the Institute
members

1 **Ms. N. R. Biyani** **Lecturer in DDGM.**

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Textile Processes (TPR)**COURSE CODE:6D408****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	Fourth

1. RATIONALE

Course describes the integrated construction of fiber to fabric through various ways as weaving, knitting and felting. This course explores the knowledge of care and handling of special fabrics such as silks, woolens and synthetics. This course introduce students with various complementary finishes applied to fabric and durability of material which is depend on the kind of fibers , type of weave and the nature of the finishes used.

2. COMPETENCY

“Identify the durability, serviceability and aesthetic values of different fabrics.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE# (PR/OR)	PA (TW)	
3	0	3	4	40	10	50#	50	150
Duration of the Examination (Hrs)				2	1	4	-	

Legends: L- Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-**Practical;

C- Credit; **ESE-** End Examination; **PT-** Progressive Test; **PA-**Progressive Assessment, **OR-** Oral Examination, **TW-** Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

- 1 Identify the principle parts and operation of handloom.
- 2 Analyze the different construction methods of fabric.
- 3 Identify the treatment applied to improve texture, performance and serviceability of fabric.
- 4 Distinguish the dyes required for dyeing and printing in fabric decoration .
- 5 Analyze the care labels attached to the various garment with respect to kind of fabric used.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit– I Introduction to Hand loom	1a. Draw different parts of hand loom. 1b. Mention principal operation of weaving. 1c. Identify parts of loom with their functions. 1d. Name different power loom. 1e. Compare between Handloom & Power loom.	1.1 Origin of loom. 1.2 Principle parts & operation(with Sketch) 1.3 Introduction to different power looms.
Unit– II Fabric construction	2a. Identify weaving, Knitting, Felting and braiding. 2b. Illustrate different types of weave. 2c. Differentiate between plain, twill, satin, sateen weave. 2d. Explain importance of width, balance and count of cloth.	2.1 Definition of weaving, knitting and felting, Braiding 2.2 Description about weaves used in fabric construction, plain, twill, satin, sateen, honey comb, Dobby weave. 2.3 Width, balance and count of cloth
Unit– III Fabric Treatment Terminology:	3a. Name different fabric treatment terms. 3b. Identify the treatment used to improve texture of fabric. 3c. List preparatory finishing processes & performance finishes. 3d. Explain the importance of fabric treatment.	3.1 Singeing & Bleaching 3.2 Mercerizing ,ammoniating, Shrinking 3.3 Temporary stiffening, permanent stiffening. Weighting/Degumming. Calendaring, Embossing. Napping, Moring. 3.4 Wrinkle-resistant finish, Water repellency, water proofing. Absorbency finish, flame retardants, moth proof.
Unit– IV Classification of Dyes and Types of fabric Printing	4a. Classify natural and synthetic dyes. 4b. Identify the importance of dyes as per fabric. 4c. List out different methods of printing. 4d. Distinguish between direct printing and resist printing. 4e. Compare natural dyes and	4.1 Natural Dyes 4.2 Synthetic Dyes. 4.3 Pigments dyes. 4.4 Dyes used for printing. 4.5 Method of Printing. 4.6 Intro. Of Direct printing, Roller printing Discharge printing, Resist printing, Duplex printing. Screen

	synthetic dyes. 4f. Explain characteristics of roller printing?	printing, Types of resist printings.
Unit– V Laundering & Storing of Clothes	5a. Define laundering and dry cleaning. 5b. List out different stages of laundering. 5c. Identify different care labels. 5d. Prepare a chart for removing stains as per fabric type.	5.1 Definition of Laundering & Dry cleaning. 5.2 Laundering equipments, methods of laundering. 5.3 Removing stains according to type of fabric 5.4 Laundering & storing of - Cotton silks, woolens, velvet, georgette, crepe, chiffon. Knitted stretch, leather. 5.5 Introduction to Different care labels.

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	Introduction to Hand loom	10	03	03	00	06
II	Fabric construction	14	02	04	08	14
III	Fabric Treatment Terminology	04	04	00	00	04
IV	Classification of Dyes and Types of Fabric Printing	10	02	04	04	10
V	Laundering & Storing of Clothes	10	00	04	02	06
Total		48	11	15	14	40

Legends: R = Remembrance; U= Understanding; A= Application and above levels
(Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	IV	Prepare Samples of-Block printing Types of blocks, procedure of preparing dyes & Method of printing.	10
2	IV	Prepare Samples of-Direct Printing & its types Stencil Printing-(single, double, triple color)	14

3	IV	Prepare Samples of-Resist Printing & its types Tie & Dye Preparation of dyeing Procedure of preparing dyes, Different method of tying, Dyeing (single, double, triple color)	12
4	IV	Prepare the Hand book by collecting Samples with all the specifications of the fabric swatch.	06
	IV	Demonstration of-Batik Materials required Preparation before dying, procedure of preparing dyes. (Single, double, triple color)	06
Total			48

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

- 1 Visit to textile mill
- 2 Analyze the specifications, costs, quality and availability for various types of fabrics in local market.
- 3 Make Collection of different care labels attached to the garments/fabrics.
- 4 Prepare different weaving samples by using silk ribbons.
- 5 Prepare one article by using one of the above techniques.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

- 1 Demonstration method
- 2 Arrange guided industrial visits to printing units and watch printing techniques.
- 3 Motivate students to use internet and collect name, addresses, catalogues, rates, specifications of manufacturers of printing machines and equipment.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Textile-Fiber to Fabric	Bernard P.Corbman	Mc-Graw-Hill education ISBN10:0070662363
2	Fundamental of textiles & their care (fifth edition)	Susheeladantyagi	Orient Black swan ISBN10-8125010270
3	Clothing care & Repair	Cydecosse Incorporated	Mine tonkaminn ISBN-0394544900
4	Clothing Decision	Anita	ISBN1:0026680106

		WebbeLupo& Rosalyn .M.Lester	
5	House Hold Textiles & Laundering	DurgaDeulkar	Atmaram&sons's ISBN10:8170437865
6	Tie and dye and batik	Dougotten	Hot off ISBN10:1562311379

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	Wooden blocks, Metal blocks, fabric colors.	Wooden & Bronze printing blocks for borders& motives(floral &founa prints),Tripple color printing blocks
2	Big vessels for dyeing, gas cylinder, shegdi, Wooden spoon. fabric dyes	Copper botton vessels (5& 10Litrs),wooden long spoon,dyes of various colors(red,blue,yellow,green etc.), Portable 5kg gas cylinder with attach burner with carring handles & automatic adjustment (in built lighter)
3	Cutter, stencil sheets. Fabric colors	Stationary material as per requirement

12. LEARNING WEBSITE AND SOFTWARE

- 1 [https://en.wikipedia.org/wiki/Finishing_\(textiles\)](https://en.wikipedia.org/wiki/Finishing_(textiles))
- 2 textilelearner.blogspot.com/.../description-of-textile-finishing
- 3 <https://en.wikipedia.org/wiki/Loom>
- 4 <https://textInfo.wordpress.com/2011/12/04/classification-of-dyes>
- 5 textilelearner.blogspot.com/2012/07/what-is-fabric-warp-weft-fabric
- 6 https://en.wikipedia.org/wiki/Woodblock_printing
- 7 <https://en.wikipedia.org/wiki/Tie-dye>
- 8 <https://www.youtube.com/watch?v=SKTSCewtiAU>
- 9 <https://www.youtube.com/watch?v=5n9NOPWcWFU>
- 10 <https://www.youtube.com/watch?v=6-HTv0gR5Ns>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's)WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Identify the principle parts and operation of	3	--	--	--	--	--	--	--	--	--	--	--	--

	handloom.													
CO2	Analyze the different construction methods of fabric.	2	2	--	--	--	--	--	--	--	--	--	--	--
CO3	Identify the treatment applied to improve texture, performance and serviceability of fabric.	1	--	--	--	--	--	--	--	--	--	--	--	--
CO4	Distinguish the dyes required for dyeing and printing in fabric decoration	1	1	3	3	3	--	--	--	--	--	--	--	--
CO5	Analyze the care labels attached to the various garment with respect to kind of fabric used.	2	1	--	--	--	--	--	--	--	--	--	--	--

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	F.B. Siddiqui	Lecturer in DDGM
2	A.L. Rode	Lecturer in DDGM

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE- ENTREPRENEURSHIP DEVELOPMENT

COURSE CODE 6G306

PROGRAMME & SEMESTER

Diploma Programme in which this course is offered	Semester in which offered
All Programs	Third

1. RATIONALE

In the post liberalization era significant growth in industrial sector has led to creation of huge opportunities in manufacturing and service sector. In such a scenario especially in Indian context it has led to innumerable opportunities for first generation entrepreneurs on a large scale. Therefore it is expected that engineers need to be developed for manufacturing, service sector and entrepreneurship development. This course, which represents Allied level of courses, aims at imparting entrepreneurial skills amongst engineers of all disciplines.

2. COMPETENCY

At the end of studying this course students will be able to

“Design a project proposal for an enterprise”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme (Marks)				
				Theory		Practical		Total
L	T	P	C	ESE	PT	ESE@ (PR/OR)	PA (TW)	50
2	-	2	4	--	--	--	50	
Duration of the Examination (Hrs)				--	--	--	--	

Legends : **L**-Lecture; **T**-Tutorial/Teacher Guided Theory Practice ; **P**- Practical; **C**- Credits; **ESE**- End Semester Examination; **PT** – **Progressive Test**, **PA**- Progressive Assessment, **OR** –Oral Examination, **TW** - Term Work, **#** External, **@** Internal, **~** Online examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to: -.

- 1 Apply business/enterprise principals and characteristics.
- 2 Design information and supporting system related to start a business.
- 3 Estimate and record financial requirements.
- 4 Develop detailed project report.
- 5 Use various software related to business.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (in cognitive domain)	Topics and Sub-topics
Unit –I Basic Concepts of Entrepreneur	1a. Describe Entrepreneur. 1b. Identify Risk Use Creative skills 1c. Describe Risk Situation. 1d. Generate Business Idea Methods and techniques to generate Business. 1e. Plan for Transforming Ideas in to opportunities. 1f. Carryout of SWOT Analysis.	Basic Concepts of Entrepreneur 1.1. Concept, Classification & Characteristics of Entrepreneur. Creativity and Risk taking, Concept of Creativity & Qualities of Creative person. Risk Situation, Types of risk & risk takers. 1.2 Business Idea Methods and techniques to generate business idea. 1.3 Transforming Ideas in to opportunities- transformation involves Assessment of idea & Feasibility of opportunity, 1.4 SWOT Analysis.

Unit– II Information And Support Systems	2a. Use Information data for business. 2b. Information related to support system. 2c. Lay down the Procedures and related to Information. 2d. Identify Govt.Support Systems related to EDP. 2e. Explore subsidies to entrepreneur.	2.1 Information Needed and Their Sources. Information related to project, Information related to support system, Information related to Procedures and formalities. 2.2 Support Systems: <ul style="list-style-type: none"> • Small Scale Business Planning, Requirements. • Govt. & Institutional Agencies, Formalities • Statutory Requirements and Agencies. Government Support and subsidies to entrepreneur.
Unit– III Market Assessment	3a Undertake Market survey. 3b Use Marketing skills and Survey. 3c Assess market for business opportunities.	Market Assessment 3.1 Marketing -Concept and Importance 3.2 Market Identification, Survey Key components. (Market Segmentation) 3.3 Market Assessment.
Unit– IV Business Finance & Accounts	4a. Determine product cost. 4b. Analyze for breakeven of business proposal. 4c. Maintain Business finance and accounts.	Business Finance & Accounts 4.1 Business Finance <ul style="list-style-type: none"> • Cost of Project • Sources of Finance • Assessment of working capital • Product costing • Profitability • Break Even Analysis • Financial Ratios and Significance 4.2 Business Account Accounting Principles, Methodology <ul style="list-style-type: none"> • Book Keeping • Financial Statements • Concept of Audit, • Trial Balance

		Balance Sheet
Unit - V Business Plan & Project Report	5a. Prepare Business proposal. 5b. Undertake project appraisal. 5c. Undertake cost benefit analysis. Cost benefits analysis.	Business Plan & Project Report 5.1 Business plan steps involved from concept to commissioning Activity Recourses, Time, Cost 5.2 Project Report 1) Meaning and Importance 2) Components of project report/profile(Give list) 5.3 Project Appraisal 1) Meaning and definition 2) Technical, Economic feasibility 3) Cost benefit Analysis.
Unit – VI Enterprise Management And Modern Trends	6a. Manage resources. 6b. Prepare plan for productivity. 6c. Assure Quality. 6d. Explore Govt facilities (Industrial zones and SEZ.) 6e. Explore E-Commerce avenues for business.	Enterprise Management And Modern Trends 6.1 Enterprise Management: - 1) Essential roles of Entrepreneur in managing enterprise 2) Product Cycle: Concept And Importance 3) Probable Causes Of Sickness 4) Quality Assurance, Importance of Quality, Importance of testing 5) Industrial zones and SEZ. 6.2 E-Commerce, Concept and process. 6.3 Global Entrepreneur: role and opportunities.
Unit – VII INTRODUCTION	7a. Use business related software's. 7b. Survey Software's used in Mall, industries. 7c. Identify Software's	INTRODUCTION BUSINESS RELATED SOFTWARES

BUSSINESS RELATED SOFTWARES	used For accounting.	7.1 Software's used in Mall. 7.2 Software's used in Medical shops. 7.3 Software's used in industrial stores such as SAP, ERP. 7.4 Software's used for accounting such as FICO, FINNACLE
--	----------------------	--

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No.	Unit Title	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	Total Marks
I	Basic Concepts of Entrepreneur.	04	NA	NA	NA	NA
II	Information And Support Systems	05	NA	NA	NA	NA
III	Market Assessment	05	NA	NA	NA	NA
IV	Business Finance & Accounts	05	NA	NA	NA	NA
V	Business Plan & Project Report	05	NA	NA	NA	NA
VI	Enterprise Management And Modern Trends	04	NA	NA	NA	NA
VII	Introduction business related software's	04	NA	NA	NA	NA
	Total	32	NA	NA	NA	NA

Legends: R – Remember, U – Understand, A – Apply and above (Bloom's revised Taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/ TUTORIALS

S. No.	Unit No.	Practical Exercises (Outcomes in Psychomotor Domain)	Approx. Hrs. required
--------	----------	--	------------------------------

1	I	Literature survey of Financial Banks for Industries– MSFC/IDBI/MSSIDC/CIDBI/MSME/DIC/ ROLE OF DIFFERENT COMMERCIAL BANKS etc.	04
2	II	Administration of readymade tools like questionnaires, opinionative, Interview schedule for product identification purpose (decision making process)	04
3	III	Development of “Business Ideas”. Take any product and develop the business idea for it.	04
4	IV	Visit to MCED/MITCON- going through the product related library.	04
5	VI	Preparation of Preliminary / Detailed project report in the formats recommended by MCED/MITCON Prepare project report and study its feasibility.	04
6	VI	At least one case study of successful entrepreneur.	04
7	---	Assess yourself-are you an entrepreneur?	04
Total			28

8. SUGGESTED STUDENTS ACTIVITIES

1. Prepare journals based on assignments.
2. Carry out Literature survey of Financial Banks for Industries.
3. Analyze the specifications, costs, quality and availability for various types of engineering components and find the business opportunity for it.
4. Interact with supplier/trader and discuss about business opportunities available in market.
5. Designing software for requirements to start business or similar type of issues. .
6. preparing project report for any product to be manufactured.
7. Search online PPT's, PDF's, video's on the design and software's for business.

9. SUGGESTED SPECIFIC INSTRUCTIONAL STRATERGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

1. Group discussion among students.
2. Arrange visits to industries and show various industrial jobs.

3. Motivate students to use internet and collect name, addresses, catalogues, rates, specifications of institutes and industries working in the area of business promotions.
4. Arrange expert lecture on various opportunities in business.

10. SUGGESTED LEARNING RESOURCE

Sr.No.	Title of Book	Author	Publication
1	Entrepreneurship Development	----	NITTTR, Bhopal
2	The Seven Business Crisis & How to Beat them	V.G.Patel	S.Chand and Co. New Delhi
3	A handbook of New Entrepreneurs	P.C.Jain	,Dhanpat Rai and Sons
4	Entrepreneurship development	E.Gorden, K. Natrajan	Charotar Publication House
5	New Initiatives in Entrepreneurship Education And training	Gautam Jain, Debmuni Gupta	Tata Mc- Graw Hill
6	Entrepreneurship Theory and Practice	J.S.Saini, B.S.Rathore	Tata Mc- Graw Hill
7	Entrepreneurship Development and management	A.K.Singh	Laxmi Publications
8	The Beer mat Entrepreneur	South on D F	Pearson Education limited

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Computers for Practical's with internet facility
1. Software's used in Mall.
2. Software's used in Medical shops.
3. Software's used in industrial stores such as SAP, ERP.
4. Software's used for accounting such as FICO, FINNACLE.

12. LEARNING WEBSITE & SOFTWARE

- i. <http://www.product-list.php>
- ii. <http://www.SAP.com/products/faro-software>
- iii. <http://www.ERP.com>
- iv. <http://www.fico.com>
- v. <http://finnacle.com>
- vi. Visit www.ediindia.org.
- vii. <http://www.project-reports.com>

13. MAPPING OF PROGRAMME OUTCOMES (POs) AND PROGRAMME SPECIFIC OUTCOMES (PSOs) WITH COURSE OUTCOMES (COs)

CO. NO.	Course Outcome	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P S O 1	P S O 2	No. of hours allocated in curriculum
CO 1	Apply business/enterprise principals and characteristics.	3	3					2		3		2	6
CO 2	Design information and supporting system related to start a business.	3	3					3		3			8
CO 3	Estimate and record financial requirements.	3	3					3		3		2	6
CO 4	Develop detailed project report.	3	3							3	2		6
CO 5	Use various software related to business.	3	3							3	3		6

Course Curriculum Design Committee

Sr Name of the faculty members
No

Designation and Institute

1 Prof. A. W. Nemade

Lecturer in Mechanical Engineering, Govt.
Polytechnic, Aurangabad

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Apparel Construction Specialization Level-I (ACS-I)**COURSE CODE:6D413****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	Fourth

1. RATIONALE

This course explore students to design, draft, cut and make garments for various client profile. The course is focused on the need based garments like salwar ,kameez, kurti, chudidar and its variations considering current market trend to elevate specialisation skills. This practice boosts to build confidence and develop entrepreneur oriented abilities.

2. COMPETENCY

“Apply the salwarkameez pattern making abilities for mixed client profiles and develop entrepreneurial qualities.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE@ (PR)	PA (TW)	
0	0	4	4	0	0	50	50	100
Duration of the Examination (Hrs)				--	--	6	--	

Legends: L- Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-**Practical;

C- Credit; **ESE-** End Examination; **PT-** Progressive Test; **PA-**Progressive Assessment, **OR-** Oral Examination, **TW-** Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

- 1 Analyze the current market trend in fabric sourcing and style line implementation for designing garments of customer.
- 2 Draft paper patterns step by step with the selection of appropriate style, the choice of flattering fabric & then construct the garment.
- 3 Prepare estimation of cost sheet and price evaluation with profit of designer.

5. DETAILED COURSE CONTENTS

NOTE: Use of basic block set of standard size is permissible for the practical exams.
(Basic set includes Bodice block, Skirt block & sleeve block only.)

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Design, Cut and Make	1a. Explain the current trends in salwarkameez designs and fabric resources. 1b. Describe the various client profile With their physique structure and working status. 1c. Draft for various figure challenges. 1d. Prepare the cost sheet as per design and estimated budget. 1e. Construct the designed patterns 1f. Alter the pattern to get good / smart fit. 1g. Evaluate the price as per design considering the profit of the designer as well as the budget of the client. 1h. Maintain the record of work process.	Design Cut and Make: 1.1 Search a Client. 1.2 Design a dress considering client profile and budget accordingly (Salwar, kameez/ chudidar , kurti/ anarkali/ palazzo/ high neck/ double breasted top/ non-symmetric/kalidarkurti, and dresses with latest current trends in fabric, in style line, indo-western fusion etc.) 1.3 Prepare cost sheet. 1.4 Report to the client and approve the design 1.5 Draft , cut , make and finish the designed garment. 1.6 Trial of the garment. 1.7 Alterations if required. 1.8 Feedback of client. NOTE: At least handle five clients for any five above mentioned/ current trend garments in various sizes with process mentioned above.

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
NA						

Legends: R = Remembrance; U= Understanding; A= Application and above levels
 (Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	Market survey to know current fashion trends and fabric availability for stimulating designing factor.	08
2	I	Design from mentioned garments according to client	10

		profile	
3	I	Prepare Cost sheet and approval of design from client	04
4	I	Draft, Cut, make and finish the garments.	28
5	I	Alterations to maintain standard fit.	04
6	I	Record keeping through project book.	10
TOTAL			64

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

- 1 Collect different types of fabric Swatches according to different textures, print, cost etc.
- 2 Market Survey to study Garments used by local boutiques.
- 3 Prepare journals based on practical performed in laboratory. (Small scale details and full size paper patterns.)
- 4 Collect pictures of client along with dress designed by students.
- 5 Record keeping for receipts of cash.
- 6 Collecting Feedback form from client

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

1. ICT learning
2. Market survey
3. Industrial and field visit.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Metric pattern cutting for women's	Winifred Aldrich	Blackwell science ISBN 10 : 1405102780
2	Metric pattern cutting for children	Winifred Aldrich	Blackwell science ISBN 10 : 140518292X
3	Lingerie wear	Ann Hagar	ISBN 13 :978-1405118583
4	Drafting patterns	Natalie Bray	ISBN13 :978-0632065011
5	Pattern Making	Armstrong	ISBN 13:978-0060403324
6	Art Of Sewing	Annna Jacob Thomas	Ubs Publisher & distributors Ltd. ISBN:8185944326
7	Salwarkameez pattern making	DilipKarampuri	Liberty Publication; First edition ASIN: B00SIZY9JW

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	OHP Projector, Visualizer, Internet	Kid's, Women standard size dress forms.
2	Brown paper, Tailors chalk, measuring tape, scissors.	Stationary, equipments/ pattern making tools
3	Cloth, matching thread, juki machine press, hand needles, machine needles,	SNLM-Medium weight application, 5500 SPM, 5mm stitch length, by kneepressure foot-13mm,

12. LEARNING WEBSITE AND SOFTWARE

- <https://www.youtube.com/watch?v=SdKXRaPpjkA>
- <https://textileapex.blogspot.com/.../fabric-spreading-objects-requirements...>
- www.textilestudent.com/discussions-of-the-methods-of-fabric-spreading/
- <http://she-styles.blogspot.in/2013/08/different-types-of-salwar-dhoti-salwar.html>
- <http://indusladies.com/community/threads/different-versions-types-of-salwar-designs.145918/>
- <http://she9.blogspot.in/2010/02/latest-salwar-styles-trend-new-shalwar.html>
- <https://in.pinterest.com/thefivecseh/sewing-culottes/>
- <https://www.youtube.com/watch?v=uxdfgrSviWE>
- <https://www.youtube.com/watch?v=4Vgm9FHmr5U>
- <http://www.govideo.site/search/dress%20cating>
- <https://www.youtube.com/watch?v=RtoL0mhycu8>
- https://www.youtube.com/watch?v=_VHOI...
- <https://www.youtube.com/watch?v=rap3dybxQ-k>
- <https://www.youtube.com/watch?v=kWMDpERyiYk>
- https://www.google.co.in/search?biw=1044&bhttps://www.google.co.in/search?biw=1044&bih=732&q=how+to+stitch+a+frock+at+home&s=X&ved=0ahUKEwiukcqn4LjOAhUEv48KHVjRC5UQ1QIIgAEoBghttps://www.youtube.com/watch?v=_VHOI

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's) WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Analyze the current market trend in fabric sourcing and style line implementation for designing garments of customer.	-	1	-	-	2	-	-	1	-	-	--	1	-
CO2	Draft paper patterns step by step with the selection of	-	2	3	3	1	-	-	-	-	-	1	3	-

	appropriate style, the choice of flattering fabric & then construct the garment.													
CO3	Prepare estimation of cost sheet and price evaluation with profit of designer.	-	1	2	-	-	-	-	1	1	2	-	2	-

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	P.J. Lanjewar	Lecturer in DDGM
2	N.R. Biyani	Lecturer in DDGM

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Value Addition Specialization Level-I (VAS-I)**COURSE CODE:6D414****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	Fourth

1. RATIONALE

Fashion, has played a major role in bringing the art to limelight & ultimately has made the art live.

