



ALAGAPPA UNIVERSITY

(A State University Established in 1985)
Karaikudi - 630003, Tamil Nadu, India



2017 Accredited with A+ Grade by NAAC (CGPA : 3.64)	2018 MHRD Govt. of India Graded as Category - 1 & Granted Autonomy	2018 UGC University Grants Commission Swachh Campus Rank : 4	2018 MHRD GOVERNMENT OF INDIA Rank : 28	2019 NATIONAL INSTITUTIONAL RANKING FRAMEWORK Rank : 28	2019 QS India Rank : 20 BRICS Rank : 104 Asia Rank : 216
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ALAGAPPA INSTITUTE OF SKILL DEVELOPMENT



B.Voc., FASHION TECHNOLOGY

[Choice Based Credit System (CBCS)]

[For the candidates admitted from the academic year 2019-2020]

**B.Voc. PROGRAMME
FASHION TECHNOLOGY**

under

**CHOICE BASED CREDIT SYSTEM (CBCS)
&
CREDIT FRAMEWORK FOR SKILL DEVELOPMENT (CFSD)**

PROGRAMME STRUCTURE

(2019-'20 Batch onwards)



ALAGAPPA INSTITUTE OF SKILL DEVELOPMENT

ALAGAPPA UNIVERSITY

(Accredited by NAAC with A+ Grade (CGPA 3.64) in the Third Cycle
Graded as Category-I University and Granted Autonomy by MHRD - UGC
2019: QS India Rank – 20, QS BRICS Rank – 104, QS ASIA Rank – 216)

KARAIKUDI – 630003

Tamil Nadu



B.VOC. FASHION TECHNOLOGY

PROGRAMME OBJECTIVES

- To offer skill / vocational curriculum adhere to the National Occupational Standards (NOS) towards improving the employability of the youth and industrial revolution of the Country.
- To create strong linkage with respective Sector Skill Council (SSC), Industries and academia to offer and vet the progress of the pedagogical process of Skill Vocational training

PROGRAMME SPECIFIC OBJECTIVES

- To inculcate the students with Technical, Generic and Industry specific skills related to Fashion Technology for better employment possibilities and to open avenues for self-employment.
- To empower the students in terms of career goals, decision making and livelihood options.

OUTCOME

The curriculum of the B.Voc. (Fashion Technology) Programme enables the students to become any of the below mentioned Job Roles:

- Sewing Machine Operator (AMH/Q0301)
- Fashion Designer (AMH/Q1201)
- Industrial Engineer (AMH/Q 2001)
- Boutique Manager (AMH/Q1910)

The above mentioned job roles are designed by the Apparel Made-ups and Home Furnishing Sector Skill Council (AMHSSC). It is an authorized Sector Skill Council (SSC) by NSDC for evolving and assessing proficiencies of skills of trainees for the apparel sector, made-ups and home furnishing in their respective subject areas.



ELIGIBILITY:

- i) **For Admission:** Students already acquired NSQF certification Level 4 in a particular industry sector / at school level.
- ii) A pass in the Higher Secondary Examination (Academic / Vocational Stream) conducted by the Government of Tamil Nadu, or an examination accepted as equivalent thereto (like PUC) by the Syndicate, subject to such conditions as may be prescribed therefore.
 - Provided that the candidates who have passed the qualifying examination with Science group shall be considered for 1/2 of seats in B.Voc (Software Development) and 1/2 of seats for other subject students.
- iii) Candidates who have passed vocational programme at the higher secondary stage through Open and Distance Learning (ODL), for example, from the National Institute of Open Schooling, State Open Schools, or equivalent.
- iv) Candidates qualifying from Polytechnics with equivalent qualification to higher secondary.

DURATION:

The course is for a period of three years. Each academic year shall comprise of two semester viz. Odd and Even semesters. Odd semesters shall be from June / July to October / November and Even Semesters shall be from November / December to April /May. There shall be not less than 90 working days which shall comprise 450 teaching clock hours for each semester. (Exclusive of the days for the conduct of University end-semester examinations).

i) The B.Voc. Course is for a period of three years.

The B.Voc. Course has single entry and multiple exit points. **Thus, the Students can opt to leave** (if passed the examinations) in the following stages with appropriate Certificate / Diploma / Advanced Diploma / B.Voc. Degree as indicated in Table 1:



Table 1. B.Voc. Programme duration and credit framework with exit points

NSQF Level	Skill Component Credits	General Education Credits	Total Credits for Award	Normal Duration	Exit Points / Awards
7	108	72	180	Six Semesters	B.Voc. Degree
6	72	48	120	Four Semesters	Advanced Diploma
5	36	24	60	Two Semesters	Diploma
4	18	12	30	One Semester	Certificate

- ii. **For the Degree (B.Voc):** The candidates shall have subsequently undergone the prescribed course of study for a period of not less than three academic years, passed the examinations prescribed and fulfilled such conditions as have been prescribed therefore.
- iii. **For the Advanced Diploma:** The candidates shall have subsequently undergone the prescribed course of study for a period of not less than two academic years, passed the examinations prescribed and fulfilled such conditions as have been prescribed therefore.
- iv. **For the Diploma:** The candidates shall have subsequently undergone the prescribed course of study for a period of not less than one academic year, passed the examinations prescribed and fulfilled such conditions as have been prescribed therefore.



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ALAGAPPA UNIVERSITY, KARAIKUDI.
 SYLLABUS UNDER CBCS PATTERN (w.e.f. 2019-20)
B.Voc. (FASHION TECHNOLOGY)

Course Code: 301

Year: I

NSQF Level	Sem.	Part	Course Code	Course Name	Credits Skill (S) / General (G)		Theory / practical	Hrs. / Week	Marks		Total
					S	G			Int	Ext	
					NSQF Level – 4 : Certificate						
I	I		9BV1T1	Tamil Chemozhiyum Tamilarkalin Panmugathiranum	-	3	T	3	25	75	100
	II		9BV1E1	English Skills for Career Development	-	3	T	3	25	75	100
	IV		9BV1G1	Life Coping Skills	-	4	T	4	25	75	100
			9BF1G2	Practical - Office Automation - Lab	-	2	P	2	25	75	100
	III		9BF1C1	Core-I- Textile Science	5	-	T	5	25	75	100
			9BF1P1	Core-II- Practical – Fashion Illustration Lab	4	-	P	4	25	75	100
			9BF1C2	Core -III - Sewing Techniques	4	-	T	4	25	75	100
			9BF1J1	NSQF Level – 4 Job role - Sewing Machine Operator (AMH/Q0301)@	5	-	P	5	100	--	100
			Sub-Total			18	12				
		Total for Semester - I			30			30	-	-	800
NSQF Level – 5 : Diploma											
II	I		9BV2T1	Ilakkanamum Padaipilakkiyamum	-	3	T	3	25	75	100
	II		9BV2E1	Grammatical and Technical English	-	3	T	3	25	75	100
	IV		9BV2G1	Environmental Studies *	-	2	T	2	25	75	100
			9BV2G2	Advanced Communicative English @	-	2	P	2	100	--	100
			9BV2G3	Practical – CAD - Lab- I	-	2	P	2	25	75	100
	III		9BF2C1	Core - IV - Principles of Pattern Making and Grading	5	-	T	5	25	75	100
			9BF2P1	Core - V - Practical – Principles of Pattern Making and Grading - Lab	4	-	P	4	25	75	100
			9BF2C2	Core - VI - Introduction to Fashion Technology	4	-	T	4	25	75	100
			9BF2J1	NSQF Level – 5 Job role - Fashion Designer (AMH/Q1201) @	5	-	P	5	100	--	100
		Sub-Total			18	12					
		Total for Semester – II			30			30	--	--	900



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ALAGAPPA UNIVERSITY, KARAIKUDI.**

SYLLABUS UNDER CBCS PATTERN (w.e.f. 2019-20)

B.Voc. (FASHION TECHNOLOGY)

Course Code: 301

Year: II

Degree	Sem	Part	Course Code	Course Name	Credits Skill (S) / General (G)		Theory / practical	Hrs. / Week	Marks		Total
					S	G			Int	Ext	
NSQF Level – 6 : Advanced Diploma	III	IV	9BV3G1	Interview Techniques & Interpersonal Communications @	-	5	P	5	25	75	100
			9BV3G2	Practical - Apparel Accessories and Surface Ornamentation – Lab	-	4	P	4	25	75	100
				Non-Major Elective – I	-	2	-	3	25	75	100
				Self - Learning Course –I-MOOCs –I %	-	(E)	-	-	--	--	--
		V	9BV3G3	Extension Activities #	-	1	P	-	100	-	100
		III	9BF3C1	Core - VII - Apparel Merchandising	5	-	T	5	25	75	100
			9BF3P1	Core - VIII - Practical – CAD - Lab – II	5	-	P	5	25	75	100
			9BF3P2	Core – IX - Practical – Garment Construction Lab – Kids wear	5	-	P	5	25	75	100
			9BF3C2	Core – X Fashion Retailing and Visual Merchandising	3	-	T	3	25	75	100
				Sub-Total	18	12					
			Total for Semester - I	30+	(E)		30	--	--	800	
	IV	IV	9BV4G1	Professional Etiquettes	-	4	T	4	25	75	100
			9BF4G1	Apparel Costing and Export Management	-	4	T	4	25	75	100
				Non-Major Elective – II	-	2	-	3	25	75	100
			9BV4G3/ 9BV4G4/ 9BV4G5	Value Education / Manavalakalai Yoga / Introduction to Gender Studies * @	-	2	P	2	25	75	100
				Self-Learning Course - IV - MOOCs -II %	-	(E)	-	-	--	--	--
III		9BF4C1	Core - XI - Textile Processing	4	-	T	5	25	75	100	
		9BF4P1	Core – XII - Practical - Garment Construction Lab – Adult wear	4	-	P	4	25	75	100	
		9BF4P2	Core - XIII - Practical – Textile Processing Lab	3	-	P	3	25	75	100	
		9BF4P3	Domain study @	2	-	P	-	25	75	100	
		9BF4J1	NSQF Level – 6 Job role - Industrial Engineer (AMH/Q 2001) @	5	-	P	5	100	--	100	
		Sub-Total	18	12							
		Total for Semester – II	30			30	--	--	900		



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B.Voc. (FASHION TECHNOLOGY)

Course Code: 301

Year: III

Degree	Sem	Part	Course Code	Course Name	Credits Skill (S) / General (G)		Theory / practical	Hrs. / Week	Marks		Total		
					S	G			Int	Ext			
NSQF Level – 7: B.Voc. Degree	V	IV	9BV5G1	Entrepreneurship / Start-up Skills @	-	4	P	4	25	75	100		
			9BV5G2	Quantitative Aptitude #	-	4	P	4	100	--	100		
			9BV5G3	Accounting Skills @	-	4	P	4	25	75	100		
		III	9BF5C1	Core-XIV- Garment Quality Testing and Assurance	5	-	T	5	25	75	100		
			9BF5E1/ 9BF5E2	Elective I – Wardrobe planning and Clothing Care (or) Indian Traditional Textiles and Costumes	5	-	T	5	25	75	100		
			9BF5P1	Core - XV- Practical – CAD - Lab -III	4	-	P	4	25	75	100		
			9BF5P2	Core –XVI - Practical – Textile Testing – Lab	4	-	P	4	25	75	100		
		Sub-Total					18	12					
		Total for Semester – I					30			30	--	--	700
	VI	IV	9BV6G1	Corporate Grooming and Finishing Skills @		4	P	4	25	75	100		
			9BV6G2	Fundamentals of Digital Marketing		4	T	4	25	75	100		
			9BS6G3	Comprehensive Study #		4	P	-	100	--	100		
		III	9BF6E1/ 9BF6E2	Elective II – Practical - Fashion Draping Lab/ Fashion Photography Lab	4	-	P	4	25	75	100		
			9BF6E3/ 9BF6E4	Elective III – Practical - Home Textiles Lab/ Garment Construction Lab –Knit Wear	3	-	P	4	25	75	100		
			9BF6I1	Industrial Internship with Project	6	-	P	9	25	75	100		
			9BF6J1	NSQF Level – 7 Job role - Boutique Manager (AMH/Q1910) @	5	-	P	5	100	--	100		
		Sub-Total					18	12					
		Total for Semester – II					30			30	--	--	700
Total Credits (B.Voc. Degree Programme)					180								

* Syllabus of Affiliated Colleges of Alagappa University will be followed

Fully-internal Course – Examination will be conducted internally

@ External Examination will be conducted as Viva-voce Examination

% Self-Learning Course – MOOCs – Extra Credits (E) – Extra credits earned through MOOCs

Non-Major Elective Courses:

Sem.	Course Code	Non-major Elective Course Name	Credits	Hrs. / Week	Marks		Total
					Int.	Ext.	
III	9BF3N1	Non-major Elective – I : Fundamentals of Apparel Designing	2	3	25	75	100
IV	9BF4N2	Non-major Elective – II : Organisation of Garment Unit	2	3	25	75	100



General Component

Theory

Semester-I			
Course Code: 9BVT1	தமிழ்ச் செம்மொழியும் தமிழர்களின் பன்முகத்திறமும்	Credits: 3	Hours: 3
நோக்கம்	<ul style="list-style-type: none"> ➤ மொழிபற்றியும் தமிழ்ச் செம்மொழி மற்றும் உலகச் செம்மொழி பற்றியும் அறிதல். ➤ சங்க இலக்கியங்களில் தமிழர்களின் ஆடை அணிகலன்கள் கலைகள் குறித்த பதிவுகளை அறிதல். 		
அலகு 1	<p>செம்மொழி</p> <p>மொழிவிளக்கம்-மொழிக்குடும்பங்கள்-உலக இந்திய மொழிக்குடும்பங்கள்-திராவிட மொழிக்குடும்பம்-செவ்வியல் விளக்கம்- உலகச்செம்மொழிகள், இந்தியச் செம்மொழிகள் அறிமுகம்- செம்மொழித் தகுதிகளும் வரையறைகளும் -தமிழின் தொன்மைச் சிறப்புகள்- தமிழ்ச்செம்மொழி நூல்களும் தனித்தன்மையும்-செம்மொழிமுயற்சியும் வளர்ச்சியும்.</p>		
அலகு 2	<p>இலக்கியங்களில் ஆடைகள்</p> <p>ஆடை குறிக்கும் பெயர்கள்-ஆடை வகைகள்-ஒற்றை ஆடை, இரட்டை ஆடை, வண்ணஆடை, தழை ஆடை, நூலாடை, பட்டாடை, மேலாடை அணியும் வழக்கம்-பெண்கள், ஆண்களுக்குரிய ஆடைகள்-காலத்துக்கு ஏற்ற ஆடை- ஆடையில் வேலைப்பாடு-போர்வை-ஆடை வெளுத்தல்.</p>		
அலகு 3	<p>இலக்கியங்களில் அணிகலன்கள்</p> <p>அணிகலன் விளக்கம்-அணிகலன் வகைகள்-ஆண்கள் அணிவது-பெண்கள் அணிவது-குழந்தைகள் அணிவது-நவமணிகள் போன்ற அணிகலன்கள் பற்றிய பதிவுகள்-பிறப்போடு அணிகலன்கள் (சங்கு, தந்தம் மற்றும் சிப்பி)</p>		
அலகு 4	<p>இலக்கியங்களில் கலைகள்</p> <p>இசைக்கலை-ஒவியக்கலை-நடனக்கலை-சிற்பக்கலை-கட்டடக்கலை-இலக்கியக்கலை-கலைகளைப் போற்றுதல் போன்றவை.</p>		
அலகு 5	<p>இலக்கியங்களில் பல்துறைச் சிந்தனைகள்</p> <p>அறிவியல்-வானியல்-பொருளாதாரம்-வாணிபம்-மருத்துவம்-மேலாண்மை சோதிடம்-கல்வி-விருந்தோம்பல் என இலக்கியங்களில் காணலாகும் பல்துறைப்பதிவுகள்.</p>		
<p>பார்வை நூல்கள்</p> <p>மு.சண்முகம்பிள்ளை, (2004). சங்கத் தமிழர் வாழ்வியல். சென்னை: உலகத் தமிழாராய்ச்சி நிறுவனம்.</p> <p>முனைவர் மு.சந்தானம், (1998). தமிழர் பண்பாடு. மதுரை: அருளானந்தர் கல்லூரி.</p> <p>முனைவர் பாக்கியமேரி, (2012). தமிழின் செம்மொழிப்பண்புகள். சென்னை: அஞ்சனச்சிமிழ்ப்பதிப்பகம்.</p> <p>மயிலைசீனிவேங்கடசாம, (2003). தமிழர் வளர்த்த அழகுக் கலைகள். சென்னை: நாம் தமிழர் பதிப்பகம்.</p> <p>இராகவன், தமிழர் அணிகலன்கள்.</p>			
மாணவர் பெறும் திறன்	<ul style="list-style-type: none"> ➤ தமிழ்ச் செம்மொழி பற்றியும் உலகச் செம்மொழிகள் பற்றியும் அறிவர். ➤ இலக்கியங்களில் ஆடை, அணிகலன் பற்றியும் அறிவர். ➤ கலைகள் மற்றும் பல்துறைச்சிந்தனைகளைக் குறித்த அறிவை பெறுவர். 		



General Component

Theory

Semester – I			
Course Code : 9BV1E1	English Skills for Career Development	Credits: 3	Hours: 3
Objectives	<ul style="list-style-type: none"> ➤ To impart the knowledge about Grammar rules, Parts of Speech, Verbs and Tenses of English language. ➤ To develop the Listening, Speaking and Reading Skills of the students to communicate in formal and informal situations. 		
Unit-I	Parts of Speech in English: Noun, Pronoun, Adjective, Verb, Adverb, Preposition and Conjunction.		
Unit-II	Tenses: Present Past and Future.		
Unit-III	Listening: Active listening –Barriers to listening –Listening and note taking – Listening to announcements – Listening to news on the radio and television.		
Unit-IV	Speaking: Word stress and rhythm –Pauses and sense groups – Falling and rising tones – Fluency and pace of delivery – Art of small talk – Participating in conversations – Making a short formal speech – Describing people, place, events and things – Group discussion skills and telephone skills.		
Unit-V	Reading: Theory and Practice – Scanning – Surveying a textbook using an index – reading with a purpose – Making predictions – Understanding text structure – Locating main points – Making inferences – Reading graphics – Reading critically – Reading for research.		
Reference and Text Books:-			
Anderson Kenneth, Joan Maclean & Tony Lynch. (2008). <i>Study Speaking - A Course in Spoken English for Academic Purposes</i> . New Delhi: Cambridge University Press India.			
Krishnaswamy, N. (2014). <i>Active English Grammar and Usage</i> . New Delhi: Macmillan Publisher India Pvt. Ltd.			
Sasikumar, V., Kiranmai Dutt, P. & Geetha Rajeevan. (2007). <i>A Course in Listening and Speaking I & II</i> . New Delhi: Cambridge University Press India.			
Sasikumar, V., Kiranmai Dutt, P. & Geetha Rajeevan. (2015). <i>Communication Skills in English</i> . India: Cambridge University Press and Mahatma Gandhi University year of publishing.			
Tony Lynch, (2008). <i>Study Listening - A Course in Listening to Lectures and Not –taking</i> . New Delhi: Cambridge University Press India.			
Outcomes	After Completing this course, the students are able to: <ul style="list-style-type: none"> ➤ Understand the usage of parts of English grammar in real life situations. ➤ Comprehend the essential skills of communicative English such as, Listening, Speaking and Reading 		



General Component

Theory

Semester – I			
Course Code : 9BV1G1	Life Coping Skills	Credits: 4	Hours: 4
Objectives	<ul style="list-style-type: none"> ➤ To understand the concepts, processes and practices of life skills. ➤ To develop the competence in applying life skills towards effective learning and planning for career. ➤ To provide orientation in Life Coping Skills. 		
Unit-I	Self-Concept, Self Acceptance and Personality Development Concept and definition of Self-Esteem, Factors influence Self-Esteem, Low Vs High Self-Esteem, Step to raise Self Esteem, Definition of Self of Self Concept, Characteristics of the Self-Concept, Introduction, Definition and Theoretical perspective of self-Acceptance, Benefits of Self-Acceptance, Characteristics and Elements of Personality and Identity of the Individual.		
Unit-II	Goal Setting Definition of Goal Setting, Different types of Goals, Importance of Goal setting, Obstacles to set Goals and Steps to Goal Setting.		
Unit-III	Coping Skills: Depression, Fear, Anger and Failure Definition, Symptoms, Causes and Impact of Depression, How to overcome Depression, Theoretical Input of Fear, Kinds of Fear, Coping with Fear, Ways to overcome Fear, Consequence of Anger, Managing Anger, Steps toward Anger Management, Positive Attitude towards Failure, Coping with Failure.		
Unit-IV	Time management and Stress Management Meaning and Importance of Time Management-Time factor-Steps for Avoiding Lateness Problems-Tips for time management. Meaning and Kinds of Stress -Types of Stress-How does Stress affect you- Source of Stress-Responses to Stress -Good, Bad and Ugly forms of Stress-How to manage stress-Commandments for Managing Stress.		
Unit-V	Team Work Meaning of Team Work-Needed qualities for working as a Team-Team Learning: Questioning. Valuing Diversity – Communicating - Learning Review.		
Reference and Text Books:- Xavier Alphones, S.J. (2004). <i>We Shall Overcome - A Textbook on Life Coping Skills</i> . Chennai: ICRDCE Publication.			
Outcomes	After Completing this course, the students are able to: <ul style="list-style-type: none"> ➤ identify their conflict styles and the basic values of self and others in order to develop meaningful inter-personal relationships in different environments. ➤ inculcate a positive mindset and a humanistic attitude. 		



General Component

Practical

Semester – I			
Course Code : 9BF1G2	Office Automation - Lab	Credits: 2	Hours: 2
Objectives	<ul style="list-style-type: none"> ➤ To impart the principles of Office Automation and the features of MS-Office package ➤ To enable the students towards effective usage of Office Automation package 		
A. MS-Word			
<ol style="list-style-type: none"> 1. Create a document file for your Resume. 2. Create a document file for a Leave Letter. 3. Use of Header & Footer, Bullets & Numbering in a document. 4. Create class Time Table using Table option in word – Use different table formats. 5. Create mail and cover using Mail Merge feature. 			
B. MS-Excel			
<ol style="list-style-type: none"> 1. Create a spreadsheet to Calculate Student Marks Total and average. 2. Create a spreadsheet for Tax Calculation. 3. Use Math Functions in cells. 4. Create a spreadsheet for Sorting a Database. 5. Draw Chart – use different formats. 			
C. MS-PowerPoint			
<ol style="list-style-type: none"> 1. Design a Slide Show to explain C data types / operators and control statements. 2. Design a Slide Show for your College function. 			
Outcomes	After Completing this course, the students are able to: <ul style="list-style-type: none"> ➤ understand the dynamics of tools for office automation ➤ work effectively with MS – Word, MS-Excel and MS-PowerPoint 		



Skill Component

Theory

Semester – I			
Course Code : 9BF1C1	Core – I - Textile Science		Credits: 5
		Hours: 5	
Objectives	<ul style="list-style-type: none"> ➤ To understand the different fibers, yarn and fabric process. ➤ To study the fiber properties, manufacturing process, and its application in textiles. 		
Unit-I	FIBRES CLASSIFICATION Introduction to the Fibers - Classification of Textile Fibers- Natural and Manmade fibers, Characteristics - Primary and Secondary properties of Textile Fibers. Identification of textile fibers.		
Unit-II	FIBRES MANUFACTURING PROCESS Manufacturing Process, Properties, Uses, application of Fibers. Natural fibers - Cotton, Linen, Jute, Silk, Wool. Regenerated fibers -Viscose Rayon, Acetate Rayon. Manmade fibers- Nylon, Polyester, Polyamide, Acrylic.		
Unit-III	SPINNING TECHNOLOGY Spinning –Spinning methods, Yarn Properties - yarn twist (S&Z directions), count and strength. Mechanical Yarn Formation- Blending, Opening, Cleaning, Doubling, Carding, Combing, Drawing, Roving. Chemical Spinning – Wet, Melt & Dry spinning of filament yarns. Yarn Types - Ply Yarn, Cable yarn, double yarn, novelty yarns and its uses.		
Unit-IV	WEAVING Weaving – Definition, Preparatory process, sequence of weaving, Parts and functions of loom – Primary and secondary motions of a loom. Elements of Weaving – Design, Draft and Peg Plan. Basic Weaves – Plain, Twill, Satin. Novelty weaves - Jacquard and Dobby.		
Unit-V	KNITTING AND NON-WOVENS Definition - Classification of Weft Knitting. Weft Knitting Structure – Plain, Purl, Rib, Interlock. Warp Knitting Structure – Tricot, Raschel, Crochet. Other Processes – Nonwoven and its techniques for preparing nonwovens, Felting, Fusing, Bonding, Lamination, Netting, Braiding.		
Reference and Text Books:-			
Corbmann, B.P. (2005). <i>Textiles – Fibre to Fabric</i> . New Delhi: McGraw - Hill International Edition. Klein, W.G. (1988). <i>The Technology of Short Staple Spinning</i> . Manchester: Textile Institute. Marjory L. Joseph. (1988). <i>Essentials of Textiles</i> . New York: Holt Rinehart & Winston publishers. Norma R. Hollen. & Jane Saddler. (1952). <i>Modern textiles</i> . Minneapolis M.N: Burgess Publishing. Seema Sekhri, (2016). <i>Text book of fabric Science - Fundamentals of finishing</i> . New Delhi: PHI Publication Private Ltd. Sushma Gupta (et al.). (2009). <i>Text Book of Clothing and Textiles and Laundry</i> . New Delhi: Kalyani Publishers.			
Outcomes	The students get insight knowledge in <ul style="list-style-type: none"> ➤ Understand the raw materials and production process involved in both natural and manmade fibre. ➤ The students are easily identifying the different types of fabric available in market. 		



