

ALAGAPPA UNIVERSITY

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













ALAGAPPA INSTITUTE OF SKILL DEVELOPMENT



M.Voc., FASHION TECHNOLOGY

[Choice Based Credit System (CBCS)]
[For the candidates admitted from the academic year 2019 -2020]

M.Voc. PROGRAMME

in

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 with A+ Grade by NAAC (CGPA: 3.64) in the Third Cycle & Graded as Category – I University by MHRD-UGC)

KARAIKUDI – 630003

Tamil Nadu



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.

OUT COME

The curriculum of the M.Voc.(Fashion Technology) Programme enables the students to become any of the below mentioned Jobs

- 1. Research Assistant
- 2. Research Associate
- 3. Teaching Assistant
- 4. Designer in buying office
- 5. Industrial Engineer
- 6. CAD Trainer



ELIGIBILITY:

1) For Admission

A candidate who is a graduate of this University or any recognized University in the main subject / subjects as given below against each or who has passed an examination accepted by the Syndicate, as equivalent thereto.

M.Voc., Fashion Technology

: B.Voc., degree in Fashion Technology / B.Sc., degree in Fashion Technology / Costume Design & Fashion / Apparel & Fashion Designing / Fashion Technology & Costume Design / any UG degree with core / allied papers related to Fashion Technology / Apparel or any qualification equivalent thereto in 10+2+3 pattern with 55% marks in Part III (for SC/ST candidates 50%)

OR

Any UG Degree (equivalent thereto in 10+2+3 pattern) with Diploma / PG Diploma related to Fashion Technology / Fashion Designing / Apparel with 55% marks in Part III (for SC/ST candidates 50%)

FOR THE DEGREE

The candidates shall have subsequently undergone the prescribed programme of study in Alagappa Institute of Skill Development, Alagappa University for not less than two academic years comprising 4 semester, passed the examinations prescribed and fulfill such conditions as have been prescribed therefore.

DURATION

The Programme is for a period of two years. Each year shall consist of two semesters viz. Odd and Even semesters. Odd semesters shall be form 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 examination).



ALAGAPPA INSTITUTE OF SKILL DEVELOPMENT ALAGAPPA UNIVERSITY, KARAIKUDI. SYLLABUS UNDER CBCS PATTERN (w.e.f. 2019-20) M.Voc., FASHION TECHNOLOGY – PROGRAMME STRUCTURE

Degree	Sem	Subject	Course Name Credits Skill(S)/ General G) S G		Theory/ Practical	Hrs/Wee k		ırks	Total	
		code		S	G			11100	Ext.	
		9MF1C1	Core – I - Advanced Textile Science	5	-	T	5	25	75	100
	I	9MF1C2	Core – II - Apparel Production Planning and Control	4	-	T	4	25	75	100
		9MF1P1	Core – III –Advanced Pattern Making - Lab	5	-	P	5	25	75	100
20		9MF1P2	Core - IV - Advanced Draping - Lab	4	-	P	4	25	75	100
M.Voc. Degree in Fashion Technology		9MF1G1	General –I – Historic, World Costume and Textile	-	4	T	4	25	75	100
Tec		9MF1G2	General –II Eco Textiles and Sustainability	-	4	T	4	25	75	100
on ,			Elective – I	-	4	Т	4	25	75	100
shi			Sub-Total	18	12					
Fag			Total for Semester -I		80		30	-	-	700
ij.		9MF2C1	Core – V – Advanced Textile Design	4	-	T	4	25	75	100
ee		9MF2C2	Core –VI–Indian Textile Industry and Trade	4	-	T	4	25	75	100
ge		9MF2C3	Core – VII – Advanced Wet Processing	4	-	T	5	25	75	100
Ď		9MF2P1	Core VII – Advanced Wet Processing- Lab	3	-	P	4	25	75	100
00.	II	9MF2MP	Core – IX – Mini-Project	3	-	P	-	100		100
1.V			Non –major Elective Course - I	-	2	-	3	25	75	100
2			Elective – II – Lab	-	5	P	5	25	75	100
			Elective – III @	-	5	P	5	25	75	100
			Self-Learning Course (MOOCs) – I %	-	(E)	-	-	-	-	-
			Sub-Total	18	12					
		0) (50 01	Total for Semester -II		80		30	-	-	800
		9MF3C1	Core – X – Technical Textiles	4	-	T T	5	25	75	100
>		9MF3C2	Core – XI – Textile Testing	4	-		4	25	75	100
gol		9MF3P1 9MF3P2	Core – XII – Textile Testing- Lab Core – XIII – CAD in Pattern Making - Lab	4	_	P P	4	25 25	75 75	100 100
n Technology	III	9MF3C4	Core – XIV – Finishing Skills in Fashion Technology #	2	-	P	-	100	-	100
Ţ			Non –major Elective Course - II	_	2	_	3	25	75	100
			Elective – IV	_	5	Т	5	25	75	100
ash			Elective – V – Lab	-	5	P	5	25	75	100
ı Fa			Self-Learning Course (MOOCs) – II %	-	(E)	-	-	-	-	-
i ir			Sub-Total	18	12					
ree			Total for Semester -III	30			30			800
M.Voc. Degree in Fashio		9MF4G1	Portfolio Presentation and Design Collection – Lab		6	P	6	25	75	100
Λος	IV	9MF4G2	Visual Merchandising		6	Т	6	25	75	100
M.		9MF4MR	Core – XV – Industrial Internship with Project Work	18		P	18	150	50	200
			Total for Semester -IV	18	12		30	-		400
			Grand Total	1	20		120	-		2700