Trends are strongly influenced by social-cultural changes, & artistic movements

In terms of fashion, the above ideas lead to new forms of inspirations and concepts, giving a designer, collection idea.

This course focuses on the development of these art forms and their impact on the fashion industry.

2. COMPETENCY

“Implement the knowledge of Indian folk art in garment design process.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE@ (PR)	PA (TW)	100
0	0	4	4	00	00	50@	50	
Duration of the Examination (Hrs)				--	--	4	--	

Legends: L- Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-**Practical;

C- Credit; **ESE-** End Examination; **PT-** Progressive Test; **PA-**Progressive Assessment,

OR- Oral Examination, **TW-** Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

After studying this course students will able to :

- 1 Classify the Indian folk art and their attributes and apply them on apparel.
- 2 Apply harmony and uniformity to the collection by using designs of folk art.
- 3 Design the accessories using the themes of Folk art.
- 4 Design and apply the contemporary motifs of folk art as per designs.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Warli	1a Identify the elements of warli art 1b Explain the History & Evolution of Warli art	1.1 History and evolution of Warli 1.2 Symbolism and themes of Warli

	1c Explain different festivals and themes of the art. 1d Apply the art innovatively for designing the garment collection.	1.3 Characteristic of Warli & changes as per festivals.
Unit –II Kalamkari	2.a State the features of Kalamkari 2.b Use the Kalamkari Styles as per Design requirement. 2.c Illustrate Basic shapes used for Kalamkari borders . 2.d Follow the process of making a fabric for Kalamkari and using the kalam for painting..	2.1 History and features of 2.2 Kalamkari 2.3 Styles of Kalamkari. 2.4 Process of fabric preparation 2.5 and color patterns of 2.6 Kalamkari Themes used in Kalamkari
Unit –III Madhubani	3.a State the different themes of Madhubani painting. 3.b State the evolution of Mithila Painting 3.c Specify the themes with motifs and color combinations.s 3.d Differentiate between the styles of mithila painting.	3.1 History and evolution of the art. 3.2 Themes of mithila painting. 3.3 Attributes and styles of mithila painting. 3.4 Symbolism of mithila painting.
Unit –IV Pata	4a. State the process of making fabric for Pata painting. 4b. Explain the evolution of Pata painting & its History. 4c. Differentiate the color schemes used in Pata painting according to themes.	4.1 History of the art. 4.2 Classification of Orissa painting 4.3 Method of making the fabric for Pata 4.4 Themes and color schemes of pata painting. 4.5 Attributes and styles of pata painting.
Unit –V Phad	5a. What are Ballads. 5b. State the purpose of making Scroll painting. 5c. Name the different legends of Phad painting.	5.1 Introduction to Scroll/painting Ballads.. 5.2 Method of Working the Scroll /Phad Painting. 5.3 Study the life of different rajput Warriors 5.4 Styles of the rajput paintings.

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL

Legends: R = Remembrance; U= Understanding; A= Application and above levels

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	Practicing the Basic Shapes used in the Art. Project on applying the art Innovatively on garments. Note:- application of art on material & readymade garments.	10
2	II	Performing the art on the trimmings and garment elements using traditional or contemporary motifs of Kalamkari.	12
3	III	Garment Accessory designing with the art inspiration of Madhubani.	12
4	IV	Designing the home accessories with art application of Pata.	14
5	V	Making a collection of garments , home or personal accessories using the art inspiration of Phad.-	16
TOTAL			64

8. SUGGESTED STUDENTS ACTIVITIES

Following is the list of proposed student activities like.

1. Make a collection of designs of each folk art and promote it taking custom orders.
2. Illustrate the basic elements of each art.
3. Study the fashion designers using art inspirations.
4. Search the art applications on garments, accessories, home furnishings and make a collection..

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

1. Arrange visits to different art museums..
2. Visit outlets of local artist practicing the artwork.
3. Arrange competition on designing using the artwork as inspiration.
4. Window shopping for observing the art inspirations on designs..
5. Make a collection of designs of each folk art and promote it through exhibitions

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Madhubani Art	BhartiDayal	Niyogi Books 9385285084
2	Indian Folk & Tribal Paintings	CharuSmita Gupta	English Edition Publishers and Distributors 817436465X
3	Kalamkari	K Prakash	English Edition Publishers and Distributors 8187853646
4	History Of Art of Orissa	Akhayakumarmishra	aayu publications 9385161032
5	Warli Painting	Amrita Gupta	CreateSpace Independent Publishing Platform 1535285559

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	Computer system with internet.	Intel processor core i3 or i7 or latest with mother board Intel chipset 41/61/latest with 4 USB,1 serial port, 1 LPT port,2GB RAM DDR III,500 GB Sata Hard disk, 16" or 18.5" LCD/LED monitor, ATX cabinet with SMPS and lock system, DVD writer, Keyboard, USB mouse,1 Gigabit Network card/ latest configuration
2	Color printer .	5.5 ppm (color), Duplex printing-manual supported ,upto 1000 pages monthly, thermal inkjet technology.
3	Mini Drafting Units for sketching.	Ms steel square pipe 16 gauge, stands are power coating painted. Knobs for adjustments, with standard size top.

12. LEARNING WEBSITE AND SOFTWARE

- 1 www.warli.in
- 2 [www.biodiversity of India .org.](http://www.biodiversityofindia.org)
- 3 [www.Indian Mirror .com](http://www.IndianMirror.com)
- 4 www.Utsavpedia.com
- 5 www.India1001.com
- 6 [www.crafts and artisans .com](http://www.craftsandartisans.com)
- 7 [www.madhubani painting.com.](http://www.madhubanipainting.com)
- 8 www.odshiaviews.com
- 9 [www.phadchitrakari.com.](http://www.phadchitrakari.com)

MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's) WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Classify the Indian folk art and their attributes and apply them on apparel.	--	--	2	--	1	--	--	--	--	2	2	--	--
CO2	Apply harmony and uniformity to the collection by using designs of folk art.	--	--	2	--	1	--	--	--	--	2	2	--	--
CO3	Design the accessories using the themes of Folk art.	--	--	--	--	1	--	--	--	--	2	2	--	--
CO4	Design and apply the contemporary motifs of folk art as per designs.	--	--	3	--	1	--	--	--	--	2	2	--	--

[illegible]

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	MS.R.S.joshi	Lecturer DDGM G.P.Abad
2	Ms J.S. Lakade	Lecturer DDGM G.P.Abad

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: CAD-CAM Specialization level (I)**COURSE CODE: 6D415****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	Fourth

1. RATIONALE

Embroidery has been the queen of fashion clothing for many centuries. Major developments in embroidery is digitization . The infusion of technology into handmade delicacies of the thread has made a tremendous impact in today's fashion. The course contains introduction to embroidery software to produce designs, that could then be fed into embroidery machines for perfect design output. The course helps to save time and preserve our heritage .

2. COMPETENCY

“Implement the embroidery digitizing software for creating designs that could be interpreted by the embroidery machine.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)				Total Credits (L+T+P)	Examination Scheme(Marks)			
					Theory		Practical	
L	T	P	C	ESE	PT	ESE@ (PR)	PA (TW)	100
0	0	4	4	00	00	50@	50	
Duration of the Examination (Hrs)				--	--	4	-	

Legends: L- Lecture; T- Tutorial/Teacher Guided Theory Practice; P-Practical;

C- Credit; ESE- End Examination; PT- Progressive Test; PA-Progressive Assessment, OR-Oral Examination, TW- Term Work; # External, @ Internal

4. COURSE OUTCOMES

After studying this course students will able to :

- 1 Create motifs with different stitches.
- 2 Digitize the motifs and designs and convert them into editable format.
- 3 Design monograms with different fill effects & borders.
- 4 Translate designs to machine executable code.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Layout And Editing Window	1a. List the terminology of software. 1b. Identify the tools, its function and menus of software.	1.1 Understanding the quick access tool bar & work area. 1.2 Practicing the color, sewing attributes, text attributes.
Unit– II	2a. Which tools are used for	2.1 Drawing and moving shapes

Basic Layout & Editing Operation	<p>drawing the motifs.</p> <p>2b. State the method of editing shapes, applying sewing attributes.</p> <p>2c. What precautions should be taken while applying pattern to stitching.</p>	<p>2.2 applying a pattern to stitching.</p> <p>2.3 Editing points and modifying shapes.</p> <p>2.4 Specifying hole sewing.</p> <p>2.5 Applying sewing attributes.</p>
Unit– III Creating Embroidery Design	<p>3a. State the points to be considered while specifying sewing order ,changing colors.</p> <p>3b. Give tips for removing overlaps and merging patterns.</p> <p>3c. State the tricks for avoiding jump stitch</p> <p>3d. How to rotate, flip patterns</p>	<p>3.1 Changing line attributes to shapes.</p> <p>3.2 Applying embroidery attributes to shapes.</p> <p>3.3 Changing shapes</p> <p>3.4 Removing overlaps</p> <p>3.5 Merging shapes</p> <p>3.6 Aligning and scaling embroidery patterns.</p> <p>3.7 Flipping,rotating,patterns.</p> <p>3.8 Editing sewing order</p> <p>3.9 Changing colors</p> <p>3.10 Locking embroidery patterns.</p> <p>3.11 Jump stitch trimming</p>
Unit-IV Specific Application	<p>4a. State are the innovative methods of surface ornamenting?</p>	<p>4.1 Creating split embroidery designs.</p> <p>4.2 Creating appliques.</p>
Unit-V Data Transfer Settings	<p>5a. Write the Method to specify hoop size and sewing area.</p> <p>5b. State the method of transferring designs to machines in file formats.</p>	<p>5.1 Transferring design to machine</p> <p>5.2 Converting emb.designs files to different formats.</p> <p>5.3 Specifying user hoop size</p> <p>5.4 Specifying sewing area.</p>
Unit-VI Converting Images To Embroidery Designs	<p>6a. List out the points for auto punching the design.</p>	<p>6.1 Auto punch function to create embroidery pattern</p> <p>6.2 Placement of design, text.</p> <p>6.3 Advanced stitch wizard operations.</p>
Unit-VII Creating Text	<p>6b. Explain the steps for creating text with outlines and fills.</p> <p>6c. What is name drops and how to create it.</p> <p>6d. State the method of editing and saving font.</p>	<p>7.1 Converting text to block</p> <p>7.2 Converting text to outline.</p> <p>7.3 Creating name drops. Monograms.</p> <p>7.4 Creating a font character pattern</p> <p>7.5 Editing points of font.</p> <p>7.6 Saving font pattern</p>

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
NIL						

Legends: R = Remembrance; U= Understanding; A= Application and above levels

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	Creating motifs with run fill and blend, shade etc.	12
2	II	Creating alphabets with fill and border effects.	12
3	III	Creating appliques.	12
4	IV	Creating fill patterns programme splits.	19
5	VI	Converting images to designs.	9
TOTAL			64

8. SUGGESTED STUDENTS ACTIVITIES

Following is the list of proposed student activities like.

- 1 Make a E-Library of motifs created for application.
- 2 Internet surfing for knowing different formats of embroidery files.
- 3 Compare various Industrial models of embroidery machine with respect to functions.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

1. Arrange guided industrial visits to embroidery unit for observing embroidery techniques.
2. Motivate students to use internet and collect name, addresses, software, catalogues, and rates, specifications of manufacturers of embroidery machines and equipment, material.
3. Visit to various embroidery exhibition.
4. Show videos of Digitizing and its application

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Embroidery digitize pdf		
2	Embroidery manual pdf.		
3	Embroidery Business from Home: Business Model and Digitizing Training Course: 2	Martin Barnes	CreateSpace Independent Publishing Platform; 1 edition (28 September 2016)

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	Embroidery digitizing software.	Deco studio decoration and productivity Embroidery studio decoration, Creativity and productivity Auto shaping, offset advanced, alphabet creator, etc.
2	Embroidery machine(single head multi needle) Embroidery machine – Bernina artista	-Equipment-Single head embroidery machines with 7” high definition true color touch screen system Specifications- Machine reads multiple design formats like DST ,DSB &more Recessed USB port to protect USB flash drive Maximum speed 1200 SPM Maximum EMBROIDERY AREA-560 X 350mm or 22” X 14” USB input or direct transmission from PC via serial port or wi-fi capable. servo motor 150W(minimum) Built in universal power supply,110V/60Hz&220V/50Hz ,self adaptable worldwide. DC36V micro –step motor for X&Y axis driving to ensure low noise and less vibration. -Bernina Artista Machine.
3	Embroidery accessories like hoops,wadding,threads,etc.	Border frame ,Sleeve Frame ,Compact Frame embroidery frames. Stabilizer Roll, heavy weight, tear away, 10yds, 100% Polyester Color Fast, High Shine Embroidery Thread basic colors

12.E-Learning Websites/Resources

- 1 <https://www.youtube.com/watch?v=-Z2hvYFkUf0>
- 2 [Stitchwell digitizing.com](http://Stitchwell.com)
- 3 [www.Advanced Wilcom.com](http://www.AdvancedWilcom.com)
- 4 [www.Brother .com.](http://www.Brother.com)
- 5 www.embird.net

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's)WITH COURSE OUTCOMES (CO's)

Co. No.	Course Outcomes	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P O 10	P S O 1	P S O 2	P S O 3
CO1	Create motifs with different stitches.	-	-	2	-	-	-	-	-	-	-	-	-	2

CO2	Digitize the motifs and designs and convert them into editable format.	-	-	2	-	-	-	-	-	-	-	-	-	2
CO3	Design monograms with different fill effects & borders.	-	-	2	-	-	-	-	-	-	-	-	-	2
CO4	Translate designs to machine executable code.	-	-	2	-	-	-	-	-	-	-	-	-	2

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	Ms.J.S.Lakade	Lecturer DDGM G.P.Abad

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: History of World Costume (HWC)**COURSE CODE:6D303****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	Fifth

1. RATIONALE:

This course provides knowledge and thorough information on diversity of traditional costumes of few countries. The course helps to understand how clothing evolved, changed and adopted the culture. It gives insight about costumes in different country and glimpse of their taste. Its impact on fashion boosts students to develop contemporary version. It coordinates as inspirational tool for design process.

2. COMPETENCY:

“Develop creativity for design process through historical resource.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE@ (PR/OR)	PA (TW)	
4	0	0	4	80	20	00	100	
Duration of the Examination (Hrs)				03	01	00	00	

Legends: L- Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-** Practical;

C- Credit; **ESE-** End Examination; **PT-** Progressive Test; **PA-** Progressive Assessment, **OR-** Oral Examination, **TW-** Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

1. Identify costumes, motifs and fashion accessories mentioned in history for Ancient Egypt; Greece; Rome, Gothic Era-1250-1500; Renaissance 1500-1640; Rococo 1720-1785; Neoclassic 1785-1815; Decade clothing of 20th century.
2. Compare the clothing of China & Japan.
3. Illustrate costumes, motifs and fashion accessories for Ancient Egypt; Greece; Rome, Gothic Era-1250-1500; Renaissance 1500-1640; Rococo 1720-1785; Neoclassic 1785-1815; Decade clothing of 20th century, China, Japan.
4. Distinguish the characteristics and dressing culture of Era's mentioned & decade of 20th century.
5. Analyze the special terminology used for clothing and accessories in history for Ancient Egypt; Greece; Rome, Gothic Era-1250-1500; Renaissance 1500-1640; Rococo 1720-1785; Neoclassic 1785-1815; Decade clothing of 20th century, China, Japan.

5.DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Ancient Egypt	1a. Differentiate between men's & women's clothing of Egypt 1b. Describe with sketch men's clothing, jewelry & accessories of Egyptian time 1c. Distinguish between Old, Middle & New kingdom Egyptian clothing. 1d. Illustrate Egyptian costume and motifs.	Dressing of men & Women for old, middle & new kingdom 1.1 Men's clothing: Loin cloth, Shenti, shendot, haik, kalasiris, clothing of the Pharaohs. 1.2 Women's clothing : Kalasiris, Sheath dress, Body decoration & motif: Tattooing, lotus & papyrus 1.3 Jewelry & accessories: Wigs, khat, sun's disc, shoulder collar, Uraeus, and crowns of the Pharaohs & Kings, Egyptian sandals 1.4 Illustration of above mentioned clothing, foot wear and accessories.
Unit– II Ancient Greece & Rome	2a. Identify the significance of Toga according to colors. 2b. Describe wearing style of Toga. 2c. Compare Greek & Roman Costume. 2d. Differentiate between Palla & Stola, Doric & Ionic Chiton, Lacerna & Chalmys 2e. Illustrate Roman & Greek costume. State different types of Toga	2.1 Greece Clothing: Doric chiton, Tunic, Ionic, Himation, Chalmys, Peplos, Palla, 2.2 Illustration of Greek Clothing and footwear 2.3 Roman clothing: Toga & its types: Toga picta; Toga virilis; Toga Prætexta; Toga Candida; Toga equites, Toga Picta, Tunic, Palla, stola, Lacerna, Sabilgaculum 2.4 Illustrate Roman clothing and Foot wear.
Unit – III Era Studies	1a. Describe the costume features of given eras. 1b. Illustrate the costumes of given eras. 1c. Collect the pictures of given fashion categories & given eras.	Era Studies: (Men's & Women's Clothing, Accessories & Footwear studies of mentioned era's) 3.1 Gothic 1250-1500 3.2 Renaissance 1500-1640 3.3 Rococo 1720-1785 3.4 Neoclassic 1785-1815 3.5 Introduction to different shapes of Crinoline/ Farthingale, Paniers 3.6 Introduction to Corset
Unit-IV Decade Studies	4a. Describe the Characteristics of The different Decades. 4b. Describe Men's; Women's clothing. 4c. State and describe the accessories used during different decades. 4d. Compare decades with each	Decade studies : Characteristics of the Decade; Women's clothing, Men's clothing and accessories study for the following mentioned decades. 3.1 The Twenties: 1920-1929 3.2 The Thirties : 1930 -1939 3.3 The Forties: 1940-1949 3.4 The Fifties: 1950-1959

	other with respect to clothing fashion. 4e. Define fashion categories. 4f. Distinguish between the fashion categories.	3.5 The Sixties: 1960-1969 3.6 The Seventies: 1970-1979 3.7 The Eighties: 1980-1989 3.8 The Nineties: 1990-1999 3.9 Introduction to following Fashion Categories- Haute couture; Formal & semiformal wear; Pret collection; Resort & sports wear; Avant garde
Unit–IV China	5a. Identify the importance of Dragon motif in China. 5b. Differentiate between dragon robe & Mandarin robe. 5c. Describe the features of Cheongsam. 5d. Illustrate the male & female Chinese costume.	China 5.1 Knowledge of certain myths and symbol- The phoenix , The dragon , The unicorn Manchu dynasty 5.2 The costume of Manchu women 5.3 The costume of Manchu men (Dragon Robe) 5.4 Mandarin garments 5.5 Modern day dress- The Cheongsam 5.6 Illustrate the China symbol & dresses of male & female
Unit – VI Japan	6a. Identify the three types of kimono worn in samurai era. 6b. Identify the layers of Junihitoe 6c. Describe Japanese Bridal attire&court costume of Japan 6d. Explain the importance of underclothes for smooth foundation of kimono, OBE or sash. 6e. Illustrate the Japanese costume.	Japan 6.1 Garments worn by royalty and common man's attire 6.2 Kimono as worn in its different forms Junihitoe , Kosode 6.3 Furisode (Kimono as worn by samurai) ,Koshi-moki 6.4 Japanese bridal attire, knowledge of under clothes for creating the smooth foundation of kimono Hadajuban , Susoyoke 6.5 Knowledge of OBI or sash and Haori cloth 6.6 Illustrate Japanese costume for male & female.