Skill Component

Practical

Semester – I			
Course Code : 9BF1P1	Core - II - Fashion Illustration – Lab	Credits: 4	Hours: 4
Objectives	<ul style="list-style-type: none"> ➤ To study the elements & principles of design and its application in garment designing. ➤ Design the garments based on theme and apply in different rendering techniques. 		
<ol style="list-style-type: none"> 1. Understanding Human Anatomy and studying the different body parts in detail. 2. Blocking the human body, 8½, 10 and 12 heads, front, back and ¾ profiles. 3. Drawing stick figure, conversion of stick figure into fleshy figure for male and female, forming a fleshy figure & incorporating garment. 4. Face analysis - Draw eyes, nose, lips ears with different views. 5. Draw different views of hand, Leg and feet. 6. Draw different views of hand, Leg and feet. 7. Draw different face shape – Round, oval, rectangular, trapeze form. 8. Different types of Hair style. 9. Fashion accessories – hats, waist line, necklines and sandals. 			
Outcomes	<p>The students will be able to</p> <ul style="list-style-type: none"> ➤ Draw the different head theory which helps them to do the illustration. ➤ Study the different types of collars sleeves, pockets, yokes, neck designs which make them to do unique designs. 		



Skill Component

Theory

Semester – I			
Course Code : 9BF1C2	Core - III - Sewing Techniques	Credits: 4	Hours: 4
Objectives	<ul style="list-style-type: none"> ➤ To study about sewing machine parts functions and its applications. ➤ To know the specialized machines used in garment industry. 		
Unit-I	Introduction to garment industry process details, types and working procedures. Spreading – purpose, methods; spreading by hand, spreading using a travelling machine, requirements of the spreading process, Marking: purpose, methods of marking; manual and computerized marker planning, requirements of marker planning, Efficiency of a marker plan.		
Unit-II	Cutting -definition, function, equipments -straight Knife, band Knife, round Knife, die cutters, drills, notchers and thread marker, computerized controlled cutting machine.		
Unit-III	Sewing machineries- Classification of sewing machines - Over lock machine, Bar tacking machine, Button hole machine. Button fixing machine, Feed of arm machine, blind stitching machine and fabric examining machines. Special attachments – Hemmers, Ruffler, Binder, Tucker, Gathering foot, Cloth guide, circular attachment. Sewing machine care and maintenance, Common problems and remedies.		
Unit-IV	Stitching mechanism – needle, bobbin and bobbin case, Bobbin winding, Loops and loop spreader, threading finger, upper and lower threading. Auxiliary hooks, tension disc- upper and lower thread tension, stitching auxiliaries, pressure foot and its types. Feeding mechanism, sewing federal standards for stitch and stitch classification.		
Unit-V	Machines used for garment finishing-fusing, definition advantages, Requirements of using means of fusing, fusing equipment, methods of fusing, pressing: the purpose of pressing, categories of pressing, means of pressing, pressing equipments and methods, pleating, permanent press. Packing – types of packaging and packaging materials used.		
Reference and Text Books:-			
Besty Hosegood, (2006). <i>The Complete Book of Sewing</i> . London: Dorling Kindersley Ltd.			
Chris Jefferys, (2006). <i>101 Essential Tips Basic Sewing</i> . London: DK Books Publisher.			
Cooklin, G., Hayes, S. & McLoughlin. (2006). <i>Introduction to Clothing Manufacture</i> . UK, Oxford: Blackwell Publishing.			
David J. Tyler. (2008). <i>Harold Carr & Barbara Latham's - The Technology of Clothing Manufacture</i> . UK, Oxford: Blackwell Publishing.			
David J. Tyler, (2009). <i>The Technology of Clothing Manufacture</i> . Australia: Blackwell Publishing.			
Jacob Solinger, (1988). <i>Apparel manufacturing Hand book – Analysis, Principles and Practice</i> . New York: Columbia Boblin Media Corp.			
Joann Pugh-Gannon & Nancy Bednar. (2007). <i>Encyclopedia of Sewing Machine Techniques</i> . New Delhi: Sterling Publication India.			
Harold Carr & Barbara Latham. (1994). <i>The Technology of Clothing Manufacture</i> . New Delhi: Om Book Service.			
Ruth E. Clock. & Grace I. Kunz. (2005). <i>Apparel Manufacturing</i> . New Delhi: Pearson Education.			
Thomas Anna Jacob, (1995). <i>The art of sewing</i> . New Delhi: USB Publishers.			



Outcomes	The students gain knowledge in <ul style="list-style-type: none">➤ Garment industry production process and its management process.➤ Familiarise the different types of machines and special attachments used in garment industry.
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Skill Component

Practical / Viva Voce

Semester – I			
Course Code : 9BF1J1	NSQF Level - 4 - Sewing Machine Operator (AMH/Q0301)	Credits: 5	Hours: 5
Objectives	<ul style="list-style-type: none"> ➤ To study about sewing machine parts functions, problems and maintenance. ➤ To stitch the basic samples of the of collar, pocket, sleeve etc. 		
Unit-I	Knowledge of fabrics/apparels and garments and types of fabrics/apparels that require stitching by hand or machine stitching., Sewing machine parts and functions, common factors affect stitching, different types of needles, broken needle procedure, thread thickness, shade, size and parts of needles, Setting up and adjusting machine controls. The typical faults of sewing machines and methods to rectify them and common hazards and remedies in the sewing work place.		
Unit-II	Knowledge about garment parts (pockets, fronts, backs, collars, cuffs, sleeves, etc.). Type of apparels and their parts, assembling of different garment parts to make the final product. Different types of defects. Maintenance, adjustment and replacement of worn parts on the machines required for different types of attachment. Sewing machine adjustment and maintenance, method of sharing domain related information with team members, Safety precautions to be taken when stitching. Different techniques and methods used to detect faults.		
Unit-III	Preparation of garment parts, preparation of samples of seam and seam finishes - samples for Fullness- Pleats (3), Darts (2), Tucks (3), and Gathers (3). Preparation of samples for neckline and neckline finish -Bias Joining, Facing and Bindings - Making samples for placket and closures.		
Unit-IV	Preparation of Samples for Plain Sleeve, Puff Sleeve, Cap Sleeve and Raglan Sleeve. Making Samples for Partial Yoke and Yoke Supporting Fullness. Preparation of samples for Peter Pan collar, Shirt Collar and Shawl Collar. Preparation of samples for Patch and Side Seam Pocket.		
Unit-V	The user/individual on the job needs to know and understand: Occupational health and safety risks and methods. Personal protective equipment and method of use. Identification, handling and storage of hazardous substances. Proper disposal system for waste and by-products. Importance of sound health, hygiene and good habits. Ill-effects of alcohol, tobacco and drugs.		
Reference and Text Books:-			
SSC – AMH – Approved QP & NOS: https://www.sscamh.com/qualification-pack/AMH/Q0301 .			
Note			
Compulsory			
<ol style="list-style-type: none"> 1. AMH/N0301(Carry out stitching activities using machine or by hand) 2. AMH/N0302(Contribute to achieve product quality in stitching operations) 3. AMH/N0102(Maintain work area, tools and machines) 4. AMH/N0103(Maintain health, safety and security at workplace) 5. AMH/N0104(Comply with industry, regulatory and organizational requirements) 			



Outcomes	<p>The students gain knowledge</p> <ul style="list-style-type: none"> ➤ Explain the function and proper care of all the small sewing tools/equipment. ➤ Provide confidence of the practical skills in the proper handling of fabrics and made into samples.
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Note:

The evaluation for this paper for 100 marks will be carried out in three stages. Basic design development skills ,Material selection and equipment knowledge and monitoring the production process skills (25) will be evaluated by the faculty, those who are handling the subject .A Mock Interview (Viva voice) (75 marks) will be evaluated by the internal Examiner (faculty member of the department) and an External Examiner. The cumulative 100 marks will be given by the Department.



General Component

Theory

Semester - II			
Course code: 9BV2T1	இலக்கணமும் படைப்பிலக்கியமும்	Credits:3	Hours:3
நோக்கம்	<ul style="list-style-type: none"> ➤ அடிப்படையாப்பு இலக்கணம் பற்றி அறிதல். ➤ கவிதை இலக்கணம் மற்றும் சிறுகதை இலக்கணம் தோற்றமும் அவற்றின் வளர்ச்சியும் பற்றி பயிற்றுவித்தல். ➤ தமிழ் மொழியும் இணையமும் பற்றிவிளக்குதல். 		
அலகு 1	அடிப்படையாப்பு இலக்கணம் எழுத்து-அசை-சீர்-தளை-அடி-தொடை-பா-பாவினம்		
அலகு 2	கவிதை இலக்கணம்-தோற்றமும் வளர்ச்சியும்- புதுக்கவிதை மரபு பாரதி-செந்தமிழ் நாடு பாரதிதாசன்-தமிழின் இனிமை கண்ணதாசன்-அனுபவமே கடவுள் மு.மேத்தா-தன்னம்பிக்கை அறிவுமதி-நட்புகாலம் (முதல் 10) வைரமுத்து-தோழிமார் கதை		
அலகு 3	சிறுகதை இலக்கணம்-தோற்றமும் வளர்ச்சியும் கு.அழகிரிசாமி-அன்பளிப்பு புதுமைப்பித்தன்-கடவுளும் கந்தசாமி பிள்ளையும் அசோகமித்ரன்-புலிக்கலைஞன் குபா.ரா-விடியுமா அய்க்கண்-மாண்புமிகு மாணவன் கி.இராசநாராயணன்-கதவு		
அலகு 4	இணையத்தில் தமிழும் படைப்பிலக்கியமும் இணையம் அறிமுகம்-இணையமும் தமிழும்-மின்னஞ்சலும் மின் நூலகமும்-இணைய இதழ்கள்-படைப்பிலக்கிய வளர்ச்சி-வலைப்பூ-தமிழ் வளர்ச்சித்துறை-இணைய வேலைவாய்ப்பு மையங்கள்-வேலைவாய்ப்புத் தகவல்கள்		
அலகு 5	படைப்பாற்றல் கவிதை படைத்தல்-சிறுகதை படைத்தல்		
பார்வை நூல்கள் முனைவர் பாக்கியமேரி, (2011). <i>தமிழ் இலக்கியவரலாறு</i> . சென்னை: நியசெஞ்சரி. கே.சுந்தர்ராஜன், <i>இன்டர்நெட்</i> . சென்னை: கண்ணதாசன் பதிப்பகம். மு.பழனியப்பன், <i>கணினியும் இணையமும்</i> . புதுக்கோட்டை: மீனாட்சி நூலக வெளியீடு.			
மாணவர் பெறும் திறன்	<ul style="list-style-type: none"> ➤ செய்யுள் உறுப்புகள் பா வகைகள், பாவினங்கள் பற்றி அறிவர். ➤ கவிதை, சிறுகதைகளின் இலக்கணம், தோற்றம்- வளர்ச்சி பற்றி தெரிவர். ➤ தமிழ் இணையம் பற்றி அறிவர். ➤ கவிதை, சிறுகதை படைக்கும் தூண்டுதலைப் பெறுவர். 		



General Component

Theory

Semester – II			
Course Code : 9BV2E1	Grammatical and Technical English	Credits: 3	Hours: 3
Objectives	<ul style="list-style-type: none"> ➤ To improve the students in critical thinking and to give knowledge about various types of sentences. ➤ To develop the students skills in Technical English such as, writing, speaking and presentation. 		
Unit-I	Critical Thinking Introduction to critical thinking – Benefits - Barriers – Reasoning - Arguments - Deductive and inductive arguments – Fallacies - Inferential comprehension- Critical thinking in academic writing - Clarity - Accuracy – Precision – Relevance.		
Unit-II	Types of Sentences Simple, Compound and Complex.		
Unit-III	Academic Writing Process Data collection - Use of print, electronic sources and digital sources - Selecting key points - Note making, paraphrasing, summary – Introduction and conclusion.		
Unit-IV	Writing Models Letters - Letters to the editor - Resume and covering letters - e-mail - Seminar papers - Project reports - Notices - Filling application forms - Minutes, agenda – Essays.		
Unit-V	Presentation Skills Soft skills for academic presentations - Effective communication skills – Structuring the presentation - Choosing appropriate medium – Flip charts – OHP – Power Point presentation – Clarity and brevity - Inter-action and persuasion - Interview skills – Group Discussions.		
Reference and Text Books:- Alison Pohl, & Nick Brieger. (2013). <i>Technical English Vocabulary and Grammar</i> . New Delhi: Cengage publisher. Marilyn Anderson, Pramod K. Nayar. & Madhucchandra Sen. (2010). <i>Critical Thinking, Academic Writing and Presentation Skills</i> . India: Pearson Education & Mahatma Gandhi University.			
Outcomes	After completing this course, the students are able to: <ul style="list-style-type: none"> ➤ understand about critical thinking in academic writing and various types of sentences ➤ develop their skills in academic writing, speaking and presentation. 		



General Component

Theory

Semester – II			
Course Code : 9BV2G1	Environmental Studies	Credits: 2	Hours: 2
Objectives	<ul style="list-style-type: none"> ➤ To impart the knowledge about Environmental sciences and to demonstrate the in-depth understanding about the environment ➤ To make the students to learn about Environmental problems ➤ To create awareness about various pollutions and its impact on Environment 		
Unit-I	The Multidisciplinary Nature of Environmental Studies Definition, Scope and importance, Need for public awareness.		
Unit-II	Natural Resources: Renewable and non-renewable resources <ol style="list-style-type: none"> a) Forest Resources: Use and over-exploitation, deforestation, case studies, Timber extraction, mining, dams and their effect on forests and tribal people. b) Water Resources: Use and over-Utilization of surface and ground water, floods, drought, conflicts over water, dams- benefits and problems. c) Mineral resources: Use and exploitation, experimental effects of extracting and using mineral resources, case studies. d) Food resources: world food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies. e) Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy resources, Case studies. f) Land resources: Land as a resource, land degradation, main induced landslides, soil-erosion and desertification. <ul style="list-style-type: none"> • Role of individual in conservation of natural resources • Equitable use of resources for sustainable lifestyle 		
Unit-III	Ecosystems, Bio-diversity and its conservation Ecosystems <ul style="list-style-type: none"> ✓ Concept of an Ecosystem. ✓ Structure and function of an Ecosystem. ✓ Energy Flow in the Ecosystem. ✓ Food Chains, Food Webs and Ecological Pyramids. Biodiversity and its conservation <ul style="list-style-type: none"> ✓ Introduction- Definition: Genetic, Species and Ecosystem Diversity. ✓ Bio-Geographical Classification of India. ✓ Value of Biodiversity: Consumptive Use, Productive Use, Social Ethical, Aesthetic and Option Values. ✓ Biodiversity at Global, National and Local Levels. ✓ India as a Mega-Diversity Nation. ✓ Hot Spots of Biodiversity. ✓ Threats to Biodiversity: Habitat Loss, Poaching of Wildlife, Man-Wildlife Conflicts. ✓ Endangered and Endemic Species of India. Conservation of Biodiversity in-Situ and Ex-Situ Conservation of Biodiversity.		



Unit-IV	Environmental Pollution - Causes, Effects and Control measures of a. Air Pollution b. Water pollution c. Soil pollution d. Marine pollution e. Noise pollution f. Thermal pollution g. Nuclear hazards
Unit-V	Field Work ➤ Visit to a local area to document environmental assets–river/ forest/ grassland/ hill/ mountain. ➤ Visit to a local polluted site- Urban/Rural/Industrial/Agricultural. ➤ Study of common Plants, insects, birds. ➤ Study of simple ecosystem-pond, River, Hill slopes, etc.
Reference and Text Books:- Agarwal, K.C. (2001). <i>Environmental Biology</i> . Bikaner: Nidi Publ. Ltd. AUPD, (2006). <i>Environmental studies</i> . Karaikudi: Alagappa University Publ. Division. Bharucha Erach, (2002). <i>The Biodiversity of India</i> . Ahamedabad: Mapin Publishing Pvt. Ltd. Burnner, R.C. (1989). <i>Hazardous Waste Inclineration</i> . New York: McGraw Hill Inc. Cunningham, Cooper, W.P., T.H. Gorhani. E, & Hepworth, M.T. (2001). <i>Environmental Encyclopedia</i> , Mumbai: Jaico Publ. House. De, A.K. (2007). <i>Environmental Chemistry</i> . New Delhi: Wiley Eastern India Ltd. Gleick, H.P. (1993). <i>Water in Crisis, Pacific Institute for Studies in Environment & Security</i> . Stockholm env. Institute. UK, Oxford: Oxford Univ. Press. Hawkins, R.E. (1987). <i>Encyclopedia of Indian Natural History</i> . Bombay: Bombay Natural History Society. Trivedi, R.K. & Goel, P.K. (2013). <i>Introduction to Air Pollution</i> . Mumbai: Techno-Science Publications.	
Outcomes	After completing this course, the students are able to: ➤ appreciate the intellectual and practical complexities of environmental problems and solutions ➤ master in key concepts and methods of environmental analysis drawn from, and integrating, a broad range of disciplines ➤ fuse this background knowledge and analytical ability with leadership and communication skills to successfully devise and implement creative, academically grounded solutions to environmental problems.



General Component

Practical / Viva Voce

Semester – II			
Course Code : 9BV2G2	Advanced Communicative English	Credits: 2	Hours: 2
Objectives	<ul style="list-style-type: none"> ➤ To read and to evaluate different genres of Communicative English with an understanding of its purposes. ➤ To study the different techniques used to exhibit the effective Communicative skills and presentation skills. 		
Unit-I	Basis of Communication Meaning, Importance and process, Need and objectives of communication, 7c's of Communication, Barriers of communication, How to overcome communication Barrier.		
Unit-II	Means/Media of Communication Verbal and non-verbal communication channel of communication formal & informal communication. Types of communication – Downward, upward, Horizontal or lateral, Diagonal or cross.		
Unit-III	Listening as a Communication Tool Importance types of listening, Barriers to effective listening – How to make listening effective. Speeches and Presentation - Speeches - Characteristics of a good speed, How to make speech effective - Presentation - Planning, preparation, organizing, rehearsing and delivery.		
Unit-IV	Groups Importance of features, Advantages and Disadvantages techniques of Group decision making - Brain storming sessions, Nominal Group Technique, solving problems in Groups.		
Unit-V	Presentation Skills Group discussion, mock group discussion using video recording- public speaking.		
Note: This paper is a practice oriented course. The assessment for 100 marks will be carried out by the faculty who teaches the course and an external examiner by conducting Group Discussions and brain storming sessions.			
Reference and Text Books:- Bhatia, R.C. (2008). <i>Business Communication</i> . Mumbai: Ane Books private Limited. Madhukar, R.K. (2016). <i>Business Communication</i> . New Delhi: Vikas Publisher. Shraf Ravi, A. (2007). <i>Effective Technical Communication</i> . New York: McGraw Hill Education.			
Outcomes	This Course gave insights to: <ul style="list-style-type: none"> ➤ the skills needed for listening, speaking, reading and writing to be engaged in a range of communicative tasks and activities ➤ the students to participate in critical conversations and prepare, organize, deliver their work in an effective manner. 		



Skill Component

Practical

Semester – II			
Course Code : 9BV2G3	CAD - Lab – I		Credits: 2
Hours: 2			
Objectives	<ul style="list-style-type: none"> ➤ To understand the basic principles and application in computer. ➤ To acquire practical knowledge about Corel draw and Photoshop. 		
<p>Programmes involves following practical with linked competencies desired:</p> <ol style="list-style-type: none"> 1. Learn Selection tool, pen tool and other tools in Photoshop and Corel draw. 2. Create new image using two or more photographs. 3. Insert text and apply various effects on the selected image. 4. Create different type of backgrounds based on theme. 5. Design Greeting card. 6. Design Logo and CD Cover. 7. Design Visiting card and map. 8. Design poster for an occasion. 9. Design basic silhouette on croquis. 			
Outcomes	<p>The students are able to</p> <ul style="list-style-type: none"> ➤ Working themselves in the digitally ink, pencil drawing Designing Logo. ➤ Prepare posters, Visiting cards, maps. ➤ Prepare CD cover and different backgrounds. 		



Skill Component

Theory

Semester – II			
Course Code : 9BF2C1	Core - IV – Principles of Pattern Making and Grading	Credits: 5	Hours: 5
Objectives	<ul style="list-style-type: none"> ➤ To understand the concepts, terminologies and methods of pattern making. ➤ To get insight knowledge about pattern fitting and grading. 		
Unit-I	Introduction – Basic Concept of basic pattern– Different types of block pattern. Methods of pattern making with special reference to pattern drafting - Pattern making tools – Body Measurement – importance. Standard body measurements for men's, women's and kids of different countries.		
Unit-II	Pattern making – terminology -tools - method of pattern making –Drafting, Flat pattern and draping - merits and demerits. Types of paper patterns (Patterns for personal measurements and commercial patterns) Principles of pattern drafting and pattern details, Draping –definition, principle, equipments needed, dress form and its importance.		
Unit-III	Methods of dart Manipulation Pivot method Slash & spread method, measurement method. Creating styles through dart manipulation and relocation of dart. Pattern layout- definition, purpose, Rules and methods of pattern layout - length wise striped designs, fabric with bold design, asymmetric designs, one way designs. Stay stitching, ease stitching.		
Unit-IV	Fitting: Definition – Principles for a good fit– Checking the fit of a garment – Solving fitting problems in various garments. Fitting techniques. Pattern alteration –importance of altering patterns, general principles for pattern alteration, common pattern alteration in a blouse.		
Unit-V	Pattern Grading: Definition, Grading terminology, selecting a grading system, grading techniques, their advantages and disadvantages, Computerised grading. Grading procedures. Grading of basic block using draft grading systems.		
Reference and Text Books:-			
Helen Joseph Armstrong, (2013). <i>Patternmaking for Fashion Design</i> . New Delhi: Pearson Education India.			
Mary Mathews, (1985). <i>Practical Clothing Construction - Part I&II</i> . Chennai: Cosmic Press.			
Nora M. Macdonald. (2019). <i>Principles of Flat Pattern Design</i> . New York: Fairchild Publications.			
Padmavathi, B. (2009). <i>Techniques of Drafting and Pattern Making</i> . New Delhi: Atlantic Publisher.			
Padmavathi, B. (2010). <i>Couture and Fashion Drafting</i> . New Delhi: Atlantic Publisher.			
Zarapkar, K.R. (2005). <i>Zarapkar System of Cutting</i> . Mumbai: Navneet Publications.			
Outcomes	<p>The students are able to</p> <ul style="list-style-type: none"> ➤ Learn basic concept of pattern making and grading of various patterns for men, women and children. ➤ Familiarize themselves in different styles of pattern making for different garments patterns. 		