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

Elective – I

1.	Home Textiles	9MF1E1
2.	Knitting Clothing Technology	9MF1E2
3.	Clothing Appearance and Fit	9MF1E3

Elective – II – Lab

1.	Home Textiles - Lab	9MF2E1
2.	CAD in Fashion Designing - Lab	9MF2E2
3.	Advanced Fashion Illustration - Lab	9MF2E3

Elective – III

1.	Corporate Etiquette Skills	9MV2E4
2.	Competitive Examination Skills	9MV2E5
3.	Soft Skills and Entrepreneurial Skills	9MV2E6

Elective – IV

1.	Fashion Photography	9MF3E1
2.	Lean Manufacture in Apparel Industry	9MF3E2
3.	Apparel Brand Management	9MF3E3

Elective – V – Lab

1.	Fashion Styling - Lab	9MF3E4
2.	Surface Ornamentation in Apparels and Textiles - Lab	9MF3E5
3.	Advanced Garment Construction - Lab	9MF3E6

Industrial Internship with Project Work

1.	Project Evaluation (Internal)	150 Marks
2.	Viva – voce (External)	50 Marks

Non-Major Elective Courses (PG)

Sem.	Course Code	Non-major Elective Course Name		Hrs. /	Marks		Total
		-		Week	Int.	Ext.	
II	9MF2N1	Non-major Elective – I : Fashion Designing	2	3	25	75	100
III	9MF3N2	Non-major Elective – II : Fashion and Apparel Merchandising	2	3	25	75	100

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Skill Component Theory

		Semester – I					
Course Code	: 9MF1C1	Core – I - Advanced Textile	Science	Credits: 5	Hours: 5		
Objectives	> To unders	tand the different fibre and it manu	ufacturing p	process, uses.	1		
	> To know	about the fabrication process and it	t advanced	techniques.			
Unit-I	FIBRE SCIE	NCE					
	Textile fibres classification: Natural fibres: Classification of natural textile fibres -						
	Essential and desirable properties of textile fibres - morphological structure, Chemical						
	composition,	properties and end uses. Artific	cial fibres	: History of	development,		
	Polymer, Inti	oduction of polyester, nylon, po	olyolefin,	viscose regen	erated fibre -		
	Concepts of r	egeneration of fibre - Raw materi	al for syntl	hetic fibres - N	Manufacturing		
	sequence of S	ynthetic fibres.					
Unit-II	YARN MAN	UFACTURE					
	Pre - Cleanin	g of Cotton : Ginning - Mixing, ty _l	pes of mixi	ng & blending	g - Blow room,		
	Lap feed, Ch	ute feed systems - Carding. Prej	paratory Pi	rocess: Drawin	ng – Breaker,		
	finisher – Co	omber preparatory – Sliver lap,	ribbon lap	, uni lap – s	simplex. Yarn		
	manufacturing	g: Spinning – count – twist – conv	version – ya	ırn – classifica	ation of yarn -		
	fancy yarns – sewing threads.						
Unit-III	FABRIC MA	NUFACTURE –WEAVING					
		paratory process – warping, sizi	•	-			
	in, pirn windi	ng - Weaving: Looms - Sequence of	of material	flow – Weave	– Draft plan –		
		oom Types – Primary and Second	•				
		Iand loom – Power loom – Project		-	•		
	_	om – Multiphase loom - Dobby	y, e- Dob	by, Jacquard,	e- Jacquard,		
	application of						
Unit-IV		NUFACTURE – KNITTING					
	_	assification of weft knitting macl			-		
		f loop formation - Geometry of l	-				
		ne gauge and stitch density. Cla			-		
		single jersey, Rib machines and in			-		
		g technology. Warp Knitting -			ation of warp		
		ting – Types - Lacing – Classificat	ion of laces	S.			
Unit-V		N MANUFACTURE	.i	C			
		Fibre characteristics needed for					
		g passage for the felt preparation -					
		rocess variable and their effect on	n properties	of non wover	n. Application		
		fabrics in different areas.	1 1 .1 .		.1 1 . 0 1 . 1		
	_	rious system of bonding the wel					
		latest development in non-wove	en industry	y. Braiding –	- Basic braid		
D.C.		rocheting – Tatting- End uses.					
	d Text Books:		. 0 **		•		
Gandhi, K. L.	(2012). Woven	Textiles – Principles, development	ts & applica	<i>ations</i> . Cambri	dge:		

Gandhi, K. L. (2012). *Woven Textiles – Principles, developments & applications*. Cambridge: Woodhead Publishing.

Gohl, E.P.G. & Vilensky, L.D. (2009). Textile Science. New Delhi: CBS Publishers.



Kathryn L. Hatch. (1993). Textile Science. USA, Minnesota: West Publisher Limited.

Klein, W.D. (2010). Technology of Spinning. Manchester: Textile Institute.

Lord, P. R. & Mohamed, M. H. (2010). *Weaving: Conversion of Yarn to Fabric*. Cambridge: Woodhead Publishing.

Sara J. Kadolph. (2010). Textiles. New Jersey: Prentice Hall.

Marks, R. & Robinson, A.T.C. (1976). Principles of Weaving. Manchester: Textile Institute.

Marks, R. & Robinson, A.T.C. (1986). Weaving Mechanism. Manchester: The Textile Institute.

Outcomes	The students are able to
	> Understand the performance characteristics of fibre and their production process.
	Acquire knowledge on nonwovens manufacturing techniques and its applications.