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	Ancient Egypt	08	02	02	04	08
II	Ancient Greece & Rome	12	02	04	04	10
III	Era Studies	14	04	06	08	18
IV	Decade Studies	14	06	08	06	20
V	China	08	04	04	04	12
VI	Japan	08	04	04	04	12
TOTAL		64	22	28	30	80

Legends: R = Remembrance; U= Understanding; A= Application and above levels
(Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
NIL			

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

- 1 Collect the pictures of historical costumes of given countries.
- 2 Collect the pictures and information of any five country not studied in syllabus.
- 3 Assignments of sketches on costumes and motifs of given country.
Collect the pictures from movies in which designs/garments styles of given country are used.
- 4 Prepare sheets of contemporary designs using given costumes as inspiration.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

1. Visit to historical museums to study the costumes.
2. Seminar

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Encyclopedia of world costume	James Lever	--
2	Clothing technology from fiber to fashion (Fifth Edition)	Verlag Europa-Lehrmittel	Europa-Lehrmittel
3	World dress	Francess Kennet	ISBN 1-85732-353-X
4	Dictionary of Fashion	Charlotte Mankey Calasi betta, philist Tortora	Om books International ISBN 81-8710-739-1

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	Computer system with internet.	Intel processor core i3 or i7 or latest with mother board Intel chipset 41/61/latest with 4 USB, 1 serial port, 1 LPT port, 2GB RAM DDR III, 500 GB Sata Hard disk, 16" or 18.5" LCD/LED monitor, ATX cabinet with SMPS and lock system, DVD writer, Keyboard, USB mouse, 1 Gigabit Network card/ latest configuration

12. LEARNING WEBSITE AND SOFTWARE:

https://en.wikipedia.org/wiki/Informal_wear
<https://www.historyonthenet.com/egyptian-clothing>

<https://www.historymuseum.ca/cmc/exhibitions/civil/egypt/egcl06e.html>
<https://www.ancient.eu/article/20/ancient-greek-clothing/>
<https://www.chinahighlights.com/travelguide/traditional-chinese-clothes.htm>
<http://www.facts-about-japan.com/clothing.html>
<https://fashionhistory.fitnyc.edu/spanish-farthingale/>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's) WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Identify costumes, motifs and fashion accessories mentioned in history for Ancient Egypt; Greece; Rome, Gothic Era-1250-1500; Renaissance 1500-1640; Rococo 1720-1785; Neoclassic 1785-1815; Decade clothing of 20 th century.	2	3	-	-	-	-	-	-	-	-	-	-	-
CO2	Compare the clothing of China & Japan.	2	2	-	-	-	-	-	-	-	-	-	-	-
CO3	Illustrate costumes, motifs and fashion accessories for Ancient Egypt; Greece; Rome, Gothic Era-1250-1500; Renaissance 1500-1640; Rococo 1720-1785; Neoclassic	1	1	-	-	-	-	-	-	-	-		3	

	1785-1815; Decade clothing of 20 th century, China, Japan.													
CO4	Distinguish the characteristics and dressing culture of Era's mentioned & decade of 20 th century.	1	2	-	-	-	-	-	-	-	-	-	-	-
CO5	Analyze the special terminology used for clothing and accessories in history for Ancient Egypt; Greece; Rome, Gothic Era-1250- 1500; Renaissance 1500-1640; Rococo 1720- 1785; Neoclassic 1785-1815; Decade clothing of 20 th century, China, Japan.	3	-	-	-	-	-	-	-	-	-	-	2	-

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	Ms. M.P. Chavan	Lecturer in DDGM, A'bad
2	Ms.N.R. Lakhotiya	Lecturer in DDGM, A'bad

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Technology of Clothing Manufacturing (TCM)**COURSE CODE: 6D401****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	Fifth

1. RATIONALE

The technology used in apparel manufacture is closely related to quantity & length of manufacturing run of garment. This course develops insight about machines and mechanisms of clothing manufacturing technology that fulfills the demands of Fashion Industry. The course helps to gain knowledge of selecting right machines and ancillary mechanisms to increase the production capacity.

2. COMPETENCY

“Achieve the knowledge of garment manufacturing machines and their ancillary mechanisms.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE@ (PR/OR)	PA (TW)	100
4	1	0	4+1+0	80	20	--	--	
Duration of the Examination (Hrs)				3	1	--	--	

Legends: L- Lecture; T- Tutorial/Teacher Guided Theory Practice; P-Practical;

C- Credit; ESE- End Examination; PT- Progressive Test; PA-Progressive Assessment,

OR- Oral Examination, TW- Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

After studying this course students will able to :

1. Identify an ancillary Mechanism for a given M/C.
2. Outline processes involved in cutting room of apparel industry.
3. Select fabric cutting machine for given production batch.
4. Add seam & stitch details to technical sketch..
5. Select feed mechanism & Apparel Production sewing & finishing Machines according to product requirement.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (in cognitive domain)	Topics & Sub –Topics (Containing Pos& Cos assignment in each Sub - topics)
UNIT-I Ancillary	1a. Identify use of various ancillary equipments	1.1 Automatic Thread Cutter- 1.2 Thread wiper.

Mechanisms of Industrial Sewing Machine	1b. Compare various ancillary equipments of industrial sewing machine	1.3 Needle position. 1.4 Bar tacking. 1.5 Edge Trimming. 1.6 Edge Detection.
UNIT-II Production Process in Cutting Room – Planning, Spreading & Marking	2a. Define marker planning. 2b. Define spreading 2c. Write about the process involved in cutting room 2d. Explain types of fabric spread. 2e. Describe the process for elimination of fabric faults.	2.1 Introduction To spreading, & marking 2.2 Study the requirements of Marker planning 2.3 The nature of the fabric & the desired result in the finished garment 2.4 The requirements of quality in cutting. 2.5 Internal & external costs. 2.6 Flowchart of production processes in the cutting room. 2.7 The requirements of production planning 2.8 Methods of marker planning & marker use 2.9 Manual & Computerized marker planning 2.10 The spreading of the fabric to form a lay 2.11 The requirements of the spreading process 2.12 Methods of spreading. 2.13 The nature of fabrics packages.
UNIT-III Study the Cutting of The Fabric & Preparation of Sewing	3a. Differentiate marking loss & spreading loss 3b. Compare Straight Knife with Round Knife machine 3c. Describe working of Computer controlled cutting machine	3.1 Study of direct & indirect fabric losses. 3.2 Objective Of Cutting 3.3 Precision of cut & Clean edges 3.4 –Un scorched, un fused edges 3.5 Support of the Lay & Consistent cutting 3.6 Methods Of Cutting 3.7 Powered Scissors 3.8 Straight Knife 3.9 Round Knife 3.10 Band Knife 3.11 Die Cutting 3.12 Computer Controlled 3.13 Cutting Machine 3.14 Laser Cutting 3.15 Preparation Of Sewing
UNIT-IV Sewing	4a. Explain formation of stitches. 4b. Compare seam type with stitch type	4.1 Understand the stitch information 4.2 Interloping, Interloping & interlacing

Details	4c. Compare interloping, Intralooping & interlacing with diagram 4d. Explain drop feed system with diagram 4e. Describe the application of sub class of stitches	4.3 Classification & Terminology of Seam types & conventions of seam diagrams. [British Standard] 4.4 Study of Stitch types. [British Standard Diagrammatic representation, features & application] 4.5 Study of sewing M/C Feed Mechanisms. 4.6 Drop, differential feed 4.7 variable top feed -combined with drop feed 4.8 Variable top feed combined with differential feed 4.9 Compound & unison feed
UNIT –V Sewing Machines with its features & Application	5a. Explain the types of machine beds and tables. 5b. Explain the technical specifications of over-lock machine 5c. Compare button hole with button sewing machine 5d. Explain various operation of clothing industry done by mechanized workplaces 5e. Describe uses of safety stitch machine	5.1 Simple & Mechanized Work Places 5.2 Types of machine beds and tables 5.3 Single needle Industrial lock Stitch Machine 5.4 Over-lock & Blind Stitch 5.5 Button Hole & Button Sewing 5.6 Bar Tacking. 5.7 Intro. To thread suction machine 5.8 Cansaii machine application.
UNIT –VI Study Of Pressing Technology	6a. Differentiate top pressing & under pressing 6b. Distinguish between scissors & steam press 6c. Explain machinery & equipment of garment pressing 6d. Describe basic components of pressing. 6e. Explain the concept of CIM.	6.1 Definition of Top & Under Pressing. 6.2 Components Of Pressing 6.3 Steam Press. Scissor Press 6.4 Carousel & Tunnel Finishing. 6.5 Stem Dolly. 6.6 Introduction Of Computer Integrated manufacturing. [CIM]

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	Ancillary Mechanisms of Industrial Sewing Machine	04	02	04	04	10
II	Production Process in Cutting Room –	08	02	04		14

	Planning, Spreading & Marking				08	
III L e v e l s :	Study the Cutting Of The Fabric & Preparation Of Sewing	14	02	08	04	14
	Sewing Details	12	02	08	04	14
	Sewing Machines with its features & Application	16	02	08	04	14
VI R	Study Of Pressing Technology	10	02	04	08	14

= Remembrance; U= Understanding; A= Application and above levels

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
i.	Ancillary Mechanisms of Industrial Sewing Machine	Find more ancillary mechanisms used in apparel industry. Draw/paste pictures and write its function.	04
ii.	Production Process in Cutting Room –Planning, Spreading & Marking	Differentiate between manual and computerised spreading. write its advantages and limitations. List fabric packing techniques & tips necessary for spreading different fabrics.	08
iii.	Study the Cutting Of The Fabric & Preparation Of Sewing	Make a chart of different cutting machines and their pictures, uses, specifications.	14
iv.	Sewing Details	Show stitch details and seam details on a product with name and symbol. Find products where different feed mechanisms are used. Show the stitch formation of various sewing machines.	12
v.	Sewing Machines with its features & Application	Make a chart of different sewing machines and their pictures, uses, specifications & application on product	16
vi.	Study Of Pressing Technology	Make a comparative chart of advantages of different pressing machines used in garment industry.	10

8. SUGGESTED STUDENTS ACTIVITIES

- 1..Find out more ancillary mechanisms used in apparel industry.
2. Compare specifications of different brands of various specialized cutting & sewing machines.
3. Compare specifications of different brands of garment pressing machines.
4. Study the spec sheets for stitch and seam identification.
5. Find various safety precautions to be taken while using the garment machineries.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

1. Show videos of working of garment cutting, sewing & pressing machines.
2. Make a chart of stitch and seam classification for easy understanding.
3. Show the Fabric spreading & feed mechanism videos .

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Title Of Book	Author	Publication
1	Fashion Production Terms	Debbie Ann Goello	Published by Fairchild Pubns (1979) ISBN 10: 0870052004
2	Technology Of Clothing Manufacture	Harold Carr David J. Tyler	Wiley; 4th Revised edition edition ISBN-10: 1405161981
3	Introduction To Clothing Manufacture	Gerry Cooklin & Dr Steven George Hayes	John Wiley & Sons ISBN-10: 1405167696
4	The Business Of fashion	Leslie Davis Burns Nancy O. Bryant	Fairchild Books (1 April 1997) ISBN-10: 1563670739

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name Of The Equipment	Specification
1	Domestic sewing model/Industrial sewing machine	Domestic Model-Half Shuttle/Full shuttle, tension assembly, Hinged pressure foot, lever type stitch regulator.
2	Cutting machines –Round knife	Round knife with 6-20cm diameter, base for fabric support, electric motor -800-1600rpm, handle for cutter to direct the knife.
3	Button hole machine	Lock stitch, SPM : 3000-3600 TPH : 6-7 inch needle-DPX5

4	Over lock machine	needle over lock machine, 7000 stitches per minute, 3.8 mm stitch length, with differential feed ratio, over edging width 2,3,4 mm.
---	-------------------	---

12. LEARNING WEBSITE AND SOFTWARE

<http://www.thomasnet.com/articles/custom-manufacturing-fabricating/industrial-sewing-machines>

<https://www.youtube.com/watch?v=nmkS8brdWhI>

<https://www.youtube.com/watch?v=f36vYhrzAuc>

https://www.youtube.com/watch?v=BK-_FDAbIDk

<https://www.youtube.com/watch?v=UjkW-pyC1fY>

<https://www.youtube.com/watch?v=qSQFvv2jtio>

<https://www.youtube.com/watch?v=xGOJnaiOMII>

https://www.youtube.com/watch?v=nOWv_jhazbs

<https://www.youtube.com/watch?v=MUXuVNpr7K0>

<https://www.youtube.com/watch?v=zw93x5q5RGI>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's) WITH COURSE OUTCOMES (CO's)

Co. No.	Course Outcomes	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P O 10	P S O 1	P S O 2	P S O 3
CO1	Identify an ancillary Mechanism for a given M/C.	-	1	-	-	-	-	-	-	-	-	-	-	-
CO2	Outline processes involved in cutting room of apparel industry.	-	2	-	2	-	-	-	-	-	-	-	-	-
CO3	Select fabric cutting machine for given production batch.	-	2	-	2	-	-	-	-	-	-	-	-	-
CO4	Add seam & stitch details to technical sketch.	-	2	-	2	-	-	-	-	-	-	-	-	-
CO5	Select feed mechanism & Apparel Production sewing & finishing Machines according to product requirement.	-	2	-	2	-	-	-	-	-	-	-	-	-

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	Mrs R.S.Joshi	Lecturer Dress Designing & Garment Mfg.

6D401

GPA Technology of Clothing Manufacturing.

2

Ms.J.S. Lakade

Lecturer Dress Designing & Garment Mfg.

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Garment Construction Process (GCP)**COURSE CODE:6D406****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	Fifth

1. RATIONALE

This course provides the different structural techniques for various, indo western fashion patterns. It adds confidence to use scissors on both paper patterns as well as on cloth. When the mental picture of shape line and form is clear the students can develop the fashion pattern. This course provides the skills for garment construction by using different techniques to evaluate fitting appearance of garment with correct notions and supplies.

2. COMPETENCY

Develop good judgments for advanced patterns for men's and women's garments with respect to cutting& stitching.

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE# (PR)	PA (TW)	
3	0	6	9	40	10	50#	50	150
Duration of the Examination (Hrs)				2	1	50	50	

Legends: L- Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-**Practical;

C- Credit; **ESE-** End Examination; **PT-** Progressive Test; **PA-**Progressive Assessment,

OR- Oral Examination, **TW-** Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

- 1 Develop paper patterns and drafts for men's, women's shirt, trouser, vest coat of men, Sherwani for men and night suit of men using either bespoke method or block adaptation method.
- 2 Estimate the consumption of fabric for Men's Garments by using lay plan method
- 3 Construct garments for men's Shirt, trouser, women's shirt/ trouser.
- 4 Develop Cost sheet for men's garments

4. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I	1a. Explain drafting instruction of	1.1 Drafting Instructions and

Shirt for men&women	1b. Men's shirt for size 38. Draft 1:4cm scale pattern of Men's shirt for Size 38. 1c. Calculate the fabric required for Men's shirt for size 38.	1:4 size template , Full size cutting Shirt for men- 1.2 Shirt collar, Cuff Sleeve 1.3 1:4 scale lay plan 1.4 Shirt for Women- 1:4 size cutting 1.5 Stand collar, Bishop Sleeve
Unit– II Trousers for Men& Women	2a. Explain drafting instruction of Men's trouser and Jeans trouser. 2b. Draft 1:4cm scale pattern of Men's trouser and jeans trouser 2c. Calculate the fabric required for Men's trouser and Jeans trouser. 2d. Prepare a Flow Chart for stitching a Men's trouser and Jeans trouser. 2e. Draft 1:4cm scale pattern of Pajama block 2f. Draft 1:4cm scale pattern of Women Trouser	2.1 Drafting Instructions and 1:4 size template, Full size cutting 2.2 Trouser For Men- 2.3 Welt Pocket, Side Cut pocket, belt With Loop 2.4 1:4 scale lay plan 2.5 Drafting Instructions and 1:4 size template, Fill size cutting 2.6 1:4 scale lay plan 2.7 Pajama Block for Men- 1:4 size drafting. 2.8 Drafting Instructions for women trouser and 1:4 size template ,
Unit - III Vest Coat for Men	3a. Draft 1:4cm scale pattern of Jacket 3b. Prepare full size paper cutting of Vest Coat and cost sheet. 3c. Make a Flow Chart for stitching a Vest Coat	3.1 Drafting Instructions and 3.2 -1:4 size template, Full size cutting 3.3 Vest Coat for Men 3.4 -1:4scale lay plan
Unit - IV Sherwani and Churidar for Men	4a. Explain drafting instruction of Sherwani&Chudidar for Men 4b. Estimate the fabric required for Sherwani&Chudidar for Men	4.1 Drafting Instructions and 1:4 size template 4.2 Sherwani&Chudidar for Men 4.3-1:4 scale lay plan-
Unit –V Night Suit for Men	5a. Draft 1:4cm scale pattern of Night Suit for Men 5b. Prepare small size paper cutting of Night Suit for men and cost sheet.	5.1 Drafting Instructions and 1:4 size template -Night suit for Men 5.2 -1:4 scale lay plan

5. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R	U	A	TOTAL

			Level	Level	Level	
I	Shirt for men& women	08	02	02	04	08
II	Trousers for Men & Women	12	04	04	04	12
III	Vest Coat for Men	08	02	02	04	08
IV	Sherwani and Churidar for Men	08	02	02	02	06
V	Night Suit for Men	12	02	02	02	06
Total		48	12	12	16	40

Legends: R = Remembrance; U= Understanding; A= Application and above levels
(Revised Bloom's taxonomy)

6. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	Prepare full size paper cutting & Develop a working & master pattern of Men's shirt& stitch it.	14
2	II	Prepare full size paper cutting & Develop a working & master pattern of Women's shirt	06
3	III	Prepare full size paper cutting & Develop a working & master pattern of Men's trouser& stitch it.	14
4	IV	Prepare full size paper cutting & Develop a working & master pattern of Women's trouser.	06
5	V	Prepare full size paper cutting & Develop a working & master pattern of Men's Vest Coat& stitch it	28
6	VI	Prepare full size paper cutting & Develop a working & master pattern of Men's Sherwani & Chudidar	14
7	VII	Prepare full size paper cutting & Develop a working & master pattern of Pajama block [Night suit for men]	14
Total			96

7. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

Following is the list of proposed student activities like.

1. Prepare journals based on practical performed in laboratory.
2. Collect six to eight pictures of Men's shirt, Men's trouser, jean trouser block, Pajama block [Night suit for men] ,Women trouser-Parallel, Slim fit, Palazzo, Night suit for women& make a scratch book.
3. Collect different types of fabric Swatches.
4. Market Survey to study Garments used by local boutiques.

8. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

1. ICT learning.
2. Industrial visit
3. Guided library experience.
4. Mini project
5. Self learning module.

9. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Metric pattern cutting for women's	Winifred Aldrich	Blackwell science ISBN10:1405102780
2	Metric pattern cutting for children	Winifred Aldrich	Om Books ISBN10:0632059788
3	Pattern Cutting for Lingerie wear	Ann Hagar	Blackwell science ISBN10:140511858X
4	Dress pattern designing	Natalie Bray	Blackwell Scince ISBN:0-632-01881-X
5	Pattern Making	Helen Joseph Armstrong	ISBN:0060403322
6	The Technology Of Clothing Manufacturer	Harrold Carr, david Tyler	Willey publication ISBN10:1405161981
7	Pattern Making for men, Women	Dilip Karampuri	Liberty Publications
8	Complete guide to sewing	Reder's Digest	ISBN 10-0762104201 ISBN 13-9780762104208
9	Art of sewing-	Anna Jacob thomas	UBS Publisher ISBN 81-85944-32-6

10. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	LCD Projector	LCD Projector with LCD Panel, Lence, Lamp, ceiling or floor installation & Supplied Accessories
2	Visualizer	PS Scan Camera with internal picture memories, vertical & horizontal & 350 degree head rotation. Led upper light & accessories.
3	Brown paper, Tailors chalk, Measuring tape, scissors.	Stationary material as per requirements
4	Cutting tools – Shears, Scissors, Dress Makers Shears, Scalping, shears, Cutting table etc	Scissor-Sharp blades and well proportioned hardness Corrosion and abrasion resistant Sizes: 9/10/11/12-inch Length: 240mm, 260mm, 280mm, 300mm, 8 inch stainless steel blades for scallop shear,

5	Industrial sewing machine	SNLM-Medium weight application ,5500 SPM,5mm stitch length,by kneepressurefoot-13mm,
6	Cloth, matching thread , steam press, hand needles, machine needles.	Hand Needles-1-12,18-28,Machine Needles in American size 10 TO 16,cloth-cotton ,silk, khaddar etc(as per need),steam press
7	Dress form, mirror ,trimming &fasteners	8-12 size dress forms, two and four hole plastic buttons,metalbuttons,snaps,Velcro etc.

11. LEARNING WEBSITE AND SOFTWARE

1. <https://youtu.be/-3MMVfPP30k>
2. <https://youtu.be/-3MMVfPP30k>
3. <https://youtu.be/j3iLiJsQyFc?list=PL1gv5yv3DoZOcmOJf6f0YWw522VXXv-mM>
4. <https://youtu.be/W-ItX5EP08o>
5. <https://youtu.be/Cbl-8KzMJGk>
6. <https://youtu.be/DbpOld55M5Y>
7. https://youtu.be/H52mW-_Wds8
8. <https://youtu.be/17ypwr0A-A0>
9. <https://youtu.be/WNPZJ5Q4KUo>
10. https://youtu.be/mgHlqY8_sS4
11. <https://youtu.be/t71LXKX73kU>
12. <https://youtu.be/ewzMFWZwQ24>
13. <https://youtu.be/n47OKLhmvXk>
14. https://youtu.be/CvLUC4_ITBY

12. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's)WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Develop paper patterns and drafts for men's, women's shirt, trouser, vest coat of men, Sherwani for men and night suit of men using either bespoke method or block adaptation method.	-	1	-	1	-	-	-	-	-	-	-	1	-
CO2	Estimate the consumption of fabric for Men's Garments by using lay plan method	-	2	2	3	-	-	-	-	-	-	-	1	-

CO3	Construct garments for men's Shirt, trouser, women's shirt/ trouser.	-	1	2	3	-	-	-	-	-	-	-	1	-
CO4	Develop Cost sheet for men's garments	-	1	2	2	-	-	-	-	-	-	-	1	-

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	N.R.Biyani	Lecturer in DDGM

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Draping Techniques(DPT)**COURSE CODE:6D409****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	FIFTH

1. RATIONALE

The course will develop the skills, principles and techniques in draping the basic patterns to creative fashion draping on three dimensional forms. The course enables to create foundation patterns for the basic bodice, skirt, shift and sleeve from which other complicated designs such as collars, yokes, ruffles gathers, cowls etc. may be designed. The course cooperates to directly develop any pattern difficult to develop by flat drafting method with the help of dress form and get the output along with smart fit. This builds students confidence level in designing as well as in production.