Skill Component

Practical

Semester – II			
Course Code : 9BF2P1	Core – V - Principles of Pattern Making and Grading – Lab	Credits: 4	Hours: 4
Objectives	<ul style="list-style-type: none"> ➤ To study the pattern making tools and prepare basic bodice blocks. ➤ The students are able to gain knowledge to design and develop pattern for kids wear, women's wear and men's wear. 		
	<ol style="list-style-type: none"> 1. Introduction to pattern making. Pattern making tools, Preparation of child bodice block and basic blocks front, back and sleeve. 2. Dart manipulation – Pivot and slash & spread method. 3. Draft and grade the Patterns for the following <ul style="list-style-type: none"> • Sleeve – Plain, Puff sleeve at top and bottom and Bell sleeve • Collar - Shirt collar, Peter pan and Stand collar • Yoke - Simple and Partial yoke 4. Draft and construct the pattern for Kids wear - Bib, A line frock, Sun suit, panty, Umbrella frock, Jhabla. 5. Draft and construct the pattern for Women's Garment's – Six core saree petticoat, Salwar Kameez, Chudidhar, Skirt, Nightie, Blouse. 6. Draft and construct the pattern for Men's Garments - Basic T-shirt with half sleeve. Polo T-shirt with half sleeve, SB waist coat, Men's Kurta with stand collar. Bermuda with side pockets. 		
Outcomes	<p>The students gain knowledge in</p> <ul style="list-style-type: none"> ➤ Prepare and develop the basic bodice pattern front, back and sleeve. ➤ Familiarise and able to prepare and construct patterns for men, women and children garments. 		



Skill Component

Theory

Semester – II			
Course Code : 9BF2C2	Core – VI - Introduction to Fashion Technology		Credits: 4 Hours: 4
Objectives	<ul style="list-style-type: none"> ➤ To understand the elements and principles of design and apply it with garment design. ➤ To study the wardrobe planning and figure irregularities and design garment according to the specific need. 		
Unit-I	Design & Elements of Design Fashion – Definition, terminology, fashion cycle, Fashion theory, Fashion forecasting, National and International fashion designers. Design – Definition, Types- Structural and Decorative Design, Requirements of a Good Structural and Decorative Design. Application of Structural and Decorative Design in the Dress.		
Unit-II	Principles of Design Elements of Design -Line, Shape or Form, Color, Size and Texture. Principles of Design – Balance, Rhythm, Harmony, Emphasis and Proportion. Application of design principles in dress designing.		
Unit-III	Colours Colours – Importance. Terms - Value, Hue, Intensity. Colour Theory – Primary, Secondary and Tertiary, Complimentary - Split Complimentary, Double Complimentary, Monochromatic, Analogous and Traid Colours. Cool colours and Warm colours. CMYK colours. Moods of colour.		
Unit-IV	Fashion Accessories Fashion Accessories- Shoes, Hand Bags, Hats and Tie -Different Types/Shapes. Application of Trimmings and Decorations on Accessories by Lace, Ric Rac, Appliqué, Embroidery etc Wardrobe planning for different age group, factors influencing wardrobe selection. Fashion and season, and designing dresses for different occasions.		
Unit-V	Figure Irregularities Designing dress for unusual figures becoming and unbecoming, for the following Figure Types - Stout Figure, Thin Figure, Slender Figure, Narrow Shoulders, Broad Shoulders, Round Shoulders, Large Bust, Flat Chest , Large Hip, Large Abdomen, Round Face, Large Face, Small Face, Prominent Chin and Jaw, Prominent forehead.		
Reference and Text Books:- Jay Calderin & Laura Volpintesta. (2013). <i>The Fashion Design Reference & Specification Book – Everything Fashion Designers Need to Know Every Day</i> . USA, Beverly: Rockport Publishers. John Peacock, (2000). <i>Fashion Accessories, The Complete 20th Century</i> . London: Thames and Hudson Publications. Pamela Stecker, (2010). <i>Fashion Design Manual</i> . Australia: Macmillan Co. Pooja Khurana, (2007). <i>Introduction to Fashion Technology</i> . New Delhi: Firewall Media Publisher. Richard Sorger & Jenny Udale. (2006). <i>The Fundamentals of Fashion Design</i> . Switzerland: AVA Publishing. Sumathi, G.J. (2008). <i>Elements of Fashion and Apparel Design</i> . New Delhi: New Age International Publications.			



Outcomes	The students are able to <ul style="list-style-type: none">➤ Learn elements and principles of design and its application in garment design.➤ Understand the type of trims and decorated accessories used in garment embellishment.
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Skill Component

Practical / Viva Voce

Semester – II			
Course Code : 9BF2J1	NSQF Level - 5 - Fashion Designer (AMH/Q1201)	Credits: 5	Hours: 5
	<ul style="list-style-type: none"> ➤ To understand about the fashion concepts, terminologies, types of design. ➤ Developing design by using the elements and principles of design. 		
Unit-I	Research on fashion and trend, quality standards for designs, target market, materials, designs, processes and marketing materials according to the needs of the design, CAD design, apparel costing of created designs, Intellectual property rights with respects to design. Knowledge of fabrics and apparels and garments and types of fabrics and apparels require stitching by hand or machine stitching. Tech Pack preparation.		
Unit-II	Knowledge on Sewing and Pattern making techniques to make tech pack, preparation of sketches by hand and CAD, elements and principles of design, create good design in the fashion industry, knowledge on sampling, merchandising, patternmaking, and quality. Identified personnel for prototype sample development.		
Unit-III	Draw the designs- structural and Decorative Designs, Elements of Design- types of lines, forms, colour theory, colour harmony, emphasis and proportion. Application of these elements in dress designing, principles of design- balance, rhythm, harmony, emphasis and proportion. Application of these elements in dress design.		
Unit-IV	Different types of collars, necklines, sleeves, cuffs, skirts, pants, and shirt. Designing of shirt ladies top, Jacket, preparation of theme based garments for different occasion. Preparation of prototype of garments and evaluation of design development process.		
Unit-V	Occupational health and safety risks and methods. Personal protective equipment and method of use. Identification, handling and storage of hazardous substances. Proper disposal system for waste and by-product. Signage related to health and safety and their meaning. Importance of sound health, hygiene and good habits. Result in ill-effects of alcohol, tobacco and drugs.		
Reference and Text Books:-			
SSC – AMH – Approved QP & NOS: https://www.sscamh.com/qualification-pack/AMH/Q1201 .			
Note			
Compulsory			
<ol style="list-style-type: none"> 1. AMH/N1201 (Prepare to make a design collection) 2. AMH/N1202(Prepare prototype garments for the collection) 3. AMH/N1203(Evaluate the design development process) 4. AMH/N1204(Maintain the work area, tools, machines and computers) 5. AMH/N0103(Maintain health, safety and security at workplace) 			
Outcomes	The students gain knowledge in <ul style="list-style-type: none"> ➤ Learn elements and principles of design and its application in garment design. ➤ Understand the type of trims and decorated accessories in garment embellishment. 		



Note

The evaluation for this paper for 100 marks will be carried out in three stages. Design development skills (10 marks) costume styling, fabric selection and communication skills (15 marks) will be evaluated by the faculty, those who are handling the subject. A Mock Interview (Viva voice) (75 marks) will be evaluated by the Internal Examiner (Faculty member of the Department) and an External Examiner. The cumulative 100 marks will be given by the Department.



General Component

Practical / Viva Voce

Semester – III			
Course Code : 9BV3G1	Interview Techniques and Interpersonal Communications	Credits: 5	Hours: 5
Objectives	<ul style="list-style-type: none"> ➤ To improve the skills of the students to prepare and face the interview process. ➤ To learn about Social skills, Conflict skills and interpersonal skills 		
Unit-I	Basic of Interview Important aspects of interview-Maintaining interview files-Important of background information about the job, the organization and the interviewer-Things to do before interview-preparing for the interview- Facing panel interview-Handling appropriate questions-Standard Interview formats-Sample Questions.		
Unit-II	Preparation for interview Information consideration before the interview-Entering into the interview room-Giving answers to the questions-Recapturing the interviewer's attention-questions to ask towards the end of the interview-Things to do after interview –Second interview.		
Unit-III	Interview Behaviours Grooming for interview-Checklist for interview-Three essential interview Skills-Ten sticky interview situations and handling them-Avoiding ten interview blunders-Job interviews do's and Don'ts- Informal interviews Do's and Don'ts- Ready for unexpected interview-Strengths and weakness-Interview body language-interview etiquette-Basics of group discussion.		
Unit-IV	Social Skills and Conflict Management Skills Component of Social Skills, effective ways of dealing with people - Types of conflict (intrapersonal, intra group and inter group conflicts) - Basic concepts, cues, signals, symbols and secrets of body language - Significance of body language in communication and assertiveness training. - Conflict stimulation and conflict resolution techniques for effective conflict management.		
Unit-V	Interpersonal Skills Concept of team in work situation, promotion of team spirit, characteristics of team player - Awareness of one's own leadership style and performance - Nurturing leadership qualities - Emotional intelligence and leadership effectiveness- self awareness, self management, self motivation, empathy and social skills - Negotiation skills- preparation and planning, definition of ground rules, clarification and justification, bargaining and problem solving, closure and implementation.		
<p>Note: This paper aims at imparting Soft Skills to the students to become successful person in both interviews and work places. The evaluation for this paper for 100 marks will be carried out in three stages. Interpersonal Communication Skills (25 marks) and Interview Preparation Skills (25 marks) will be evaluated by the faculty who are handling the subject. A Mock Interview (50 marks) will be conducted and evaluated by the faculty of the Department and an external examiner. The cumulative 100 marks will be given by the Department.</p>			
<p>Reference and Text Books:- Abdulhashen, (2012). <i>Interview Manual</i>. New Delhi: Ramesh Publishing House. Anandamurugan, S. (2011). <i>Placement Interviews</i>. New Delhi: Tata McGraw Hill.</p>			



Hurlock, E.B. (2006). *Personality Development*. New Delhi: Tata McGraw Hill.

Outcomes	This course gave insights about: <ul style="list-style-type: none">➤ the process of interview and how to prepare for interview.➤ the importance of Social skills, Conflict skills and interpersonal skills.
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Skill Component

Practical

Semester – III			
Course Code : 9BV3G2	Apparel Accessories and Surface Ornamentation - Lab	Credits: 4	Hours: 4
Objectives	<ul style="list-style-type: none"> ➤ To understand the different accessories available in fashion market. ➤ Design and construct fashion accessories based on theme. 		
	<ol style="list-style-type: none"> 1. Design and stitch Different types of bows, tie, hats. 2. Design and prepare sample of hand bags and pouches. 3. Preparation of fashion Jewellery - clay, paper, beads and other accessories. 4. Preparation of hand embroidery – 15 stitches (5 sample) 5. Preparation of sample by sequence and bead work. 6. Preparation of sample – Mirror work, tassels and fringes. 7. Preparation of Traditional embroidery stitches. 		
Outcomes	<p>The students gain knowledge in</p> <ul style="list-style-type: none"> ➤ Different apparel accessories and its uses in garment design. ➤ Design and construct the accessories based on theme. 		



General Component

Practical / Viva Voce

Semester – III																																		
Course Code : 9BV3G3		Extension Activities	Credits: 1	Hours: -																														
Objectives	<ul style="list-style-type: none"> ➤ To enable the students to learn and understand the culture, living environment, values as well as the problems of rural people ➤ to bring desirable changes in knowledge, skill and attitude of rural people. 																																	
<p>Extension Activities will be organized for 2 days in the Third Semester. The programme may be organized in any Saturday and Sunday.</p> <p>A meeting of all the staff of the College (Teaching, Administrative and Technical Staff) be conducted before departing to the camp in which each and every aspect like Programmes to carried out, accommodation, food, medical aid, transport facilities, etc., should be thoroughly discussed.</p> <p>One credit will be allotted for this Extension Activities. The marks allotted for each camp will be 100. Each student participating in the camp will be evaluated internally for 100 marks. The criteria for evaluation of Extension Activities will be as follows:</p>																																		
	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Criteria</th> <th>Maximum Marks</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Interaction with villagers</td> <td>10</td> </tr> <tr> <td>2.</td> <td>Participation / Attitude towards work</td> <td>10</td> </tr> <tr> <td>3.</td> <td>Participation in interaction and discussion</td> <td>10</td> </tr> <tr> <td>4.</td> <td>Knowledge of problems / issues</td> <td>10</td> </tr> <tr> <td>5.</td> <td>Organizing & decision making ability</td> <td>20</td> </tr> <tr> <td rowspan="2">6.</td> <td>Expression: a) Cultural Programmes</td> <td>10</td> </tr> <tr> <td>b) Report Writing</td> <td>20</td> </tr> <tr> <td>7.</td> <td>Ability to adjust and work in a team</td> <td>10</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total</td> <td>100</td> </tr> </tbody> </table>			S. No.	Criteria	Maximum Marks	1.	Interaction with villagers	10	2.	Participation / Attitude towards work	10	3.	Participation in interaction and discussion	10	4.	Knowledge of problems / issues	10	5.	Organizing & decision making ability	20	6.	Expression: a) Cultural Programmes	10	b) Report Writing	20	7.	Ability to adjust and work in a team	10	Total		100		
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Total		100																																
Outcomes	<p>The students are able to</p> <ul style="list-style-type: none"> ➤ Get awareness among rural people in agriculture and other work activities. ➤ Analyze the rural problems and find solution through knowledge and skill. 																																	



Skill Component

Theory

Semester – III			
Course Code : 9BF3C1	Core - VII – Apparel Merchandising	Credits: 5	Hours: 5
Objectives	<ul style="list-style-type: none"> ➤ To acquire knowledge on apparels industry and business concepts adopted. ➤ To impart knowledge about Apparel Merchandising. 		
Unit-I	An overview about Indian apparel industry – Steps in apparel making - Organization structure of an apparel industry - Types of apparel exporters - Business concepts applied to the apparel industry - Buying – Receiving and Warehousing – Distribution - Sourcing – strategies, methods and sourcing clusters in India - Advertising- scope, importance, types, merits & demerits.		
Unit-II	Merchandising: Definition of merchandising – Concepts of “Six Rights” - Functions of merchandising – Role and responsibilities of merchandiser - Essential requisites of a good merchandiser – Types of merchandiser - Export merchandising - Classification of Exporters - Retail merchandising – Classification of buyers - Company profile and its contents.		
Unit-III	Buyer sourcing & communication - Yarn programming – Samples: meaning, importance & types of samples – Inspection and its types - Approvals and its types – Document formats: order sheet, packing list, invoice, inspection and testing reports etc - Order sheet and its contents – Packing list and its contents - Assortment and its types.		
Unit-IV	Time management in merchandising - production planning and control - route card format - accessories follow-up - practical check points - computer applications in merchandising –MIS in apparel industry, buying houses and their function.		
Unit-V	Export houses- working of export houses, categories- star trading export houses, etc. - Concept of supply chain management - India’s leading export houses - Trends in apparel industry - foreign trade agreements related to the garment industry.		
Reference and Text Books:-			
Elaine Stone, & Jean A. Samples. (1985). <i>Fashion Merchandising</i> . New York: Mcgraw Hill.			
Jeremy A. Rosenau. (2014). <i>Apparel Merchandising</i> . New York: Fairchild Publications.			
Krishnakumar, M. (2010). <i>Apparel Merchandising - An integrated approach</i> . Chandigarh: Abhishek Publications.			
Mike Easey, (2009). <i>Fashion Marketing</i> . UK, Oxford: Wiley – Blackwell.			
Moore Evelyn, C. (2001). <i>Path for Merchandising - A Step by Step Approach</i> . London: Thames and Hudson Ltd.			
Philip Kotler, & Kevin Lane Keller. (2015). <i>Marketing Management</i> . New Delhi: Pearson Education India.			
Richard M. Hill., Ralph S. Alexander. & James S. Cross. (1998). <i>Industrial Marketing</i> . New Delhi: AITBS Publ.			
Robin Mathew, (2008). <i>Apparel Merchandising</i> . Jaipur: Book Enclave Publishers.			
Outcomes	The students gain knowledge in <ul style="list-style-type: none"> ➤ Concept of apparel marketing and merchandising in India. ➤ Industry and gain export policies and banking activities. 		



Skill Component

Practical

Semester – III			
Course Code : 9BF3P1	Core - VIII - CAD - Lab - II		Credits: 5
Hours: 5			
Objectives	<ul style="list-style-type: none"> ➤ To study the software applications and create designs for different garments. ➤ To learn the Corel Draw and Photoshop and develop the textile designs by using the software. 		
	<ol style="list-style-type: none"> 1. Create different textures and patterns. Develop different backgrounds. 2. Prepare theme board, colour board, customer focus and dress designing. 3. Developments of motif, colour application, create design from developed motif. 4. Creating designs - Traditional, stylized, Geometry Abstract motif. 5. Horizontal stripes, vertical stripes and plaids, One-way, two-way, half drop pattern and tossed. 6. Brick pattern, Diamond pattern, diaper pattern, ogee pattern. 7. Preparation of garment design from developed motif. 8. Preparation of upholstery item from developed motif. 		
Outcomes	<p>The students are able to</p> <ul style="list-style-type: none"> ➤ Learn the basic concepts of Corel and Photoshop and develop motif, pattern designs. ➤ Able to design pattern for dobby and jacquard weave pattern. 		



Skill Component

Practical

Semester – III				
Course Code : 9BF3P2	Core - IX - Garment Construction – Lab - Kids Wear		Credits: 5	Hours: 5
Objectives	<ul style="list-style-type: none"> ➤ The students are able to design and construct the garment for different age group of kids wear. ➤ To learn about the theme based design garments. 			
	<ol style="list-style-type: none"> 1. Construction of garments for infants – Jhabla, Panty. 2. Construction of garments for infants – Bib, Bonnet, Baby bed set, Romper. 3. Construction of Garments for toddlers - A-Line frock, Yoke frock, summer baby Suit. 4. Construction of Garments preschool girl- Skirt, Circular skirt. 5. Construction of garments for preschool boy- Knickers, Shirt. 6. Develop one theme and prepare garments for Kids wear. 			
Outcomes	<p>The students are able to</p> <ul style="list-style-type: none"> ➤ Understand the basic concepts of patternmaking and kids wear. ➤ Develop the designs by own and construct the garment design. 			



Skill Component

Theory

Semester - III			
Course Code : 9BF3C2	Core - X - Fashion Retailing and Visual Merchandising	Credits: 3	Hours: 3
Objectives	<ul style="list-style-type: none"> ➤ To know about the retailing, store plan and importance of marketing strategies. ➤ To acquire knowledge about visual merchandising and planning to set up the display in the apparel sector. 		
Unit-I	Retail & Retailing – Meaning & definition – Scope of apparel retailing – Retailing terminologies – Types of retailers and retail formats – Global retailing scenario – Retailing scenario in India – Functions of retailers.		
Unit-II	Retail strategies. Product differentiation, Customer intimacy – Growth strategies – Market expansion strategies. Retail Store planning – Location planning – Store design – Store layout – Floor space management. Managing retail personnel – Manpower planning – Types of employees in retail – Remuneration structure.		
Unit-III	Retail Brands and Branding – Functions of brands – Types of brands – Branding strategies – Store brands or private labels – Store brands Vs National brands – Famous apparel retail brands. Role of atmosphere in garment retailing. Visual merchandisers in garment retailing.		
Unit-IV	Introduction to Visual merchandising – definition, importance. Stores - Store exterior and interior: Store exterior – marquee, facade, exterior display, surrounding stores and displays; Store interior – store atmospheric, aesthetic, execution of store lay out - selection of display locations, lifts, staircase, elevators, utilization of store space.		
Unit-V	Planning of assortment, theme, ensemble, racks, shelves, bins, etc. and balance of display in a show room. Wall as retail selling tool – types of materials used merchandise display and effective wall planning. Lightings - Lights types, selection, advantages and disadvantages, music. Theme, interior and exterior displays used in garment retail outlet, boutique and haute couture, accessories show rooms, mannequins, fabric and paper displays.		
Reference and Text Books:-			
Dimitri Koumbis, (2018). <i>Fashion Retailing from Managing to Merchandising</i> . New York: Fairchild Publisher.			
Marian L. Davis. (1976). <i>Visual Design in Dress</i> . USA, New Jersey: Prentice Hall inc.			
Mike Easey, (2009). <i>Fashion Marketing</i> . UK, Oxford: Wiley – Blackwell.			
Martin M. Peglar (SVM). (2007). <i>Visual Merchandising and Display</i> . New York: Fairchild Publication Inc.			
Swapna Pradhan, (2007). <i>Retailing Management</i> . New Delhi: Tata McGraw Hill Publishing.			
Vedhamani & Gibson, G. (2007). <i>Retail Management - Functional Principles and Practices</i> . Mumbai: Jaico Publishing House.			
Outcomes	<p>The students get insight knowledge in</p> <ul style="list-style-type: none"> ➤ Create and develop new visual merchandising displays and presentations. ➤ They are able to prepare visual merchandising display presentation (Retailer shop, window display). 		



General Component

Theory

Semester – IV			
Course Code : 9BV4G1	Professional Etiquettes	Credits: 4	Hours: 4
Objectives	<ul style="list-style-type: none"> ➤ To impart various etiquettes, dress code in business environment. ➤ To impart understanding about behavioural styles in business environment. 		
Unit-I	Why Business Etiquette, Greeting and Introduction: who to introduce first, Guidelines for Determining Importance, A few tips, Shaking Hands, Use of Names, Business Card, Remembering Names.		
Unit-II	The well Groomed Man: Hair, Face, Hands, Personal Hygiene, formal dress code, Shirts and Trousers, Business Suits, Ties, Shoes, Belt, Socks, Handkerchief, wallet, Jewellery, Eyeglasses, Fragrance, Business Casuals. The well Groomed Women: Hair, Personal Hygiene, Make up, Hand and Nails, Feet, Shoes, Jewellery, Formal Dress code, Indian Dressing, Western Dressing, Accessories, business Casuals.		
Unit-III	Workplace Etiquette: Behaviour, Body Language, Everyday Courtesies, Use of office Machine Etiquette, Using Facilities, Washroom Etiquette, Holding Doors, Elevator Etiquette, Managing Conflict, Visiting Other Offices, Receiving Visitors in Your Offices, Telephone Etiquette, Cell Phone Etiquette, Meeting Etiquette.		
Unit-IV	Dining Etiquette: Rationale for a Dining Etiquette, Table Setting, Napkin Use, Cutlery Awareness, Eating Consideration, Eating Soup, Breaking Bread, Managing Difficult Food, Specific Dishes, Avoiding Elementary Dining Mistakes, Knowing Wines.		
Unit-V	Restaurant Etiquette: Reservation, Ordering, Problems, Paying Bills and Tipping, Buffet Dining Etiquette. Office Party Etiquette: some Consideration, when is a Person a Bad Guest. Travel Etiquette: Airplane Travel, Hotel Stay. Cross-Cultural Consideration: Awareness, Cultural Sensitivities of some Countries, Giving Gifts. Email Etiquettes.		
Reference and Text Books:-			
Barbara Pachter, & Marjorie Brody, (1994). <i>Business Etiquette</i> . New York: McGraw-Hill Education.			
Ferguson, (2009). <i>Professional Ethics and Etiquette</i> . New York: Infobase Publishing.			
Sarvesh Gulati, (2012). <i>Corporate Grooming and Etiquette</i> . Kolkatta: Rupa Publications Pvt. Ltd.			
Shitkal Kakkar Mehra, (2012). <i>Business Etiquettes - A Guide for the Indian Professional</i> . New Delhi: Harper Collins India Publisher.			
Outcomes	After completing this course, the students are able to: <ul style="list-style-type: none"> ➤ well verse with business Etiquette, workplace Etiquette, dinning Etiquette, and restaurant Etiquette. ➤ improve Professional behaviour in business environment. 		