Skill Component Theory

		Semester – I				
Course Code	: 9MF1C2	Core - II - Apparel Production Planning	Credits: 4	Hours: 4		
		and Control				
Objectives	To under	stand the concepts in production planning and	control.			
	➤ To know	about different method of apparel manufactur	ng systems.			
	> To understand the material management and their movement in the production.					
Unit-I	Production Planning and Control Definition Objectives of production control relationship of production control to the					
	Definition, Objectives of production control, relationship of production control to the					
	functional areas of a manufacturing organization - Pre planning: Pre-production					
		portance of Preproduction function - Lead T		t development:		
	steps from prototype to production sample - Product data management.					
Unit-II	Plant Layout					
	Plant site location - Plant Layout: definition and types of production layout, criteria					
	evaluation of a plant layout - Basic production line layout - Determining minimum					
	space requirement, Government regulations for plant layouts.					
Unit-III	Apparel Manufacturing Systems					
		systems: Progressive bundle system, Unit prod	•	-		
		ular manufacturing systems and their advantag	es and disadva	intages - Guide		
		osing suitable production system.	: G	• 1		
		s Grids and Charts: Flow process grid con	struction, flov	v process grids		
	for productio		amma da amma	adina mathada		
		tion Analysis: Cut order planning – types of ation, economic cut quantities.	spreads, sprea	ading memods,		
Unit-IV	Material Ma	<u> </u>				
Omt-1 v		e Production system (JIT), Optimized Pro-	duction Tech	nology (OPT)		
		odeling – Economic order quantity (EOQ).	auction reem	nology (OII),		
		ms: Functions of cutting order, cutting ticket, b	oundle control	sheet		
		Scheduling: Scheduling charts – Gantt char				
	_	etwork representation – CPM and PERT.	., 8	r		
Unit-V		ng and Capacity Planning				
		n of machine requirements for a new fac	tory -calcula	tion of labour		
	requirements	•	•			
	Line Balanc	ing: Determination and allocation of man pow	er and machin	es for balanced		
	production in	existing plant for a given target - application	of line balance	cing techniques		
	– balance con	ntrol.				

Reference and Text Books:-

Chuter, A.J. (2004). *Introduction to Clothing Production Management*. UK, Oxford: Blackwell Science.

Cooklin, G., Hayes, S. & McLoughlin. (2006). *Introduction to Clothing Manufacture*. UK, Oxford: Blackwell Publishing.

David J. Tyler. (1991). Material Management in Clothing Production. UK, Oxford: Blackwell Science.

David J. Tyler. (2008). Harold Carr & Barbara Latham's - The Technology of Clothing Manufacture.

UK, Oxford: Blackwell Publishing.



Garg, R.K. & Sharma V. (2003). *Production Planning and Control Management*. New Delhi: Dhanpat Rai Publishing.

Harold Carr & Barbara Latham. (1994). *The Technology of Clothing Manufacture*. New Delhi: Om Book Service.

Jacob Solinger, (1998). Apparel Production Handbook. New York: Reinhold Publications.

Karthik, T., Ganesan, P. & Goplakrishnsn, P. (2016). *Apparel Manufacturing Technology*. USA, Florida: CRC Press.

Martand Telsang, (2008). *Industrial Engineering and Production Management*. New Delhi: S. Chand & Company Limited.

Rajesh Bheda, (2002). *Managing Productivity of Apparel Industry*. New Delhi: CBS publishers and distributors.

Outcomes

The students gain knowledge in

- ➤ Basic techniques of production planning & control in garment industry.
- > Choose the suitable plant site location, layout and production system for apparel industry.
- Prepare and analyze the flow process grids, control forms and scheduling charts for production control in apparel industry.

Practical

Semester – I								
Course Code	Course Code: 9MF1P1 Core – III - Advanced Pattern Making – Credits: 5 Hours: 5							
		Lab						
Objectives	Objectives > To study the basic and advanced techniques followed in pattern making.							
	> To understand and develop pattern for different types of garments.							

- 1. Basic Body measurements, preparation of size chart.
- 2. Drafting basic slopers, trueing darts for slopers, developing dartless slopers.
- 3. Dart manipulation single and double dart series.
- 4. Fullness gathers, pleats, tucks.
- 5. Princess line variation blouson, fullness on the princess lines. Armhole princess line dress.
- 6. Flanges and classic empire.
- 7. Halters-V neck.
- 8. Surplice waist- one shoulder décolletage draped surplice.
- 9. Vests.
- 10. Cowls- Back armhole and pleated.
- 11. Collars –Sailor, roll wide collar and stand.
- 12. Sleeves Kimono and raglan variations.
- 13. Skirts –Pegged, tiered, pleated wraparound, skirts and uneven hemlines, peplum, flared skirt.
- 14. Pants length variations, bell bottom pants, body fitting pants and other types.
- 15. Jackets and coats.

16. Prepare i	16. Prepare industrial pattern for some design.			
Outcomes	The students get insight knowledge			
	Manipulate given patterns using principle of dart manipulation.			
	> Develop paper patterns for various garments and garment components.			

Practical

Semester – I						
Course Code	Course Code: 9MF1P2 Core - IV - Advanced Draping - Lab Credits: 4 Hours: 4					
Objectives	Objectives > To study the basic and advanced techniques followed in Draping techniques.					
> To understand and drape the design for different designs.						

Preparation of fabric for Draping

- 1. Draping the pattern on dress form, Converting or Trueing the Pattern, Pattern Development, Construction of Garment and fitting of final garment on dress form.
 - Halter
 - Princess bodice and its variation
 - Cowls wrapped neckline cowls
 - Surplice bodice, Sheath, blouson
 - Draping and Garment constructions of women with design variations
 - Draping and Garment constructions of men with design variations
- 2. Design Variations (Kimono, Raglan Sleeve Designs, Collars, Cowls, Pleats, darts, Flounces, Ruffles, godets).