2. COMPETENCY

“Develop advanced patterns through draping technique.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)				Total Credits (L+T+P)				Examination Scheme(Marks)		
								Theory	Practical	Total
L	T	P	C	ESE	PT	ESE@ (PR)	PA (TW)			
2	0	4	6	00	00	50@	50			100
Duration of the Examination (Hrs)				-	-	04	-			

Legends: L- Lecture; T- Tutorial/Teacher Guided Theory Practice; P-Practical;

C- Credit; ESE- End Examination; PT- Progressive Test; PA-Progressive Assessment, OR-Oral Examination, TW- Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

1. Prepare the dress form and fabric ready for draping and identify the principles and procedures of draping.
2. Drape the basic block set on dress form by manipulating the fabric on three dimensional forms and obtain harmony and balance between the fabric and the design by applying dart manipulation.
3. Create skirt block and its variations also sleeves and collars with draping techniques.
4. Develop the keen sense of proportion and placement of style lines to make trousers and its variations.
5. Develop new patterns with creative aspect.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Basic preparation	1a. Select the equipments needed for draping 1b. Demonstrate the process to prepare for draping 1c. Assume the fitting methods and select the suitable standard of fitting	Basic Preparation 1.1 Equipment needed 1.2 Draping principles, Preparation of muslin for draping 1.3 Principles of balanced patterns; draping fabric on the dress form 1.4 Draping procedure, design development 1.5 Fitting methods of draping, Notching theory
Unit– II Basic block set drapes	2a. Demonstrate to drape for the block set such as front and back bodice, skirt and sleeve. 2b. Suggest how to mark on the fabric with the help of dress form. 2c. Prepare the truing of the developed pattern 2d. Describe the preparation of final pattern	Basic Patterns set 2.1 Basic bodice front, back(Two darts) 2.2 Basic skirt front, back 2.3 Basic sleeve
Unit– III Dart variations and patterns in bodice	3a. Differentiate the dart manipulation method with flat cutting and draping technique 3b. Demonstrate the manipulation of darts through draping technique 3c. Describe cowl and explain the process to drape cowl& Princess line. 3d. Prepare the truing of all the patterns developed.	Any five Dart variations in bodice and its patterns 3.1 Waist line / Center front/French/ underarm, armhole, neckline, shoulder etc. 3.2 Princess bodice 3.3 Halter /Strapless bodice 3.4 Basic cowls 3.5 Any one pattern of cowl(Necklinecowl /Underarm/yoke cowl on bodice
Unit– IV Skirts and collars and sleeve	4a. Demonstrate the drape technique of skirts, collars and sleeves. 4b. Explain the process of truing the patterns. 4c. Prepare the truing the patterns of sleeves and collar.	Skirts and collars 4.1 The flared skirt 4.2 The gores skirt 4.3 The gathered skirt/Pleated skirt 4.4 The Circular skirt/ Semicircular skirt 4.5 The Peter pan collar 4.6 The polo collar 4.7 The Mandarin collar and shawl collar

		4.8 The Shirt collar 4.9 The basic dolman sleeve 4.10 The Puff sleeve (any) 4.11 The Raglan/ Kimono sleeve
Unit – V Pants	5a. Explain the preparation of fabric for trouser drafting through draping technique. 5b. Demonstrate the draping of front and back trouser block and its patterns.	Pants 5.1 The basic Straight trouser 5.2 Fitted/ pegged/ Tapered/flared (any one)
Unit VI Creating patterns	6a. Create and develop patterns.	6.1 Developing patterns for bodice/skirts/ sleeves/ trousers and one piece dresses through draping techniques (at least three by each students)

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	Basic preparation	2	00	00	00	00
II	Basic block set drapes	6	00	00	00	00
III	Dart variations and patterns in bodice	6	00	00	00	00
IV	Skirts and collars and sleeve	8	00	00	00	00
V	Pants	6	00	00	00	00
VI	Creating patterns	4	00	00	00	00
TOTAL		32	00	00	00	00

Legends: R = Remembrance; U= Understanding; A= Application and above levels (Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I & II	Preparing the Dress form; Preparing the fabric for basic Bodice block front and back; Draping the pattern, Truing the pattern, Balancing the pattern.	06
2	II	Preparing the fabric for skirt block (front and back) Draping the pattern; Truing the pattern, Balancing the pattern.	06

3	III	Preparing the bodice block front pattern to develop any one dart variation pattern of any one two dart series pattern and any one single dart series pattern, Draping, truing the pattern for two dart series variations any one and single dart variations any one. Draping, truing, for princess line pattern, truing the pattern	12
4	III	Draping, Truing either halter or strapless pattern	06
5	III	Draping, truing cowl pattern on bodice	06
6	IV	Draping, Truing and balancing any one pattern of skirt taught to you.	06
7	IV	Draping truing and balancing any one pattern of stand collar and any one from polo/shawl/shirt collar	06
8	IV	Draping , truing and balancing any one pattern of puff sleeve	04
9	V	Draping, truing any one pattern of trouser	06
10	VI	Design and create patterns for bodice/ skirts/ trousers/ sleeves or one piece dress by self (any three)	06
TOTAL			64

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

- 1 Collection of pictures various draped patterns for women as well for men and kids
- 2 Design a garment for developing through draping technique for a client
- 3 Prepare the fabric for the sample piece of your design
- 4 Drape and develop the pattern the pattern Sew the sample pattern

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

- 1 Field Visit.
- 2 Demonstrations
- 3 Online learning
- 4 Experiential Learning.
- 5 ICT learning

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	The art of Fashion Draping	Connie Amaden-Crawford	Fairchild Publication ISBN-10-8187107359
2	Fashion Design on the stand	Dawn cloak	Batsford Ltd (30 April 1996) ISBN-10: 0713477571

3	Draping for Fashion Design	HildeeJaffe,NurieRelis	PearsonPublication-ISBN-978-81-317-2696-9
4	Ebook photo draping	Valerie corr	Online

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	LCD -PROJECTOR, Drafting lab, Dress Forms	LCD Projector with LCD Panel,Lence,Lamp,ceiling or flore installation & Supplied Accesssories
2	Scanner	HP Scan Jet ,flat bed with 4800dpi with scan size 216*311mm for all medias(paper,envelopes,labels) & control panel with scan input modes(front panel),compatables with operating system 7,8,10windows

12. LEARNING WEBSITE AND SOFTWARE

1. <https://www.youtube.com/watch?v=-Z2hvYFkUF0>
2. <https://in.pininterest.com>>
3. <https://www.designersnexus.com>
4. <https://www.fibre2fabric.com>
5. <https://www.universityoffashion.com>
6. <https://www.craftsy.com>
7. <https://www.style2designer.com>
8. [T R cutting school by shingosato-online draping classes by shingosato](#)

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's)WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Prepare the dress form and fabric ready for draping and identify the principles and procedures of draping.	-	1	2	-	-	-	-	-	-	-	-	-	-
CO2	Drape the basic block set on dress form by manipulating the fabric on three dimensional	-	1	2	-	-	-	-	-	-	-	-	-	-

	forms and obtain harmony and balance between the fabric and the design by applying dart manipulation through draping.													
CO3	Create skirt block and its variations also sleeves and collars with draping techniques.	-	-	3	-	-	-	-	1	-	-	3	-	-
CO4	Develop the keen sense of proportion and placement of style lines to make trousers and its variations.	-	1	3	-	-	-	-	-	-	-	-	-	-
CO5	Develop new patterns with creative aspect.	-	-	3	-	-	-	-	1	-	-	3	-	-

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	N. R. Lakhotiya	Lecturer in DDGM

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Seminar (SEM)**COURSE CODE:6D412****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	FIFTH

1. RATIONALE

The course explores students thoroughly in the field of the programme. The students will be emphasized to study the topic in its depth. It develops the ability to think critically which is vital to the world in which personality and image building of students makes them capable and responsible thinkers. The course involves cooperative discussion, and opportunities to share perspectives regarding a topic also develops effective communication skill, gaining expert knowledge, networking with others and renewing motivation and confidence.

2. COMPETENCY

“Apply field knowledge and develop effective communication and presentation skill.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE (OR)	PA (TW)	
0	0	2	2	0	0	25#	25	50
Duration of the Examination (Hrs)				-	-	-	-	

Legends: **L-** Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-**Practical; **C-** Credit; **ESE-** End Examination; **PT-** Progressive Test; **PA-**Progressive Assessment, **OR-** Oral Examination, **TW-** Term Work; **#** External, **@** Internal, **~** Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

- 1 Create confidence of public speaking.
- 2 Collect the information and interpret the topics in its roots.
- 3 Develop analytical skills that will serve them throughout life.
- 4 Maintain the intellectual integrity of speech making.
- 5 Suggest and solve problems on relevant topics.

5. DETAILED COURSE CONTENTS

Student studying in Final year Dress Designing and Garment mfg.program has to select topic for seminar presentation of his/her interest under guidance of

teaching faculty members , which shall be finalized by guide and approved by concerned Head of department.

Student has to prepare and submit short (One Page) abstract of the selected seminar topic. Further guidance shall be give the allotted faculty members.

Finally the students shall prepare the report of his seminar under the guidance of the teaching staff members (Maximum 35 pages) which may consists of observations, drawings, sketches, sample calculations / simple designs, processes, procedures, applications, managements, and costing aspects if necessary.

6. Student should deliver a seminar for 10 to 15 minutes preferable by ppt / model / charts etc of his selected topic followed by question and answer session of 5 minutes.
7. Evaluation will be done on the basis of Seminar topic, contents, communication presentation skills and response to questions asked at the end of presentation.

6. LIST OF PRACTICAL / LABORATORY EXPERIENCES/ TUTORIALS

Unit No.	Practical Exercises (Outcomes in Psychomotor Domain)	Approx. Hrs. required
1	Term work Identify the topic related to Dress Designing and Garment mfg. field/ construction industry.	04
2	Literature survey And Analysis of data collected.	08
3	Identify methodology, do comparative study of various methods, identify related case study.	08
4	Preparing rough draft along with collected drawings. maps and designs / calculations or tables etc.	04
5	Prepare Final draft with attachments. Binding and term work completion.	04

7. SUGGESTED STUDENTS ACTIVITIES

i) Aspects to be considered for report writing

- To study recent developments and technological advances in Civil Engineering field.
- Develop the Entrepreneurial skills.
- Develop communication skills.
- To enhance the presentation skills
- Seminar reports preparations & cost analysis,

II) SUGGESTED AREAS FOR THE SEMINAR FOR DRESS DESIGNING & GARMENT MFG. PROGRAMME:

SR. NO	FEW AREA OF FASHION TECHNOLOGIST
1	PATTERN MAKING
2	APPAREL MANUFACTURING (MEN'S SHIRT AND TROUSERS/ WOMEN'S KURTIS/ LEGGINGS/ KID'S WEAR/ SAREE BLOUSE DEVELOPER/ PUNJABI DRESS MAKER AND MANY MORE N APPAREL RELATED SECTORS.
3	FASHION BOUTIQUE
4	FASHION RETAILING
5	FABRIC ORNAMENTATION/ VALUE ADDITION
6	VISUAL MERCHANDISING
7	GRAPHIC FASHION DESIGNER
8	FASHION CONSULTANCY/ STYLISTS.
9	TECHNOLOGY OF TEXTILE MFG.
10	INDIAN TEXTILES & WORLS EMBRIODERY ;HISTORY OF WORLD COSTUMES
11	NATIONAL AND INTERNATIONAL FASHION DESIGNERS
12	NATIONAL & INTERNATIONAL FASHION BRANDS

8. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

- i. Do literature survey and identify area of interest for seminar preparation.
- ii. Visit the site if required.
- iii. Search on internet for information gathering.
- iv. Prepare sketches, layouts in AUTOCAD if required.
- v. Collect drawings and prepare estimates if needed.
- vi. Do comparative study of methods, identify case study etc
- vii. Prepare report of seminar as per above instructions.
- X Prepare power point presentation of Seminar topic.

SEMINAR REPORT FORMAT

1. Seminar report shall be in the print form on A-4 size white bond paper.

2. Typing shall be in Times New Roman with spacing of 1.5 using one side of paper.
3. Margins: Left = 37.5 mm Right , Top and Bottom = 25mm.
4. Front page : Titles - TNR 18 bold , other – TNR 14 bold. With Institute Logo.
5. Inner Pages : Titles –TNR – 14 Bold , other TNR 12 .
6. Page Nos :Should appear on the right hand top corner of each page starting after index page.
7. Tables to be preferable in the Text format only.
8. Sketches to be drawn on separate sheet / pages in black ink .
9. The Last content in the index to be of references. Acknowledgement to be added in the report.
10. Binding: Spiral binding is preferred for the seminar report. The number of copies are to be prepared by the student are 3 nos. (Student + Guide + Department copy)

9. SUGGESTED LEARNING RESOURCE

Visit to institute library to find the related text books.

Sr. No.	Name of Book	Author	Publication
1	Fashion Encyclopedia	MeherCastellino	Last Three year publications
2	Clothes line	Magazine	Last Three year publications
3	Fiber to fashion	Magazine	Last Three year publications
4	Femina	Magazine	Last Three year publications

10. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment
1	LCD PROJ ECTOR , All labs developed for fashion designing students
2	Demonstrations / Explanations at site by experts and faculty.
3	Observations and collections at site.
4	Interactions with Architect , Engineers, Contractors, technicians, and labours at site.

11. LEARNING WEBSITE AND SOFTWARE

<https://in.pinterest.com>>
<https://www.designersnexus.com>
<https://www.fibre2fabric.com>
<https://www.universityoffashion.com>
<https://www.craftsy.com>

<https://www.style2designer.com>

12. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's) WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Create the confidence of public speaking.	--	--	--	--	--	--	--	2	2	2	--	--	--
CO2	Collect the information and interpret the topics in its roots.	--	3	--	--	--	--	--	--	--	2	--	--	--
CO3	Develop analytical skills that will serve them throughout life.	--	1	--	--	--	--	--	--	--	2	--	--	--
CO4	Maintain the intellectual integrity of speech making.	--	--	--	--	--	--	--	--	2	2	--	--	--
CO5	Suggest and solve problems on relevant topics.	--	2	--	--	--	--	--	--	--	2	--	--	--

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	Ms. N. R. Biyani	Lecturer in DDGM

6D412

(Member Secretary PBOS)

GPA

(Chairman PBOS)

Seminar

COURSE TITLE: Portfolio Development (PRD)**COURSE CODE:6D503****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	Fifth

1. RATIONALE:

The course acquire professional methodology to plan a real fashion portfolio which includes the selection of client from different background. Students practice to skill of art direction to ensure that their story is conveyed in a consistent and powerful way to their client. Portfolio provides a challenging platform to demonstrate their analytical skills necessary for fashion designing. It also able students to design catalogue/ collection depending on various design themes for boutiques and market.

2. COMPETENCY

“Develop client profile with the help of market research, presentation techniques using technical aspect.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE# (PR)	PA (TW)	
1	0	4	5	00	00	50#	50	100
Duration of the Examination (Hrs)						04		

Legends: L- Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-**Practical;

C- Credit; **ESE-** End Examination; **PT-** Progressive Test;**PA-**Progressive Assessment,

OR-Oral Examination, **TW-** Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

- 1 Develop a client profile based on market research.
- 2 Prepare mood board & story board according to client profile/Role model considering current trends.
- 3 Create innovative designs by bringing components of designing to create final design.
- 4 Prepare spec sheet & cost sheet with technical aspect.
- 5 Design Portfolio logically and with illustrations/Pictures/Reading to show creativity & aptitude.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Developing Client Profile	1a. Prepare brain mapping sheet for developing client profile. 1b. Analyze current trends in market for colors, styles, silhouettes etc. 1c. Explain how to select a theme for designing.	Designing For Client-- 1.1 Prepare client profile based on market research. 1.2 Study current trends in colors, styles, silhouettes etc. 1.3 Select a theme for designing.
Unit– II Mood Board& Story board	2a. Explain concept of mood board & story board. 2b. Describe different types of mood & story boards. 2c. Illustrate mood boards & story boards.	Mood board & story board: 2.1 Development of mood board & story board based on client profile. 2.2 Develop mood board for theme based collection also.
Unit– III Design Development Process:	3a Identify different wears suitable for client. 3b Describe design development process. 3c Illustrate final designs for client. 3d Explain process of making portfolio flats. 3e Design Range planning for theme based collection	Design Development Process: 3.1 Design development sheets for clients different wears. (Casual, Formal, Evening, Bridal, Beach, Party, Night wear etc.) 3.2 Select final designs for client. 3.3 Design development sheet for theme based collection. 3.4 Select final designs for theme based collection.
Unit-IV Spec and Cost sheet:	4a. Explain spec and cost sheet. 4b. Illustrate spec sheet with technical aspect. 4c. Prepare spec & cost sheet.	Spec and Cost sheet: 4.1 Develop spec sheets with technical aspects. 4.2 Cost sheet for any two garment.
Unit – V Portfolio Presentation:	5a. Describe process of making portfolio presentation. 5b. Explain design philosophy, project details & requirement of fillers. 5c. Prepare sheets accordingly by using -color, texture, lines, prints. 5d. Prepare Resume as a last spread of portfolio.	Portfolio Presentation: 5.1 Cover Page. 5.2 Design Philosophy 5.3 Project Details. 5.4 Fillers. 5.5 Resume-last spread of Portfolio.

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit	Title of Unit	Teaching	Distribution of Theory Marks
------	---------------	----------	------------------------------

No		Hours	R Level	U Level	A Level	TOTAL
I	Developing Client Profile	03	--	--	--	--
II	Mood Board & Story board	04	--	--	--	--
III	Design Development Process	04	--	--	--	--
IV	Spec and Cost sheet	02	--	--	--	--
V	Design Development Process	03	--	--	--	--
		16	00	00	00	00

Legends: R = Remembrance; U= Understanding; A= Application and above levels
(Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	Exercises on developing Client Profile.	04
2	II	A] Exercises on mood board & story board based on client profile. B] Exercises on mood board & story board based on selected theme.	12
3	III	A]Assignments on design development & final design for any six wears for client. B]Assignments on design development & final design for theme collection.	32
4	IV	Assignment on technical specs & cost sheet for any two garments.	08
5	V	Assignment on finalizing portfolio details & prepare resume.	08
		Note: For selecting theme take inspirations like Nature, Indian & World textile, Festivals, Modern art, Historical Art, Architecture ,current trends in Fashion etc.	
Total			64

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

- 1 Collect pictures of different types of mood boards & story boards based on design themes.

- 2 Collect information for current trends of colors, fabrics, styles etc. through market survey.
- 3 Collect pictures of different wears & themes also.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

- 1 Motivate students to use Coral and Photoshop to prepare portfolio flats.
- 2 Motivate students to use internet and collect pictures of other themes collection.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Fashion Design Illustration –Men	Patrick John Irland	B.T.Batsford ISBN10:0713466235
2	Fashion Design Illustration –Children	Patrick John Irland	B.T.Batsford ISBN10:0713466243
3	Introduction to Fashion Design	Patrick John Irland	B.T.Batsford ISBN10:0713460172
4	Fashion Design Drawing & presentation	John Irland	B.T.Batsford ISBN 0713435194
5	Children's Fashion Illustration	KojiroKumagai	Graphic Sha Publishing Company ISBN10:4766102940
6	Beyond Design	Sandra J.Keser	Garner ISBN-10:1609012267 ISBN-13:978-1609012267

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	Color Medias, Brushes etc. all drawing material	Round & Flat Brushes 0,00 To 12NO, Poster & Pencil Colors 12Shades
2	Drawing Table/ Board	Ms steel square pipe 16 gauge, stands are power coating painted. Knobs for adjustments, with standard size top.

12. LEARNING WEBSITE AND SOFTWARE

<https://en.m.wikipedia.org/wiki/mood--->
www.creativeblog.com/graphic-design
<https://www.pinterest.com/rainmaker88>
https://www.moodfabrics.com/?utm_source=bing&utm_medium=cpc&utm_campaign=Branded&utm_term=%2Bmood%20%2BFashion&utm_content=Mood
https://www.moodfabrics.com/?utm_source=bing&utm_medium=cpc&utm_campaign=Branded&utm_term=%2Bmood%20%2BFashion&utm_content=Mood
<https://www.leaf.tv/articles/how-to-make-a-fashion-mood-board/>
http://r.search.yahoo.com/_ylt=AwrTcdkYOx1Zs_gAzhsPxQt.;_ylu=X3oDMTBBya2cwZmh2BGNvbG8DZ3ExBHBvcwM1BHZ0aWQ

<http://www.howcast.com/videos/501958-what-are-spec-line-sheets-flats-fashion-sketching/>
<https://za.pinterest.com/mmbbeti/sketches-flats-technical-specs/>
<http://fashionista.com/2010/05/required-reading-for-people-who-work-in-fashion-want-to-work-in-fashion-or-simply-love-fashion>
<https://www.youtube.com/watch?v=qPl6K7iovOM>
<https://www.youtube.com/watch?v=I-bez3Rqdwo>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's) WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Develop a client profile based on market research.	-	-	1	-	1	-	-	-	-	-	-	-	-
CO2	Prepare mood board & story board according to client profile/Role model considering current trends.	-	-	2	-	1	-	-	-	-	-	-	2	-
CO3	Create innovative designs by bringing components of designing to create final design.	-	-	3	-	1	-	-	-	-	-	-	2	-
CO4	Prepare spec sheet & cost sheet with technical aspect.	-	-	1	-	1	-	-	-	-	-	-	2	-
CO5	Design Portfolio logically and with illustrations/ Pictures and Reading to show creativity & aptitude.	-	-	1	-	-	-	-	-	-	-	-	3	-

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	M.P. Chavan	Lecturer in DDGM

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Apparel Construction Specialisation Level-II(ACS-II)**COURSE CODE:6D505****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	FIFTH

1. RATIONALE

This course explores students to design, draft, and cut and make blouses for various size of woman client. Considering the current market trend for need based fashion garments and to develop entrepreneur oriented qualities, elevate specialization skills and build up confidence, the course is introduced as an elective. The practices done in this course inculcates proficiency in fashion consultation.