Skill Component

Theory

Semester – IV			
Course Code : 9BF4G1	Apparel Costing and Export Management	Credits: 4	Hours: 4
Objectives	<ul style="list-style-type: none"> ➤ To study the apparel industry costing methods, types and calculation of fabric costing. ➤ To get insight knowledge about marketing, export procedure & documentation and policies of exports. 		
Unit-I	Principles of costing - Requirements of good costing system - Cost unit - Types of costs -Elements of cost - Overheads - Prime cost - Work cost - Cost of production - Total cost -Apparel manufacturing cost categories - Manufacturing budget – Cash flow control – Standard cost sheet - Break–Even charts.		
Unit-II	Costing: Definition – Cost estimation: Meaning - Fabric costing: fabric types, fabric consumption, weaving/ knitting price – cost estimation of dyeing, printing and finishing - Costing of apparel: woven/knits - Estimation of factory cost for woven & knitted fabric.		
Unit-III	Trade: Domestic trade vs International trade – WTO - Globalization - Regional trade blocks - Counter trade: Factors responsible for counter trade growth - Business Environment: social & logical - Business ethics: definition, importance and need. Export marketing of apparel - International Care labelling - International codes for products & services - Role of terms of payment in international trading.		
Unit-IV	Export Procedure - Major documents for exports and its purpose - INCO Terms – Documents for claiming export assistance - Export Finance - Export credit: short term, medium & long term - Logistics and Shipping - Standard policies: Indian trade policies - India's foreign trade policy: Export & import policy.		
Unit-V	Export promotion council: Apparel Export Promotion Council - Registration Formalities -Registration Cum Membership Certificate – Import Export Code – RBI Code - Foreign exchange regulation - Nature of foreign exchange market and main functions - Special economic zones.		
Reference and Text Books:-			
Maurice Johnson & Evelyn C. Moore. (2001). <i>Apparel Product Development</i> . New Delhi: Om Book Service.			
Prashant P. Deshande. (2009). <i>Garment – Export industry of India</i> . New Delhi: APH Publishing.			
Nasim Yousaf, (2001). <i>Import & Export of Apparel and Textiles</i> . USA, Indiana: Xlibris.			
Thomas E. Johnson. & Donna L. Bade. (2010). <i>Export Import Procedures & Documentation</i> . New York: Amacom.			
DGFT, (2015-2020). <i>Hand Book of Import and Export Procedures</i> . New Delhi: Govt. of India.			
Francis Cherunilam, (2001). <i>International trade and Export management</i> . Mumbai: Himalaya Publishing House.			
Mahajan, (2007). <i>Export Policy, Procedures and Documentations</i> . Mumbai: Snow-white Publishers.			
Darlie O. Koshy, (1995). <i>Effective export marketing of Apparel</i> . New Delhi: Global Business Press.			
Jain, S.P. & Narang, K.L. (2005). <i>Cost Accounting</i> . New Delhi: Kalyani Publishers.			
Outcomes	<p>The students will be able to</p> <ul style="list-style-type: none"> ➤ Understand the costing, elements, cost control and manufacturing budget. ➤ Learn marketing and export marketing in apparel, export credit, international payment terms and counter trade growth. 		



General Component

Theory

Semester – IV			
Course Code : 9BV4G3		Value Education	Credits: 2 Hours: 2
Objectives	<ul style="list-style-type: none"> ➤ To help the students to get better understanding of human lives. ➤ To impart good manners and responsibility in society. 		
Unit-I	Definition – Need for value Education – How important human values are – humanism and humanistic movement in the world and in India – Literature on the teaching of values under various religions like Hinduism, Buddhism, Christianity, Jainism, Islam, etc. Agencies for teaching value education in India – National Resource Centre for Value Education – NCERT– IITs and IGNOU.		
Unit-II	Vedic Period Influence of Buddhism and Jainism – Hindu Dynasties – Islam Invasion – Moghul invasion – British Rule – culture clash – Bhakti cult – social Reformers – Gandhi – Swami Vivekananda – Tagore – their role in value education.		
Unit-III	Value Crisis – After Independence Independence – democracy – Equality – fundamental duties – Fall of standards in all fields – Social, Economic, Political, Religious and Environmental – corruption in society. Politics without principle – Commerce without ethics – Education without Character – Science without humanism – Wealth without work – Pleasure without conscience – Prayer without sacrifice – steps taken by the Governments – Central and State – to remove disparities on the basis of class, creed, gender.		
Unit-IV	Value Education on College Campus Transition from school to college – problems – Control – free atmosphere – freedom mistaken for license – need for value education – ways of inculcating it – Teaching of etiquettes – Extra-Curricular activities – N.S.S., N.C.C., Club activities – Relevance of Dr.A.P.J. Abdul Kalam's efforts to teach values – Mother Teresa.		
Unit-V	Project Work <ol style="list-style-type: none"> 1. Collecting details about value education from newspapers, journals and magazines. 2. Writing poems, skits, stories centering on value-erosion in society. 3. Presenting personal experience in teaching values. 4. Suggesting solutions to value – based problems on the campus. 		
Reference and Text Books:-			
Eknath Ranade, (2009). <i>Swami Vivekananda's Rousing call to Hindu Nation</i> . Calcutta: Swastik Prakashan.			
Mohit Chakraborti, (1997). <i>Value Education - Changing Perspectives</i> . New Delhi: Kanishka Publications.			
Saraswathi, T.S. (1999). <i>Culture, Socialisation and Human Development - Theory, Research and Application in India</i> . New Delhi: SAGE India Publications.			
Satchidananda, M.K. (1991). <i>Ethics, Education, Indian Unity and Culture</i> . New Delhi: Ajantha Publications.			
Venkataiah, N. (1998). <i>Value Education</i> . New Delhi: PAH Publishing Corporation.			
Vittal, N. (2001). <i>Value Education – Need of the hour</i> . Mumbai: Talk delivered in the HTED Seminar Govt. of Maharashtra.			



Outcomes	After completing this course, the students are able to: <ul style="list-style-type: none">➤ develop meaningful understanding about value education➤ understand the value of culture and heritage of human lives.
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General Component

Theory

Semester - IV			
Course Code : 9BV4G4	Manavalakalai Yoga	Credits: 2	Hours: 2
Objectives	<ul style="list-style-type: none"> ➤ To understand the importance of yoga and its relationship with physical and mental health. ➤ To enable the students to attain physical strengths, higher level of consciousness, strong emotional stability and moral values through various Asana. 		
Unit-I	Yoga and Physical Health -Physical Structure – Three bodies – Five limitations 1.1 Simplified Physical Exercises – Hand Exercises – Leg Exercises – Breathing Exercises – Eye Exercises – Kapalapathi. 1.2 Maharasanas 1-2 Massages – Acu-puncture – Relaxation. 1.3 Yogasanas – Padmasana – Vajrasanas – Chakrasanas (Side) – Viruchasanas – Yoga Muthra – Patchimothasanas – Ustrasanas – Vakkarasanas – Salabasanas.		
Unit-II	Art of Nurturing the life force and Mind 2.1 Maintaining the youthfulness – Postponing their ageing process. 2.2 Sex & Spirituality – Significance of sexual vital fluid – Married life – Chastity. 2.3 Ten Stages of Mind. 2.4 Mental frequency – Methods for concentration.		
Unit-III	Sublimation 3.1 Purpose and Philosophy of life. 3.2 Introspection – Analysis of Thought. 3.3 Moralization of Desires. 3.4 Neutralization of Anger.		
Unit-IV	Human Resources Development 4.1 Eradication of worries. 4.2 Benefits of Blessings. 4.3 Greatness of Friendship. 4.4 Individual Peace and World Peace.		
Unit-V	Law of Nature 5.1 Unified force – Cause and Effect system. 5.2 Purity of Thought and Deed and Genetic Centre. 5.3 Love and Compassion and Cultural Education – Five Fold Culture.		
Reference and Text Books:-			
James Hewitt, (2012). <i>The Complete Yoga Book - The Yoga of Breathing, Posture and Meditation</i> . New York: Random House Publisher.			
Stephen Sturgess, (2013). <i>The Yoga book; A practical Guide to Self Realization</i> . London: Watkins Media Limited.			
Swami Vishnu Devananda, (2011). <i>The complete Illustrated Book of Yoga</i> . USA, Pennsylvania: Potter/Ten Speed/Harmony/Rodale Publisher.			
Outcomes	The students are able to <ul style="list-style-type: none"> ➤ Understand the yoga and its implication in health. ➤ Get knowledge about the techniques involved to attain physical& mental strength. 		



General Component

Theory

Semester – IV			
Course Code: 9BV4G5	Introduction to Gender Studies	Credits: 2	Hours: 2
Objectives	<ul style="list-style-type: none"> ➤ To gain knowledge on Gender, Sex, Gender roles, determinisms, identity, ideology and stereotypes in order to get awareness and importance of Gender Equality. ➤ To know about Women Development Policies, Programmes 		
Unit-I	Gender Identity: Gender Ideology – Sex Vs Gender – Biological Determinism – Dualism – Reductionism – Objectification – Socialization and Internalization.		
Unit-II	Gender Roles: Division of Labour – Sex Role – Stereotypes – Gender Role – Work – Family and Gender – Motherhood – Production and Reproduction.		
Unit-III	Gender Equality / Equity: Equality Vs Equity, HDI, GDI and GEM – Gender Inequality in Certain Vital Measures of Development: Sex Ration, Life Expectancy, Literacy Level – Work Participation – Decision Making and Political Participation.		
Unit-IV	Strength of Women: Hormones and Chromosomes – Physical Differences – Record of the Fastest Men and Women in the World – Athletes – Brain and Intelligence – Emotions.		
Unit-V	Development Policies and Programmes: WID – WAD – GAD – Approaches: Welfare – Anti-Poverty – Efficiency – Equity – Empowerment – Central and State Government Women Development Schemes.		
Unit-VI	Women Empowerment: Meaning and Concepts, Empowerment Levels – Framework – Empowerment Tools – Capability Approach.		
Reference and Text Books:-			
Eleanor Leacock. & Leela Dube et al. (1986). <i>Women, Power and Authority in invisibility and power ed.</i> New Delhi: Oxford University Press India.			
Foucault, M. (1981). <i>The History of Sexuality – an Introduction</i> (Vol. 1). London: Penguin.			
Kapur Promilla, (2001). <i>Empowering the Indian Women</i> . New Delhi: Publication Division, Ministry of Information and Broadcasting, Government of India.			
Poornima Advani, (2000). <i>Course Curriculum on Gender Sensitization of Police Officers</i> . New Delhi: National Commission for Women.			
Sahay Sushama, (1998). <i>Women and Empowerment - Approaches as and Strategies</i> . New Delhi: Discovery Publishing House.			
Selvy Thiruchandran, (2006). <i>Ideology, Caste, Class and Gender</i> . Mumbai: Vikas Publishing House.			
Thilakavathi, G. & Regina Papa, B. (2003). <i>Gender Sensitization - Course Material</i> . Chennai: Tamil Police.			
Outcome	After completing this course, the students are able to: <ul style="list-style-type: none"> ➤ understand and appreciate Gender identity, Gender roles and Gender Equality. ➤ work to improve the environment for Women, Women Development Policies and Programmes 		



Skill Component

Theory

Semester – IV			
Course Code : 9BF4C1	Core – XI - Textile Processing		Credits: 4
		Hours: 5	
Objectives	<ul style="list-style-type: none"> ➤ To study the fabric preparatory process in textile processing industry. ➤ To know the different types of dyeing and printing methods, technological advancement in the above process. 		
Unit-I	Water hardness – Definition and types - Quality required for wet processing industries - Softening process - Sequestering agent – Textile auxiliaries: types and role - Preparatory process sequence for woven and knitted fabrics.		
Unit-II	Preparatory process: Need – Desizing: objectives, types and continuous enzyme desizing process – Scouring: objectives, method and pressure scouring Process - Bleaching: objectives, types of bleaching agents, Hydrogen peroxide bleaching using J-box and its advantages and disadvantages, bleaching of different fabrics - Optical brighteners - Mercerization: objectives, types, cloth mercerization process.		
Unit-III	Dyeing: classification of dyes, methods of dyeing, stages of dyeing - Basic dye, Direct, Reactive, Vat, Disperse, and Naphthol - Dyeing machines used for different stages of dyeing - Jigger, Winch, HTHP and soft flow machines - Natural dyes- types, Advantages and Disadvantages.		
Unit-IV	Printing: types, methods of printing, dye paste preparation, after treatment. Direct printing: Block, Stencil, screen, roller printing, duplex printing and transfer printing - Discharge printing - Resist printing: Batik, Tie and dye – Recent developments in printing: flock printing, photo printing, warp printing, air brush printing.		
Unit-V	Finishing- objectives of finishing, temporary and permanent finish. Methods – chemical and mechanical finish. Calendaring, tentering, stiffening, beetling, glazing, embossing, moiring, ciring, raising, napping, singeing, sanforising, enzyme finish: bio-polishing, resin finishing, wash and wear finish, waterproofing, water repellency		
Reference and Text Books:-			
Datye, K.V. & Vaidya, A. (1984). <i>Chemical Processing of Synthetic Fibers and Blends</i> . New York: John Wiley and Sons.			
EIRI Board, (2008). <i>Modern Technology of Bleaching, Dyeing, Printing and Finishing of Textiles</i> . New Delhi: Engineers India Research Institute.			
Nalankilli, G. & Edwin Sundar, A. (2003). <i>Chemical Preparatory Processes for Textiles</i> . New Delhi: NCUTE, Ministry of Textiles, Govt. of India.			
NIIR Board, (2003). <i>The Complete Technology Book on Textile Processing with Effluent Treatment</i> . New Delhi: Asia Pacific Business Press Inc.			
Shenai, V.A. (1975). <i>Technology of Textile Processing</i> (Vol. 1, 2, 3, 4, 6, 10.). Bombay: Sevak Publications.			
Trotman, E.R. (1985). <i>Dyeing and Chemical Technology of Textile Fibers</i> . London: Charles Griffen & Co. Ltd.			
Outcomes	<p>The students gain knowledge in</p> <ul style="list-style-type: none"> ➤ Dyeing and printing methods and principles of colour application. ➤ Develop knowledge in textile and garment processing sector. 		



Skill Component

Practical

Semester - IV			
Course Code : 9BF4P1	Core - XII - Garment Construction – Lab - Adult Wear	Credits: 4	Hours: 4
Objectives	<ul style="list-style-type: none"> ➤ The students are able to design and construct the garment for different age group of adult wear. ➤ To learn about the theme based design garments. 		
<ol style="list-style-type: none"> 1. Prepare the pattern for basic bodice block. 2. Design and stitch the garment- Six core petticoat, Chudidhar. 3. Prepare the paper pattern and stitch the garment – Salwar, Kameez, Nightie. 4. Prepare the paper pattern and stitch the garment - Blouse, Katori blouse. 5. Prepare the paper pattern and stitch the garment – Casual shirt, Formal shirt. 6. Prepare the paper pattern and stitch the garment – SB waist coat, Pleated pant. 			
Outcomes	<p>The student gain knowledge</p> <ul style="list-style-type: none"> ➤ Understand the pattern making and construction methods of men's and women's wear. ➤ Able to create own designs, developing pattern and convert them into finished product. 		



Skill Component

Practical

Semester – IV			
Course Code : 9BF4P2	Core - XIII - Textile Processing – Lab	Credits: 3	Hours: 3
Objectives	<ul style="list-style-type: none"> ➤ To understand the preparatory process of textile materials. ➤ To learn about the dyeing and printing methods of different textile fabric materials. 		
	<ol style="list-style-type: none"> 1. Preparation of samples for processing – Desizing. 2. Preparation of samples for processing – Scouring. 3. Preparation of samples for processing – Bleaching. 4. Preparation of samples for processing – Mercerizing. 5. Dyeing of fabric with direct and Reactive dyes. 6. Dyeing of fabric with acid and basic dyes. 7. Dyeing of fabric with Disperse dyes. 8. Print the sample with following techniques – Stencil, Screen and Block. 		
Outcomes	<p>The students are able to</p> <ul style="list-style-type: none"> ➤ Understand the process of desizing bleaching, dyeing and printing the fabric with different chemicals and colourants. ➤ Able to analyse the colour fastness, washing and shrinkage test of dyed fabric. 		



Skill Component

Practical / Viva Voce

Semester – IV			
Course Code : 9BF4P3	Domain Study	Credits: 2	Hours: -
Objectives	<ul style="list-style-type: none"> ➤ To enable the students to apply their theoretical knowledge with specific domain and to analyse the domain to identify the problem ➤ To make the students to understand and analyse the problems find out in the respective domains 		
	<p>Each student will be assigned to an Internal guide by the Director, Alagappa Institute of Skill Development at the starting of IV semester. The students have to choose a particular domain / application area which is practiced in their respective Industries in consultation with the Internal guide. The students have to study their domain extensively in consultation of the Internal guide at the outside of the class hours throughout the semester. This study would covers, characteristics and functionalities of the domain / area, analysis, problem identification, design of solution and etc. At the end of the semester, the student should prepare a domain study report (not less than 30 pages, A4 size) and submit the same to the Internal guide for evaluation. The Internal guide will evaluate the domain study report for 25 marks and this will be treated as Internal marks. The external evaluation for the domain study will be done by conducting viva-voce for 75 marks by the Department with two examiners and the cumulative 100 marks will be given by the Department.</p>		
Outcomes	<p>After completing this course, the students are able to:</p> <ul style="list-style-type: none"> ➤ identify the problems in a domain ➤ obtain knowledge for understanding and analysing the problems so as to create prototypes to solve the problems 		



Skill Component

Practical / Viva Voce

Semester – IV			
Course Code : 9BF4J1	NSQF Level – 6 - Industrial Engineer (AMH/Q2001)	Credits: 5	Hours: 5
Objectives	<ul style="list-style-type: none"> ➤ To impart knowledge about the concept of industrial engineering, process of work measurement. ➤ To know the importance of plant layout, planning tools and material handling systems related to the apparel industry. 		
Unit-I	<p>Introduction: Definition, Benefits, Roles and responsibilities of industrial engineer in apparel industry.</p> <p>Method study: Definition, Objectives, Basic procedure, Value Added and Non Value Added activity analysis.</p> <p>Process Chart: Flow process chart, Flow diagram, multiple activity chart, Travel chart, String diagram.</p> <p>Work Measurement: Definition, Objective, Techniques.</p> <p>Time study: Definition, steps in making time study, breaking the job into elements, stop watch procedure, pre-determined motion time study.</p>		
Unit-II	<p>The study operations sequence -material flow -functional statements - organization charts, and worker functions and responsibilities - Draft and design layout of equipment, materials, and workspace. Production and testing equipment and engineering drawings - assembling garment parts for efficient utilisation. Schedule deliveries based on production forecasts, material substitutions, storage and handling facilities, and maintenance requirements. Workflow schedule- lead times to expedite production operations.</p>		
Unit-III	<p>Drawings or specifications of devices, parts, equipment, or structures are to be fabricated, constructed, assembled, modified, maintained, or used. Estimate sizes, distances, and quantities; or determining time, costs, resources, or materials needed to perform a work activity. Prepare operation bulletin to estimate SAM with productivity at costing stage, financial planning and cost analysis. Different type of production system & their feasibility with product requirement, update method of manufacturing. Re-engineering and production benchmarks.</p>		
Unit-IV	<p>Product requirements of construction specification & quality standards, Machine specifications & regulations in factory, Reporting procedures and formats and their periodicity. Defect Classification Critical and Non Critical Defects. Defect with relation to critical defect zones Escalation Matrix - tools, templates and processes for recording and monitoring process confirmation and deviations. Interdepartmental material movement procedure.</p>		
Unit-V	<p>Planning: Cost per minute, learning curve, preparation of operation bulletin, development of skill matrix, thread consumption, estimation of on-standard and off-standard time, abnormality management.</p> <p>Lean Manufacturing: Definition, objective, concepts and principle, SMED technique.</p> <p>Line Balancing: WIP, factors influence on line balancing techniques, pitch diagram analysis.</p>		



Reference and Text Books:

Gerry Cooklin, (1991). *Introduction to Clothing Manufacture*. UK, Oxford: Blackwell Science Ltd.
 Jacob Solinger, (1998). *Apparel Manufacturing Hand Book*. New York: Columbia Bobbin Media Corp.
 Johnson Maurice, (2001). *Introduction of Work Study*. Geneva: International Labour Office.
 Khan M.I (2007). *Industrial Engineering*. New Delhi: New Age International.
 Khanna, O.P. (1987). *Industrial Engineering and Management*. New Delhi: Danpat Rai Publishing.
 Mary Mathews, (1974). *Practical Construction Part – I & II*. Chennai: Cosmic Press.
 Ralph M. Barnes. (1980). *Motion and Time Study Design and Management of Work*. New Jersey: John Wiley and sons.

SSC – AMH – Approved QP & NOS: <https://www.sscamh.com/qualification-pack/AMH/Q2001>

Note**Compulsory**

1. AMH/N 2001 (Sewing Line Planning based on production target)
2. AMH/N 2002 (Supervise, analyze and evaluate performance on sewing floor)
3. AMH/N 2003 (Research and Resolve production problems to implement better production system)
4. AMH/N 2004(Manage data, forms and instructions for recording, evaluating and reporting quality and reliability data)
5. AMH/N 0104 (Comply with industry regulatory and organizational requirements)
6. AMH/N 1605 (Maintaining a healthy, safe and secure working environment in the organization)

Outcomes

The students are able to

- Gain knowledge in production methods, productivity and industrial engineering.
- Understand the importance work measurement, plant layout, planning and control.

Note:

The evaluation for this paper for 100 marks will be carried out in three stages. Knowledge in apparel industry production flow and time management (10 Marks) import and export level manufacturing and documentation skills (15) will be evaluated by the faculty, those who are handling the subject. A Mock Interview (Viva voice) (75 marks) will be evaluated by the Internal Examiner (Faculty member of the Department) and an External Examiner. The cumulative 100 marks will be given by the Department.



General Component

Practical / Viva Voce

Semester – V			
Course Code : 9BV5G1	Entrepreneurship/ Start - Up Skills	Credits: 4	Hours: 4
Objectives	<ul style="list-style-type: none"> ➤ To develop and strengthen entrepreneurial skills and to motivate the students to become an entrepreneur. ➤ To impart basic entrepreneurial skills and understanding to run a business efficiently and effectively. 		
Unit-I	Dynamic Role of Small Business - Starting Small Business - Family Owned Businesses -Forms of Small Business.		
Unit-II	Plan and Organize a Business - Becoming the Owner of a Small Business - Planning, Organizing and Managing a Small Business - Right Financing for Business - Market Goods and Services -Developing Marketing Strategies- Promoting and Distributing.		
Unit-III	Organize and Manage the Business - Manage Human Resources and Diversity in Small Companies - Maintain Good Relationships with Employees and Their Representatives - Operate the Business - Obtaining and Laying Out Operating Facilities - Purchasing, Inventory and Quality Control.		
Unit-IV	Basic Financial Planning and Control - Profit Planning - Budgeting and Controlling Operations and Taxes - Using Computer Technology in Small Businesses.		
Unit-V	Providing Security for the Business - Risk Management, Insurance, and Crime Prevention - Maintaining Good Government Relations and Business Ethics.		
Reference and Text Books:-			
Leon C. Megginson., & Mary Jane Byrd. (2013). <i>Small Business Management - An Entrepreneur's Guidebook</i> . New York: McGraw-Hill Education.			
ISED, (2015). <i>India Start –ups, Skills and Entrepreneurship</i> . India: Institute of Small Enterprises and Development.			
Nieuwenhuizen (ed), (2010). <i>Basics of Entrepreneurship Series</i> . Cape Town: Juta Limited.			
Sangaram Keshari Mohanty, (2005). <i>Fundamentals of Entrepreneurship</i> . New Delhi: PHI Learning Pvt. Ltd.			
Outcomes	This course gave insights on Entrepreneurship / Startups in order to: <ul style="list-style-type: none"> ➤ gain knowledge and skills needed to run a business ➤ manage Cash Flow and delegate ➤ analyse Sales and Marketing Skills and Run Budgets 		



General Component

Practical / Viva Voce

Semester – V			
Course Code : 9BV5G2		Quantitative Aptitude	Credits: 4 Hours: 4
Objectives	<ul style="list-style-type: none"> ➤ To demonstrate various principles in solving mathematical problems and thereby reduce the time taken for performing job functions and to enable the students to acquire skills for facing their job interviews ➤ To learn to critically evaluate and solve various real life problems using mathematical techniques. 		
Unit-I	Numbers, HCF, LCM, Decimal Fractions, Simplification, Square Roots, cube roots, averages, Problems in numbers and ages.		
Unit-II	Surds, Indices, Percentages, Profit and Loss, Ratio and Proportion, Partnership, Chain Rule, Time and Work, Pipes and Distances.		
Unit-III	Time and distance, Problems on Trains, Boats and Streams, Alligation, Simple Interest, Compound Interest, Logarithms, Area.		
Unit-IV	Volume and Surface Area, Races and Games of Skill, Calendar, Clocks, Stocks and Shares, Permutation and Combination, Probability.		
Unit-V	True discount, Banker's Discount, Height and Distances, Odd man out and Series, Tabulation, Bar graphs, Pie charts, Line Graphs.		
Reference and Text Books:-			
Aggarwal, R S. (2018). <i>Quantitative Aptitude for Competitive Examinations</i> . New Delhi: S Chand & Co. Ltd.			
Barron's, (2016). <i>Guide for GMAT</i> . New Delhi: Galgotia Publications.			
Note: This paper is having the objectives of imparting required skills in order to face preliminary screening tests during the placement interviews. At the end of the semester, an evaluation will be done for 100 marks with 50 objectives type questions each of two marks.			
Outcomes	<p>The students are able to</p> <ul style="list-style-type: none"> ➤ Demonstrate various principles involved in solving mathematical problems and thereby reducing the time taken for performing job functions. ➤ Develop skills that enable students to identify quickly the critical issues and logically derived conclusions from written facts or data. 		