Ruffies, god	icis).				
Outcomes	The students are able to				
	> Drape the different variation in bodice like halter, cowl, and surplice.				
	> Create own design in adopting basic designs				

General Component

Theory

	Semester - I						
Course Code: 9MF1G1		General – I - Historic, World Costume and	Credits: 4	Hours: 4			
		Textile					
Objectives	> To create interest among the students about historic costumes and its adoption.						
	> To get insight knowledge about the growth and development of world costumes.						
Unit-I	The Prehisto	ric reference - development - adoption of fibr	ous apparel -I	Beginning of			
	costume - Or	igin of clothing, Growth of dress, Earlier decora	ation of textiles	s of painting,			
	and other m	ethods - hand printing - screen printing - ro	ller printing.	Costumes of			
	ancient civilization - Egypt, Greece and Roman, French costume- French costume						
	during renaissance 450 to 1500 AD and 1700 AD.						
Unit-II	English costume - English costume during middle, ages- American costume- American						
	from 18th to	from 18th to 20th century.					
Unit-III	European countries - Norway, Sweden, Denmark, Scotland, Austria, Switzerland,						
	Hungary, Poland, Ukraine.						
Unit-IV	Far Eastern Countries - Mongolia, China, Japan, North and South Korea, Sri Lanka,						
	Pakistan, Bu	tan, Burma, Thailand, Philippines.					
Unit-V	African cour	tries - Costumes of North, East, West and Sou	th - Middle Ea	ast Countries			
	Turkey and I	ran, Costumes of Arab Peninsula.					

Reference and Text Books:-

Das, S.N. (1969). *Bombay Costumes of Indian and Pakistan*. Mumbai: D B Taraporevala Sons & Co. Eoan, C. (1985). *Costumes throughout the Ages*. USA, Philly: J B Lippincott.

Harl Kohler, (1963). *A History of Costume - Dover Fashion and Costumes*. New York: Dover Publications.

James Laver, (1968). *Costume through the Ages*. New York: Simon and Schuster publications Phyllls G. Tortora., Sara B. Marcketti. (2015). *Survey of Historic costume Study Guide*. New York: Fairchild publications.

Rachel H. Kemper. (1977). The History of Costume. New York: W.W Norton & Co Inc.

Outcomes	The students get knowledge in			
	➤ Historic costumes and its prevalence in fashion.			
	> World costume of English costume, European, far eastern and African countries.			

General Component

Theory

	Semester – I					
Course Code	e: 9MF1G2	General - II - Eco Textiles and	Credits: 4	Hours: 4		
		Sustainability				
Objectives	> To under	stand the importance of the Eco textile and its e	ffect on enviror	nment.		
	> To create	e awareness about the natural fibres utilisation	and eco standa	rds followed		
		industry.				
Unit-I	Eco-Textiles					
		& needs for eco-textiles & its importance - Eco	••	-		
		ogy & Disposal ecology. Structure and sta	•	•		
	_ ^ `	gulation on toxic dyes, chemicals and auxiliarie	es - Eco-Auditi	ng and Eco-		
		o mark on textiles.				
Unit-II	Natural fibr			T . 11		
	1 ^	f natural fibres in textiles - Major fibres used in				
		nor fibres used in textiles - sisal, pineapple, of				
	1 ^	spider silk etc., Extraction or preparation methods of natural fibre-retting, & its				
		hods, decortications by hand and machine. Recent findings of natural fibres in ile industry.				
Unit-III		atural Dyes				
Unit-III	History and importance - Types of natural dyes- plant, animals and mineral -Madder,					
	indigo, catechu, myrobalan, pomegranate, lac, alum - Extraction methods & application					
	_	nethods-pre, simultaneous and post mordanting. Characteristics of Natural dyed fabrics				
		lly available natural dyes - Recent development		•		
Unit-IV	Natural Finishes					
	Need for nat	ural finishes. Traditional plants & herbs used in	n natural finish	ing. Various		
		onents, extraction methods and application. I		•		
	textiles for va	arious applications.				
Unit-V	Eco - Textilo	es Testing, Standards and Sustainability				
	Processes ad	opted for eco-friendliness: Enzyme technolog	y, Foam techno	ology, super		
	critical carbo	n-di-oxide dyeing & Plasma technology- Glow	-discharge met	hod, Corona		
		ethod & Dielectric barrier discharge method. T		•		
		nstruments - Eco standards and norms follow				
	industry – Sc	cial audit, ISO 14000, ISO 9000, SA 8000, CSF	R and other orga	anisation.		

Reference and Text Books:-

Annie Gullingsrud, (2017). Fashion Fibers. New York: Fairchild Publishers.

Christie, R.M. (2007). *Environmental Aspects of Textile Dyeing*. Cambridge: Woodhead Publ. Pvt. Ltd. Dhara Shukla, (2019). *New Trends in Natural Dyes for Textiles*. Cambridge: Woodhead Publ. Pvt. Ltd. Keith Slater, (2003). *Environmental Impact of Textiles*. Cambridge: Woodhead Publ. Pvt. Ltd.

Leslie Davis Burns, (2019). Sustainability and Social Change in Fashion. London: Bloomsbury Publishing.

Maria Mackiewicz, (2019). *Handbook of Natural Fibres* (Vol. 1, 2.). Cambridge: Woodhead Publ. Pvt. Ltd.

Miraftab, M. & Horrocks, A. R. (2007). *Eco Textile – The Way Forward for Sustainable Development in Textiles*. Cambridge: Woodhead Publ. Pvt. Ltd.

Richard Blackburn. (2009). Sustainable Textiles - Life Cycle and Environmental Impact. Cambridge: Woodhead Publishing Pvt. Ltd.



Outcomes	The students are able to
	➤ Knowledge about the importance of eco-textiles and its implication in safety
	environment.
	Understanding the natural dyes, finishing, eco standards and sustainability.