2. COMPETENCY

“Apply the specialization pattern making and demonstrate proficiency in Blouse making.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE@ (PR/OR)	PA (TW)	
0	0	4	4	00	00	50@	50	100
Duration of the Examination (Hrs)				--	--	6	--	

Legends: L- Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-**Practical;

C- Credit; **ESE-** End Examination; **PT-** Progressive Test;**PA-**Progressive Assessment, **OR-**Oral Examination, **TW-** Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

- 1 Develop sari blouse pattern either with bespoke method or with dart manipulation technique.
- 2 Analyze the current market trend in fabric sourcing and style line implementation.
- 3 Design the Indo western style in sari blouse with suitable elements of fashion features for various sizes considering clients physical and working profile.
- 4 Develop practical aspects of clothing manufacture by estimation of cost sheet and price evaluation with profit of designer.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Design, Cut and	1a. Explain the current trends in sari blouse designs and fabric resources.	Design Cut and Make: 1.1 Search a Client. 1.2 Design a blouse considering

Make	1b. Describe the various client profiles with their physique structure and working status. 1c. Draft for various figure challenges. 1d. Prepare the cost sheet as per design and estimated budget. 1e. Construct the designed patterns 1f. Alter the pattern to get good / smart fit. 1g. Evaluate the price as per design considering the profit of the designer as well as the budget of the client. 1h. Maintain the record of work process.	client profile and budget accordingly 1.3 Backless Blouse, Boat Neck and High neck, Chinese collar neck, Spaghetti strap blouse, Cape style blouse, One-side Shoulder blouse and Back button Blouse, and Blouses with latest current trends in fabric, in style line, indo-western style etc. 1.4 Prepare cost sheet. 1.5 Report to the client and approve the design 1.6 Draft, cut, make and finish the designed garment. 1.7 Trial of the garment. 1.8 Alterations if required. 1.9 Feedback of client. NOTE: At least handle Ten clients with various age groups and Sizes with same process, Designs mentioned need to be covered.
-------------	---	---

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
NIL						

Legends: R = Remembrance; U= Understanding; A= Application and above levels (Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	Market survey to know current fashion trends and fabric availability for stimulating designing factor.	08
2	I	Design Blouses according to client profile	10
3	I	Prepare Cost sheet and approval of design from client	04
4	I	Draft, Cut make and finish the garments.	28
5	I	Alterations to maintain standard fit.	04
6	I	Record keeping through project book.	10
TOTAL			64

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

- 1 Collect pictures of client along with sari blouses designed by students.
- 2 Record keeping for receipts of cash.
- 3 Collecting Feedback form from client

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

1. ICT learning
2. Online learning
3. Market survey
4. Industrial and field visit.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Lingerie wear	Ann Hagar	Blakwell ISBN-10:14051185X ISBN-13:978-1405118583
2	Transformation Reconstruction patterns of Mr. Shingo Sato	Mr. Shingo Sato	Shingo Sato
3	Blouse making	DiipKarampuri	-----
4	Metric pattern cutting for women's	Winifred Aldrich	Blackwell science ISBN10:1405102780
5	Pattern Cutting for Lingerie wear	Ann Hagar	Blackwell science ISBN10:140511858X
6	Dress pattern designing	Natalie Bray	Blackwell Scince ISBN:0-632-01881-X
7	Pattern Making	Helen Joseph Armstrong	ISBN:0060403322

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	LCD Projector	LCD Projector with LCD Panel,Lence,Lamp,ceiling or flore installation & Supplied Accesssories
2	Visualizer	PS Scan Camera with internal picture memories ,vertical& horizontal &350 degree head rotation.Led upper light & accessories.
3	Brown paper, Tailors	Stationary material as per requirements

	chalk ,Measuring tape, scissors.	
4	Cutting tools – Shears, Scissors, Dress Makers Shears, Scalloping, shears, Cutting table etc	Scissor-Sharp blades and well proportioned hardness Corrosion and abrasion resistant Sizes: 9/10/11/12-inch Length: 240mm, 260mm, 280mm, 300mm, 8 inch stainless steel blades for scallop shear,
5	Industrial sewing machine	SNLM-Medium weight application ,5500 SPM,5mm stitch length,by kneepressurefoot-13mm
6	Cloth, matching thread , steam press, hand needles, machine needles.	Hand Needles-1-12,18-28,Machine Needles in American size 10 TO 16,cloth-cotton ,silk, khaddar etc(as per need),steam press

12. LEARNING WEBSITE AND SOFTWARE

<https://www.youtube.com/watch?v=SdKXRaPpjkA>

<https://www.youtube.com/watch?v=keqkK12ehrI>

<https://www.youtube.com/watch?v=fFGi78cWUwY>

www.vidyafashionacademy.org/tr-cutting-school-india/

<https://in.pinterest.com/kristincranston/shingo-sato-tr-cutting-school/>

<https://textileapex.blogspot.com/.../fabric-spreading-objects-requirements...>

www.textilestudent.com/discussions-of-the-methods-of-fabric-spreading/

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's)WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Develop sari blouse pattern either with bespoke method or with dart manipulation technique.	--	1	--	--	1	--	--	1	--	--	--	1	--
CO2	Analyze the current market trend in fabric sourcing and style line implementation.	--	--	--	1	1	--	--	--	--	--	--	2	--
CO3	Design the Indo western style in sari blouse with suitable elements of fashion features for various sizes considering clients physical and working profile.	--	1	--	2	--	--	--	--	--	2	-	3	--
CO4	Develop practical aspects of clothing manufacture	--	--	--	--	--	--	--	1	--	2	--	--	--

	by estimation of cost sheet and price evaluation with profit of designer.														
--	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	F.B.Siddiqui	Lecturer in DDGM

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Value Addition Specialization-Level-II (VAS-II)**COURSE CODE:6D507****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	Fifth

1. RATIONALE

This subject introduces students with various hand and machine techniques of value addition used by the garment industries, fashion design houses, manufacturers and retail product developers and understands the standards that maximize the speed as well as the quality of product.

2. COMPETENCY

“Apply an appropriate method of ornamentation technique for a specific end product or fabric.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE@ (PR)	PA (TW)	
0	0	4	4	0	0	50	50	100
Duration of the Examination (Hrs)				-	-	04	-	

Legends: L- Lecture; T- Tutorial/Teacher Guided Theory Practice; P-Practical;

C- Credit; ESE- End Examination; PT- Progressive Test; PA-Progressive Assessment,

OR- Oral Examination, TW- Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

- 1 Design & Troubleshoot problems occurred in motif development , tracing & working of machine embroidery designs.
- 2 Prepare articles of yarn crafting as per trend required.
- 3 Apply the printing techniques of surface embellishment on innovative fashion products
- 4 Develop different designs for the garment components, sleeves, yokes, necklines, cuff etc. using Fabric Texturing method

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I MACHINE EMBRIDERY	1a. Identify required tools & supplies for machine Appliqué and cut work. 1b. Explain safety measure while operating machine for cut work	MACHINE EMBROIDERY 1.1 Introduction to Tools & supplies

CUT WORK MACHINE APPLIQUE	1c. Discuss different types of suitable materials for Appliqué and cut work. 1d. Demonstrate how to layout of design placement on different articles, working of Appliqué and cut work on machine.	1.2 Making, cutting & using templates for machine Appliqué and cut work. 1.3 Precaution tips for working cut work and appliqué 1.4 Suitable fabrics & other materials 1.5 Layout of design placement on different articles
Unit– II YARN CRAFTING- RIBBON WORK , MACRAME, TATTING	2a. Explain the materials used in yarn crafting. 2b. Demonstrate the method of ribbon work, macramé and tatting. 2c. Apply basic terminology for yarn crafting projects. 2d. Illustrate different Yarn Crafting techniques such as macramé, Tatting for constructing projects..	YARN CRAFTING 2.1 Basic terminology, Material & Equipments 2.2 Different types of needles for ribbon work. 2.3 Types of stitches used in ribbon work 2.4 Types of shuttles for tatting. 2.5 Types of knotting for macramé
Unit– III FABRIC PRINTING- SCREEN PRINTING, PHOTO PRINTING.	3a. Explain screen printing and photo printing techniques 3b. State the use of materials used in screen printing and photo printing 3c. Explain the procedure of preparing dyes	FABRIC PRINTING 3.1 Materials and equipments 3.2 Preparation of dyeing 3.3 Procedure of preparing dyes 3.4 Different methods of dyeing and printing (single, double, triple color)
UNIT – IV FABRIC TEXTURING	4a. Explain different types of fabric manipulation techniques 4b. Develop textile material using pleating and ruffling. 4c. Discuss different techniques of making piping, tassels etc.	FABRIC TEXTURING 4.1 Pleating 4.2 Ruffles 4.3 Shirring 4.4 Piping. 4.5 Tassels 4.6 Braids, buttons, ribbons, cording, frills.

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
NIL						

Legends: R = Remembrance; U= Understanding; A= Application and above levels
(Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	Prepare cut work embroidered sleeves & borders for Party wear Design	08
		and Develop motifs for machine appliqué and implement on yoke of Kurti (any 2)	08
2	II	Designing & developing trimmings, accessories by using yarn crafting like ribbon work, tatting and macramé At least one trimming or accessory of ribbon work, tatting and macramé as per trend. Or Design and develop a western top using ribbon work/tatting/ macramé	16
3	III	Implementation of Photo printing on Cushion covers/ mats/ bed sheets/T shirt	08
		Prepare a stole /sari by using screen printing method.	08
4	IV	Design & develop a women's wear and kids wear by using any texturing technique-(pleating, Ruffles, Shirring, Piping, Tassels, Braids, buttons, ,cording, frills)	16
Total			64

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

Following is the list of proposed student activities like.

- 1 Prepare journals of different domestic model of machine embroidery/cut work with specification and cost details.
- 2 Visit to any two local embroidery units for trend forecasting of value addition.
- 3 Analyze the specifications, costs, quality and availability for various types of yarn craft techniques through market research.
- 4 Search the application of different ornamentations techniques on different websites

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

- 1 Demonstration method
- 2 Arrange guided industrial visits to local craft industry
- 3 Motivate students to use internet and collect videos of different art work.
- 4 Expert lecture/workshop

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Patchwork and appliqué-	Pamela Tuddy	Marshall Cavendish ISBN-10:0856852538 ISBN-13:978-0856852534
2	The complete guide to needle work	Readers Digest	Readers Digest Publication ISBN-10:0895770598 ISBN-13:978-0895770592
3	Encyclopedia of Needle work	Theiese De-Dillmont	Benediction classics,2010 ISBN-101849025762 ISBN-13:978-1849025768
4	Indian embroidery-	ChattopadhyayKam aladevi	Wiley Eastern Limited (1977) ISBN-10: 085226111X ISBN-13: 978-0852261118
5	Basic Book of Macrame and Tatting		SBN 10: 0706401522 ISB N 13: 9780706401523 Publisher: Octopus Books, 1973
6	Ribbonwork: The Complete Guide - Technique Guide for Making RibbonFlowersandTrim mings Spiral-bound	Helen Gibb	ISBN-10: 0873497503 ISBN-13: 978-0873497503

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	1.Embroidery hoops, , Embroidery Threads, Carbon paper,ETC.	Needles-1-12,18-28-rings-13-27 cm,high quality anchor brand threads of 8. mts each skein Yellow and black carbon paper –A4 size.,A-4 size butter paper,2 b pencil,
2	2.Cutting tools – Shears, Scissors, Dress Makers Shears, Scalloping, shears, Cutting table etc.	Scissor-Sharp blades and well proportioned hardness Corrosion and abrasion resistant Sizes: 9/10/11/12-inch Length: 240mm, 260mm, 280mm, 300mm, 8 inch stainless steel blades for scallop shear,

12. LEARNING WEBSITE AND SOFTWARE

<https://www.craftsy.com/blog/2014/07/cutwork-embroidery-tutorial/>
<http://www.stitchpiecenpurl.com/cutworkembroidery.htm>
<http://www.threadsmagazine.com/item/3725/beginners-silk-ribboembroidery-five-easy-stitches/page/all>
<http://www.needlework-tips-and-techniques.com/cutwork-embroidery.Htm>
<http://www.needlenthread.com/2009/03/cutwork-pattern-for-hand-embroidery.html>
<http://www.craftsy.com/blog/2014/06/cutwork-lace-embroidery/http://honorbeforevictory.com/tag/cutwork/>
<https://heartycraft.com/blog/>
<https://aprilrosenthal.com/2013/03/08/tutorial-basic-machine-applique-using-fuseable-webbing/>
<http://www.redheart.com/articles/macrame-patterns-and-knots>
<http://www.free-macrame-patterns.com/learn-macrame.html>
<http://www.wikihow.com/Begin-Tatting>
<http://www.womansweekly.com/craft/how-to-transfer-a-photo-onto-fabric11885/>
<http://www.saskiaterwelle.com/online-basic-course-broderie-dart-tambour-dart-tambour-embroidry/>

14. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's)WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
1	Design & Troubleshoot problems occurred in motif development , tracing & working of machine embroidery designs.	-	-	2	-	2	-	1	-	-	2	2	-	-
2	Prepare articles of yarn crafting as per trend required	-	-	2	-	2	-	1	-	-	2	2	-	-
3	Apply the printing techniques of surface embellishment on innovative fashion products	-	-	2	-	2	-	1	-	-	2	2	-	-
4	Develop different designs for the	-	-	3	-	2	-	1	-	-	2	2	-	-

garment components, sleeves, yokes, necklines, cuffs etc. using Fabric Texturing method														
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	Mrs.A.V.Ramaiya	Lecturer in DDGM,G.P.A,Bad

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Computer Aided Pattern Making-Level-II (CAM-II)**COURSE CODE:6D509****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	Fifth

1. RATIONALE

Course provides 3D visualization in fashion designing and recreates the fashion design production process in an entirely digital environment. It empowers students to go to market with their product in fraction of time. It creates Photo realistic 3D rendering of design colors, Surface, textures, and dress design patterns. It enables to develop specialization skills in computer aided fashion designing.

2. COMPETENCY

“Apply fashion illustration by using advance technology of software, to cope up the demands of apparel Industry.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE (PR)	PA (TW)	
0	0	4	4	0	0	50@	50	100
Duration of the Examination (Hrs)				-	-	4	-	

Legends: L- Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-**Practical;

C- Credit; **ESE-** End Examination; **PT-** Progressive Test; **PA-**Progressive Assessment, **OR-**Oral Examination, **TW-** Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

- 1 Design apparel sketch or do any 3D effects for the apparel using suggested software.
- 2 Identify the tools used for designing of all kinds of texture including other trimmings.
- 3 Modify the images and do the images & do the draping for the model by E-photo studio designing with the aid of computers.
- 4 Apply default library and also learn to upload scan textures and mannequins.
- 5 Identify the working with digital spec sheets, developing the design by using default library

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit-I	1a. Identify the use of reach fashion	1.1 Introduction to REACH

Menu commands	studio in Garment Designing. 1b. Explain the importance of Reach fashion studio in garment designing 1c. Mention different menus and sub menus 1d. State the importance of library 1e. Enlist sub menus of file.	fashion studio 1.2 File 1.3 Edit 1.4 special objects 1.5 library 1.6 Setting
Unit-II Working area	2a. Explain the use of light and display mode 2b. State background color impact on image 2c. Identify the contents are found in Design studio	2.1 Introducing Various tools 2.2 Light 2.3 Display Mode. 2.4 Define Show Ratio 2.5 Back Ground color 2.6 Ruler 2.7 Design studio
Unit-III E-style Studio	3a. Explain working of Pick object, creative curve 3b. Mention difference between Texture table and rescale texture	3.1 Pick object, creative curve. 3.2 Edit curve, Creative surface 3.3 Modify clip Border, rescale surface Grid. 3.4 Edit surface Grid, Edit Clip. 3.5 Texture table, rescale texture. 3.6 Create Text. Pick color.
Unit-IV E-Photo Studio	4a. Identify Canvas area 4b. Differentiate between clip image and Edit image. 4c. Explain the importance of Color management	4.1 Set canvas 4.2 Clip Image, Edit image 4.3 Color management, Draping 4.4 Fill color, Pen 4.5 Local Skew, Pick color

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
NIL						

Legends: R = Remembrance; U= Understanding; A= Application and above levels (Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	3D product Visualization, Texture mapping Make 02 assignment.(PO4,PSO3)	12
2	II	Color Reduction and cleaning(PO3) Make 03 Assignments	12
3	II	Color ways and color communication(PO2,PSO3) Make 02 assignments	12
4	II	Design communication, Design and repeat ,fabric design, Spec sheets.(PO4) Make 04 assignments	08
5	III	Develop collection of apparel by taking any theme and cover all the above tools. (PSO3) (05 theme based collection to be get completed from each student)	20
TOTAL			64

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

- 1 Prepare (Industrial method) digitally developed technical sheet and specification sheet.
- 2 Collect the information about the computer aided process of Product development and its documentation in industry(Any two industries)

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

- 1 Field Visit
- 2 Online learning
- 3 Demonstration
- 4 ICT learning.

10. SUGGESTED LEARNING RESOURCE

NOTE: Search online tutorial of related software.

Search similar software if available and find out the difference between the tools.

Display assignment work on internet.

Try to develop library of fasteners, pockets, skirts, laces.etc in default setting of software

Sr. No.	Name of Book	Author	Publication
---------	--------------	--------	-------------

1	Manual Book of Reach Fashion Studio	Microsoft certified	REACH Technology
---	-------------------------------------	---------------------	------------------

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	Software	Computer aided fashion Designing software
2	LCD PROJECTOR, Computer lab ,	Intel processor core i3 or i7 or latest with mother board Intel chipset 41/61/latest with 4 USB,1 serial port, 1 LPT port,2GB RAM DDR III,500 GB Sata Hard disk, 16” or 18.5” LCD/LED monitor, ATX cabinet with SMPS and lock system, DVD writer, Keyboard, USB mouse,1 Gigabit Network card/ latest configuration
3	Scanner Color Printer	

12. LEARNING WEBSITE AND SOFTWARE

<https://www.youtube.com/watch?v=vjzuyaKJyMI>

www.reach-tech.com

<http://www.slideshare.net/SanfieDsouza/reach-fashion-studio>

<http://reachfashionstudio.com>

<http://www.authorstream.com/Presentation/reachtech46-2969278-reach-cad-fashion-studio/>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's)WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Design apparel sketch or do any 3D effects for the apparel using suggested software.	-	-	-	2	-	-	-	-	-	-	-	-	2
CO2	Identify the tools used for designing of all kinds of texture	-	-	3	-	-	-	-	-	-	-	-	-	-

	including other trimmings.													
CO3	Modify the images and do the images & do the draping for the model by E-photo studio designing with the aid of computers.	-	2	-	-	-	-	-	-	-	-	-	-	2
CO4	Apply default library and also learn to upload scan textures and mannequins.	-	-	-	3	-	-	-	-	-	-	-	-	-

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	Mrs. F.B. Siddiqui	Lecturer in DDGM

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Advance Computer Aided Designing(ACD)**COURSE CODE:6D301****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	Sixth

1. RATIONALE

The course is introduced to enhance the design ability with the use of software. The use of graphic software saves the time and increases design creativity.

The course provides the skills for applying Illustrator software in the field of Fashion Illustrations for Designing in garment Industry. Students can work as designer for designing & promoting brands.

2. COMPETENCY

“Design and promote garments with graphic software.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)				Total Credits (L+T+P)				Examination Scheme(Marks)		
								Theory	Practical	Total
L	T	P	C	ESE	PT	ESE (PR)	PA (TW)			
--	--	04	0+0+4	--	--	50#	50			100
Duration of the Examination (Hrs)						04 Hrs.				

Legends: L- Lecture; T- Tutorial/Teacher Guided Theory Practice; P-Practical;

C- Credit; ESE- End Examination; PT- Progressive Test; PA-Progressive Assessment, OR- Oral Examination, TW- Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

1. Develop designing efficiency through graphic software.
2. Scan and expand croquis, develop various designs and export them.
3. Create technical drawings and make pattern brush, symbol library useful for designing.
4. Develop theme wise story boards using all tools.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (in cognitive domain)	Topics & Sub –Topics (Containing Pos & Cos assignment in each Sub -topics)
Unit– I Adobe	1a. Identify the use of Illustrator in Garment Designing	1.1 Introduction to Adobe Illustrator Introducing the

Illustrator	1b. Explain the importance of Illustrator in designing and editing? 1c. Explain different menus and sub menus 1d. Explain importance of property bar	image type 1.2 Bitmap Graphic & Vector Graphic 1.3 Create new file & file type 1.4 Information of Colors 1.5 (CMYK, RGB File size) 1.6 File Save as Save as type AI, PSD, JPEG, Eps, Tiff
Unit– II Introduction & use of basic Tools	2a. Identify Tools of Illustrator 2b. Explain the use of different tools of Illustrator	2.1 Introducing Various tools 2.2 Move tool, Rectangle tool, Rounded Rectangle, Ellipse, Polygon, Star, Flare tool 2.3 Line segment, Arc tool, Spiral, grid, Polar. 2.4 Lasso tool, Magnetic tool
Unit– III introduction to different menus	3a. Explain importance of Filter 3b. Explain how to convert shape ,path, path finder, Stylize, warp. 3c. Describe the process of Import and export images. 3d. Explain the printing procedure	3.1 Importance of Selection, Select menu. 3.2 Introducing of Filter & Application of Filter Menu. 3.3 Convert to Shape, Path, Path finder, Stylize, Warp 3.4 Details of file Menu. 3.5 Details of Effect Menu. 3.6 Import, Export, Image Scanning 3.7 Printing Details, View Menu, Window Menu, Assign Menu, Project
Unit– IV Introduction to Working area.	4a. Identify the effects of different filters. 4b. Explain the use of layers 4c. Explain the use of Filters	4.1 Introducing Layers. 4.2 Create new Layer & Delete Layer. 4.3 Working with Paint Brush & Gradient & Styles. 4.4 Warp, Twirl, Pucker, Bloat, Scallop, Crystallize, Wrinkle tool. 4.5 Create text, Path type & Warp text.
Unit– V Introduction to symbols	5a. Identify the different symbols. 5b. Explain the use of Pen tool in designing 5c. Describe how to edit the images and working pen tool. 5d. Explain how to use the given tools .	5.1 Introducing Symbol. 5.2 Symbol sprayer, Shifter, Scrunched, Size, Spinner, Steiner, 5.3 Screener, Style tool. 5.4 Introducing Pen tool. 5.5 Working with pen tool & Details of editing, & details of path. 5.6 Blend tool, Auto trace tool, Zoom tool & pan. Scissors, Knife tool, Eye Dropper tool

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
NIL						

Legends: R = Remembrance; U= Understanding; A= Application and above levels

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit No.	Practical Exercises (Outcomes in Psychomotor Domain)	Approx. Hrs. Required
1	I	The basics :vector graphics and bitmap images, Color modes , create, save and customize a new file, Tools, -selection,fill&stroke,shapetools,select& move object,arrange layer orders,pentool,type tool.	16
2	II	First Garment: Scan & expand croqui of child ,Lock layer &draw a Dress(add stitch lines,buttons etc.), Export the technical drawing to JPEG format, Scan Croquis of child, toddler.	16
3	III	Technical Drawing Creating Silhouettes-Female Youth croquis Creating a library of basic of Garment shapes Technical drawing-create a Denim jacket using a basic silhouette ,two needle top stitch with corner(pattern brush stroke), place the, sleeve and top stitch Sleeve and reflect, button and complete the front, create the back, add measuring points. Creating Brush Strokes, Masking, female garments symbols, and Male Garment symbols. Croquis of Adult	16
4	IV	Develop theme based story board by using above tools of Adobe Illustrator.	16
TOTAL			64

8. SUGGESTED STUDENTS ACTIVITIES

Following is the list of proposed student activities like.