General Component

Practical / Viva Voce

Semester – V	
Course Code : 9BV5G3	Accounting Skills
	Credits: 4 Hours: 4
Objectives	<ul style="list-style-type: none"> ➤ To introduce fundamentals of accounting principles and financial statements. ➤ To analyze the business problem of accounting techniques and to develop competent decision skills in the areas of accounting
Unit-I	Introduction to Accounting – Accounting principles – Accounting equation – Double entry system – Characteristics – Classification of Accounting principles.
Unit-II	Books of Accounting – Journal – Accounting Process – Classification of Accounts – Compound Journal Entries – Important consideration for recording transaction Ledger: Difference between Journal & Ledger – Cashbook and Subsidiary Books – Purchase Books – Invoice, Sales Book, Return Book, Debit and Credit notes.
Unit-III	Trial balance: Meaning of Trial Balance, Objective and Importance of Trial Balance - Errors: Meaning and location of Errors.
Unit-IV	Financial Accounts: Meaning and typing of Financial Statements, procedure for preparing accounts – Profit and Loss Accounts – Balance Sheet – Manufacturing Account – Adjustment and treatment of adjustment.
Unit-V	Introduction to Accounting Package – Introduction to Tally: Features, advantages, defining the cells, format the data, entering data, functional keys and simple calculation – Excel: features, advantages, defining the cell range, functional keys, entering the data, defining the functions and simple calculations.
Reference and Text Books:-	
Douglas Garbutt, (1980). <i>Accounting Foundation - An Introductory</i> . London: Pitman Publishing Limited.	
Mukesh Mahajan, Gills, P.S., Sharma, V.P., & Punia, H.S. (2001). <i>Fundamentals of Accountancy</i> . Chandigarh: Unistar Books Pvt. Ltd.	
Shakla, M.C., Grawal, T.S. & Gupta, S.C. (1999). <i>Advanced Accounts</i> . New Delhi: S Chand & Co Ltd.	
Sundeep Sharma, (2004). <i>Principles of Accounting - A Complete Hand Book</i> . Jaipur: Shree Niwas Publication.	
Outcomes	This course gave insights about: <ul style="list-style-type: none"> ➤ analysis of accounting information to solve various business problems. ➤ the methods to interpret financial statements for evaluating. ➤ basic investment and financing decisions for a business.



Skill Component		Theory	
Semester – V			
Course Code : 9BF5C1	Core - XIV – Garment Quality Testing and Assurance	Credits: 5	Hours: 5
Objectives	<ul style="list-style-type: none"> ➤ To know the importance of quality parameters followed in garment industry. ➤ To understand the fabric inspection system, TQM and QC Tools. 		
Unit-I	Definition and Scope of Quality Control – Establishing Merchandising Standards – Quality Control of Raw Material - Importance of Quality & Testing Laboratories – Objectives of Testing – Atmospheric conditions for testing lab - Brief study on fibre and yarn properties.		
Unit-II	Quality terminologies – Sources of international standards - Quality Parameters of yarn: Yarn evenness & hairiness and their effect on fabric quality. Quality parameters of fabric: defects in weaving, dyeing, printing and finishing, colour fastness to washing, rubbing, light.		
Unit-III	Inspection: Definition, types and stages of inspection. In coming material inspection: Fabric inspection as per 4 point & 10 point system - Inspection of sewing threads, zippers, fusible interlinings, buttons and fasteners - Process inspection: Assessment of spreading, cutting, sewing room – Seaming defects – Control of fusing & embroidery operation.		
Unit-IV	Final inspection – Total quality management: Basic concepts, quality Principles, Barriers to TQM, TQM Implementation in manufacturing and service sectors. Basics of PDCA, Kaizen, and 5S - Application of seven QC tools in apparel industry.		
Unit-V	ISO 9000 Standards: Meaning, Definition and Elements – Study on ISO 9001:2015 Guidelines and Standard Clauses - Quality system: elements, Documentation, Quality auditing, QS9000 - ISO 14000: EMS - ISO 8000: social audit - Quality Manual and its contents – Accreditation and Certification agencies – Quality audit: Definition, types, audit procedure and requirements and characteristic of a Quality auditor.		
Reference and Text Books:-			
ASTM, <i>Annual Book of ASTM Standards - Test Method D</i> . USA: ASTM International.			
Billie J. Collier. & Helen H. Epps. (1999). <i>Textile Testing and Analysis</i> . New Jersey: Prentice Hall.			
Bhaskar, S. <i>Total Quality Management</i> (2007 Rev. ed.). Chennai: Anuradha Agencies.			
Dale H. Besterfield. (2011). <i>Total Quality Management</i> . New Delhi: Pearson Education India.			
Elliot B. Grover. & Hamby, D.S. (1988). <i>Hand book of textile Testing & Quality Control</i> . New Delhi: Wiley Eastern India.			
IS, <i>Hand Book Textile Testing – Part I & II</i> . New Delhi: Bureau of Indian Standards.			
Kothari, V. K. (1999). <i>Testing and Quality Management</i> . New Delhi: IAFL Publications.			
Narayana, V. & Sreenivasan, N.S. (2007). <i>Quality Management – Concepts and Tasks</i> . New Delhi: New Age International.			
Pradeep V. Metha. & Satish K. Bharadwaj. (1998). <i>Managing Quality in Apparel Industries</i> . New Delhi: New Age Publisher.			
Outcomes	<p>The students gain knowledge in</p> <ul style="list-style-type: none"> ➤ Yarn and fabric properties of textile material and apply the tools and techniques of quality management to manufacturing and services processes. 		



Skill Component

Theory

Semester – V			
Course Code : 9BF5E1	Elective - I -Wardrobe Planning and Clothing Care	Credits: 5	Hours: 5
Objectives	<ul style="list-style-type: none"> ➤ To get an idea about the laundering agents, equipment used in clothing care. ➤ To understand the concepts of wardrobe planning and its importance clothes choice. 		
Unit-I	Wardrobe – Definition, Wardrobe Planning - Definition – Purpose of a wardrobe plan – Taste and clothing budget – Developing an individual clothing budget – Stretching the clothing income be sewing at home – Procedure for planning wardrobe – Needs of wardrobe planning – Essential considerations in wardrobe building – Building a versatile wardrobe – Wardrobe planning for different occasions.		
Unit-II	Water- types -Laundry soaps – Manufacture of soap (Hot process, cold process), composition of soap types of soap, soap less detergents, chemical action, detergent manufacture, advantages of detergents. Finishes – Stiffening Agents – Starch (cold water and hot water), Other stiffening agents, preparation of starch. Laundry blues, their application. Bleaching agent.		
Unit-III	Laundry equipment – for storage, for steeping and Washing – Wash board, suction washer, wash boiler, washing machine. Drying equipments – Outdoor and indoor types. Irons and ironing board – types of iron (box, flat, automatic, steam iron) - Ironing board – different types.		
Unit-IV	Principles of washing – suction washing, wash by kneading and squeezing, washing by machine - Process details and machine details. Laundering of different fabrics – cotton and linen, woollens, coloured fabrics, silks, rayon and nylon.		
Unit-V	Special types of Laundry – water proof coats, silk ties, leather goods, furs, plastics, lace. Dry cleaning – using absorbents, using grease solvents. Storing – points to be noted. Stain removal – food stains, lead pencil, lipstick, mildew, nose drops, paint, perfume, perspiration / mildew, tar, turmeric and kum- kum. Care labels – washing, bleaching, Drying, ironing and different placements of label in garments.		
Reference and Text Books:-			
Durga Duellar, (1993). <i>Household Textiles and Laundry Work</i> . New Delhi: Atma Ram & Sons.			
Meenakshi Narang, (2003). <i>Hand Book of Fashion Technology</i> . New Delhi: Asia Pacific Business Press Inc.			
Mildred Throw Tate, (1961). <i>Family Clothing</i> . New York: John Wiley & Sons .Inc.			
Neomi D’Souza, (1998). <i>Fabric Care</i> . New Delhi: New Age International Publisher.			
Susheela Dantyagi, (1983). <i>Fundamentals of Textiles and their Care</i> . Hyd: Orient Longman Ltd.			
Sushma Gupta (et al.). (2009). <i>Text Book of Clothing and Textiles and Laundry</i> . New Delhi: Kalyani Publishers.			
Wingate, I B. (1963). <i>Textiles fabrics and their Selection</i> . Chennai: Allied Publishers Ltd.			
Outcomes	<p>The students get insight knowledge</p> <ul style="list-style-type: none"> ➤ Operation methods of different machinery and equipments for garment care. ➤ Wardrobe planning method and its importance in fashion field. 		



Skill Component

Theory

Semester – V			
Course Code : 9BF5E2	Elective - I – Indian Traditional Textiles and Costumes	Credits: 5	Hours: 5
Objectives	<ul style="list-style-type: none"> ➤ To learn the origin of costumes and study the ancient to modern time costume. ➤ To get an idea about the Indian traditional textiles and embroideries. 		
Unit-I	Origin of Costumes, Theories of clothing origin, Invention of needle, Development of sewing, Development of garment styles. Role of costumes. History of Indian Garments from ancient to modern times. Ethnic wear and costumes.		
Unit-II	Traditional Woven Textiles - Dacca muslin, Jamdani, Chanderi, Baluchar Buttedar, Brocades- Kam Kawab, Paithani, Peethamber, Kancheepuram brocade, Banaras brocade, Himrus and Amrus, Kashmiri shawl. Traditional printed and dyed Textiles - Printed Textiles: Kalamkari. Block printing, Roghan printing and other printed and painted textiles (Mata – mi- pachedi, Pabuji-ka-pad). Dyed Textiles: Ikat, Patola, Bandhani, Laharia, Mashru.		
Unit-III	Costumes of India – Traditional Costume of different States of India -Tamil Nadu, Kerala , Andhra Pradesh ,Karnataka, Assam, Orissa, Bihar, Mizoram, Nagaland, West Bengal.		
Unit-IV	Traditional Costume of different States of India; Maharastra, Rajasthan, Haryana, Himachal Pradesh, Uttar Pradesh, Jammu and Kashmir, Gujarat, Madhya Pradesh. Historic costumes - Indus valley, Mauryan and Sunga period, Gupta period, Mughal period, British period.		
Unit-V	Traditional embroideries of India – Origin, Embroidery stitches used –embroidery of Kashmir, Phulkari of Punjab ,Gujarat – Kutch and Kathiawar, embroidery of Rajasthan, Kasuti of Karnataka ,Chicken work of Lucknow, Kantha of Bengal – in all the above – types and colours of fabric /thread.		
Reference and Text Books:-			
Arabinda Biswas, (1985). New Delhi: Ministry of Information and Broadcasting, Publication, Govt. of India.			
Ghurye, G.S. (1966). <i>Indian Costume</i> . Mumbai: Popular books Pvt. Ltd.			
Jamila Brij Bhushan, D B. (1958). <i>The costumes and textiles and India</i> . Mumbai: Taraporevala Sons & Co.			
Nigam, M.L. (1999). <i>Indian Jewellery</i> . New Delhi: Lustre Press Pvt. Ltd.			
Shailaja D. Naik. (1996). <i>Traditional Embroideries of India</i> . New Delhi: APH Publishing Corporation.			
Outcomes	The students gain knowledge in <ul style="list-style-type: none"> ➤ History of costumes and garments of India. ➤ Traditional textiles and embroideries in India. 		



Skill Component

Practical

Semester – V			
Course Code : 9BF5P1	Core – XV – CAD – Lab – III	Credits: 4	Hours: 4
Objectives	<ul style="list-style-type: none"> ➤ To learn the CAD software tools and its application. ➤ To develop pattern for different patterns of different designs and grade the patterns. ➤ Develop the Patterns for the following Styles using any CAD Software for the given measurements and also grade the Patterns to various sizes and estimate the lay length and marker efficiency. 		
	<ol style="list-style-type: none"> 1. Drafting Basic patterns for children, ladies and men's apparel. 2. Introduction basic tools, application, making patterns for different age group. 3. Dart manipulation drafting the different types of sleeve, collar yoke, Pockets. 4. Drafting, Lay planning and pattern grading of Kids apparel - Bib, A - Line frock, Plain frock, Jhabla. 5. Drafting, Lay planning and pattern grading of Women's apparel - Salwar, Kameez, Chudidhar, Nightie. 6. Drafting, Lay planning and pattern grading of Men's apparel- Basic T-shirt with sleeve. Track suit, Men's kurta, Bermuda with side pocket. 		
Outcomes	<p>The students are able to</p> <ul style="list-style-type: none"> ➤ Gain practical experience on pattern making in different garment marker planning and grading. ➤ Able to design and making pattern for kids, women's and men's wear by CAD Pattern Making Software. 		



Skill Component

Practical

Semester – V			
Course Code : 9BF5P2	Core – XVI - Textile Testing – Lab	Credits: 4	Hours: 4
Objectives	<ul style="list-style-type: none"> ➤ To learn the fibre testing methods of different fibre properties. ➤ To study the yarn and fabric properties and do experiment the above testing. ➤ To understand the relationship of quality parameters with fabric end use. 		
	<ol style="list-style-type: none"> 1. Atmospheric condition – Relative humidity 2. Fibre test - Identification of textile fibers, fibre length and uniformity, fibre fineness. 3. Testing of hank of sliver/roving and yarn count, lea strength. 4. Testing of single yarn twist, yarn crimp. 5. Testing of fabric length, width, weight. 6. Testing of threads per inch / thread density – Pick glass and ravelling method. 7. Testing of yarn count from fabric. 8. Testing of fabric thickness, crease recovery. 9. Testing of fabric stiffness. 10. Testing of water absorbency, wicking. 11. Testing of fabric tensile strength, tear strength. 12. Testing of abrasion resistance. 		
Outcomes	<p>The students get insight knowledge in</p> <ul style="list-style-type: none"> ➤ Testing of different types of textile materials using the relevant instrument. ➤ Testing the fibre, yarn and fabric with respective properties by using the instrument. 		



General Component

Practical/Viva-Voce

Semester – VI			
Course Code : 9BV6G1	Corporate Grooming and Finishing Skills	Credits: 4	Hours: 4
Objectives	<ul style="list-style-type: none"> ➤ To enhance and sharpen the required skills and proper business etiquettes among the students to build good corporate relationship with the customers and their colleagues ➤ To impart the knowledge about Skills in Business environment 		
Unit-I	Professionalism: Professional approach & behaviour – Rational vs. emotional decisions – analysis of self-competence and self confidence – qualities of an effective executive.		
Unit-II	Corporate Etiquette: Dressing occasions – formal – semi formal and informal – Eating habits– Table manners – Body language: Kinesics and proximity.		
Unit-III	House Keeping Skills: Cleanliness at work place – Organizing the Work Table and Shelves – Spatial Utility and Energy Saving habits – Office Files and Personal Computer / Laptop management.		
Unit-IV	Front Office Skills: Reception and Greeting – Telephone manners – effective visitor appointments management – Preparation to attend office meetings – preparation to hold office meetings.		
Unit-V	Documentation: objectives, Report writing, How to write minutes, Preparation methods, and Report for media.		
Reference and Text Books:-			
Barun Mithra, (2016). <i>Personality Development and Soft Skills</i> . New Delhi: Oxford University Press India.			
Lesikar, & Flatley. (2005). <i>Basic Business Communication</i> . New Delhi: Tata McGraw Hill.			
Naveen Kumar, & Sudan, A.S. (2004). <i>Managerial Skill Development</i> . New Delhi: Anmol Publications.			
Sarvesh Gulati, (2012). <i>Corporate Grooming and Etiquette</i> . Kolkatta: Rupa Publications.			
www.executiveworld.com .			
www.selfconfidence.co.uk .			
www.senselang.com .			
Outcomes	After completing this course, the students are able to: <ul style="list-style-type: none"> ➤ build a consistent professional image with organization vision and mission. ➤ build a good corporate relationship with your customers. 		



General Component

Theory

Semester – VI			
Course Code : 9BV6G2	Fundamentals of Digital Marketing	Credits: 4	Hours: 4
Objectives	<ul style="list-style-type: none"> ➤ To study the scope of digital marketing mainly for lead generation and retention activities in both business to business and business to consumer environments. ➤ To impart the Public relation and Reputation management in e-marketing. 		
Unit-I	Digital evolution of marketing - The changing face of advertising- The Technology behind Digital Marketing - Strategic thinking- Digital Marketing Strategy- business and digital marketing - Understanding the digital consumer.		
Unit-II	Digital World-website-the hub of digital marketing world- Building an effective website-Choosing domain name-Hosting website's home on the internet- How to choose a web designer/developer-Arranging information-writing effective web content -website intelligence - Way to digital marketing success - Information measured - Measuring what's important -Testing, investing , Tweaking, reinvesting - The power of online data and watch ROI take off.		
Unit-III	E-Mail Marketing - The new direct mail- Planning campaign - Measuring success-vital component of e-mail marketing - Social media and online consumer engagement - social media - Different forms of social media - Social media dashboard - All update in one place- Rules of engagement - Adding social media to own site.		
Unit-IV	Online PR and Reputation management - Fostering a positive online Image - Promoting business through online channels - Monitoring the conversation - Reputation management-Affiliate marketing and strategic partnerships - Recognizing opportunities for strategic partnerships - Affiliate marketing.		
Unit-V	Marketing in prospect's pocket - Mobile market size and rate of growth-mobile marketing a game changing channel - Location, mobile gaming, mobile application - Measuring mobile, mobile privacy - Mobile data - Savvy consumer control - Collaborative consumption -co-creation- Evolving marketing power house-Tracking and measuring human behaviour- Game advertising - video two screen wrappers - Holistic marketing - Blurring lines and integrating media.		
Reference and Text Books:-			
Anmarie Hanlon, (2019). <i>Digital Marketing - Strategic planning and Integration</i> . New Delhi: SAGE India Publication.			
Damian Ryan, & Calvin Jones. (2012). <i>Understanding Digital Marketing - Marketing Strategies for Engaging the Digital Generation</i> (Vol. 1). New Delhi: Kogan Page India.			
Ian Dodson, (2016). <i>The Art of Digital Marketing - The Definitive Guide to Creating Strategies Targeted and Measurable Online Campaigns</i> . New Delhi: Wiley India Publications.			
Vandana Ahuja, (2015). <i>Digital Marketing</i> . New Delhi: Oxford University Press India Pvt. Ltd.			
Outcomes	After completing this course, the students are able to: <ul style="list-style-type: none"> ➤ leverage new models in business and e-commerce to increase profitability ➤ evaluate direct marketing efforts to know the ethical and legislation impacting direct marketing. 		



Skill Component

Practical / Viva Voce

Semester – VI			
Course Code : 9BS6G3	Comprehensive Study		Credits: 4 Hours: -
Objectives	➤ To refresh the knowledge of students in various fields of Fashion Technology, Textile and Apparels in order to prepare them to face their career interviews.		
Unit-I	Introduction to Fashion Technology.		
Unit-II	Pattern Making, Sewing, Grading.		
Unit-III	Basic textiles and wet processing.		
Unit-IV	Apparel Merchandising, Costing and Export Management.		
Unit-V	Garment quality testing, apparel and Assurance.		
Note: This paper aims at seamless preparation of the students for attending / facing placement technical interviews. This paper has no contact hours; however, the class mentor will give continuous instructions for preparation. At the end of the semester, an evaluation will be done for 100 marks with 100 objective type questions. The question paper will be prepared and evaluated by the Department/ Alagappa Institute of Skill Development it.			
Reference and Text Books:-			
Corbman, B.P. (1985). <i>Textile – Fiber To Fabric</i> . New York: Mcgraw Hill Book Co. International Students Edition.			
Darlie O. Koshy. (1996). <i>Effective Export Marketing of Apparel</i> . New Delhi: Global Business Press.			
Dickerson, (1998). <i>Textiles & Apparel, in the Global economy</i> . New Jersey: Prentice Hall.			
Gerry Cooklin, (1991). <i>Introduction to Clothing Manufacture</i> . Oxford: Blackwell Science Ltd.			
Mary Mathews, (1997). <i>Practical Clothing Construction – Part - I</i> . Chennai: Cosmic Press.			
Pundir, N. (2007). <i>Fashion Technology Today and Tomorrow</i> . New Delhi: Mittal Publication.			
Ruth E. Clock. & Grace I. Kunz. <i>Apparel Manufacturing</i> . New Delhi: Pearson Education India.			
Outcomes	The students are able to ➤ Comprehend Knowledge in fashion, textiles, dyeing, printing and testing and to Prepare themselves for their career in Fashion Designing.		



Skill Component

Practical

Semester – VI			
Course Code : 9BF6E1	Elective – II – Fashion Draping – Lab	Credits: 4	Hours: 4
Objectives	<ul style="list-style-type: none"> ➤ To understand the concepts of draping and design development. ➤ To drape and stitch fashionable designed garments. 		
	<ol style="list-style-type: none"> 1. Introduction to draping and dress forms. 2. Preparation of dress form and fabric preparation. 3. Draping basic front, basic back with darts. 4. Dart manipulation by pivot method - shifting all the darts. 5. Converting darts into fullness. 6. Draping of different types of yokes. 7. Draping of different types of collars. 8. Draping of different types of skirt. 9. Preparation of one basic garment by adopting Draping technique. 		
Outcomes	<p>The students are able to</p> <ul style="list-style-type: none"> ➤ Learn concepts and principles involved in draping techniques. ➤ Understand the procedure of draping the yoke, collars, sleeves and skirts. 		



Skill Component

Practical

Semester – VI			
Course Code : 9BF6E2	Elective – II – Fashion Photography – Lab	Credits: 4	Hours: 4
Objectives	<ul style="list-style-type: none"> ➤ To develop skills associated with fashion Photography techniques. ➤ To analyze facial and body proportions and produce photogenic images of a subject and apply the same to original design. 		
	<ol style="list-style-type: none"> 1. Photograph Male / Female. 2. Photograph a model, next to a window. 3. Photograph a finished design from 360° angle (4 angles) at eye-level. 4. Photograph a finished design from top angle, low angle. 5. Photograph a model – posing (multiple shots) 6. Photograph a group in action. 7. Do studio lighting – single light, multiple lights to bring out texture, design aesthetics. 8. Do portraits that flatter & character photograph. 9. Do portraits of full body images and specific areas. 		
Outcomes	<p>The students gain knowledge in</p> <ul style="list-style-type: none"> ➤ Understand the different photography techniques and equipments. ➤ Different studio lighting and portraits that flatter. 		