Theory

		Semester – II			
Course Code	: 9MF2C1	Core – V - Advanced Textile Desig	n	Credits: 4	Hours: 4
Objectives	1	about the different elements of weaving a			
	> To knov	the special weaves and its application in	textile	e design.	
Unit-I	Elements of	_			
		Woven design – design – draft plan-lifting	_	-	-
		presentation of weave. Basic weave -	_		-
	broken, herringbone, transposed, elongated and combined twill. Satin, sateen and their modifications.				
Unit-II		S. Weave effects			
Unit-11		e – honey comb –ordinary and brighten -h	uck _	a-hack-mock	eno-hon sack
	_	our and weave effects – continuous line-d			-
		trips and checks.	-65		o specialization
Unit-III	Double clot				
	Backed clot	h – warp and weft backed. Backed cloth	n with	n wadded thre	ads - Double
	cloth –classi	fication and wadded double cloth.			
Unit-IV	Pile and Figuring weave				
	Warp pile fabrics -3, pick, 5 pick and 6 pick pile structures Weft pile fabrics – plain				
	back velveteen, weft plush – corded velveteen. Extra Warp figuring –single colour and				
** ** ***	multi colour planting - Extra Weft figuring Bed Ford Cords - Welts and Piques.				
Unit-V	Knit structi		- G 1	:4 -4	-i1- i
	Knitting – terms used in knitting. Types of knitting, Weft knit structures – single jersey, interlock, rib and purl - Designing of Weft knit structures - Coloured stitch designs in				
		;; Pattern and selection devices - Recent te			-
	1	arp knit structures – Raschel and tricot		•	
	_	al advancement in warp knitting.		1	S
Reference an	d Text Books	:-			
Ajgaonkar, B.	Ajgaonkar, B. (1998). Knitting Technology. Mumbai: Universal Publishing Corp.				
David J. Spencer. (2011). Knitting Technology. New Delhi: Woodhead Publishing India Pvt Ltd.					
Grosicki, Z.J. (2014). Watson's Textile Design and Colour – Elementary Weaves and Figured Fabrics.					
Cambridge: Woodhead Publishing Pvt Ltd.					
Grosicki, Z.J.	(2018). Watso	n's Advanced Textile Design and Colour	– Con	npound Woven	Structures.
Cambridge	: Woodhead I	rublishing Pvt. Ltd.			
Hayavadana, ((2014). Wover	Fabric Structure Design and Product Pla	anning	g. Netherland:	Elsevier
Science &	Technology.				

The students get insight knowledge

> Illustrate the elements of woven fabric design.

Outcomes

> Develop elementary fabric structures, weave design, colour and weave effects.

Theory

	Semester-II					
Course Code	: 9MF2C2	Core - VI - Indi	ian Textile Industry and	Credits: 4	Hours:4	
			Trade			
Objectives	> To educa	te the students on	growth and development	of Indian fib	er, yarn and	
	textile In	lustry.				
	> The stud	The students are able to understand the government initiatives and programmes				
	about the	trade.				
Unit-I	Origin, Grov	th and Developme	ent of Indian Textile Indus	stry - Cotton,	Wool, Silk,	
	Rayon, Man-	Made Textiles, Re	eadymade garments - Tech	mological dev	elopment in	
	fabric industr	y: woven and knitti	ng, significance and uses - T	Γechnological	development	
	in garment in	dustry, significance	and uses.			
Unit-II	Five year plans for the textile Industry - Recent plan and previous 5 five year plans					
	organizations related to the Textile and clothing Industry - Concept of GATT, MFA,					
	WTO, ALC, GST, Globalization.					
Unit-III	Foreign trade document: need, types of documents related to goods, invoice to goods,					
	invoice packing note and list - certificate relating to shipments: shipping bill, cart					
	ticket, certificate of measurement, Bill of lading, airway bill - documents related to					
	payment: letter of credit, bill of exchange - bank certificate for payment - document					
	related to inspection.					
Unit-IV	Import procedure and shipment: import license - procedure - special schemes					
	replenishmen	replenishment license - advance license - split up license - spares for after sales service				
	license - cod	license - code number - bill entry, pre shipment inspection and quality control, post				
	shipment form	nalities and procedu	ires.			
Unit-V			l clusters in Tamil Nadu		-	
	Association f	or handloom and of	ther textiles - Policies and s	schemes in app	parel sector -	
	Challenges an	nd problems in garm	nent industry.			

Reference and Text Books:-

Bindu Oberoi, (2017). The Textile Industry in India - *Changing Trends and Employment Challenges*. New Delhi: Oxford University Press India.

Kavi Kumar, (2018). A Study of Indian Textile Exports and Environmental Regulations. New Delhi: Springer Publications.

Mausumi Kar, (2015). The Indian Textile and Clothing Industry. New Delhi: Springer Publications.

Peter L. Schwartz., Trevor Rhodes. & Mansour H. Mohamed. (1996). *Fabric Forming Systems*. New Jersey: Noyes Publications.

Sundar A. Shetty. (2001). *India's Textile and Apparel Industry – Growth Potential and Trade and Investment Opportunities*. USA, Washington DC: US International trade commission.

Outcomes	The students are able to
	For Growth and development of textile industry in different era.
	Foreign trade, shipment procedure, import and export policies.