- 1 Prepare E-journals based on practical performed in laboratory.
- 2 Design some promotional medias for customer.
- 3 Identify customer with his/her profession and design as per requirements.
- 4 Design theme based Mood Board and story board.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

- 1 Arrange field visits to offset printing units/Advertising agencies.
- 2 Motivate students to use internet and collect tutorials of advanced drawing in Adobe Illustrator..
- 3 Arrange department level competition on promotion of product.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Title Of Book	Author	Publication
1	Fashion Designer's Handbook for Adobe Illustrator	Marianne Centner	John Wiley and Sons 1 st edition 1 March 2007 ISBN-10:1405160551 ISBN-13:978-1405160551
2	Illustrator CS6 in simple Steps Paperback	Kogent Learning solution	Dreamtech Press ISBN-10:9350045966 ISBN-13:978-9350045961

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name Of The Equipment	Specification
1	Computer system with the configuration required for Adobe Illustrator software	Intel processor core i3 or i7 or latest with mother board Intel chipset 41/61/latest with 4 USB, 1 serial port, 1 LPT port, 2GB RAM DDR III, 500 GB Sata Hard disk, 16" or 18.5" LCD/LED monitor, ATX cabinet with SMPS and lock system, DVD writer, Keyboard, USB mouse, 1 Gigabit Network card/ latest configuration
2	Latest version of Illustrator software multi users	At least 15 users software
3	Scanner	HP Scan Jet ,flat bed with 4800dpi with scan size 216*311mm for all medias(paper, envelopes, labels) & control panel with scan input modes(front panel), compatibles with operating system 7, 8, 10 windows

12. LEARNING WEBSITE AND SOFTWARE

Insidegraphics.com

<https://www.youtube.com/watch?v=vjzuyaKJyMI>

<http://www.digitalartsonline.co.uk/features/illustration/40-best-illustrator-tutorials/>

<https://www.youtube.com/watch?v=0h4-Bp2EPBA>

<http://www.creativeblog.com/digital-art/illustrator-tutorials-1232697>

<https://helpx.adobe.com/illustrator/tutorials.html>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's) WITH COURSE OUTCOMES (CO's)

Co. No.	Course Outcomes	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P O 10	P S O 1	P S O 2	P S O 3

CO1	Develop designing efficiency through graphic software .	-	-	2	-	-	-	-	-	-	-	-	-	2
CO2	Scan and expand croquis ,develop various designs and export them.	-	-	2	-	-	-	-	-	-	-	-	-	2
CO3	Create technical drawings and make pattern brush ,symbol library useful fo designing.	-	-	2	-	-	-	-	-	-	-	-	-	2
CO4	Develop theme wise story boards using all tools.	-	-	2	-	-	-	-	-	-	-	-	-	2

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	Ms.J.S.Lakade	Lecturer dress designing and garment mfg.

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Fashion Retailing (FRT)**COURSE CODE:6D305****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	SIXTH

1. RATIONALE

Fashion Retailing is going through dramatic upheavals and has opened with the entry as smart career line. It becomes necessary to prepare the generation to cope up with the environment and explore practices and innovative concepts the market is bringing today. Hence the course provides the knowledge to develop basic fashion retail managerial abilities.

2. COMPETENCY

“Implement the market strategy to manage fashion Retailing.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)				Total Credits (L+T+P)	Examination Scheme(Marks)			
					Theory		Practical	
L	T	P	C	ESE	PT	ESE@ (PR/OR)	PA (TW)	100
4	0	0	4	80	20	00	00	
Duration of the Examination (Hrs)				3	1	-	-	

Legends: L- Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-**Practical;

C- Credit; **ESE-** End Examination; **PT-** Progressive Test; **PA-**Progressive Assessment, **OR-** Oral Examination, **TW-** Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

- 1 Analyze the retail organization structure and skills needed to be a successful retailer.
- 2 Identify the market segmentation and loss prevention while distribution of merchandise.
- 3 Compare the innovative promotion mix methodologies for good results in retailing.
- 4 Explore the enterprise management techniques for handling business relations.
- 5 Identify business ethics and social responsibilities

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Retail Merchandising and its growth and expansion	1a. Explain the retail organization structure 1b. Apply the necessary skills for successful retailing 1c. List the various strategies	1.1 Retail Organization Structure 1.2 Skills necessary for successful retailing 1.3 Corporate and store

	<p>applied by the retailers for their success.</p> <p>1d. Compare the non-store retailing with store retailing.</p> <p>1e. Distinguish between multiple unit store and single unit store.</p> <p>1f. Describe/ compare the corporate and store level merchandising functions.</p> <p>1g. Identify the various types of ownership and methods of expansion of retail business.</p> <p>1h. Name the national as well international brands in apparel for various products alike, shirt, men's wear, women's wear, saree, kurti, denim, sportswear, night wear etc.</p>	<p>level</p> <p>1.4 Merchandising functions.</p> <p>1.5 Offsite and on site classification</p> <p>1.6 Store and non-store retailing</p> <p>1.7 Multiple unit store.</p> <p>1.8 Global apparel business.</p> <p>1.9 Emerging domestic apparel business.</p> <p>1.10 Type of ownership</p> <p>1.11 E- Retailing.</p> <p>1.12 Domestic v/s International brand retailing.</p> <p>1.13 National brand v/s Private brand retailing.</p> <p>1.14 Centralization and diversification</p> <p>1.15 Merger and acquisition.</p>
Unit-II Retail Fashion buying, its Distribution and loss prevention	<p>2a. Identify the process of market segmentation.</p> <p>2b. Analyze the sources within the store and outside the source also the market and its current requirements.</p> <p>2c. Describe the elements of fashion buying.</p> <p>2d. Select the market for buying.</p> <p>2e. Choose the domestic/ International market for buying.</p> <p>2f. Explain mark up and mark down terms and the factors to be kept in mind while considering price of the merchandise/pricing.</p> <p>2g. List the characteristics of sales associate.</p> <p>2h. Focus on the strategies for loss prevention.</p> <p>2i. Plan the distribution of merchandise.</p> <p>2j. Analyze the plan for sales and list the essentials for successful sales programme also the profit of the consignment.</p>	<p>2.1 Interpreting customer demand</p> <p>2.2 Market segmentation</p> <p>2.3 Sources within and outside store (Elements of fashion buying).</p> <p>2.4 Analyzing and selecting resources</p> <p>2.5 Buying in domestic and foreign market</p> <p>2.6 Pricing considerations, markup and markdown.</p> <p>2.7 Customer service, characteristic of sales associate and essentials of successful sales programme.</p> <p>2.8 Merchandise distribution and loss prevention.</p> <p>2.9 Profit analysis.</p>
Unit-III Retail promotion	<p>3a. Describe the importance of presentation of merchandise</p>	<p>3.1 Introduction to Promotion mix:</p>

	and visual merchandising. 3b. Explain the importance of fashion show, publicity and advertisement. 3c. Select the method of promotion suitable as per market. 3d. List the different types of promotions, displays and methods of advertising. 3e. Compare publicity with advertising. 3f. Identify the factors influencing promotion mix.	3.2 Fashion Show 3.3 Publicity 3.4 Advertising 3.5 Catalogue sales. 3.6 Selling on the internet. 3.7 Visual merchandising. 3.8 Factors influencing promotion mix.
Unit IV Boutique Management	4a. Explain factors affecting location of boutique 4b. Select the proper layout of a boutique. 4c. Identify raw material sourcing strategies; the process to develop the client relations. 4d. Describe the role of manager and sales person. 4e. Select the proper management for the advertising of boutiques.	4.1 Boutique Management 4.2 Definition, Factors affecting location of boutique. 4.3 Layout 4.4 Raw material sourcing 4.5 Role of manager, sales person 4.6 Advertising mgmt. 4.7 Client relations.
Unit V Business Ethics	5a. Define Business ethics understand its importance. 5b. Describe code of Ethics. 5c. List the social responsibilities.	5.1 Definition 5.2 Areas of ethical concern 5.3 Code of Ethics and social responsibility

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	Retail Merchandising and its growth and expansion	14	6	10	4	20
II	Retail Fashion buying, its Distribution and loss prevention	14	6	10	4	20
III	Retail promotions	14	6	6	6	18
IV	Boutique Management	12	6	6	2	14
V	Business Ethics	10	2	4	2	8
Total		64	26	36	18	80

Legends: R = Remembrance; U= Understanding; A= Application and above levels (Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
NIL			

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

- 1 Report writing on visit to various types of retail stores.
- 2 Compare the working process of various retail formats.
- 3 Collect the information on National and international brands for various products in apparel sector.
- 4 Report writing on the status of any one fashion retail store(Any type) of the place where you live in considering any one product like Saree/ Indian wear/ Western wear/ Night wear/ ethnic wear etc.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

Filed Visit

Expert lecture

ICT learning

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Merchandise Buying and management	John Donnellan	Bloom bury publication India Pvt.ltd,4 th revised edition ISBN-10:1609014901 ISBN-13:978-1609014902
2	Fashion Retailing	Ellein Diamond(Second Edition)	Fair child books 3 rd revised edition (12march 15) ISBN-10:1609019008 ISBN-13:978-1609019006
3	Retailing: An Introduction	Roger Cox	Pearson Education inc. New Delhi2006 ISBN-10:8131704718 ISBN-13:978-8131704714
4	Fashion for profit	Frances Harder	Harder publication,9 th edition (30April2010) ISBN-10:0972776397 ISBN-13:978-0972776394
5	Fashion from	Gini Stephens	Prentice Hall Inc. New York

	Concept to Consumer	fringes	6 th Edition 10 August (1998) ISBN-10:0130806412 ISBN-13:978-0130806413
6	Retail Management	Levyewit 6 th Edition	Mc-Graw Hill higher education 3 rd revised edition ISBN-10:0071240373 ISBN-13:978-0071240376

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	LCD projector	LCD Projector with LCD Panel, Lence, Lamp, ceiling or flore installation & Supplied Accessories

12. LEARNING WEBSITE AND SOFTWARE

1. <http://www.yourarticlelibrary.com/stores/retail-stores-store-based-retailer-and-non-store-retailing/7586/>
2. www.shareyouressays.com/.../what-do-you-mean-by-non-store-based-retailers
3. https://www.blackwellpublishing.com/content/BPL.../9781405149921_sample.pdf
4. <https://www.google.co.in/search?q=retail+formats&oq=retail+formats&aqs=chrome..69i57j0l5.17627j0j8&sourceid=chrome&ie=UTF-8#q=elements+of+fashion+buying+>
5. <http://smallbusiness.chron.com/successful-clothing-boutique-24891.html>
6. <http://www.patternindy.com/2011/08/12/20-tips-for-boutique-owners/www.complex.com/style/2015/06/how-to-open-clothing-store-justin-dean-gentry/>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's) WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Analyze the retail organization structure and skills needed to be a successful retailer and Study the growth and expansion methodology	2	2	--	--	--	--	--	--	--	--	--	--	--

	of retail business.													
CO2	Identify the market segmentation and loss prevention while distribution of merchandise.	1	1	--	--	2	--	--	--	--	--	--	--	--
CO3	Compare the innovative promotion mix methodologies for good results in retailing.	1	1	--	--	--	--	--	--	2	--	--	--	--
CO4	Explore the enterprise management techniques and handling business relations.	1	1	--	--	1	--	--	--	--	--	--	--	--
CO5	Identify business ethics and social responsibilities	--	--	--	--	--	--	2	--	--	--	--	--	--

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	M. P. Chavan	Lecturer in DDGM
2	N.R. Lakhotiya	Lecturer in DDGM

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE- VOCATIONAL TRAINING**COURSE CODE 6D410****PROGRAMME & SEMESTER**

Diploma Programme in which this course is offered	Semester in which offered
Dress Designing and Garment Mfg.	Sixth

1. RATIONALE

Dress Designing and Garment Mfg. program is mainly integrated with practical experiences. A fashion technologist is responsible for the quality supervision, Pattern making, fashion illustration, fashion consultancy, dress designing, fabric surface ornamenting, graphic fashion designing etc. While working in the industry a fashion technologist is employed for supervising production, fashion merchandising, quality control, pattern maker, fashion illustrator, etc. Arrangement of materials, skilled operators and equipments are also the role of a designer. In plant training program will help in enhancing the knowledge and skills of the apparel designer and manufacturer.

2. COMPETENCY

The course content should be taught and implemented with the aim to develop different types of estimating skills so that students are able to acquire following competencies.

(“Establish or relate theoretical knowledge with practical site situations to enhance career and professional skills”)

1. Identify the Industry in apparel manufacturing/ fabric ornamenting/ fashion retailing and relevant sectors.
2. Identify the resources: manpower, material machines and budget for completion of relevant project
3. Identify the product development process with suitable safety measures required for completion of the project.
4. Maintain daily diary to note the observations at the site /sections on daily basis.
5. Prepare a detailed report based on the learning experiences during vocational training.

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme(Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme (Marks)				
				Theory		Practical		Total
L	T	P	C	ESE	PT	ESE (OR)	PA (TW)	100
-	-	4	4	--	--	50#	50	
Duration of the Examination (Hrs)				--	--	--	--	

Legends : **L**-Lecture; **T**-Tutorial/Teacher Guided Theory Practice ; **P**- Practical; **C**- Credits; **ESE**- End Semester Examination; **PT** – **Progressive Test**, **PA**- Progressive Assessment, **OR** –Oral Examination, **TW** - Term Work, # External, @ Internal

4. COURSE OUTCOMES

At the end of studying this course students will be able to: -

1. Identify the Product development processes in industry and develop spirit of enquiry in group.
2. Collect the data and write daily reports of the work on site along with sketches / drawings.
3. Observe problem solving techniques at site by the Engineer In-Charge.
4. Count the contribution of skilled operators, observe arrangement of resources, Machineries, finishing techniques , packing and distribution, sample making and overall culture of apparel or relevant industry.
5. Learn the different processes and their costing and designs by referring details / drawings.
6. Prepare and present the report of Vocational Training work and take safety precautions on site.

5. DETAILED COURSE CONTENTS

Following are the general guidelines for implementation of Vocational training

- 1 Student studying in Final year Dress Designing and Garment Mfg. program is expected to work in a group 4-5 students for vocational training. Each group shall work parallel with a regular employed person of the permitted industry as a trainee in a small industry /apparel mfg. / fabric ornamentation / retailing firms / consultation services or any specialized services for at least one week as decided by the department authorities under the guidance of faculty members. (Preferable, to be undertaken during previous semester break i.e at the end of V Semester exam for 4 weeks duration).

- 2 Further vocational Training work is to be continued weekly and shall be the part of time table for completion of different activities in the further semester as per the curriculum.
- 3 Finally the students in group shall prepare the report of his vocational training under the guidance of the teaching staff members (Maximum 35 pages) which may consists of observations, drawings, sketches, sample calculations / simple designs, processes, procedures, applications, managements, costing aspects. Student should deliver a seminar on his experiences during in plant training.
- 4 Group of students and their guides continue this work of vocational training work for the Sixth semester.
- 5 **Preferable Period :** Vocational Training is to be undertaken during previous semester break i.e in vacation after Fifth Semester examination or in vacation before start of Sixth semester for 4 weeks duration)

6 LIST OF PRACTICAL / LABORATORY EXPERIENCES/ TUTORIALS

S. No.	Unit No.	Practical Exercises (Outcomes in Psychomotor Domain)	Approx. Hrs. required
1	A	<p>Term work</p> <p>Identify the industry. Take concerns and depute the groups along with faculty members. Daily Visits for vocational training, Completion of training by maintaining daily dairy under guidance of site / Industry Engineer and faculty.</p> <p>(Following activities B-I to B IV may also be considered during this period)</p>	<p>32* Hrs- Min) Semester Break Activity. 32 Hours in sixth semester.</p>
2.	B- I	Literature survey and Analysis of data collected on site Planning, preparation & quality control aspects as per the daily dairy.	08
3	B-II	Preparing rough draft along with collected drawings.	

S. No.	Unit No.	Practical Exercises (Outcomes in Psychomotor Domain)	Approx. Hrs. required
		Maps and designs / calculations or tables.	08
4	B-III	Group discussion in presence of guide Give presentation - ppts / models / charts / drawings etc. in a group .	08
5	B-IV	Prepare Final draft with all attachments. Spiral Binding of the vocational training work and term work completion.	08
Total Hours.			32* + 32 = 64 hrs

7 SUGGESTED STUDENTS ACTIVITIES

i) Aspects to be considered for Vocational training / report writing of it.

- Planning, preparation & quality control for various activities and processes.
- Management of materials, labors & equipments,
- To solve the minor industrial problems.
- Develop the Entrepreneurial skills.
- Develop ability to work in a team.
- To enhance the presentation skills
- Project reports preparations & cost analysis,
- To be familiar with financial sources..

II) SUGGESTED AREAS FOR THE VOCATIONAL TRAINING WORKFOR:

DRESS DESIGNING AND GARMENT MFG. GROUP

SR. NO	AREA OF FASHION TECHNOLOGIST
1	PATTERN MAKING
2	APPAREL MANUFACTURING (MEN'S SHIRT AND TROUSERS/

	WOMEN'S KURTIS/ LEGGINGS/ KID'S WEAR/ SAREE BLOUSE DEVELOPER/ PUNJABI DRESS MAKER AND MANY MORE N APPAREL RELATED SECTORS.
3	FASHION BOUTIQUE
4	FASHION RETAILING
5	FABRIC ORNAMENTATION/ VALUE ADDITION
6	VISUAL MERCHANDISING
7	GRAPHIC FASHION DESIGNER
8	FASHION CONSULTANCY/ STYLISTS.

8 SUGGESTED SPECIFIC INSTRUCTIONAL STRATERGIES

- i. Consider Local / Institute problem or problem related to society for providing technical solution.
- ii. Visit the site.
- iii. Take permission of concerned authority.
- iv. Follow Instructions.
- v. Write daily dairy regularly at site.
- vi. Prepare sketches on dairy / on plain pages.
- vii. Collect drawings and leaflets.
- viii. Group discussions.
- ix. Prepare report.
- X Prepare power point presentation for final assessment of vocational training.

A)VOCATIONAL TRAINING REPORT FORMAT

- a. Seminar report shall be in the print form on A-4 size white bond paper.
- b. Typing shall be in Times New Roman with spacing of 1.5 using one side of paper.
- c. Margins: Left = 37.5 mm Right , Top and Bottom = 25mm.
- d. Front page : Titles - TNR 18 bold , other – TNR 14 bold. With Institute Logo.
- e. Inner Pages : Titles –TNR – 14 Bold , other TNR 12 .
- f. Page Nos :Should appear on the right hand top corner of each page starting after index page.
- g. Tables to be preferable in the Text format only.
- h. Sketches to be drawn on separate sheet / pages in black ink .
- i. The Last content in the index to be of references. Acknowledgement to be added in the report.

Binding: Spiral binding is preferred for the Vocational training report. The number of copies are to be prepared by the student are 7 nos. (if, 5 Student + Guide+Department Copy)

A) DAILY DAIRY FORMAT**GOVERNMENT POLYTECHNIC, AURANGABAD****Dress Designing and Garment mfg.Department****VOCATIONAL TRAINING DAILY DAIRY**

Period of Vocational training (4 Weeks) : From :

to:

Address of Industry / Site:-----

DAY NO :

Date:

OBSERVATIONS OF THE DAY

Signature of Student

In-charge

Signature of Engineer

Signature of Guide

Signature of Head of Dept.

9 SUGGESTED LEARNING RESOURCE

Visit to institute library to find the related text books.

Sr No	Title of Book	Author	Publication
1	As per site details / area of vocational training.	Refer Books , I.S. Codes, Hand Books , Standard specifications, Manuals of GovtDepts, National and Inter-national journals.	

10. Major Equipment/ Instrument with Broad Specifications

1. Daily Dairy write up and taking signature of In-charge Engineer.
2. Interactions with Designers, Masters / Engineers, merchandisers, technicians, and labours at site.
3. Report preparation and Final presentation of work done.

11. Learning Websites

Search on WEB for fashionrelated / Industrial sites.

1.www.google.com

2.www.youtube.com

3.websites related to Fashion sites.

**12 MAPPING OF PROGRAMME OUTCOMES (POs) AND PROGRAMME
SPECIFIC OUTCOMES (PSOs) WITH COURSE OUTCOMES (COs)**

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Identify the Product development processes in industry and develop spirit of enquiry in group	--	3	3	3	--	--	--	---	--	--	2	2	--
CO2	Collect the data and write daily reports of the work on site along with sketches / drawings.	--	1	3	3	--	--	--	---	---	--	2	2	--
CO3	Observe problem solving techniques at site by the Engineer In-Charge	---	--	3	3	---	---	--	1	--	--	2	2	---
CO4	Count the contribution of skilled operators, observe arrangement of resources, Machineries, finishing techniques , packing and distribution, sample	--	2	3	3	--	--	---	--	--	--	2	2	--

	making and overall culture of apparel or relevant industry.													
CO5	Learn the different processes and their costing and designs by referring details / drawings	--	3	--	--	--	--	--	2	--	--	2	2	--
CO6	Prepare and present the report of Vocational Training work and take safety precautions on site.	--	3	3	3	--	---	---	---	--	--	2	2	--

Sr No	Name of the faculty members	Designation and Institute
	N.R. Lakhotiya	Lecturer in DDGM, Govt. Polytechnic, Aurangabad
2	M.P. Chavan	Lecturer in DDGM, Govt. Polytechnic, Aurangabad

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Project (PRO)**COURSE CODE:6D411****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	SIXTH

1. RATIONALE

The Project is the high point in the fifth semester of the programme. During the period students utilize all the inputs they have received in the preceding semesters and work for a collection, which culminates in the window display or In house Fashion show.

The entire range of activities commencing from the selection of the theme to developing the designs, searching, styling, pattern making & proto typing is carried out by the students in the Institute itself under the guidance of Internal & External mentors.

The course provides artistic and professional guidelines for the use of various design elements and principles within an outfit and knowledge of worldwide trends blended with forecasting through design process, sourcing, styling, pattern making, accessorizing for graceful theme based presentation.