Skill Component

Practical

Semester – VI			
Course Code : 9BF6E3	Elective – III – Home Textiles – Lab	Credits: 3	Hours: 4
Objectives	<ul style="list-style-type: none"> ➤ To design and construct the household furnishing items. ➤ To design and construct the kitchen wear items. 		
	<ol style="list-style-type: none"> 1. Introduction – Home Textiles - Types of home textile products – Importance and recent trends. 2. Design and stitch the wall coverings and wall hangers. 3. Design and stitch the curtains – Tailored, pleated, three tired. 4. Design and stitch the different types of draperies. 5. Design and stitch the sofa set / diwan set. 6. Design and stitch the pillow covers and mattress covers. 7. Design and stitch the kitchen items – Fridge, mixie and grinder covers. 		
Outcomes	<p>The students are able to</p> <ul style="list-style-type: none"> ➤ Know about the different types of home textiles products. ➤ Understand the production method of different types of home textile materials. 		



Skill Component

Practical

Semester – VI			
Course Code : 9BF6E4	Elective – III - Garment Construction Lab - Knit Wear	Credits: 3	Hours: 4
Objectives	<ul style="list-style-type: none"> ➤ To design and construct the knitted garments for kids and women's wear. ➤ To develop theme based design of men's knitted garments. 		
	<ol style="list-style-type: none"> 1. Kid's style- Sleeveless Jhabla with neck and armhole binding, overall with full sleeve, Bloomer with elastic hem. 2. Women's style - High neck T shirt with full sleeve, V neck T shirt with half sleeve. 3. Women's style - Legging, Gathered skirt, Night pyjama set with neck binding. 4. Men's style - Basic T shirt with front patch pocket, Raglan T shirt with full sleeve, Polo T shirt with short sleeve. 5. Men's style - Bermuda with side pocket, Vest and briefs, Track pant with side piping. 		
Outcomes	<p>The students gain knowledge in</p> <ul style="list-style-type: none"> ➤ Sewing and finishing for different kids and women's knitted wear. ➤ Process involved in sewing, finishing of different men's knit wear. 		



Skill Component

Practical / Viva Voce

Semester – VI			
Course Code : 9BF6I1	Industrial Internship with Project	Credits: 6	Hours: 9
Objectives	<p>The objective of B.Voc Fashion Technology Programme is to produce Garment Industry Professionals and they are able:</p> <ul style="list-style-type: none"> ➤ To get employment in industry, government, or entrepreneurial endeavours to demonstrate professional advancements through significant theoretical and practical knowledge and expanded leadership responsibilities. 		
	<p>The student has to attach himself / herself with an organization related to his / her specialization approved by the (Alagappa Institute of Skill Development) Department for a period of 2 weeks for Industrial Internship Training with Project. One personnel of that industry and a faculty of the Department will be external and internal guides of the project respectively. The project theme, work flow and other related guidelines can be had from the Industry. The development of the project may be done in the Department by utilizing 7 lab hours per week and the monitoring of the progress and project evaluation for 50 marks can be collectively done by both internal and external guides. At the end of the internship, the student should prepare a project documentation report (not less than 50 pages, A4 size). Student should also produce a certificate of internship from the organization. The final project viva-voce for 50 marks should be conducted by the Department with two examiners and the cumulative 100 marks will be given by the Department.</p>		
Outcomes	<p>This course gave insights to:</p> <ul style="list-style-type: none"> ➤ identify the relevant objects of an application domain. ➤ specify and design the application. 		



Skill Component

Practical / Viva Voce

Semester – VI			
Course Code : 9BF6J1	NSQF Level - 7 – Boutique Manager (AMH/Q1910)	Credits: 5	Hours: 5
Objectives	<ul style="list-style-type: none"> ➤ To acquaint the students for better managerial skills on Boutique ➤ To enable the students to understand the intricacies of retail business 		
Unit-I	Research on latest trends and contemporary fashion for apparel and its target market. Identify new and promising materials, trends as well as sources/suppliers for procurement of items. Identify quality standards as applicable to the product. Develop tech pack for designs. Managing sensitive information related to design copyright (IPR). Knowledge about fabrics, trims and accessories - SMART.		
Unit-II	Introduction to Boutique management and terminologies. How to start a boutique, creating a business plan, finding a ideal location, financial planning, Government norms to run a boutique, Boutique operation. Inventory management, customer feedback register, stock register etc.		
Unit-III	Boutique, planning, layout and storing. Boutique interior planning – Boutique interiors and display locations, fixture & dressings, purchase display systems. Boutique display, Exterior of Boutique, Illumination, Masking and Proscenia Mannequins and 3D Dressing, Props & promotions on floor.		
Unit-IV	Pricing merchandise and hiring Sourcing of raw materials, Buyer supplier relationships, consumer relationship, tips and tricks to attract customers, labour management and warehouse. Portfolio Development - Develop Forecast Board based on seasons for color, trim and accessory. Develop Inspiration boards, story board, Mood Boards, colour board, for different theme / inspirations.		
Unit-V	Develop Customer Profile and develop Flat Sketches based on the theme / inspiration. Create design board with 6 designs according to theme and customer profile.		
Reference and Text Books:-			
Brenda Sternquist, <i>International Retailing</i> . New York: Fairchild Publication.			
Briana Stewart, (2014). <i>Opening a boutique store: how to start your own boutique</i> . USA, NC: Bull City Publishing.			
Elaine Stone, <i>The Dynamices of Fashion</i> . New York: Fairchild Publication.			
Gibson G. Vedomani. (2012). <i>Retail Management</i> . Mumbai: Jaico Publishing house.			
Jonny Tuckers, (2005). <i>Retail Desire</i> . UK, Brighton: Rotovision S.A.			
Laura Bliss, (1995). <i>Guide Visual Merchandising and Display</i> . New York: Fairchild Publications.			
Martin. M. Pegler. <i>Store Window</i> (No. 12, 14). New York: Visual Reference Publishers.			
Tag Goulet, Debra Mikaelson, & Catherine Goulet. (2011). <i>Guide to Become a Boutique Owner</i> . Canada: Fabjob incorporated.			
SSC – AMH – Approved QP & NOS: https://www.sscamh.com/qualification-pack/AMH/Q1910			
Note :			
1. AMH/N1910(Create design as per latest trends and establish customer needs)			
2. AMH/N1911(Allocate and check works assigned to subordinates and manage and monitor boutique performance)			



3. AMH/N1912(Build and monitor team performance)
4. AMH/N1913(Maintain health, safety and security in the boutique)
5. AMH/N0104(Comply with industry, regulatory and organizational requirements)

Outcomes

The students are able to

- understand the better managerial skills on Boutique.
- enable the students to understand the intricacies of retail business.



Skill Component

Theory

Semester – III			
Course Code : 9BF4N1	Non - major Elective – I - Fundamentals of Apparel Designing	Credits: 2	Hours: 3
Objectives	<ul style="list-style-type: none"> ➤ To understand the basic of design and its application in garments. ➤ To know about the colour concept and its importance in dress designing. 		
Unit-I	Types of Design - Structural and Decorative design, Requirements of Structural and Decorative Design, Elements of Design - Line, Size, Shape, Colour and Texture.		
Unit-II	Principles of Design - Balance, Emphasis, Proportion, Rhythm, Harmony and its types. Application of principles of design in dress design.		
Unit-III	Colour- Definition, Colour theory - Prang colour system, Dimension of colour- Hue, Value and Intensity. Colour schemes in Prang colour System.		
Unit-IV	Figure Irregularities - Stout figure, thin figure, Broad shoulders, Narrow Shoulders, Faces – Round, Large, and Small face.		
Unit-V	Wardrobe Planning – Factors to be considered while selecting clothes for different age group – Men, Women and Children.		
Reference and Text Books:-			
Harriet Tilden McJimsey, (1973). <i>Art and Fashion in Clothing Selection</i> . USA, Ames: Iowa State University Press.			
Sumathi, G.J. (2007). <i>Elements of Fashion and Apparel Design</i> . New Delhi: New Age International (P) Ltd.			
Outcomes	The students are able to <ul style="list-style-type: none"> ➤ Gain knowledge about the fundamentals of design and elements and principles. ➤ Understand the importance of wardrobe planning and figure irregularities & its remedies. 		



Skill Component

Theory

Semester – IV			
Course Code : 9BF4N2	Non - major Elective – II - Organisation of Garment Unit	Credits: 2	Hours: 3
Objectives	<ul style="list-style-type: none"> ➤ To understand the entrepreneurship and management. ➤ To know about the garment manufacturing unit and trade 		
Unit-I	Entrepreneurship- definition, types, need for Entrepreneurs, qualities and types of Entrepreneurship. Management – Definition, Management as a process – Planning, organizing, Directing, Controlling, Co-ordination		
Unit-II	Institutions supporting entrepreneurs- DIC, NSIC, SISI, SIPCOT, TII, KVIC, CODISSIA, COMMERCIAL BANKS – SBI. Organizational structure of a garment unit – Hierarchical organization, production planning and control.		
Unit-III	Different department in a garment unit – Design department, Finance department, purchasing department, Production department, Organizing different sections – hierarchy Personnel involved in all the departments, nature of the job.		
Unit-IV	Factory Design and layout – importance of factory design, factors affecting factory design, Types of buildings, (single and multi –storey) –advantages and limitation. Factory layout – Process, Product and combined layout, Design requirement.		
Unit-V	Trade: Domestic trade vs. International trade - Export marketing of apparel - Major documents for exports - Export finance - Payment method - Logistics and shipping – Export and import policy.		
Reference and Text Books:-			
Dinakarpagare, <i>Principles of management</i> . Delhi: Sultan Chand and Sons.			
Dr. C.B Gupta & Dr N.P. Srinivasan, (1997). <i>Entrepreneurship Development in India</i> . Delhi: Sultan Chand and Sons.			
Darlie O Koshy, (1997). <i>Garment Exports</i> .			
AJ Chester, (1998). <i>Introduction to clothing production management</i> . Wrenbury Associates Ltd			
Harold Carr and Barbara Latham, (1994). <i>The technology of clothing manufacture</i> . Blackwell Science.			
Outcomes	The students are able to <ul style="list-style-type: none"> ➤ Gain knowledge about the entrepreneurship and management process. ➤ Understand the different department in a garment unit and export marketing of apparel. 		



BROAD BASED BOARD OF STUDIES

Broad Based Board of Studies for Alagappa Institute of Skill Development held on 7th June, 2019 in the Alagappa Institute of Skill Development, Alagappa University, Karaikudi with the following subject Experts.

Members Present:

- | | | |
|---|--|--|
| 1 | Dr.B. Dharmalingam
Professor & Director
Alagappa Institute of Skill Development
Alagappa University, Karaikudi | Chairperson / Convener |
| 2 | Dr.G.Mahesh
Assistant Professor(Fashion Technology)
Alagappa Institute of Skill Development
Alagappa University, Karaikudi | Member |
| 3 | Dr.C.Balakrishnan
Assistant Professor(Software Development)
Alagappa Institute of Skill Development
Alagappa University, Karaikudi | Member |
| 4 | Dr.J.Hayavadana
Professor & Head, Department of Textile Technology
Osmania University
Amberpet, Hyderabad, Telangana-500007 | Subject Expert
(Fashion Technology) |
| 5 | Dr.S.Nickolas
Professor in Computer Application
National Institute of Technology, Tiruchirappalli | Subject Expert
(Software Development) |
| 6 | Dr.Anand Bhojan
Senior Faculty
Department of Computer Science
National University of Singapore, Singapore | Foreign Subject Expert |
| 7 | Dr.K.J.Sivagnanam
Head-Skill Development Initiatives
NIFT TEA, Mudalipalayam,Tirupur-641 606 | Co-opted Member from the
Industry
(Fashion Technology) |
| 8 | Mr. A. Arockia Arulnathan
Senior Automation Developer
K7 Computing Pvt.Ltd, Chennai | Co-opted Member from the
Industry
(Software Development) |



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|----|--|---|
| 9 | Dr. KM. Pachiyappan
Head, Department of Costume Design & Fashion
PSG College of Arts & Science, Coimbatore-14 | Special Invitee
(Fashion Technology) |
| 10 | Dr. A. Senthilrajan
Professor & Director
Department of Computational Logistics
Alagappa University, Karaikudi. | Special Invitee
(Software Development) |
| 11 | Dr. S. Rajaram,
Professor Dept. of Tamil
Head <i>i/c</i> , Dept. of Fine Arts
Alagappa University, Karaikudi | Special Invitee
(Tamil) |
| 12 | Dr. P. Madhan
Associate Professor and Head <i>i/c</i>
Dept of English and Foreign Languages,
Alagappa University, Karaikudi. | Special Invitee
(English) |
| 13 | Ms. J. Jenita Mary
No.3/436, Vairavapuram 3 rd Street,
Karaikudi. | Student Alumni
Special Invitee |
| 14 | Dr. E. Kannapiran
Director, Curriculum Design and Development Cell
Alagappa University, Karaikudi | Ex-Officio Member |



CURRICULUM VITAEName: **Dr. B. Dharmalingam**

Designation: Professor & Director

Address: Alagappa Institute of Skill Development, Alagappa University

Phone: 9443850902

Fax: -----

Email: dharmaws@yahoo.co.in

**Educational qualification:**

- M.A.,
- M.Phil.,
- Ph.D

Professional experience:

- 25 Years

Honours and Awards:

- Created four Vocational / Skill training units under Alagappa Institute of Skill Development, namely,
 - a. UG-B.Voc. programmes
 - b. Garment Training Unit
 - c. Alagappa University-IL&FS Institute of Skills (AU-IIS)
 - d. Small Industries Services Unit (SISU) to offer Vocational / Skill training programmes.
- Participated UK Seminar and Study tour on 'Improving Employer and Learner Engagement in Vocational Education' during 15th – 17th November 2016 at Birmingham, United Kingdom in response to the invitation of British Council - India, New Delhi
- Got approval and financial assistance of Rs. 1.85 Cr from UGC, New Delhi to start UG-B.Voc. Degree programmes in 1). Fashion Technology and 2). Software Development from the academic year 2014-'15.
- Signed eight MoUs. (Six with Industry partners, one MoU with IL&FS Institute of Skills, New Delhi to establish AU-IIS and another with Entrepreneurship Development Institute, Chennai to offer various Skill training programmes).
- Applied for DDU-KAUSHAL Kendra scheme to UGC, New Delhi for the tune of Rs. 5 Cr to offer PG and Research programmes beyond B.Voc. Degrees.
- Got approval by SSC-NASSCOM as Training partner to offer 'Web Developer' and 'Software Developer' certificate programmes.
- Produced 100% result in the skill assessment carried out by SSCs 1). Apparel Made ups & Home furnishing Sector Skill Council and 2). NASSCOM to the B.Voc. students.
- In B.Voc. programmes, 16,30,32 and 24,43,50 students were admitted during the academic years 2014-'15, 2015-'16 and 2016-'17 into the respective B.Voc. programmes in Fashion Technology and Software Development. Among them, 7 – B.Voc. Fashion Technology and 5 – B.Voc. Software Development second year students have got placement in the first year of their studies itself.
- Through, Garment Training Unit under AISD, during the period of April-2013 to January-2017 totally 300 trainees were trained in the short-term certificate courses in 'Industrial Sewing Machine Operation' and 'Embroidery' with University certificate and very minimal course fee. Rs. 2 lakhs of fund is generated from the course fee of the trainees.
- Prior to this 30 trainees were trained in Fashion Designing with the financial assistance of Rs. 1 lakh by the Entrepreneurship Development Institute (EDI), Tamil Nadu and 218 trainees were given training in Repairing of Refrigeration & AC machines, Welding Technology and other Entrepreneurship Development programmes through the 'Entrepreneurship cum Skill Development Centre'.
- Established Alagappa University-IL&FS Institute of Skills (AU-IIS), Karaikudi in October 2013 under the aegis of Alagappa University, by signing MoU with IL&FS Institute of Skills, New Delhi as India's first skills institute offering university recognized and NOS compliant placement linked short term High-end employable Technical training programmes and handhold support to start Income Generating Activities on various trades. The courses offered at AU-IIS are mapped to the NOS designed by the industry-led SSCs. During the period of The AISD/AU-IIS is offering various Certificate / Diploma programmes in Welding / CNC Machine Operator / Electrician / Patient Care Assistant / Mechatronics (both Diploma & PG Diploma) / Solar P.V. Technician / Assistant Mason / Application Development in Android / Front-End Design and Development / Banking Executive for the duration of two / three months. Within a short span of three years (2013 – 2016), AISD/AU-IIS



acclaimed 81% of placement record among the 1101 candidates trained. The AU-IIS is augmented with CNC turning machine, CNC Milling machine, Welding simulator, TIG/MIG Welding machines, AG-4, AG-7 grinding machines, Electrical Working board and healthcare equipments for providing training in the above said programmes.

- In particular, we have a specialized Mechatronics Training Centre with latest equipments such as, PLC kit, Scada PLC kit, HMI & Sensor training kit, Pneumatic with PLC and Hydraulic with PLC. We have trained 24 final year students of Alagappa Chettiar College of Engineering Technology, Karaikudi in Mechatronics. We also give training to the newly recruited faculty of ACCET in Welding, CNC and Mechatronics. As a result of our quality of training and latest amenities, the Alagappa Chettiar College of Engineering Technology, Karaikudi expresses its interest to sign MoU for extending the training to all its Students and Faculty.
- Mobilized the machineries worth of 2.25 Cr to the AISD for offering various skill / vocational training.

Recent publications:

National

- Dharmalingam. B; Empowering Rural Women And Youth Through Skill Development: The experiments of Alagappa University, in Best Practices in Rural Development, Shanlax Publications, Madurai, (ISBN 978-9385977-85-5, Nov, 2016 P.No: 267-286.
- Dharmalingam. B; Skill Development Curriculum - Possible role of Universities: A case study of Practices in Alagappa University, in Health Indicators for Physical and Cognitive Fitness Education, Universal Publishers, Chennai, (ISBN: 978-81-836868-84) 2016 P.No: 12-20.
- Dharmalingam. B; Critical Analysis of Health and Cognitive issues of Information Technology Professionals, in Health Indicators for Physical and Cognitive Fitness
- Education, Universal Publishers, Chennai, (ISBN: 978-81-836868-8-4) 2016 P.No: 2126.
- Dharmalingam. B; Inculcation of Soft skills during Academic persuasion towards Professional Sustainability of Information Technocrats, in Health Indicators for Physical and Cognitive Fitness Education, Universal Publishers, Chennai, (ISBN: 97881-836868-8-4) 2016 P.No: 243-247.
- Dharmalingam. B; பழ்தமிழ் டெதாழிசா வாவய, in Health Indicators for Physical and Cognitive Fitness Education, Universal Publishers, Chennai, (ISBN: 978-81836868-8-4) 2016 P.No: 652-655
- Dharmalingam. B; Empowering Women through Skill Development: Challenges and Opportunities, Women and Social Transformation, Department of Women's Studies, Alagappa University, (ISBN 978-81-928690-4-9), 2016, p-42-52.
- Dharmalingam. B; Nutritional Status Assessment of Ramanathapuram Adolescent College Girls, Feminism Today, (ISBN 978-81-928113-8-3), 2014, p-427-430
- Dharmalingam. B; Feminist Research Methodology, Enhancing the Quality of Social Science Research, Department of Women's Studies, Alagappa University (ISBN 978-81928690-3-2), 2014, P.No: 53-82
- Dharmalingam. B; The Idea and Practice of Mainstreaming Gender in Development and Governance, Gender Mainstreaming and Sustainable Development, Department of Women's Studies, Alagappa University, (ISBN 978-81-927063-2-0), 2013

International

- Dharmalingam. B; Continuum of Nehruvian Discourse in contemporary rural development in India, International Research Journal of Business and Management – IRJBM, Vol. IX, Issue-7 (ISSN 2322-083X), July- 2016
- Dharmalingam. B; Pandit Jawaharlal Nehru: The Founding Father of Panchayati Raj Institutions in India, International Journal of Management and Social Science Research Review, Vol.1, Issue.5. (ISSN 2349-6738), May - 2016, p-127-132.
- Dharmalingam. B; A Study on Sustainable Development of Small & Medium Enterprises in Ashar Nagar, 60 Feet Road, Tirupur, Management Research (Athenaeum 09), BIM, Thiruchirapalli, 2009.
- Dharmalingam. B; Human Rights Education: Lessons for Life, Third Concept – An International Journal of Ideas - Vol.14, No.168, Feb, 2001, p.23-24

Cumulative Impact factor:

Total Citation: 34

h- index: 02

i10- index: 01



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**Educational qualification:**

- M.Sc.,
- Ph.D

Professional experience:

- 9 Years

Honours and Awards:

- UGC NET qualified in 2008 and 2010
- Academic Proficiency Award

Recent publications:**National conference**

- **G. Mahesh**, “Computational Textiles Bioengineering”, Two-Day National Conference on Recent Trends in Informatics (NCRTI 2018), Alagappa Institute of Skill Development, Alagappa University, Karaikudi, 19th - 20th March 2018
- J. Jenita Mary and **G. Mahesh**, “Smart Textiles for wearable Technology”, Two-Day National Conference on Recent Trends in Informatics (NCRTI 2018), Alagappa Institute of Skill Development, Alagappa University, Karaikudi, 19th - 20th March 2018
- S.Karpagam and **G. Mahesh**, “Smart Textiles for wearable Technology”, Two-Day National Conference on Recent Trends in Informatics (NCRTI 2018), Alagappa Institute of Skill Development, Alagappa University, Karaikudi, 19th - 20th March 2018.
- B.Subbulakshmi and **G. Mahesh**, “Study the Anti diabetic effect of Millet foods in diabetic induced rats , Two-Day National Conference on Recent Trends in Informatics (NCRTI 2018), Alagappa Institute of Skill Development, Alagappa University, Karaikudi, 19th - 20th March 2018.
- **G. Mahesh** and B.Dharmalingam, “Nanotechnology Applications in Textiles. One day national conference on Recent Developments in Textile and Fashion, PSG College of Arts and Science, Coimbatore., 19th March. 2018.
- **G. Mahesh** and B.Dharmalingam, “Eco Friendly Approaches in Textile water treatment. One day national conference on Emerging Trends in the Apparel Sector, Bishop Appasamy College of Arts and science, Coimbatore., 7 th February 2018.
- **G. Mahesh** and A. Sharada Devi “Effect on Enzyme treatment on bamboo fabric dyed with natural dyes”, Two day national conference on Emerging strategies in Green Textiles and Sustainable Fashion, Alagappa Institute of Skill Development, Alagappa University, Karaikudi, 10th - 11th January 2017
- **G. Mahesh** and D.Anitha “Bioremediation of textile waste water treatment. Two day national conference on Emerging strategies in Green Textiles and Sustainable Fashion, Alagappa Institute of Skill Development, Alagappa University, Karaikudi, 10th - 11th January 2017
- **G. Mahesh** “ Research on replacing synthetic fibre with coir fibre for mulches in agricultural fields, Two day national conference on Emerging strategies in Green Textiles and Sustainable Fashion, Alagappa Institute of Skill Development, Alagappa University, Karaikudi, 10th - 11th January 2017

International conference

- **G. Mahesh** “Musculoskeletal disorders for apparel Industry workers. International Conference on Health Indicators for Physical and Cognitive Fitness Education Faculty of Education, Alagappa University, Karaikudi, 26th - 27th February 2016.



- **G.Mahesh** and Sirisha Deepthi Sornapudi, “Techniques And Application of Smart Textiles, IT Skills Show & International Conference on Advancements in Computing Resources (SSICACR 2017), Alagappa Institute of Skill Development & Computer Centre, Alagappa University, Karaikudi, 15th - 16th February 2017.
- Sirisha Deepthi Sornapudi and **G.Mahesh**, “Fashion on Smart Phone –APPS that Connect with Customer. Techniques And Application of Smart Textiles, IT Skills Show & International Conference on Advancements in Computing Resources (SSICACR 2017), Alagappa Institute of Skill Development & Computer Centre, Alagappa University, Karaikudi, 15th - 16th February 2017.