Theory

Semester – II							
Course Code	: 9MF2C3	Core - VII- Ac	Ivanced Wet Processing	Credits: 4	Hours: 5		
Objectives	> To give	basic knowledge	about the textile wet production	essing and its	application in		
		textile fibers.					
	_	-	t the natural processing a				
	_	~	d the effluent process and	recycle applicat	ion.		
Unit-I	Preparatory Processing						
		Introduction, Fibre - Composition - Typical Sequence of Processes: Preparatory					
			nd knitted cotton fabrics	Wet process	sequence for		
		olyester / Cotton Blo	end.				
Unit-II	Dyes						
			of Dyeing Machine: Pag				
		•	g machine. Printing : Sty	•			
			fer, Duplex printing, Pigr	•	Batık, Khadı -		
TI '4 TIT			Printing Paste Formulation	l .			
Unit-III	Finishing & Washing						
	Necessity for Finishing – Commercial importance of finishing - Soil Release Finish,						
	anti odour and anti microbial finishes Foam Finish, Micro encapsulation techniques in finishing process – Methods of washing – study of modern/industrial washing						
	machines: rotary, swirling, pressure, tumble wash – Stain Removal: various solvents						
	for stain removing blood, tea, rust, oil/grease etc. General rules and ways of stain						
	removal.						
Unit-IV		washes & Bio proc	ess in textile				
		•	ne wash – silicon wash - E	nzvmes & Prote	eins – Sources		
		•	on of enzymes in Tex	•			
		* *	ons Bio-scouring - Bio-l		•		
		•	enim bleaching - bio-finis	-			
	Evaluation of	f enzyme treated fa	brics.	_			
Unit-V	Effluent Treatment Plants						
	Detail study	about characteri	stic of textile effluent	Developments i	in membrane		
	techniques in	n the effluent treatn	nent - Energy conservation	steps in chemic	cal processing		
	_		Causes and remedies for	water, air and n	oise pollution		
	- Bio-Techn	ology in textile effl	uent treatment plants.				

Reference and Text Books:-

Asim Kumar Roy Choudhury, (2006). *Textile Preparation and Dyeing*. USA, Enfield, NH: Science Publishers.

Asim Kumar Roy Choudhury, (2017). *Principles of Textile Finishing*. Cambridge: Woodhead Publ. Pvt. Ltd.

Bhagwat, R.S. (2000). Wet Processing Machineries. Ahmedabad: Mahajan Publications.

Manivasakam, N. (1995). Treatment of Textile Processing Effluents. Coimbatore: Sakthi Publication.

Mohd Yusuf, (2018). *Handbook of Textile Effluent Remediation*. New York: Jenny Stanford Publishing.

NCUTE IIT, (2003). Garment Finishing. New Delhi.



Prayag, R S. (1	Prayag, R S. (1994). Textile Finishing. Karnataka: L.R. Prayag publications.			
Rao, JV. (2006). Denim Washing. Ghaziabad: NITRA.				
Trotman, E.R.	(1984). Dyeing and Chemical Technology of Textile Fibres. London: Charles Griffin &			
Co., Ltd.	Co., Ltd.			
Outcomes	The students gain knowledge in			
	➤ Various preparatory processes and dyeing method to produce variety of dyed			
	fabrics.			
	> Environmental hazards caused by the effluents of Wet processing industry.			

Practical

Semester – II						
Course Code	: 9MF2P1	Core – VIII – Advanced Wet Processing -	Credits: 3	Hours: 4		
		Lab				
Objectives To get basic knowledge about the textile wet processing and its application in different textile fibers. To impart knowledge about the natural dyeing methods and materials used for natural dyeing. Process.						
1. Basic prep	paratory proce	ess.				

- 2. Degumming of silk.
- 3. Dyeing of cotton, silk, wool.
- 4. Dyeing of synthetic material.
- 5. Dyeing of blended material.
- 6. Extraction and application of natural dyes on cotton with different sources.
- 7. Extraction and application of natural dyes on Silk with different sources.
- 8. Printing of cotton using pigment colours.
- 9. Printing of silk and synthetics by using pigment colours.
- 10. Prepare sample for the following prints.
- 11. Tie and Dye techniques.
- 12. Batik printing.
- 13. Screen printing.
- 14. Finishing of fabric by using Enzyme.

15. Colour fast	tness testing.						
Outcomes	Outcomes The students are able to						
	Preparatory process and dyeing methods of different types of fabrics.						
	Printing methods natural sources for dyeing and finishing.						

Practical / Viva Voce

Semester – II							
Course Code	: 9MF2MP	Core – IX – Mini-P	Core – IX – Mini-Project Credit		Hours: -		
Objectives	The Head of the Department / Director will assign a faculty member as the Mi						
	project Guide	to a particular student co	ncerned in the b	beginning of	the second		
	semester. The	student has to fix the project	theme / title by si	ubmitting a pro	posal. The		
	work flow of t	he chosen project and other re	elated guidelines o	can be had from	n the Mini-		
	1	During this second semester,					
	1 -	nt and the students must pre		•	•		
	1 1	rogress in the form of present			•		
		ne semester, the student sh					
		report (not less than 30 pag		-			
		on the performance in two re	-	•			
		report. The final mini-projec					
		tment with two examiners		-			
	1	the COE) and the cumulat	tive marks for 10	00 will be give	ven by the		
	Department to	the COE.					
		Description	Marks				
		Internal marks	75				
		Viva-Voce	25				
	Total 100						
Outcomes	The students g	et insight knowledge					
	_	neir own project in garment pr	oduction and othe	er fashion area.			
	_	reas and apply creative knowle					