2. COMPETENCY

“Develops a self motivated attitude by handling the various tasks of dress designing and garment making to meet a creative theme based concept required in the fashion world.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE (OR)	PA (TW)	
0	0	4	4	0	0	50#	100	150
Duration of the Examination (Hrs)				-	-	-	-	

Legends: L- Lecture; T- Tutorial/Teacher Guided Theory Practice; P-Practical; C- Credit; ESE- End Examination; PT- Progressive Test; PA-Progressive Assessment, OR- Oral Examination, TW- Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

1. Apply designing from the practical aspect and discuss inspirations and influences on designing.
2. Establish a theme which is feasible also appropriate for successful implementation.
3. Apply all elements and principle of design in an outfit and Construct garments selecting proper colors, textures, notions and accessories suitable to the theme.
4. Prepare the systematically planned document which answers WHAT, WHY, WHEN, WHERE, WHO, HOW all about the concept of your project.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Introduction to project	1a. Choose an object/an event/an occasion. Decide the aim of the project. 1b. Select the inspirational object or event 1c. Research the data 1d. Collect the information related to the chosen theme 1e. Study the designer working for such type of project/Either select the ideal designer Scrutiny of the data. 1f. Observe all the designs related to the aim of the project. 1g. Review and scrutiny the literature collected from various sites 1h. Edit the literature.	1.1 Theme based innovative wearable collection to be designed & stitched. (minimum Two by each student) 1.2 Inspiration/aim of the project/Concept 1.3 Client profile/board) 1.4 Approx Quick cost (Research and Review of the literature (Record keeping for project preparation
Unit-II Introduction and its implementation in designs	2a. Prepare an Action plan/Calendar 2b. Prepare the theme board. 2c. Collection of material for preparing theme board, mood board, colour board swatch board. 2d. Planning the layout of theme board. 2e. Sketching for design development 2f. Analysis of the designs developed. 2g. Choose / select the designs	2.1 Project plan/schedule(Practical implementation) 2.2 Mood Board/Theme board 2.3 2Colour board 2.4 Swatch board 2.5 Embellishment categoryClothing category 2.6 Illustration/ sketches of collection 2.7 Record keeping for project preparation
Unit-III Interpretation of Designs into pattern making	3a. Draw the flat sketch of the designs selected. 3b. Prepare the detail specification for each part of the garment. 3c. Interpret the designs with pattern making,	3.1 Design details./ technical details 3.2 Specification sheet. 3.3 Record keeping for project preparation
Unit-IV Development of Pattern	4a. Draft the patterns for the garments designed 4b. Lay plan the pattern 4c. Estimate the fabric required 4d. Surface ornamentation planning and marking. 4e. Implementing the process of Surface ornamentation. 4f. Sample Making of the Garment 4g. Testing the garment 4h. Evaluate the fit.	4.1 Drafting Details. 4.2 Sample pattern making in muslin 4.3 Lay planning and marking 4.4 Surface ornamentation/ 4.5 Embellishments if any 4.6 Cost Sheet. & designer brief sheet 4.7 Final Garment

	4i. Alter if required. 4j. Making of the final garment 4k. Finishing the garment	preparation 4.8 Testing the fit as per standards. 4.9 Record keeping for project preparation
Unit-V Promotion of the Design	5a. Select the model 5b. Click the photographs of the models to upload your designs on the internet for promotion 5c. Promote the design through E-media	5.1 Modeling and photography of the designs created 5.2 Promoting the design through E-media 5.3 Record keeping for project preparation

Legends: R = Remembrance; U= Understanding; A= Application and above levels (Revised Bloom's taxonomy)

6. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	Aim of the project, finalizing theme, research on literature, forecasting for style lines, colors and fabrics, market analysis, finalizing client profile, RECORD FOR PROJECT REPORT.	10
2	II	Preparing theme board/ Mood board/ color board/ swatch board, RECORD FOR PROJECT REPORT.	08
3	II	Project plan calendar, Finalizing clothing category, Finalizing Embellishment type, sketching (At least 25-50 illustrations) and finalizing the sketches for two Designs RECORD FOR PROJECT REPORT .	10
4	II	Technical sheets for both the garments, Specification sheets, Full size drafting and making of sample. RECORD FOR PROJECT REPORT.	10
5	III	Alterations on pattern draft if required, Final fabric sourcing, trimmings sourcing, lay planning, marking, embellishment if any, cutting and sewing. RECORD FOR PROJECT REPORT.	14
6	III	Finishing, Wear testing, Alterations if any, modeling and photography, RECORD FOR PROJECT REPORT.	6
7	III	Promotion of design through E-media, RECORD FOR PROJECT REPORT.	6
TOTAL			64

7. SUGGESTED STUDENTS ACTIVITIES

- Form the group of 2(two) students for a project activity.
- Allot the guide (faculty) for each group.
- Decide the topic of project
- Conduct survey/experimentation
- Report writing and presentation

8. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

- 1 Arrange the visit to any fashion house to go through the current fashion
- 2 Video clips of latest fashion show
- 3 Studying and discussing about the design work of various national and International fashion designers
- 4 To list out the popular brand names for various garment sectors and their products
- 5 Guided Learning
- 6 On line learning
- 7 ICT Learning

NOTE:

The project topic/ title should not repeated by group.

Guide should be Senior or experienced faculty

The project topic should selected such that, it should complete in a semester

9. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Fashion Kaleidoscope	MeherCastellino	BPI India Pvt Ltd. ISBN 10-8171671551 ISBN 13-978-8171671557
2	Clothes line	Magazine	
3	Fiber to fashion	Magazine	
4	Femina	Magazine	

10. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	LCD PROJ ETOR , All labs developed for fashion designing students	Intel processor core i3 or i7 or latest with mother board Intel chipset 41/61/latest with 4 USB,1 serial port, 1 LPT port,2GB RAM DDR III,500 GB Sata Hard disk, 16" or 18.5" LCD/LED monitor, ATX cabinet with SMPS and lock system, DVD writer, Keyboard, USB mouse,1 Gigabit Network card/ latest configuration

11. LEARNING WEBSITE AND SOFTWARE

<https://in.pinterest.com>

<https://www.designersnexus.com>

<https://www.fibre2fabric.com>

<https://www.universityoffashion.com>

<https://www.craftsy.com>

<https://www.style2designer.com>

12. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's) WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Apply designing from the practical aspect and	--	--	--	--	1	--	--	1	--	1	1	--	--

	discuss inspirations and influences on designing.														
CO2	Establish a theme which is feasible also appropriate for successful implementation.	--	--	--	--	1	--	--	1	--	1	1	--	--	
CO3	Apply all elements and principle of design in an outfit and Construct garments selecting proper colors, textures, notions and accessories suitable to the theme.	1	3	3	3	1	--	--	1	--	--	2	2	2	
CO5	Prepare the systematically planned document which answers WHAT, WHY, WHEN, WHERE, WHO, HOW all about the concept of your project.	--	--	--	--	--	--	--	2	3	--	--	--	2	

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	N.R.Biyani	Lecturer in DDGM

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: CREATIVE FASHION PRESENTION**COURSE CODE:6D501****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	Sixth

1. RATIONALE:

This course provides knowledge of creative fashion presentations, conceived with an overtone of innovation using show-biz techniques. The course explore the entire spectrum of creative presentation and special event utilized by the fashion industry to capture the attention of specific market and audiences. This course also provides knowledge of various tasks like fashion coordination, management & promotional activities to foster new fashion concepts.

2. COMPETENCY:

“Organize effective Runway fashion shows, Creative events & Displays”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE@ (PR/OR)	PA (TW)	150
3	0	3	06	40	10	50@	50	
Duration of the Examination (Hrs)				02		04		

Legends: L- Lecture; T- Tutorial/Teacher Guided Theory Practice; P-Practical;

C- Credit; ESE- End Examination; PT- Progressive Test; PA-Progressive Assessment, OR-Oral Examination, TW- Term Work; # External, @ Internal, ~ Online Examination

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

1. Identify the role of fashion director and need of observational research and inspiration.
2. Analyze appropriate forecasting of color & fashion trends for developing product.
3. Select appropriate run-way for fashion show& media for publicity.
4. Develop specific Display according to theme.
5. Solve problems occurred during fashion show

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit – Introduction of Creative	1a. Identify the Sources of Inspiration for the job of Fashion Director 1b. Explain the role of Freelance fashion	1.1 Sources of Inspiration – Observational

Fashion Presentation	consultants. 1c. Describe the need of Observational research /Past history/technology in fashion industry.	research /Past history/technology 1.2 Role of Fashion Director 1.3 Responsibilities of fashion Director/Freelance fashion consultants
Unit - II Fashion Forecasting	2a. Describe the haute couture collection. 2b. Explain the stages of color forecasting services. 2c. Prepare trend report for up-coming season.	2.1 The couture, Trend reporting, Fashion trend setter 2.2 Color forecasting & fashion forecasting services
Unit– III Aim And Types of Fashion show	3a. Differentiate between Formal & Informal fashion show. 3b. Explain the importance of Bridal & Charity shows. 3c. Describe Trunk shows, In-store fashion show 3d. Construct miniatures of different Runways with shapes and measurements	3.1 Intro. to fashion show. 3.2 Types of fashion shows Trunk shows, Informal modeling 3.3 Formal fashion show, Bridal and Charity fashion show
Unit– IV Types of Creative Fashion Presentations	4a. Explain different types of Creative Fashion presentations 4b. List out different problems occurring in In-house fashion shows. 4c. Describe the advantages of still life tableau. 4d. Justify with examples need of market week calendars for Industry fashion show 4e. Explain the importance of Visual Merchandising 4f. Identify the different elements & merchandise props of Window Display	4.1 Types of creative fashion presentations 4.2 Continuous informal modeling, Still life tableau, In-house fashion shows 4.3 Industry fashion show, market week shows, market week calendars, trade event 4.4 Introduction to Visual Merchandising 4.5 Types of Displays 4.6 Elements of Displays 4.7 Different merchandise props utilize in Displays.
Unit– V Organizing the Fashion Show	5a. Describe importance of Invitations & mailing, location choices 5b. Sketch Floor plan & Backdrop for fashion show. 5c. Explain the criteria for model selection 5d. Prepare master list for fashion show 5e. Explain Role of backstage captain	5.1 Invitations & mailing, location choices, the Runway ,Garment line up 5.2 Polaroid the garments, show chart, accessorizing with props, model selection, fitting/alterations, backstage captain, and rehearsal/trade

		relations/publicity.
--	--	----------------------

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	Introduction of Creative Fashion Presentation	04	00	02	02	04
II	Fashion Forecasting	08	00	04	04	08
III	Aim and Types of Fashion show	12	02	04	04	10
IV	Types of Creative Fashion Presentations	12	02	04	04	10
V	Organizing the Fashion Show	12	00	04	04	08
Total		48	04	18	18	40

Legends: R = Remembrance; U= Understanding; A= Application and above levels (Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	II	Prepare chart for different sources of inspirations Prepare swatch & color board	02 02
2	II	Evaluate the trends Prepare trend reports. Prepare report on color forecasting for current season	04 02 02
3	III IV II	a) Select a Theme for fashion show b) Design different Runways required for fashion show c) Prepare portfolio on theme based collection d) Calculate required budget for fashion show. e) Prepare a calendar for show.	02 02 02 02 02
4	V	a) Selections of models for fashion show b) Fittings/Alterations accordingly c) Prepare Ring Binder	02 02 04
5	V	a) Accessorizing with props b) Rehearsal c) Publicity of show d) Execution of fashion show	02 02 02 06
6	IV	a) Execution of theme based Display in team (Visual Merchandising) any two	06
Total			48

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

- 1 Analyze the different color & fashion forecasting and develop portfolio on theme based collection for fashion show
- 2 Prepare poster /billboard/leaflet /newspaper advertisement for promoting fashion show.
- 3 Attend runway or fashion show to acquire new fashion idea.
- 4 Visit major manufacturers & merchandisers to get information about fashion trends.
- 5 Organize charity fashion show for spreading some social messages.
- 6 Promote Khadi with a national goal of Make in India.
- 7 Arrange innovative Window Displays according to different themes

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

- 1 Arrange visits to Fashion Houses to understand the product design & development process.
- 2 Arrange fashion show competitions among students.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Creative Fashion Presentation	Polly Guerin	Fair child books 2 nd revised Edition(2004) ISBN-10:1563672502 ISBN-13:978-1563672507
2	Concept to Consumer	Gini Stephens Fringes	Prentice Hall ISBN 0-13-080641-2
3	Beyond Design	Sandra Keiser	Fairchild Books ISBN 978-1-60901-226-7
4	Fashion Advertising & Promotion	Dr.Arthur A. Winters	Fairchild Publication ISBN-87005-452-X
5	Fashion –Contemporary Visual Merchandising	Jay Diamond Ellen Diamond	ISBN0-02-685560-7

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	Computer	Intel processor core i3 or i7 or latest with mother board Intel chipset 41/61/latest with 4 USB,1 serial port, 1 LPT port,2GB RAM DDR III,500 GB Sata Hard disk, 16" or 18.5" LCD/LED monitor, ATX cabinet with SMPS and lock system, DVD writer, Keyboard, USB mouse,1 Gigabit Network card/ latest configuration.

2	Props,Hangers,Dress forms of sizes 8,10,12	Kid's, Women standard size dress forms.
3	Drawing Table/ Board	Ms steel square pipe 16 gauge, stands are power coating painted. Knobs for adjustments, with standard size top.
4	Mannequins	Male female ,Kids

12. LEARNING WEBSITE AND SOFTWARE

1. <http://www.econnectfashion.com>
2. <http://in.pinterest.com>
3. <http://www.pantone.com>
4. www.theguardian.com
5. [Fashion Apps-Fashion Style](#)
6. [Trendstop Fashion Trend Tracker](#)
7. [Fashion Show Apps-Crayola Virtual Fashion Show](#)
8. [Fashion Show Top Model Dress Up](#)

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's)WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Identify the role of fashion director and need of observational research and inspiration..	--	1	--	--	--	--	--	--	--	--	--	--	--
CO2	Analyze appropriate forecasting of color & fashion trends for developing product.	--	1	2	--	--	--	--	--	--	--	--	--	--
CO3	Select appropriate run-way for fashion show & media for publicity.	--	2	1	--	--	--	--	--	--	--	--	--	--
CO4	Develop specific Display according to theme.	--	1	--	--	--	--	--	2	2	--	--	--	--
CO5	Solve problems occurred during fashion show	--	1	--	--	--	--	--	2	2	3	--	--	--

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	A.V.Ramaiya	Lecturer in DDGM,G.P.A,Bad
2	M.P.Chavan	Lecturer in DDGM,G.P.A,Bad

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Apparel Production Process**COURSE CODE:6D502****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	SIXTH

1. RATIONALE

The course provides a thorough view of the managerial as well technical factors influencing the day today operation of an apparel industry. The course also keeps the student aware with various product developments, product plans, costing, its distribution and maintenance of quality in the production. The course creates a vision in students for career opportunities in garment industry and motivates to inculcate capabilities for various roles in the industry.

2. COMPETENCY

“Imbibe panoramic view of the managerial and technological factors which influence to play a role in the day to day operation of a clothing industry.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)			Total Credits (L+T+P)	Examination Scheme(Marks)				Total
				Theory		Practical		
L	T	P	C	ESE	PT	ESE@ (PR/OR)	PA (TW)	
4	0	0	4	80	20	00	00	100
Duration of the Examination (Hrs)				3	1	-	-	

Legends: L- Lecture; **T-** Tutorial/Teacher Guided Theory Practice; **P-**Practical;

C- Credit; **ESE-** End Examination; **PT-** Progressive Test; **PA-**Progressive Assessment, **OR-** Oral Examination, **TW-** Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

- 1 Analyze the process, the structure, the technological environment of the apparel product development.
- 2 Identify the process of developing company calendar by using current and forthcoming design trends in the market .
- 3 Explore the managerial ability skills by identifying the roles of different departments for the smooth running of garment organization.
- 4 Analyze the SAM for apparel product development.
- 5 Identify the quality requirements in apparels and its controlling.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I The product development process.	1a. Explain the organizational structure. 1b. Introduce the various departments in clothing industry 1c. Identify the importance of each and every department for production. 1d. Describe the various sectors in clothing industry. 1e. Differentiate the various sectors and the technological environment of sectors according to type of garment. 1f. Sequentially explain the various apparel product development processes. 1g. Prepare a flow diagram of product development process. 1h. Discuss the role of the production manager in clothing.	1.1 The organization Structure: Manufacturing Structure and its types, Sectors of clothing Industry- Garment types. 1.2 Introduction to production process: Design, Computer aided design, Sample Patterns, Sample Garments, Production Patterns, Grading, Marker Making, Cutting, Assembly, Pressing and Finishing 1.3 Production Department: 1.4 Role of Production manager, 1.5 Intro. To Manufacturing Functions, Service functions, Intro. to Production Engineering, Personnel and training, machinery and equipment maintenance, General maintenance, Technical stores, Control functions, Production planning and control 1.6 1.3.3Intro. to Budgetary control, Intro. to Quality control.
Unit II The Design and operation department	2a. Explain the role of Design department in clothing sector and effect of fashion trends on clothing industry. 2b. Define and describe forecasting and Fashion Trends. 2c. Describe the process of designing and collection planning and various seasons of apparel Industry. 2d. Prepare the company calendar with considering a suitable example and the time table to meet the needs of company calendar. 2e. Identify the roles of clothing as	2.1 Design Department: 2.2 Forecasting, Fashion Trends 2.3 Price structure, 2 Designing 2.4 Collection planning, 2.5 Operation Department: 2.4.1 Company Calendar, seasons, 2.6 Clothing manufacturers, The timing activities

	well textile manufacturers to meet the needs of market in stipulated time.	
UNIT-III Finance and Purchase department	3a. Explain the garment costing and the importance of cost control 3b. Estimate the Cost of a product with suitable example. 3c. Prepare a cost sheet of a garment. 3d. Define the Variable and fixed cost. 3e. Mention the various suppliers required for any clothing industry. 3f. State speculative buying. 3g. Compare store keeping with stock management. 3h. Describe the process of Budgeting and also state how to control budget; the role of a store keeper; the process to place the purchase order 3i. Select the perfect time to place the purchase order. 3j. Develop the purchase order for few trimmings and material required in clothing industry considering suitable example.	3.1 Finance department: 3.2 Budgeting, 3.3 Garment Costing –material. Labor, fixed and variable overheads, others. 3.4 Administration 3.5 Purchase department: 2.3.1 Suppliers, Prices, Progressing, verification, speculative buying 3.6 store keeping and stock management 3.7 Purchase order
Unit– IV Industrial Engineering department	4a. Define and describe the role of an Industrial engineer. 4b. Discuss the various activities an Industrial engineering department has to handle. 4c. Explain the importance of Industrial engineering department. 4d. Mention the different types of production technology. 4e. State the Straight line and synchronal system of garment production. 4f. Differentiate between the section process system and progressive bundle system of garment production process. 4g. Identify the advantages and disadvantages of different systems of production technology. 4h. List the benefits of capacity study and method study 4i. State time and motion study and discuss the process and its	4.1 Definition of Industrial engineering and its need in apparels, Nature of work in IE and the role of the employee. 4.2 Production Technology: Manual system; Section or Process system, Progressive bundle system, straight line or synchronal system 4.3 Basic Techniques of Industrial engineering: 3.2.1 Capacity study, its procedure and its benefits, Method study and its procedure, Time and motion study and steps to do the time study- Operator Performance: Single cycle efficiency, on Standard efficiency(On standard time and Off standard time), Global

	<p>importance; work in progress; process to control work in progress; types of follow ups.</p> <p>4j. Select the type of estimating the efficiency of an operator.</p> <p>4k. Describe the importance to calculate the operators compare the single cycle efficiency with on standard efficiency and Global efficiency.</p> <p>4l. Distinguish between bundle by bundle follow up and bundle diagnosis.</p>	<p>efficiency</p> <p>4.4 Follow ups: Benefits of operator follow ups, Types of follow ups: Bundle by bundle follow ups, Bundle diagnosis.</p> <p>4.5 Work in Progress and its need to control, Managing WIP-Production planning, trims control, Production build up, balancing and cut flow control, Process analysis.</p> <p>4.6 Bill of Material(BOM), Operation Bulletin(OB), SAM</p>
Unit– V Quality Control department	<p>5a. Define Quality.</p> <p>5b. Explain the hierarchy of quality department; the process to inspect the quality of fabric; the methods of Inspection.</p> <p>5c. Draw the organization chart of quality department</p> <p>5d. Describe how to monitor the pattern blocks.</p> <p>5e. Mention the functions of quality control department; major steps taken by quality department to control the quality.</p>	<p>5.1 Definition of Quality, The quality department, Quality audit, Quality monitor, Quality circles</p> <p>5.2 Operation of quality control system</p> <p>5.3 Design: Patterns, Fabric and trim, Pattern grading, Patterns in General, Technology.</p> <p>5.4 Functions of quality control department: Planning, prevention, inspection and monitoring the effects.</p> <p>5.5 Standards- General, Specific;</p> <p>5.6 Inspection- 100% and Sampling</p>

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
I	The product development process	16	08	08	04	20
II	The Design and organization department	16	06	08	06	20
III	The finance and purchase department	08	04	04	04	12
IV	Industrial Engineering department	16	06	06	04	16
V	Quality Control department	08	04	04	04	12
Total		64	28	30	22	80

Legends: **R** = Remembrance; **U**= Understanding; **A**= Application and above levels
(Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
NIL			

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

Field Visit

On line learning

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Ready to wear apparel Analysis	Patty Brown	Pearson 4 th edition 11 August 2013 ISBN-10:0133109895 ISBN-13-978-0133109894
2	Introduction to Clothing manufacture	Gerry Cooklin	Blackwell publication ISBN-978-0-632-05846-4
3	Introduction to clothing production management	A.J.Chuter	BSP Professional books
4	Material management in clothing production	David J. Taylor	John Wiley and Sons(27 Sept 1991) ISBN-10:0632028963 ISBN-13:978-0632028962

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	LCD PROJ ETOR,COMPUTER LAB	Intel processor core i3 or i7 or latest with mother board Intel chipset 41/61/latest with 4 USB,1 serial port, 1 LPT port,2GB RAM DDR III,500 GB Sata Hard disk, 16" or 18.5" LCD/LED monitor, ATX cabinet with SMPS and lock system, DVD writer, Keyboard, USB mouse,1 Gigabit Network card/ latest configuration

12. LEARNING WEBSITE AND SOFTWARE

<http://www.docstoc.com/docs/72143811/Industrial-Engineering-for-Apparel-Industry--PDF>

<http://www.scribd.com>

<http://www.vault.com/industries-professions/industries/fashion-and-apparel.aspx>

https://www.apparelsearch.com/apparel_industry.html

<http://www.fibre2fashion.com/news/apparel-news/>

https://en.wikipedia.org/wiki/Apparel_industry_

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's)WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Analyze the process, the structure, the technological environment of the apparel product development.	2	2	--	1	--	--	--	--	--	--	--	--	--
CO2	Identify the process of developing company calendar by using current and forthcoming design trends in the market.	--	2	--	1	2	--	--	--	--	--	--	--	--
CO3	Explore the managerial ability skills by	2	--	--	--	--	--	--	--	--	--	--	--	--

	identifying the roles of different departments for the smooth running of garment organization.													
CO4	Analyze the SAM for apparel product development.	1	3	--	--	--	--	--	--	--	--	--	--	--
CO5	Identify the quality requirements in apparels and its controlling.	2	2	--	--	--	--	--	--	--	--	--	--	--

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	N. R. Biyani	Lecturer in DDGM

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Apparel Construction Specialization Level-III (ACS-III)**COURSE CODE:6D506****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	SIXTH

1. RATIONALE

This course explores students to design, draft, and cut and make uniforms for various corporate sectors. The course is focused on the designing and making need based uniforms to elevate specialization skills. This practice boosts to build confidence and develop entrepreneur oriented abilities.

2. COMPETENCY

“Apply the specialization pattern making abilities for mixed client profiles and enable an individual to concentrate and demonstrate proficiency in Uniform making and develop entrepreneurial qualities.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)				Total Credits (L+T+P)				Examination Scheme(Marks)		
								Theory	Practical	Total
L	T	P	C	ESE	PT	ESE (PR/OR)	PA (TW)			
0	0	4	4	0	0	50#	50			100
Duration of the Examination (Hrs)				-	-	4	-			

Legends: L- Lecture; T- Tutorial/Teacher Guided Theory Practice; P-Practical;

C- Credit; ESE- End Examination; PT- Progressive Test; PA-Progressive Assessment, OR- Oral Examination, TW- Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

1. Analyze the current market trend in fabric sourcing and style line implementation for Uniforms in various sectors.
2. Design the Uniforms for various age groups considering clients working profile.
3. Draft paper patterns step by step through the selection of appropriate style, the choice of fabric& then construct uniforms.
4. Develop practical aspects of clothing manufacture by estimation of cost sheet and price evaluation with profit of designer.