National Publications

- Ashwini Joshi, D.Anitha and G.Mahesh and Physical properties of organic and non organic cotton: comparative study, Manmade Textiles in India, Vol. XLVI No. 7 July 2018.
- G.Mahesh and Anitha Eco friendly fabrics from bamboo. The Indian textile Journal.Vol124 No.7 April 2014
- Anitha and G.Mahesh Utility of herbal products in Antimicrobial finishing of cotton Fabrics. The Journal of Research of ANGRAU. Vol.XLI No.3 July-September 2013.
- Handle properties of enzyme treated bamboo and bamboo blended fabrics. The Journal of Research of ANGRAU. Vol.XL No.2 April-June 2012.
- Natural dye on bamboo and bamboo blended fabrics. International workshop on Natural Dyes 2014, March NAIP-VCND, ICAR, ANGRAU, Hyderabad.

International

- G.Mahesh and Sirisha Deepthi Sornapudi, Techniques and application of Smart Textiles, International Journal of Computer Science Volume 5, Issue 2, No 05, 2017
- Sirisha Deepthi Sornapudi and G.Mahesh Fashion on Smartphone - Apps that Connect with Consumer, International Journal of Computer Science Volume 5, Issue 2, No 04, 2017
- G.Mahesh, Anitha and Sharada Devi, Study of bamboo charcoal polyester nonwoven fabric for effluent filtration. International Journal of Advanced Research in Management and social sciences. Vol.3.No.7 July 2014.

Cumulative Impact factor:

Total Citation: 01

h- index: 01

i10- index: 0



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Educational qualification:

- M.Sc.,
- M.Phil.,
- Ph.D

Professional experience:

- 14 Years

Honours and Awards:

- UGC NET qualified in 2012
- SET qualified in 2012
- Appreciation letter from the Vice-Chancellor, Alagappa University for contributions for preparation towards NAAC Accreditation, NIRF Ranking and IoE proposal in 2018
- College Appreciation Award in 2010

Recent publications:

National Conference

- P. Subhasri and **C. Balakrishnan**, “Survey on Data Mining Techniques for Plant Leaf Classification”, Two-Day National Conference on Recent Trends in Informatics (NCRTI 2018), Alagappa Institute of Skill Development, Alagappa University, Karaikudi, 19th - 20th March 2018
- S. Santhosh Kumar and **C. Balakrishnan**, “Issues and Challenges for Digital Forensic Investigation”, Two-Day National Conference on Recent Trends in Informatics (NCRTI 2018), Alagappa Institute of Skill Development, Alagappa University, Karaikudi, 19th - 20th March 2018
- **C. Balakrishnan**, S. Santhosh Kumar and A. Sumathi “An Analysis of Mitigation Policies of Information Security”, Two-Day National Conference on Recent Trends in Informatics (NCRTI 2018), Alagappa Institute of Skill Development, Alagappa University, Karaikudi, 19th - 20th March 2018
- **C. Balakrishnan**, and B. Dharmalingam “A Study on Internet Penetration in Rural India”, Two-Day National Conference on Recent Trends in Informatics (NCRTI 2018), Alagappa Institute of Skill Development, Alagappa University, Karaikudi, 19th - 20th March 2018
- K. Nithya Kalyani and **C. Balakrishnan**, “Emerging Trends in Educational Informatics”, Two-Day National Conference on Recent Trends in Informatics (NCRTI 2018), Alagappa Institute of Skill Development, Alagappa University, Karaikudi, 19th - 20th March 2018
- K. Seethalakshmi and **C. Balakrishnan**, “Content Based Image Retrieval using R+ Tree Algorithm”, Two-Day National Conference on Recent Trends in Informatics (NCRTI 2018), Alagappa Institute of Skill Development, Alagappa University, Karaikudi, 19th - 20th March 2018
- **C. Balakrishnan**, B. Dharmalingam, “A Study on Gender Discrimination and Information Technology Skills Acquisition”, UGC Sponsored Two-Day National Conference on Contemporary Issues in Justice and Human Rights (CIJHR 07), Department of History & Alagappa Institute of Skill Development, Alagappa University, Karaikudi, 25th - 26th September 2017
- **C. Balakrishnan**, S. Ganesan, “An Investigation on Inclusiveness of Mobile Apps for Justice and Rights”, UGC Sponsored Two-Day National Conference on Contemporary Issues in Justice and Human Rights (CIJHR 07), Department of History & Alagappa Institute of Skill Development, Alagappa University, Karaikudi, 25th - 26th September 2017
- **C. Balakrishnan**, Albert Levay, “An Empirical Analysis of Awareness on Rights by the IT Technocrats”, UGC Sponsored Two-Day National Conference on Contemporary Issues in Justice and Human Rights (CIJHR 07), Department of History & Alagappa Institute of Skill Development, Alagappa University, Karaikudi, 25th - 26th September 2017
- **C. Balakrishnan**, S. Santhoshkumar, “A Study on the Role of Digital Age and ICT in Protecting and Promoting Uniform Justice and Rights”, UGC Sponsored Two-Day National Conference on Contemporary Issues in Justice and Human Rights (CIJHR 07), Department of History & Alagappa Institute of Skill Development, Alagappa University, Karaikudi, 25th - 26th September 2017



- S. Santhoshkumar, **C. Balakrishnan**, “Study on detection of Hacking in Wireless using Access Point”, National Conference on Emerging trends in Computing (NCETC 2017), Department of Computer Science, Alagappa University, Karaikudi, 13th - 14th March, 2017
- **C. Balakrishnan**, “An Analysis on Nano-Fabrics as Emerging Smart Textile”, National Conference on Emerging Strategies in Green Textiles and Sustainable Fashion (NCESGTSF - 2017), Alagappa Institute of Skill Development, Alagappa University, Karaikudi, 10th - 11th January 2017
- **C. Balakrishnan**, “CAD/CAM - Past, Present and Future in Textile Curriculum and Industry”, National Conference on Emerging Strategies in Green Textiles and Sustainable Fashion (NCESGTSF - 2017), Alagappa Institute of Skill Development, Alagappa University, Karaikudi, 10th - 11th January 2017
- **C. Balakrishnan**, “A Recital on Biological Computers”, National seminar on Advances in Computer Science (NSACS 2016), Department of Computer Science, Alagappa University, Karaikudi, 21st - 22nd October, 2016
- **C. Balakrishnan**, “A Critic review on Biodiversity Informatics”, National seminar on Advances in Computer Science (NSACS 2016), Department of Computer Science, Alagappa University, Karaikudi, 21st - 22nd October, 2016
- **C. Balakrishnan**, “Swami Vivekananda: A True Igniter of Young Minds”, National Conference on Swami Vivekanandar: A Youth Icon (SVYI-2016), Swami Vivekananda Centre for Higher Research and Education, Alagappa University, Karaikudi, 24th October, 2016
- D.I. George Amalarethnam and **C. Balakrishnan**, "ElasticPeerDB- An Optimized Approach for Efficient Fragmentation and Re-Allocation in Peer-to-Peer Distributed Databases", National Conference on Emerging Trends in Software Development, Alagappa University, March 2016.
- M. Priya and **C. Balakrishnan**, "A Critical Study on Agile Software Development Methodologies", National Conference on Emerging Trends in Software Development, Alagappa University, March 2016.
- M. Rekha and **C. Balakrishnan**, "An Analytical Study of Multimedia User Interfaces in Education", National Conference on Emerging Trends in Software Development, Alagappa University, March 2016.
- M. Priya and **C. Balakrishnan**, "Analysis of Green Computing Impacts on Environment", National Conference on Emerging Trends in Software Development, Alagappa University, March 2016.
- Karamchand Gandhi and **C. Balakrishnan**, "The Internet of Things (IOT)- Architecture, Applications, Security and Privacy", National Conference on Recent Advancements in Software Development, Alagappa University, March 2015.

International Journals

- S. Santhoshkumar, **C. Balakrishnan**, R.Muthulakshmi, "A Study of Stress Caused by Social Interactions in Social Networks", International Journal of Computer Engineering and Applications (ISSN 2321-3469), Vol. 12, Issue 5, pp. 142-147, May 2018.
- **C. Balakrishnan**, "An enhanced methodology for efficient Fragmentation and Re-Allocation in P2PDDBS", International Journal of Advanced Research Trends in Engineering and Technology (IJARTET) (ISSN 2394-3777), Vol. 3, Special Issue 20, pp. 590-595, April 2016.
- D.I. George Amalarethnam and **C. Balakrishnan**, "HAADAS- An enhanced approach for Re-allocation of Fragments in Peer-to- Peer Distributed Databases", International Journal of Applied Engineering Research (ISSN 0973-4562) - Scopus Indexed, Annexure II Journal, Vol. 10 No.82, pp. 315-320, 2015.
- D.I. George Amalarethnam and **C. Balakrishnan**, "An improved mechanism of clustering the sites for Peer-to-Peer Distributed Databases", International Journal of Fuzzy Mathematical Archive (ISSN- 2320-3242), Vol. 5, No. 2, pp. 57-69, December 2014.
- D.I. George Amalarethnam and **C. Balakrishnan**, "*oDASuANCO* - Ant Colony Optimization based Data Allocation Strategy in Peer-to-Peer Distributed Databases", International Journal on Science, Engineering and Technology, International Journal of Enhanced Research Publications (ISSN NO- 2319-7463), Vol. 2, No. 3, pp. 1-8, March 2013.
- D.I. George Amalarethnam and **C. Balakrishnan**, “A Study on Performance Evaluation of Peer-to-Peer Distributed Databases”, IOSR Journal of Engineering (ISSN- 2250-3021), Vol. 2(5) pp- 1168-1176, May 2012.
- D.I. George Amalarethnam and **C. Balakrishnan**, “A Survey on Peer-To-Peer Real Time Object Databases”, Published in International Journal on Research and Reviews in Computer Science (IIRCS) (ISSN-2079-2557), Vol. 1, No. 4, pp. 8-10, December 2010.



International Conferences

- K. Nithya Kalyani, **C. Balakrishnan**, “Photo Sharing Safe Mode Services to Make Privacy Reliability”, IT Skills Show & International Conference on Advancements in Computing Resources (SSICACR 2017), Alagappa Institute of Skill Development & Computer Centre, Alagappa University, Karaikudi, 15th - 16th February, 2017.
- M. Rekha, **C. Balakrishnan**, “Study on New Architecture for Enhancing the Security and Performance of E-Mail Security Protocols”, IT Skills Show & International Conference on Advancements in Computing Resources (SSICACR 2017), Alagappa Institute of Skill Development & Computer Centre, Alagappa University, Karaikudi, 15th - 16th February 2017.
- M. Priya, **C. Balakrishnan**, “Big data- Issues, Challenges and Tools”, IT Skills Show & International Conference on Advancements in Computing Resources (SSICACR 2017), Alagappa Institute of Skill Development & Computer Centre, Alagappa University, Karaikudi, 15th - 16th February 2017.
- M. Priya, **C. Balakrishnan**, “A Brief Introduction to Process and Analyze Healthcare Big Data on Cloud Environment”, IT Skills Show & International Conference on Advancements in Computing Resources (SSICACR 2017), Alagappa Institute of Skill Development & Computer Centre, Alagappa University, Karaikudi, 15th - 16th February 2017.
- B. Dharmalingam, **C. Balakrishnan**, M. Priya, “Role of ICT in Vocational Education and Training”, IT Skills Show & International Conference on Advancements in Computing Resources (SSICACR 2017), Alagappa Institute of Skill Development & Computer Centre, Alagappa University, Karaikudi, 15th - 16th February 2017.
- B. Dharmalingam, **C. Balakrishnan**, M. Priya, “Blended Learning- A Pathway to Enhance Learning Experiences in Vocational Education”, IT Skills Show & International Conference on Advancements in Computing Resources (SSICACR 2017), Alagappa Institute of Skill Development & Computer Centre, Alagappa University, Karaikudi, 15th - 16th February 2017.
- **C. Balakrishnan**, “A Recital on Extreme Programming and SDLC”, IT Skills Show & International Conference on Advancements in Computing Resources (SSICACR 2017), Alagappa Institute of Skill Development & Computer Centre, Alagappa University, Karaikudi, 15th - 16th February 2017.
- **C. Balakrishnan**, “An Empirical Study on Agile based Development and Testing Methodologies”, IT Skills Show & International Conference on Advancements in Computing Resources (SSICACR 2017), Alagappa Institute of Skill Development & Computer Centre, Alagappa University, Karaikudi, 15th - 16th February 2017.
- B. Dharmalingam and **C. Balakrishnan**, "Skill Development Curriculum - Possible role of Universities- A case study of Practices in Alagappa University", International Conference on 'Health Indicators for Physical and Cognitive Fitness Education' Alagappa University, Karaikudi, 26th & 27th February, 2016.
- B. Dharmalingam, **C. Balakrishnan** and M. Priya, "Critical Analysis of Health and Cognitive issues of Information Technology Professionals in India", International Conference on 'Health Indicators for Physical and Cognitive Fitness Education' Alagappa University, Karaikudi, 26th & 27th February, 2016.
- B. Dharmalingam, M. Priya and **C. Balakrishnan**, "Inculcation of Soft skills during Academic persuasion towards Professional Sustainability of Information Technocrats", International Conference on 'Health Indicators for Physical and Cognitive Fitness Education' Alagappa University, Karaikudi, 26th & 27th February, 2016.
- D.I. George Amalarethnam and **C. Balakrishnan**, "HAADAS - An enhanced approach for Re-allocation of Fragments in Peer-to- Peer Distributed Databases", International Conference on Advanced Computing (ICAC 2015), Jamal Mohamed College, Tiruchirappalli, December 3-4, 2015.
- B. Dharmalingam and **C. Balakrishnan**, "Empowering Women through Skill Development- Challenges and Opportunities", International Conference on 'Women and Social Transformation- New Era of Just and Gender- Fair Society (ICWS - 2015)' Alagappa University, Karaikudi, 21st & 22nd August 2015.
- D.I. George Amalarethnam and **C. Balakrishnan**, "An Optimized Strategy for Data Allocation in Peer-to-Peer Distributed Databases", International Conference on Mathematical methods and Computation (ICOMAC 2015), Jamal Mohamed College, Tiruchirappalli, 22-23, January 2015.

Cumulative Impact factor:

Total Citation: 14

h- index: 03

i10- index: 0



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Educational qualification:

- B.Tech.,
- M.Tech.,
- Ph.D

Professional experience:

- 30 Years

Honours and Awards:-----

Recent publications:

National

- Design and Development of Drape Tester , Journal of Apparel Technology and Management , June 2018

International

- Arjun. D L, RenukaTejaswini, J Hayavadana and Susheel “ Effcet of Potassium PermanganateFinish on the Properties of Denim Fabric” European Journal of Advances in Engineering andTechnology, 3(9), December 2016, 28-32
- Arjun. D L. RenukaTejaswini, Vinay Kumar Midha and J Hayavadana“ Potential of NonwovenFabrics as Surgical Gowns” International Research Journal of Medical Sciences, 5(1), February2017,1-4.
- Novel Approach To Apparel Drape measurement- A New Horizon, Prof. Dr.J. Hayavadana, Ayodya Kavitha,Kodamagundla Sreenu, International Journal of Advance Research in Science and Engineering, Vo.No:6, Issue No:3, March 2017
- ‘When textiles meet computers’, Ayodya Kavitha, Prof. J.Hayavadana and Bathini Deepthi, May 2017, Link: <http://www.fibre2fashion.com/industry-article/7930/when-computers-meet-textiles>
- ‘Novel methods of Assessment Asthetic properties of Dress material’International Journal of Current Advanced Research, July 2017
- Arjun. D L. RenukaTejaswini, Vinay Kumar Midha and J Hayavadana“ Potential of NonwovenFabrics as Surgical Gowns” International Research Journal of Medical Sciences, 5(1), February2017,1-4.
- Novel Approach To Apparel Drape measurement- A New Horizon, Prof. Dr.J. Hayavadana, Ayodya Kavitha, Kodamagundla Sreenu, International Journal of Advance Research in Science and Engineering, Vo.No:6, Issue No:3, March 2017
- ‘When textiles meet computers’, Ayodya Kavitha, Prof. J.Hayavadana and Bathini Deepthi, May 2017, Link: <http://www.fibre2fashion.com/industry-article/7930/when-computers-meet-textiles>
- ‘Novel methods of Assessment Asthetic properties of Dress material’ International Journal of Current Advanced Research, July 2017
- “NEW METHODS OF ASSESSING AND GRADING APPAREL FABRICS”, S.Viswanaath., J. Hayavadana., Ayodya Kavitha ., J.Lakshminarayana and Pradeepkumar, International Journal of Current Advanced Research., Sept 2018
- Application of a Multivariate Analysis (Biplot) Method to a Comparative Study of Fabric Characteristics-J. Hayavadana+, Srinivasulu .K*,International Journal of Latest Technology in Engineering, Management & Applied Science (IJLTEMAS),Volume VII, Issue XII, December 2018 , ISSN 2278-2540
- Study of degradation of polyester partially oriented yarns through alkaline hydrolysis process Hayavadana J,1 Srinivasulu K, Volume 5 Issue 1 – 2019,MEDCRAVE, Journal of Textile Engineering & Fashion Technology

Cumulative Impact factor:

Total Citation: 199

h- index: 02

i10- index: 01



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**Educational qualification:**

- M.C.A.,
- M.E.,
- Ph.D

Professional experience:

- 30 Years

Honours and Awards:---**Recent publications:****National Conference**

- P.Asokan, S.Nickolas, "CAD/CAM solutions for CNC machining/turning center", Eighth ISME conference on mechanical engineering New Delhi, 1993.
- P.Ramaraj, S.Nickolas, "A descriptive study on data mining and Algorithm for multi-dimensional association", All India seminar on IT for 21st century, IE(India), 1997.
- N.Gayatri, S.Nickolas, A.V.Reddy, "Comparative Study of Software Quality Metrics Feature Set Using Data mining Techniques", National Conference on Advanced Pattern Mining and Multimedia Computing(APMMC 10), NIT, Tiruchirappalli, February 2010.

International Conference

- K. Shobha, S. Nickolas, "Imputation of multivariate attribute values in big data", International Conference on Smart Intelligent Computing and Applications, Springer, Singapore, 2019, pp. 53-60.
- K. Shobha, S. Nickolas, "Integration and Rule-based Pre-Processing of Scientific Publication Records from Multiple Data Sources", International Conference on Smart Intelligent Computing and Applications(SCI 2018), Springer, Bhubaneswar.
- Silambarasan E, Nickolas S, Mary Saira Bhanu S, "Attribute based Convergent Encryption Key Management for Secure Deduplication in Cloud", 3rd International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2018), Springer, Bhubaneswar.
- Sareena Rose, Nickolas, S., Sangeetha, S., "Machine Learning and Statistical Approaches used in Estimating parameters that affect the soil fertility status : A Survey", Second International Conference on Green Computing and Internet of Things (ICGCIoT 2018), IEEE, Bangalore.
- Pitchai, A. V. Reddy, N. Savarimuthu, "Quantum walk based genetic algorithm for 01 quadratic knapsack problem", 2015 International Conference on Computing and Network Communications (CoCoNet) (2015) 283-287.
- T. Subramanian, N. Savarimuthu, "Effective tariff selection on cloud services: A consumer perspective", 2014 International Conference on Contemporary Computing and Informatics (IC3I) (2014) 326-330

International Journals

- M.Chandrasekaran,P.Asokan,S.Kumanan,T.Balamurugan,S.Nickolas,"Solving job shop scheduling problems using Artificial Immune System", International Journal of Advanced Manufacturing Technology, UK,(2006) 31:580-593
- S.Nickolas , C.S.P.Rao , A.V.Reddy and P Asokan," Performance Enhancement of Flow Shop Scheduling using Data Mining", Journal of Advanced Manufacturing Technology, CMTI, Vol.6,No.8, pp.17-23, August 2007
- Ilango Paramasivam, Hemalatha Thiagarajan, Nickolas Savarimuthu , "Imputation of Missing Data Using Weight Based Clustering in type II diabetes Databases", Journal of Advanced Research in Computer Engineering, Vol 3, No. 1,pp99-104 January-June 2009.ISSN:0974-4320
- Sarojini BalaKrishnan, Ramaraj NarayanaSwamy, Nickolas Savarimuthu, "Feature Selection Using F-Score on Classification of TYPE II Diabetes Databases", Journal of Advanced Research in Computer Engineering, Vol 3, No. 1,pp.1-6,January-June 2009.ISSN:0974-4320



- Ilango Paramasivam, Hemalatha Thiagarajan, Nickolas Savarimuthu, “A Semi Supervised Clustering by λ _cut for Imputation of missing Data in TYPE II Diabetes Databases”, Indian Journal of Medical Informatics, Vol 4, No. 1, 2009
- Ilango Paramasivam, Hemalatha Thiagarajan, Poonkuntran Shanmugam, Nickolas Savarimuthu, “Imputation of Missing Data :A Semi Supervised Clustering Methodology”, Journal of information Science and Technology, 6(3) pp 38-55, Washington, DC, USA 2009.
- Sarojini BalaKrishnan, Ramaraj NarayanaSwamy, Nickolas Savarimuthu, “ Feature Subset Selection using Nomogram in TYPE II Diabetes Databases”, Indian Journal Of Medical Informatics, 4(1):5, 2009.
- N.Gayatri, S.Nickolas, A.V.Reddy, ”Performance Analysis and Enhancement of Software Quality Metrics using Decision Tree based Feature Extraction”, International journal of Recent Trends in Engineering, Vol 2, No. 4, pp.54-56, November 2009.
- R.Chithra, S.Nickolas, ”A Novel Algorithm for Mining Hybrid-Dimensional Association Rules”, International journal of Computer Applications(0975-8887), Vol1-No.16, pp.62-69, 2010.
- R.Chithra, S.Nickolas, “Partition Based High Utility Itemset Mining”, Intl. J. of Decision Making in Supply Chain and Logistics, Vol.1, No.2, pp.153-165, July-Dec. 2010.
- R.Eswari, S.Nickolas, “A Level-wise Priority Based Task Scheduling for Heterogeneous Systems”, Intl. J. of Information and Education Technology, Vol.1, No.5, pp.371-376, Dec.2011.
- R.Chithra, S.Nickolas, “ HUPT-Mine : An efficient algorithm for high utility pattern mining”, Intl. J. of Business and Systems Research, Vol.6, No.3, pp.279-275, 2012.
- R.Eswari, S.Nickolas, “Efficient Task Scheduling for Heterogeneous Distributed Systems using Firefly Algorithm”, Intl. J. of Computer Science and Engineering (Accepted).
- S.Karthikeyan, P.Asokan, S.Nickolas, T.Page, “Solving Flexible Job Shop Scheduling Problems with a hybrid PSO Algorithm and Data Mining-An Attribute oriented approach”, Intl. J.of Manufacturing Technology and Management.(Accepted).
- R.Chithra, S.Nickolas, “VB-HU-Mine : An Efficient High Utility Itemset Mining Algorithm using Vertical Data Representation”, Intl. J. of Information Technology and Management.
- Anandkumar P, S.Nickolas, "Significance of One-Class Classification in Outlier Detection", IJCIIS, June 2013, Vol 4, No. 6.
- S.Karthikeyan, P.Asokan, S.Nickolas, "A hybrid discrete firefly algorithm for multi-objective flexible job shop scheduling problem with limited resource constraints", Int J Adv Manuf Technol, 2014.
- N.Gayatri, S.Nickolas, A.V.Reddy, "A Frame Work for Business Defect Predictions in Mobiles", IJCA, Vol 81, No.1, November 2013.
- R.Eswari, S.Nickolas, Michael Arock "A path priority-based task scheduling algorithm for heterogenous distributed systems", Int.J.Communication Networks and Distributed Systems, Vol 12, No.2, 2014
- R.Eswari and S.Nickolas "Effective task scheduling for heterogenous distributed systems using firefly algorithm", Int.J.Computational Science and Engineering, Vol 11, No. 2, 2015
- T. Subramanian, N. Savarimuthu, “Application based brokering algorithm for optimal resource provisioning in multiple heterogeneous clouds”, Vietnam Journal of Computer Science 3 (2015) 57-70.
- A. Prakasam, N. Savarimuthu, “Metaheuristic algorithms and probabilistic behaviour: a comprehensive analysis of ant colony optimization and its variants”, Artificial Intelligence Review 45 (2015) 97-130.
- T. Subramanian, N. Savarimuthu, “Cloud service evaluation and selection using fuzzy hybrid MCDM approach in marketplace”, IJFSA 5 (2016) 118-153.
- A. Pitchai, A. V. Reddy, N. Savarimuthu, “Fuzzy based quantum genetic algorithm for project team formation”, IJIT 12 (2016) 31-46.
- A. Prakasam, N. Savarimuthu, “Novel local restart strategies with hyper populated ant colonies for dynamic optimization problems”, Neural Computing and Applications (2018) 1-14.
- K. Shobha, S. Nickolas, “Analysis of importance of pre-processing in prediction of hypertension”, CSI Transactions on ICT 6 (2) (2018) 209-214.