Theory

	Semester – III					
Course Code						
Objectives	To study about different areas of technical textiles and fibers used.					
	To understand the different COE for each category of Technical textiles.					
Unit-I	Technical Textiles Introduction					
	Definition and Scope, history of technical textiles, milestone in the development of					
	Technical textiles, and Future growth of technical textiles industry. Classification of					
	technical textiles and its application in textile and apparel field.					
Unit-II	Technical Fibres					
	High – Strength and high-modulus organic fibres, high chemical and combustion -					
	Resistant fibres, high performance inorganic fibres, ultra-fine and novelty fibres.					
	Technical yarns used – staple fiber yarns, filament yarns - Technical woven, knitted					
T TT	structure and nonwoven structure - Finishing of technical textiles.					
Unit-III	Classification of Technical Textiles					
	Agrotech, Hometech, Oekotech, Buildtech, Clothtech, Geotech, Indutech, Meditech,					
	Mobitech, Oekoteck, Packtech, Protech and Sport tech - Raw material and technology used for the textiles and its application areas.					
	Agro Textiles – Need for Agro Textiles, Properties Required, Types of Agrotech					
	products and their application, Fibres used, types, properties and functions.					
Unit-IV	Geo Textiles & Medical Textiles					
	Geo Textiles: Classification, Functions, Design, Properties, Raw materials, and					
	Applications.					
	Medical Textiles: Classification – Hygiene Textiles – Wound care products – Surgical					
	Textiles. Medical Products - Vascular grafts - Cardiac supportive devices -					
	Embroidered implants. Implantable medical textiles – Tissue engineering – Biomedical					
	Textiles – Antibacterial Textiles – Antimicrobial wound dressings.					
Unit-V	Safety and Protective Textiles & Home Textiles					
	Safety and Protective Textiles: Thermal insulation materials; study of water vapour					
	permeable / water proof materials, military combat clothing systems; camouflage					
	textiles, UV wave band, visible wave band, visual decoys; infrared camouflage;					
	protective textiles against micro organisms, chemicals and pesticides, evaluation technique. Military and Defence Textiles: Protective clothing, Textiles used in defence					
	systems, other applications.					
	Home Textiles: Classification, function, properties required in home textiles, raw					
	materials and application.					
Reference an	d Text Books:-					
	R. & Das, A. (2010). Technical Textile Yarns - Industrial and Medical Application. New					
	odhead Publishing India Pvt Ltd.					
	2. & Anand, S C. (2016). <i>Hand book of Technical textiles</i> . Cambridge: Woodhead					
Publishing	· · · · · · · · · · · · · · · · · · ·					
	& Wellington Sears. (2017). <i>Handbook of Industrial Textiles</i> . Florida: CRC Press.					
	r, R. (2013). Textiles for Industrial Applications. Florida: CRC Press.					
Outcomes	The students are able to					
Jucomes	 Knowledge on the principle and application of technical textiles in textile and 					
	fashion.					
	· · · · · · · · · · · · · · · · · · ·					
	 Understand the different novelty hi tech fibers, yarn and fabric used in technical textiles. 					



Theory

Semester – III						
Course Code	: 9MF3C2	Core - XI - Textile Testing	Credits: 4	Hours: 4		
Objectives	> To study	the fiber, yarn and fabric testing.		-		
	➤ To get k	nowledge about high volume instrument us	ed for the textile te	esting.		
Unit-I	Introduction to testing					
	Terminology of testing - Selection of samples for testing: fibre, yarn and fabric					
	sampling. St	tandard RH and temperature for testing - M	easurement of Mo	isture regain -		
	Conditioning	g oven & Shirley Moisture meter.				
Unit-II	Fiber Testi	ng				
	Cotton fiber	length: Baer Sorter – Fineness: Sheffield	micronaire - Matu	rity - Caustic		
	Soda swelli	ng - Strength - Stelometer. Determination	n of trash and lin	it in cotton -		
	Shirley trash	-				
Unit-III	Yarn Testir					
		ering system - Conversion of count from one	· ·			
		etermination: quadrant balance, Beesley b		-		
	Principles of CRT, CRL, CRE – Single yarn strength tester, Lea strength tester - Yarn					
	twist: Direction of twist, twist multipliers, twist testers - Yarn Evenness: methods of					
	measuring evenness – Black board appearance, Uster evenness tester, Yarn faults					
		n, Uster Classimat - Yarn hairiness and crin	p testing.			
Unit-IV	Fabric Testing					
		culars – Length, width, weight, cover fa		•		
		hydraulic bursting strength tester - Fabric				
		ic Pilling: ICI Pill box tester - Fabric drape	~	•		
		fness: Shirley stiffness tester - Fabric crease nt of crease recovery - Fabric permeability:				
		eability to water: Bundersmann tester	Similey an permea	ability tester -		
Unit-V		tness of Textiles, Garment and Accessorio				
Unit-V		stness of Textiles; Garment and Accessories stness of Textiles: Colour fastness to	-	na sunliaht		
		and dry cleaning test, Computer Colour M	•			
	and Whitene		idening - Colour	measurement		
		esting: Seam strength, Dimensional Stabilit	v. Spirality			
		Testing: Zipper, Buttons, Sewing thread, P				

Reference and Text Books:-

Angappan, P. & Gopalakrishnan, R. (2002). *Textile Testing*. Komarapalayam: SSM Institute of Textile Technology.

Booth, J.E. (2018). *Principles of Textile Testing*. New Delhi: CBS Publishers and Distributors Pvt. Ltd. Elliot B. Grover., Dame S. Hamby. (2016). *Handbook of Textile Testing and Quality Control*. New Delhi: Wiley India Edition.

Kothari, V. K. (1999). Testing and Quality Management (Vol.1). New Delhi: IAFL Publications.

Koushik, C.V. & Chandrasekaran, R. (2004). Textile Testing. New Delhi: NCUTE Publication.

Marjorie A. Taylor. (1990). Technology of Textile Properties. London: Forbes publications Ltd.

Saville, B. P. (2002). Physical Testing of Textiles. Cambridge: Woodhead Publishing Ltd.



Outcomes	The students get insight knowledge						
	➤ Learn the basic terms and definition of apparel testing and methods of evaluation.						
	> Understanding the various principles and methods are used for fibre, yarn, fabric						
	testing.						

Skill Component Practical

Semester – III							
Course Code	Course Code: 9MF3P1 Core - XII - Textile Testing - Lab Credits: 4 Hours: 4						
Objectives	Objectives > To study the fiber, yarn and fabric testing.						
> To know about interrelation factor of textiles properties.							