5. DETAILED COURSE CONTENTS

NOTE: Use of basic block set of standard size is permissible for practical exams.
(Basic set includes Bodice block, Skirt block & sleeve block only.)

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
	1a. Explain the current trends	Design, cut & make:

Unit-I Design, Cut and Make	in uniform designs and fabric resources. 1b. Describe the various client profiles with their physique structure and working status. 1c. Design the uniforms considering the private/public, corporate ethics, occupation, functions and requirements of the client. 1d. Draft for various figure challenges. 1e. Prepare the cost sheet as per design and estimated budget. 1f. Construct the designed patterns 1g. Alter the pattern to get good / smart fit. 1h. Evaluate the price as per design considering the profit of the designer as well as the budget of the client. 1i. Maintain the record of work process.	1.1 Search clients to design uniforms for different sectors. 1.2 Design uniforms considering clients age group & working status.(for Hospitals/schools/Hotels/Colleges/Corporate sectors etc.) 1.3 Prepare cost sheet 1.4 Report to the client & approve the designs. 1.5 Draft, cut ,make& finish the designed uniforms. 1.6 Trial of uniforms. 1.7 Alterations if required. 1.8 Feedback of client. NOTE: 1. Design and make for at least three clients with various sectors for uniforms with same process. 2. Theoretical input wherever necessary should be provided by the guide teacher.
--	--	---

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
NIL						

Legends: R = Remembrance; U= Understanding; A= Application and above levels
(Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	Measurement Survey for Uniforms, Drafting Uniform Block	8
2	I	Market survey to know current fashion trends and fabric availability for uniforms of different sectors.	6
3	I	Design uniforms according to client profile	10
4	I	Prepare Cost sheet and approval of design from client	6
5	I	Draft, Cut make and finish the uniforms	20
6	I	Alterations to maintain standard fit.	4
7	I	Record keeping through project book.	10
TOTAL			64

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

- 1 Collect different types of fabric Swatches according to different textures, print, cost etc.
- 2 Market Survey to collect five different designs of Uniform for different sectors.
- 3 Prepare journals based on practical performed in laboratory. (Small scale details and full size paper patterns.)
- 4 Collect pictures of client along with dress designed by students.
- 5 Record keeping for receipts of cash.
- 6 Collecting Feedback form from client

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

- 1 Motivate students to use internet and collect name, addresses, catalogues, rates, specifications of manufacturers for Uniforms.
- 2 Industrial visits to Uniform industry.
- 3 Demonstrate machine settings, cutting & sewing.
- 4 Arrange Workshop of Expert for stitching guidelines for Uniforms.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Metric pattern cutting for women's	Winifred Aldrich	Blackwell science ISBN 10 : 1405102780
2	Metric pattern cutting for children	Winifred Aldrich	Blackwell science ISBN 10 : 140518292X
3	Lingerie wear	Ann Hagar	ISBN 13 :978-1405118583
4	Drafting patterns	Natalie Bray	ISBN13 :978-0632065011
5	Pattern Making	Armstrong	ISBN 13:978-0060403324
6	Art Of Sewing	Annna Jacob Thomas	Ubs Publisher & distributors Ltd. ISBN:8185944326

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
---------	-------------------	---------------------

1	OHP Projector, Visualizer, Internet	Kid's, Women standard size dress forms.
2	Brown paper, Tailors chalk, measuring tape, scissors.	Stationary, equipments/ pattern making tools
3	Cloth, matching thread, juki machine press, hand needles, machine needles,	SNLM-Medium weight application, 5500 SPM, 5mm stitch length, by knee pressure foot-13mm,

12. LEARNING WEBSITE AND SOFTWARE

- <https://www.youtube.com/watch?v=SdKXRaPpjkA>
- <https://www.youtube.com/watch?v=keqkK12ehrI>
- <https://www.youtube.com/watch?v=fFGi78cWUwY>
- www.vidyafashionacademy.org/tr-cutting-school-india/
- <https://in.pinterest.com/kristincranston/shingo-sato-tr-cutting-school/>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's) WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Analyze the current market trend in fabric sourcing and style line implementation.	--	1	--	--	1	--	--	1	--	--	--	--	--
CO2	Design the western look garments for various age groups considering clients physical and working profile.	--	--	--	1	1	--	--	--	--	--	2	3	--
CO3	Draft paper patterns step by step through the selection of appropriate style, the choice of flattering fabric & then construct garment.	--	1	3	3	--	--	--	--	--	2	--	3	--
CO4	Develop practical aspects of clothing manufacture by	--	2	--	--	--	--	--	1	--	2	--	2	--

	estimation of cost sheet and price evaluation with profit of designer.													
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	Ms. N.R. Biyani	Lecturer in DDGM
2	Ms. P.J. Lanjewar	Lecturer in DDGM

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Value Addition Specialization-Level-III (VAS-III)**COURSE CODE:6D508****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	Sixth

1. RATIONALE:

This course offers a unique opportunity to learn, absorb and harness the rich, creative and diverse art heritage of India. This course explores the main practices in various textile surface treatments. It focuses on age-old, traditional art stories from India's many subcultures to maximize creative and intellectual potential in the space of textile design and equip upcoming designers with a database of contacts and resources they can utilize throughout their career.

2. COMPETENCY

“Develop textile surfaces, accessories, products and trimmings by applying different embellishing techniques for proficiency in value adding of a product and build entrepreneurial capabilities.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)				Total Credits (L+T+P)	Examination Scheme(Marks)				Total
					Theory		Practical		
L	T	P	C	ESE	PT	ESE@ (PR)	PA (TW)	100	
0	0	4	4	--	--	50#	50		
Duration of the Examination (Hrs)				--	--	04	00		

Legends: L- Lecture; T- Tutorial/Teacher Guided Theory Practice; P-Practical;

C- Credit; ESE- End Examination; PT- Progressive Test; PA-Progressive Assessment, OR- Oral Examination, TW- Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

1. Design, select, use and blend an appropriate current method of Tambour art for the specific end product or fabric.
2. Apply Toda embroidery for developing articles.
3. Develop a Collection of kids wear using Banjara Indian tribal art.
4. Prepare festive women wear by using Pipli, Indian tribal art.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I TAMBOUR	1a. Classify and name the different material for Ari and	TAMBOUR EMBROIDERY- Ari and Zardozi.

EMBROIDERY- Ari and Zardozi.	<p>Zardozi,Pitta, bead &sequins work.</p> <p>1b. Compile the stitch techniques used in zardozi,pitta work</p> <p>1c. Implement tambour embroidery work and pitta work in different embroidery Designs.</p> <p>1d. Differentiate between zardozi and ari work</p> <p>1e. Explain the history of Ari , Zardozi and pitta work</p>	<p>1.1 History of Ari and Zardozi.</p> <p>1.2 Zardozi types, Zardozi design, Fabric, types of sequence beads, design development</p> <p>1.3 Identify defects, remedies, stain and removal methods</p> <p>1.4 Frame fitting and it's precaution for Ari</p> <p>1.5 Practicing of locking, starting and finishing of different stitches.</p> <p>1.6 Pitta, bead &sequins work</p> <p>1.7 Different tools and material required for pitta work</p>
Unit– II TODA EMBROIDERY	<p>2a. Explain the history of Toda Embroidery</p> <p>2b. Identify the color & motifs used in Toda Embroidery.</p> <p>2c. Describe different types of stitches used in Toda Embroidery.</p>	<p>TODA EMBROIDERY-</p> <p>2.1 The history of Toda Embroidery and Different types of stitches used in Toda Embroidery</p> <p>2.2 Types of motifs, color and threads used in Toda Embroidery</p>
Unit– III BANJARA EMBROIDERY	<p>3a. Explain the history of Banjara Embroidery</p> <p>3b. Describe different types of stitches used in Banjara Embroidery</p> <p>3c. State the use of different motifs, materials, color and thread used in Banjara Embroidery</p>	<p>BANGARA EMBROIDERY</p> <p>3.1 The history of Banjara Embroidery</p> <p>3.2 Different types of stitches used in Banjara Embroidery</p> <p>3.3 Types of motifs, materials color and thread used in Banjara Embroidery</p>
Unit – IV PIPLI WORK OF ORISSA	<p>4a. Explain the history of Pipli work of Orissa</p> <p>4b. Describe different types of stitches used in Pipli Embroidery.</p> <p>4c. Explain the material, color & motives used in Pipli work.</p>	<p>PIPLI WORK OF ORISSA</p> <p>4.1 The history of Pipli work of Orissa</p> <p>4.2 Different types of stitches used in Pipli work of Orissa</p> <p>4.3 Types of motives, materials color and thread used in Pipli work</p>

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
NIL						

Legends: R = Remembrance; U= Understanding; A= Application and above levels
(Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	Designing & development of Indian Bridal wear using Tambour art work.	20
2	II	Prepare a Collection of men's wear by using Toda, Indian tribal art.	12
3	II	Prepare a Collection of kids wear by using Banjara Indian tribal art.	16
4	II	Prepare a festive wear (women) by using Pimpili, Indian tribal art.	16
TOTAL			64

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

- 1 Prepare journals of different application of Tambour art work pictures.
- 2 Visit to different malls for trend forecasting of value addition.
- 3 Analyze the specifications, costs, quality and availability for various types of Locally famous value addition techniques
- 4 Search the application of different ornamentations techniques on different websites.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

- 1 Arrange guided industrial visits to local craft industry
- 2 Motivate students to use internet and collect videos of different art work.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Patchwork and appliqué-	Pamela Tuddy	Marshall Cavendish ISBN-10:0856852538 ISBN-13:978-0856852534
2	The complete guide to needle work	Readers Digest	Readers Digest Publication ISBN-10:0895770598 ISBN-13:978-0895770592
3	Encyclopedia of Needle work	Theiese De-Dillmont	Benediction classics,2010 ISBN-101849025762 ISBN-13:978-1849025768
4	The art TAMBOUR beading and embroidery	Lesley Coidan	GMC publication ISBN-10:1784943290 ISBN-13:978-1784943295
5	Traditional Embroideries of India	Shailaja D. Naik	ISBN 81-7024-731-4 A.P.H .PUBLISHING corporation, New Delhi Bottom of Form

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	1.Embroidery hoops, Frame for Zari & Ari, Embroidery Threads, Carbon paper,ETC.	Needles-1-12,18-28-rings-13-27 cm,high quality anchor brand threads of 8. mts each skein Yellow and black carbon paper –A4 size.,A-4 size butter paper,2 b pencil,
2	2.Cutting tools – Shears, Scissors, Dress Makers Shears, Scalping, shears, Cutting table etc.	Scissor-Sharp blades and well proportioned hardness Corrosion and abrasion resistant Sizes: 9/10/11/12-inch Length: 240mm, 260mm, 280mm, 300mm, 8 inch stainless steel blades for scallop shear,
3	3.Domestic sewing model/Industrial sewing machine	SNLM-Medium weight application ,5500 SPM,5mm stitch length, by kneepressurefoot-13mm,

12. LEARNING WEBSITE AND SOFTWARE

- 1 <http://www.thesewingdirectory.co.uk/bead-embroidery-tutorial/>
- 2 <http://umacheenu.blogspot.in/2012/06/banjara-embroidery-i-have-started-new.html?m=1>
- 3 <http://ranjana-craft-blog.blogspot.in/2014/11/banjara-embroidery-unique-combination.html?m=1>
- 4 <http://www.indian-heritage.org/artcraft/stitches.html>
- 5 <http://needlecrazy.blogspot.in/2006/09/toda-embroidery.html?m=1>
- 6 <http://googleweblight.com/i?u=http://www.utsavpedia.com/motifs-embroideries/the-culture-and-future-of-aari-7.work/&grqid=ifFpRF2L&hl=en-IN>
- 7 <http://www.utsavpedia.com/motifs-embroideries/zari-the-ultimate-precious-metal-weaving-art/>
- 8 <https://strandofsilk.com/journey-map/odisha-%28orissa%29/pipli-applique/motifs-and-colours>
- 9 <http://gaatha.com/pipli-village-applique-work/>
- 10 <https://strandofsilk.com/journey-map/odisha-%28orissa%29/pipli-applique/production-technique>

13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME SPECIFIC OUTCOMES (PSO's)WITH COURSE OUTCOMES (CO's)

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Design, select, use and blend an appropriate current method of Tambour	--	--	2	--	--	-	--	--	--	3	3	--	--

	art for the specific end product or fabric.													
CO2	Apply Toda embroidery for developing articles.	--	--	2	--	--	--	--	--	--	3	3	--	--
CO3	Develop a Collection of kids wear using Banjara Indian tribal art.	--	--	2	--	--	-	--	--	--	3	3	--	--
CO4	Prepare festive women wear by using Pimpili, Indian tribal art.	--	--	2	--	--	-	--	--	--	3	3	--	--

Course Curriculum Design Committee

Sr. No.	Name of the Faculty members	Designation of the Institute
1	Mrs. A. V.Ramaiya	Lect.DDGM,GPA

(Member Secretary PBOS)

(Chairman PBOS)

COURSE TITLE: Computer Aided Pattern Making-Level-III (CAD-CAM-III)**COURSE CODE:6D510****PROGRAMME & SEMESTER:**

Diploma Programme in which course is offered	Semester in which offered
Dress Designing and Garment Mfg.	SIXTH

1. RATIONALE

The application of the software Pattern making, grading and laying is common in garment industries today. Manual Pattern making, grading and laying is replaced with computer aided work which saves time and concentrates on accuracy and perfection. The course provides the advanced training to achieve skills to operate the functions and tools of the software and supports you to be along with the technical world.

2. COMPETENCY

“Develop high tech savvy in the field of garment manufacturing.”

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (Hours/ Credits)				Total Credits (L+T+P)				Examination Scheme(Marks)		
								Theory	Practical	Total
L	T	P	C	ESE	PT	ESE@ (PR)	PA (TW)			
0	0	4	6	0	0	50@	50			100
Duration of the Examination (Hrs)				-	-	4	-			

Legends: L- Lecture; T- Tutorial/Teacher Guided Theory Practice; P-Practical;

C- Credit; ESE- End Examination; PT- Progressive Test; PA-Progressive Assessment, OR- Oral Examination, TW- Term Work; # External, @ Internal, ~ Online Examination.

4. COURSE OUTCOMES

At the end of studying this course students will be able to:

- 1 Create pattern making through computer aided technology.
- 2 Grade the patterns through CAD-CAM and minimize consumption of the time required.
- 3 Develop markers with various fabric prints and types of layouts and minimize consumption of resources.
- 4 Prepare portfolio of Pattern making, grading and marking for few style lines.

5. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes (Cognitive Domain Only)	Topics and Sub- Topics
Unit –I Pattern Making	1a. Develop the skills to make patterns and samples. 1b. Draft different patterns with the	1.1 Pattern Making 1.2 Pattern Making for Men, Women and Kids(Any

	help of the software tools for Men, Women and Kids 1c. Make pattern alterations required	two for each) 1.3 Pattern Alterations 1.4 Digital printing for samples
Unit-II Grading	2a. Develop enlarged and reduced size of the pattern made for Men, Women and Kids with the help of software tools.	2.1 Grading 2.2 Grading the pattern drafted for Men, Women and Kids (Two each)
Unit-III Marker making	3a. Explain the process of digital marker making and types of spreads for marker making 3b. Minimize the consumption of material. 3c. Develop the marker making on stripes and plaids 3d. Demonstrate the block fusing 3e. Prepare sample patterns of various marker making for cutting the patterns	3.1 Marker making 3.2 Automatic marker making 3.3 NC Cut path Optimization 3.4 Stripe/plaid matching 3.5 Block Fusing 3.6 Digital output for sample cutting.
Unit-IV Developing port folio for pattern making and marker making	4a. Develop the buyer/client based port folios. Style line base portfolios, wearable based portfolios. 4b. Estimate the cost of the product and develop the cost sheet as per the bulk order.	4.1 Port folio making with the help of various tools studied. 4.2 Develop marker making portfolio as per the order of the buyer in various size ratios for any two to three style lines.

6. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

Unit No	Title of Unit	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	TOTAL
NIL						

Legends: R = Remembrance; U= Understanding; A= Application and above levels (Revised Bloom's taxonomy)

7. LIST OF PRACTICAL / LABORATORY EXPERIENCES/TUTORIALS

Sr. No.	Unit	Title Practical/ Lab Work/Assignments/ Tutorials	Hours
1	I	Pattern Making For Men	08
2	II	Pattern Making For Women	08
3	II	Pattern Making For Kids	08
4	II	Pattern Alterations for all the patterns	06

		developed	
5	III	Grading of the Pattern developed for Men Women and Kids	08
6	III	Marker making for single size for the pattern developed in pattern making.	08
7	III	Port folio making as per the buyer order in different size ratio for bulk order	12
8	IV	Preparing Cost sheet	06
TOTAL			64

8. SUGGESTED STUDENTS ACTIVITIES

Other than class room and laboratory activities following are the suggested guided co-curricular student's activities which need to be undertaken to facilitate the attainment of various course outcomes of this course. The students are required to maintain portfolio of their experiences which he/ she will submit at the end of the term.

- 1 Prepare industrial method digitally developed technical sheet and specification sheet for any four garments.
- 2 Prepare a report on process of computer aided Product development and its documentation in industry.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which a teacher can use to facilitate the attainment of course outcomes.

1. Field visit.
2. Industry visit
3. Online learning
4. Arrange expert workshop.
5. Experiential learning.

10. SUGGESTED LEARNING RESOURCE

Sr. No.	Name of Book	Author	Publication
1	Manual Book of Reach Pattern making and Grading	Microsoft certified	REACH Technology

11. LIST OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED:

Sr. No.	Name of Equipment	Brief Specification
1	LCD PROJECTOR, Computer lab ,	Intel processor core i3 or i7 or latest with mother board Intel chipset 41/61/latest with 4 USB, 1 serial port, 1 LPT port, 2GB RAM DDR III, 500 GB Sata Hard disk, 16" or 18.5" LCD/LED monitor, ATX cabinet with SMPS and lock system, DVD writer, Keyboard, USB mouse, 1 Gigabit Network card/ latest configuration

12. LEARNING WEBSITE AND SOFTWARE

- 1 Rich piece Pattern Making Software.
- 2 Techno piece Pattern Making Software.
- 3 TukaCAD. Software

**13. MAPPING OF PROGRAMME OUTCOMES (PO's) AND PROGRAMME
SPECIFIC OUTCOMES (PSO's)WITH COURSE OUTCOMES (CO's)**

Sr. No.	Course outcome	POs										PSOs		
		1	2	3	4	5	6	7	8	9	10	01	02	03
CO1	Create pattern making through computer aided technology.	--	--	--	2	1	--	--	--	--	--	--	--	3
CO2	Grade the patterns through CAD-CAM and minimize consumption of the time required.	--	--	--	1	1	--	--	--	--	--	--	--	1
CO3	Develop markers with various fabric prints and types of layouts and minimize consumption of resources.	--	--	--	1	--	--	--	--	--	--	--	--	1
CO4	Prepare portfolio of Pattern making, grading and marking for few style lines.	--	--	--	1	--	--	--	--	--	--	--	--	2

Course Curriculum Design Committee

Sr.	Name of the Faculty	Designation of the Institute
No.	members	
1	N.R. Biyani	Lecturer in DDGM

(Member Secretary PBOS)

(Chairman PBOS)

Government Polytechnic Aurangabad

BOARD OF STUDIES

Sr. No.	Names of Dignitaries	Designation
1.	Shri. Sudhir T. Deshpande Bemco Sleepers, Aurangabad	Chairman
2.	Shri. Verma M.N. Nandadeep Building Center, Aurangabad	Member
3.	Shri. Baban Shinde Siemens India Ltd Aurangabad	Member
4.	Shri. Narsapur S.A. Maruti Care point MIDC, Aurangabad	Member
5.	Shri. Darade S.M. Manomay Services, Aurangabad	Member
6.	Shri. Masalekar P.S. Endurance Ltd, Waluj, Aurangabad	Member
7.	Mrs.Agrawal A.S. Akarshan Boutique ,Aurangabad	Member
8.	Shri. A.J.Surwade AIR, Aurangabad	Member
9.	Shri. Samadhan G. Rupnar AIR, Aurangabad	Member
10.	Dr. Anand Pawar Dy. Secretary, MSBTE , Aurangabad	Member
11.	Shri. Vidolkar S.V. Maha Active Engineers Pvt. Ltd, Aurangabad	Member
12.	Heads of all programme	Member
13.	Shri. S. S. Ragte In charge, CDIC	Member Secretary

Government Polytechnic Aurangabad

(PROGRAMME WISE BOARD OF STUDIES (Dress Designing and Garment Mfg.

Sr. No.	Names of Dignitaries	Designation
1.	Prof.MS. J.S. Lakade Head of DDGM, Govt. Polytechnic Auranagabad	Chairman
2.	Prof. S. S Ragte C.D.C Incharge, Govt. Polytechnic Auranagabad	Member (CDIC)
3.	Ms. Anvita Agrawal (Industry Expert) Director Akarshan Boutique, Aurangabad	Member
4.	Shri Kiran Sakla (Industry Expert) Director Sakla Uniforms, Aurangabad	Member
5.	Smt. Chetna Shetty (Academician) Lecturer in MGM & Freelance Designer	Member
6.	Smt. Priyanka Somani Director Kalyani Creation, Auranagabad	Member
7.	Smt. Swati Khandagle (Alumni Member) HOD, Beou Monde College of Fashion, Aurangabad	Member
8.	Smt. Tuba Mirza (Alumni Member) Guest Lecturer at different fashion Institute, Aurangabad.	Member
9.	MS. N.R. Biyani Lecturer in DDGM	Member
10.	Ms. A. V. Rammaiya Lecturer in DDGM	Member
11.	Ms. P. J. Lanjewar Lecturer in DDGM	Member
12.	MS. A. L. Rode Lecturer in DDGM	Member
13.	Ms. M.P. Chavan Lecturer in DDGM	Member Secretary Programme

Government Polytechnic Aurangabad

EXAMINATION COMMITTEE

Sr. No.	Names of Dignitaries	Designation
1	Dr. Vinod Mohitkar - Director,MSBTE ,Mumbai	Chairman
2	Shri. F A, Khan Principal, Govt. Polytechnic, Auranagabd	Invitee
3	Shri. D. N. Nathe Principal, Govt. Polytechnic, Nashik	Member
4	Smt. Madhuri Ganorkar - Head of Applied Mechanics, Govt. Polytechnic, Aurangabad	Member
5	Smt. Jayashri Patil - Head of Civil Engineering	Member
6	Dr. P. T. Kale Controller of Exam, Govt. Polytechnic, Aurangabad	Member Secretary