Cumulative Impact factor:

Total Citation: 347

h- index: 09

i10- index: 07



CURRICULUM VITAE

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Educational qualification:

- M.C.A.,
- **PGC in Teaching Higher Education**
- Ph.D

Professional experience:

-

Honours and Awards:

- 2012 Nominated for Best PhD Thesis Award (Wang Gungwu Medal & Prize), National University of Singapore.
- 2011 Dean's Graduate Research Achievement Award (PhD), SoC, National University of Singapore.
- 2006 Best R&D Project award, TOTE Board, Singapore model R&D project, 'Mobile Industrial Network Integrating 3G for Mobile Experiments'
- 2003 Best Presenter Award, Industrial-Info Comm. Technology (M2M), Singapore Industrial Automation Association, Mobile/Wireless Enabling Technologies for M2M
- 2000 Best Presentation Award, Association Of Principals Of Colleges Of Bharathiar University., 'Need Based Curriculum Development'
- 1995 Gold medal for first Rank (out of 4000) in Computing, Bharathiar University, Awarded by the honourable Governor of the State
- 1989 State Government's Higher Education Scholarship for Outstanding Academic Performance, State 39th Rank among 300,000 candidates.

Recent publications:

International

- Bhojan Anand and Pan Wenren, "CloudHide: Towards Latency Hiding Techniques for Thin-client Cloud Gaming," ACM Multimedia 2017. ACM, New York, NY, USA, 144-152.
- Anand Bhojan, Hong Wei Wong, "TITAN – Asynchronous multiplayer shooter with procedurally generated maps," In Entertainment Computing, Volume 16, 2016, Pages 81-93, ISSN 1875-9521.
- Bhojan Anand, Li Kecen, Akkihebbal L. Anand , "PARVAI - HVS Aware Adaptive Display Power Management for Mobile Games," IPS/IEEE Proceedings of the 7th International Conference on Mobile Computing and Ubiquitous Networking - ICMU 2014.
- Bhojan Anand, "Energy Efficient Multi-player Smartphone Gaming using 3D Spatial Subdivisioning and PVS Techniques," Proceedings of the 21th ACM International Conference on Multimedia - IMMPD 2013, Barcelona, Spain.
- Bhojan Anand , Lee Kee Chong, Ee-Chien Chang, Mun Choon Chan, Akkihebbal L. Ananda and Wei Tsang Ooi, "El-pincel: a painter cloud service for greener Web Pages," Proceedings of the 20th ACM international conference on Multimedia Nov 2012, Nara, Japan.
- K Thirugnanam, Bhojan Anand, J Sebastian, PG Kannan, AL Ananda, RK Balan, and MC Chan, "Dynamic Lookahead Mechanism for Conserving Power in Multi-Player Mobile Games," IEEE INFOCOM 2012, Orlando, Florida, Mar 2012.
- Bhojan Anand, Akkihebbal L. Ananda, Mun Choon Chan and Rajesh Krishna Balan, " ARIVU: Making Networked Mobile Games Green - A Scalable Power-Aware Middleware ", MOBILE NETWORKS AND APPLICATIONS, Springer Netherlands, Feb 2012.



- Bhojan Anand, Karthik Thirugnanam, Jeena Sebastian, Pravein G. Kannan, Akhihebbal L. Ananda, Mun Choon Chan, and Rajesh Krishna Balan. 2011. “Adaptive display power management for mobile games,” In Proceedings of ACM MobiSys '11. ACM, New York, NY, USA, 57-70.

Cumulative Impact factor:

Total Citation: 234

h- index: 7

i10- index: 6



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**Educational qualification:**

- Diploma in Textile Designing & Weaving
- B.Tech.,
- M.Tech.,
- Ph.D.

Professional experience:

- 22 Years

Honours and Awards:

- As Project Head, Implemented Placement Linked Skill Development Training Programs for about 25000 + candidates with the support of various state and government schemes and industry with about 75 % of placements.
- As Program Officer of Industrial Training Programs, coordinated about 250 batches of Technology and Skill Up gradation programs and about 3000 working employees / executives of Tiruppur cluster have completed up skill training successfully.

Recent publications:**National**

- Sivagnanam, et al, "Blended yarns for fashion garment", Apparel Today, 2005.
- Sivagnanam, et al, "A New 3D concept for weaving medical textiles" Textile Asia, Oct 2009
- Sivagnanam et. al, "Novel Properties of splittable fibres" fibre2fashion online publications.
- Sivagnanam et. al, "Micro fibres" fibre2fashion online publications.
- Sivagnanam, et al, "New 3D weaving concept for manufacturing of medical textiles", P69, Indian Textile Journal, Feb 2010.
- Sivagnanam, et al, "Eri silk knits for suitability in fashionable garment", Indian Textile Journal; Apr 2011, Vol. 121 Issue 7, p44

International

- Sivagnanam et al, "Vanya silk for Non Traditional Textile and Fashion Market" Silk for Green World and Sustainable Development, ISC, Thailand
- Sivagnanam, et al, "Study on Moisture Behaviour of Weft knitted Interlock Spacer Fabrics", International journal of ChemTech Research, Vol.8 / 2015
- Sivagnanam, et al, "Detailed Investigation of Weft Knitted Interlock Fabrics for Comfort Properties to Suit for Active and Sportswear Application", International Journal of Engineering and Advanced Technology, (IJEAT), ISSN: 2249-8958, Vol.8 / Issue 5, June 2019

Cumulative Impact factor:

Total Citation:

h- index:

i10- index:



CURRICULUM VITAE

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Educational qualification:

- B.Sc.,
- M.C.A.

Professional experience:

- 07 Years

Honours and Awards:

-

Recent publications:

National

-

International

-

Cumulative Impact factor:

Total Citation:

h- index:

i10- index:



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Educational qualification:

- M.Tech.,
- Ph.D

Professional experience:

- 30 Years

Honours and Awards:

-

Recent publications:

National

- 09

International

- 10

Cumulative Impact factor: -----

Total Citation:

h- index:

i10- index:



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Educational qualification:

- BE.,
- MBA.,
- M.sc(IT).,
- M.Phil.,
- Ph.D.

Professional experience:

- 19 Years

Honours and Awards:

- Nominee for world who is who book for year 2008 and 2009
- National Conference Organised.
 1. Convenor and organised National level Conference on Artificial Intelligence and Parallel computing –September 8th and 9th,2006.
 2. Convenor and organised National conference on Information Technology and Business management October 30th and 31st,2009.
 3. Convenor and organised National conference on Information computing and Management challenges in contemporary business - 21st and 22nd,2011.
- International Conference Organised:
 1. Convenor and organized international Conference on Computing and Information Technology - September 23rd and 24th, 2013. Alagappa University – Karaikudi.
 2. Convenor and organized two days IT Skill Show International Conference on Advancements in Computing Resources (SSICACR – 2017) – 15th & 16th February 2017. Alagappa University – Karaikudi.
- Other Training Programs
 1. Hardware maintenance
 2. S/W Installation
 3. Troubleshooting
 4. Network administration.
 5. Team building
 6. (i). Social development program at Sheshaiya homes, Austinpatti, Madurai.
(ii). Social development (Outreach program), Sumanahalli, Bangalore.
 7. Village Extension Programme at Thiruvelangudi, 11-13 October 2018.

Recent publications:

- “Segmentation Chick’s Image Using Artificial Neural Network”, in International Conference on Computing, Communication and Information Technology (CCIT 2018), ISBN: 978-1-63248-162-7, DOI: 10.15224/ 978-1-63248-162-7-06, Page: 11-14. 2. “Multimedia Cloud Computing for Agriculture”, in International Multi - Conference on Computing, Communication, Electrical & Nanotechnology (I2CN-2K18) at Kottayam, Kerala on April 26-27, 2018, presented and published.
- “Removal of Weeds in Agriculture field using Wavelet Transformation in Image Processing” International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), Vol – 6, Issue – 2, ISSN: 2321-8169, Impact Factor: 5.837 Page: 19-26, February 2018.
- Bavithra Matharasi, Dr.A.Senthilrajan , “Sentiment Analysis using a Novel approach to classify sentiments in social networking data”, International Journal of Advanced Research in Computer Science - 2018, Vol – 9, ISSN: 0976-5697, Page: 297-301.



- J.Tamilselvan, Dr.A.Senthilrajan, “Adding Text Document to cluster based on the similarity measures”, International Journal of Pure and Applied Mathematics - 2018, Vol – 118, ISSN: 1314-3395, Page: 3069-3074.
- “Segmentation in Manganethi Plant using Mathematical Morphology”, International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE), Vol – 6, Issue – 10, ISSN 2278-1021, Impact Factor: 5.947, Page: 291-293, October 2017.
- N.Vijayalakshmi, “A hybrid approach for sarcasm detection of social media data”, International Journal of Scientific and Research Publications - 2017, Vol – 7, Issue – 5, ISSN: 2250-3153, Page: 327-336.
- Bavithra Matharasi, Dr.A.Senthilrajan, “Sentiment Analysis of Twitter Data using Naive bayes with Unigran Approach”, International Journal of Scientific and Research Publications - 2017, Vol – 7, Issue – 5, ISSN: 2250-3153, Page: 337-341.
- “Image Reduction Using Edge Based Region of Interest”, IOP conf.series: Materials Science and Engineering - 2017, doi: 10.1088/1757-899X/225/1/012248.
- M.Sangeetha, Dr.A.Senthilrajan, “Super Resolution – A Review”, International Journal of Engineering Research & Technology (IJERT) – 2016, Vol – 4, Issue – 21, ISSN: 2278-0181, Page: 36-40.
- Gopala Krishna Nagasarapu, Dr.A.Senthilrajan, “Robust Image Desoising using Infantile Fixation of Non Local Euclidean Median in Patch Space”, International Refereed Journal of Engineering and Science(IRJES) – 2016, Vol – 5, Issue – 8, ISSN: 2319-1821, Page: 24-28.
- M.Sangeetha, Dr.A.Senthilrajan, “Analysis of methods in wavelet domain for image resolution”, International Journal of Advanced Research Trends in Engineering and Technology (IJARTET) - 2016, Vol – 3, ISSN: 2394-3785, Page: 628-631.
- J.Tamilselvan, Dr.A.Senthilrajan, “Constructing and maintaining large web repositories through continuous web crawling”, International Journal of Advanced Research Trends in Engineering and Technology (IJARTET) - 2016, Vol – 3, ISSN: 2394-3785, Page: 605-608.
- Gopala Krishna Nagasarapu, Dr.A.Senthilrajan, “Implementation of speech steganography using spread spectrum with wavelet domain”, International Journal of Advanced Research Trends in Engineering and Technology (IJARTET) - 2016, Vol – 3, ISSN: 2394-3785, Page: 588-594.
- Bavithra Matharasi, N. Vijayalakshmi, Dr.A.Senthilrajan, “A study on Various Techniques and Challenges in Sentiment Analysis”, International Journal of Advanced Research Trends in Engineering and Technology (IJARTET) - 2016, Vol – 3, Special issue – 20, ISSN: 2394-3777, Page: 474-478.
- Bavithra Matharasi, N. Vijayalakshmi, Dr.A.Senthilrajan, “Object Oriented Graph Structure to Represent the Dataset in online Social Network”, 2015, doi: 10.3850/978-981-09-4426-1-086, ISBN: 978-981-09-4426-1, Page: 314-321.
- “Pest Control in Paddy using Segmentation in Image Processing”, Engineering Sciences International Research Journal, Vol – 3, Issue – 2 (2015), ISSN: 2320-4338,
- ISBN: 978-931-84124-55-7, Page: 82-85.
- Gopala Krishna Nagasarapu, Dr.A.Senthilrajan, “Generalized non-local mean algorithm for De-Speckling of Digital images”, International Journal of Emerging Trends in Science and Technology (IJETST) - 2015, Vol – 2, Issue – 8, ISSN: 23489480, Page: 3077-3082.
- “Efficient Image Retrieval In Real Time Database Using Grey Model Technique”, Mathematical Sciences International Research Journal – 2015, Vol - 4, Issue - 1, ISSN: 2278 – 8697, ISBN: 978-93-84124-36-6, Page: 216-219.

National Conference:

- Attended the Indian Cyber Congress (INCYCON) on 28 & 29 September 2018 at Sree Vidyanikethan Engineering College(SVCE), Tirupati, Andhra Pradesh.
- Attended the one day orientation workshop on the roles and responsibilities of the university and its Swayam coordinators on 2nd February 2018 at AICTE office, Nelson Mandela Marg, Vasant Kunj, New Delhi.
- A.Fathima Mubeen, Dr.A.Senthilrajan, “ Optimal Features Selection and Classification of Healthcare Big data in Medical Internet of Things”, National conference on Cyber Security (NCCS – 2018) organized Computer Science, Alagappa University, Karaikudi held on 25th January 2018. Paper was presented
- K.Sheela, Dr.A.Senthilrajan, “Rice quality analysing using Image Processing Technique”, National conference on Cyber Security (NCCS – 2018) organized Computer Science, Alagappa University, Karaikudi held on 25th January 2018. Paper was presented.



- Attended the DIDAC INDIA 2016 on September 28th to 30th at Bangalore International Exhibition Centre.
- Attended the RUSA – One Day Training on 23rd August 2016 at Anna University.
- Attended ICTACT Bridge 2016 Chennai edition on 24th February 2016.
- National conference on “Engineering Applications for Developing Smart Cities” held during March 30, 2015 organized by Dhirajlal Gandhi college of technology, Salem.

International Conference:

- “Segmentation Chick’s Image Using Artificial Neural Network”, in International Conference on Computing, Communication and Information Technology (CCIT 2018) at Rome, Italy on October 27-28, 2018
- “Multimedia Cloud Computing for Agriculture”, in International Multi - Conference on Computing, Communication, Electrical & Nanotechnology (I2CN-2K18) at Kottayam, Kerala on April 26-27, 2018.
- J.Tamilselvan, Dr.A.Senthilrajan, “Adding text document to cluster based on the similarity measures”, in International conference on Advances in Computer Science and Technology (ICACSET’18) held during January 19-20, 2018 at Kalasalingam Academy of Research and Education, Krishnankoil.
- “Design on Benefit Mechanism of the Information and Communication Technology Based on Boolean Law”, in International Conference on Advances in Mathematics and Computer Science held during December 14-16, 2017 at V.V. Vanniaperumal College for Women, Virudhunagar.
- “Defective Chicks Deduction Based on Texture Feature Analysis Using Random Transform”, in International Conference on Applied Science and Engineering held during December 05-07, 2017 at Seoul, South Korea.
- Bavithra Matharasi, N. Vijayalakshmi, Dr.A.Senthilrajan , “A study on Various Techniques and Challenges in Sentiment Analysis”, in International conference on Innovations in Computer Science & Technology – 2016 at Alagappa University, Karaikudi. 16. Gopala Krishna Nagasarapu, Dr.A.Senthilrajan , “ Implementation of speech steganography using spread spectrum with wavelet domain ”, in International conference on Innovations in Computer Science & Technology – 2016 at Alagappa University, Karaikudi.
- J.Tamilselvan, Dr.A.Senthilrajan , “Constructing and maintaining large web repositories through continuous web crawling”, in International conference on Innovations in Computer Science & Technology – 2016 at Alagappa University, Karaikudi.
- M.Sangeetha, Dr.A.Senthilrajan , “Analysis of methods in wavelet domain for image resolution”, in International conference on Innovations in Computer Science & Technology – 2016 at Alagappa University, Karaikudi.
- “Diagnosing Infective Diseases in Paddy Using Mobile Device”, in International Conference on Symposium on Electrical, Electronic Engineering and Digital Technology”(SEDT 2016) at Tokyo, Japan on December 6-8, 2016. 20. “Image Reduction Using Edge Based Region of Interest”, in International Conference on Advanced Material Technologies”(ICAMT 2016) at Visakhapatnam, Andhra Pradesh on December 27-28, 2016.

Cumulative Impact factor:

Total Citation:

h- index:

i10- index:



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Educational qualification:

- M.A (Tamil),
- M.A (Linguistics),
- M.Phil.,
- B.Ed.,
- Ph.D.

Professional experience:

- 20 Years

Honours and Awards:

- Best Research Paper Award for “Va Supa Manickanarin Ilakkiya Parvai” Presented by All India Universities Tamil Teachers Association during May 2002 behalf of V.SP.Manickanar Endowment.
- Best Research Paper Award for “Sanga Ilakkiyathil Manai Marutchi” Presented by All India Universities Tamil Teachers Association during May 2005 behalf of V.SP.Manickanar Endowment.
- Best Research Paper Award for “Kadal Seetram Thadukkum Kandal” Presented by ‘ARR’ All India Research Forum December 2005.
- Best NSS Programme Officer Award presented by Alagappa University, Karaikudi, 2009.
- Best Research Paper Award for “Peedandru-Meel Vaasippu” Presented by ‘ARR’ All India Research Forum December 2011.

Recent publications:

- Thirumuruhatrupadaiyil Arupadai veedu – Sanskritisation, International Seminar on Place names, Tamil Sakthi Research Forum & National College, Trichirapalli, 25.09.2011
- Kalitriyanai Niraiyil Sanskritisation, International Conference on Agananooru, Sangam Literature Research Forum & Ethiraj Women’s College, Chennai, 09.12.2011
- Peedandru – Meel Vasippu, 7th International Seminar, AAR All India Research Forum & Sengunthar College of Arts and Science, Thiruchengodu, 17&18.12.2011
- Tholkappiyamum Irayanar Agapporulul- Karpu Marabukal & Tholkappiyamum Maranahapporulul-Ilakkana Valarchi, Workshop on Aspects of Tholkappiam and Later grammatical works on Agam concept, Alagappa University, Karaikudi & CICT, Chennai, 04.01.2012 to 13.01.2012
- Inai Vizhaichu, 43rd All India University Tamil Teachers Association Seminar, Tamil Sangam, Bangalore, 19&20.05.2012
- Silappathikaram Suttum Inthezhuthu Manthiram, VIII th International Seminar on AAR International Research Forum, Karpagam University, Coimbatore, 22.12.2012
- Artrupadai Ilakkia Seiyul Kattamaippil Uyarthinai Suttu, International Research Seminar On Pathupattu, Kongunadu Arts and Science College, Coimbatore, 23.12.2012
- Karkala Padalathil Tamizhar Panpattu Nilaviyal, International Seminar on Kalanthorum Kampan, Kampan Tamil Research Centre, Karaikudi, 23 & 24.03.2013
- Tholkappiyamum Kootru muraikalum, Seminar on Tholkappiya Ilakkiyak kotpadukal, CICT, Chennai & Tamil Research Centre, Ganeshar Arts and Science College, Melaisivapuri, 08.01.2014
- Sanga Ilakkiyathil Manitha Urimaikal, Seminar on Palthurai Thotruvaaiakku Sanga Ilakkiyathin Pangalippu, CICT, Chennai & Dep’t of Tamil, Alagappa Gov’t Arts College, Karaikudi, 09.01.2014
- Vazhipadugalum Thinaikkotpadugalum, Workshop on Chevviyal Ilakkiyangalil Tamizhar Vazhipaattu Marabugal, CICT, Chennai & Alagappa University, Karaikudi, 22.01.2014



- Ra. Ragavaiyanganin Urainadai Thiran, Workshop on Pazhanthamizh Uraiyasiriyarkalin Nadaikkotpadu, CICT, Chennai & Alagappa University, Karaikudi, 03.03.2014
- Tamil Haigoo Kavithaikalil Puthiya Pokkuhal, National seminar on New Trends on 20 th Century Tamil Puthu kavithaikal, Urumu Danalakhshmi College, Trichirapalli, 30.09.2015 & 01.10.2015
- Tholkapiathil Neethi, Seminar Collection on Tamil Ilakkiathil Neethi, Ulaga Tamil Sangam, Madurai, 23.01.2016.
- Thiruvagasathil Madurai, International Seminar on Ilakkiya Pathivuhalil Madurai, Meenakshi Govt Womens College, Madurai, 25.02.16 & 26.02.16
- Chitrakooda malai Punaivu – Kambarum Valmikiyum, World Tamil Research Seminar On Kambanil Iyarkai, Karaikudi Kamban Kazhaham & Andaman Tamil Ilaikkiya Mandram, Andaman, 10.04.2016
- Tholkappiyathil Pillai – Collinaiyu Porunmai, International Seminar on Tamil Culture, Center for Tamil Culture, Alagappa University – 22.10.2016 & 23.10.2016
- Vayinum Kaiyinum Vaguththa Kalaihal, National Seminar on the role of Arts in Tamil Culture, Centre for Tamil Culture & Department of Fine Arts, Alagappa University, Karaikudi, 16.12.2016
- Barathidasanin Samaththuva kolhai, National Seminar on Contemporary Tamilian and Barathidasan's work, Department of Tamil, Alagappa University, Karaikudi, 20.12.2016 & 21.12.2016 .

Cumulative Impact factor:

Total Citation:

h- index:

i10- index:



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Educational qualification:

- M.A.,
- M.Phil.,
- Ph.D

Professional experience:

- 14 Years

Honours and Awards:

-

Recent publications:

National

- Madhan, P. "TO END VIOLENCE AGAINST WOMEN" GEM NATIONAL JOURNAL OF WOMEN'S STUDIES, vol: VI, ISSN: 2320-6403, Page No: 100

International

- Madhan, P. "WOMEN CHAMPIONS OF JUSTICE: A COMPARISON OF KANNAKI AND PORTIA" LITERARY INNOVATIONS –A Bi-Annual International Literary Journal. Vol: II No: 1,ISSN: 2279-0128,Page No:68
- Mathan, P. "A THEMATIC EXPLORATION OF BERNAD SHAW'S PYGMALION" LITERARY INNOVATIONS –A Bi-Annual International Literary Journal. ISSN: 2279-0128Vol: III, ISSUE: 1,Page No: 56
- Mathan, P. "CULTURAL CONFLICTS AND ETHNIC ANXIETY IN SIDHWA'S AN AMERICAN BRAT" LITERARY INNOVATIONS –A Bi-Annual International Literary Journal. ISSN: 2279-0128, Vol: III, ISSUE: 2, Page No: 38
- Mathan, P. "THE TRANSCULTRUAL PHASE IN AMITAV GHOSH'S THE HUNGRY TIDE: A STUDY" LITERARY INNOVATIONS –A Bi-Annual International Literary Journal. ISSN: 2279-0128, Vol: III, ISSUE: 2,Page No: 62
- Mathan, P. "AN ANALYSIS OF T.S. ELIOT'S POETIC TECHNIQUES" LITERARY INNOVATIONS –A Bi-Annual International Literary Journal. ISSN: 2279-0128, Vol: IV, ISSUE: 1,Page No: 20
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Recent publications:

National

- Ravindran J, G. Geetha Priya and E. Kannapiran, 2011. Effect of Concentrating and Exposing the Bioluminescent Bacteria to the Non Luminescent allo – Bacterial Extracellular Products on their Luminescence. *Journal of Luminescence*, 26: 23–28.
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