- 1. Determination of Fiber length using Baer Sorter Method.
- 2. Determination of Yarn Count and CSP.
- 3. Determination of yarn count by Beesley balance.
- 4. Determination of Yarn twist Double Yarn.
- 5. Determination of Single Yarn Strength.
- 6. Classification of Fabric defects and evaluation using 4 point system.
- 7. Determination of Abrasion Resistance of the given fabric.
- 8. Determination of Crease Recovery of the given fabric.
- 9. Determination of Drape of the given fabric.
- 10. Determination of Pilling of the given fabric.
- 11. Determination of Tensile Strength of the given fabric.
- 12. Determination of Bursting Strength of the given fabric.
- 13. Determination of Colour Fastness to Washing and Crocking of the given fabric.
- 14. Determination of Colour Fastness to Perspiration of the given fabric.
- 15. Determination of Dimensional Stability of the given fabric.
- 16. Determination of Tear Strength of the given fabric.

10. Determin	ation of real strength of the given faorie.
Outcomes	The students gain knowledge in
	> Prepare the test specimen and determine the various fiber and yarn properties.
	> Prepare the test specimen and determine the various fabric properties.

Practical

	Semester – III						
Course Code	: 9MF3P2	Core - X	III- CAD	in Pattern M	Taking -	Credits: 4	Hours: 4
	Lab						
Objectives	> To unde	rstand the CA	D applicat	ion in garmer	nt industry.		
	➤ To prov	ide overall ski	ll about the	e pattern mak	ing, pattern	n lay planning,	marker
	efficienc	ey and grading	g of pattern	ıs.			
1. Prepare th	e specification	n sheet using	CAD for in	ndustrial prod	uction.		
2. Prepare Pa	attern layout a	ınd marker eff	iciency usi	ing specificat	ion sheet.		
3. Prepare pa	attern making,	Grading and	marker pla	nning for the	following	garments.	
Childre	en's wear -	Yoke frock, B	aba suit, S	ummer frock,	Skirt and	tops	
• Women	n's wear - 0	Churidhar, To	os, Nightie	, Princess lin	e dress		
• Men's	wear - Sla	ack shirt Fu	ll sleeve,	Bermudas,	Pleated	trouser Bell	bottom and
Polo T	Polo T- Shirt						
Outcomes	Outcomes The students are able to						
Outcomes							- 0
	> Create	own designs a	nd make p	attern and gra	ading the p	attern with CA	D software.
	Design and making pattern for kids, women's and men's wear.						

Practical

Semester - III						
Course Code	: 9MF3C4	Core – XIV - Finishing Skills in	Credits: 2	Hours: -		
		Fashion Technology				
Objectives	> To refre	sh the knowledge of students in various f	ields of Fashion	Technology in		
	order to	prepare them to face their career interviews				
Unit-I	Textile fibro	es				
	Natural and	l synthetic fibers - morphological stru	cture, Chemical	composition,		
	properties a	nd end use - Raw materials used - Man	ufacturing sequer	nce of fibres -		
	Applications	of high end fiber.				
Unit-II	Apparel Ma	nufacturing Industry				
	Nature and S	Scope - Types of apparel production, proce	ss sequence, and	major function		
	in apparel industry. Apparel trade association.					
Unit-III	Wet Proces	sing				
	Textile proc	essing, importance of eco textiles and green	textiles.			
Unit-IV	Apparel Tr	ade				
	Apparel indu	stry and trade, organization involved in tra	de.			
Unit-V	Technical T	extiles				
	Technical te	xtiles- growth-application.				

Reference and Text Books:-

Bhagwat, R.S. (2000). Wet Processing Machineries. Ahmedabad: Mahajan Publications.

Gohl, E.P.G. & Vilensky, L.D. (2009). Textile Science. New Delhi: CBS Publishers.

Horrocks, A R. & Anand, S C. (2016). *Hand book of Technical textiles*. Cambridge: Woodhead Publishing Ltd.

Karthik, T. (2016). Home Textiles. New Delhi: Astral International Pvt Ltd.

Klein, W.D. (2018). Technology of spinning. Manchester: Textile Institute.

Normia D'Souza, (1998). Fabric Care. New Delhi: New Age International Pvt. Ltd.

Peter L. Schwartz., Trevor Rhodes. & Mansour H. Mohamed. (1996). *Fabric Forming Systems*. New Jersey: Noyes Publications.

Trotman, E.R. (1984). *Dyeing and Chemical Technology of Textile Fibres*. London: Charles Griffin & Co., Ltd.

Note:

This paper aims at seamless preparation of the students for attending / facing placement technical interviews. 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.

Outcomes	The students gain knowledge in						
	➤ Various fields of Fashion Technology in order to prepare them to face their career						
	interviews.						
	> This exercise would update their knowledge and skills in the fashion field.						

Practical

Semester – IV							
Course Code	: 9MF4G1	Portfolio Presentation and Design	Credits: 6	Hours: 6			
	Collection – Lab						
Objectives	➤ To help t	the student to identify their skill in the fashio	on designing field	d.			
	> To prepare their portfolio based on theme and trend which may help in their						
	carrier.						

A. Portfolio Presentation

- 1. Customer profile
- 2. Inspiration board
- 3. Mood Board
- 4. Colour board
- 5. Flat Sketch board
- 6. Illustration board
- 7. Swatch board
- 8. Trim board
- 9. Accessory board

B. Design garments for occasion/season - with a theme

- 1. Winter collection 3 garments
- 2. Summer Collection -3 garments

Guidelines:

Inspiration board

➤ Image collection from books and magazines by scanning, Photography and drawing, use of objects for mood creation or prepare mood board by using Photoshop.

Mood board

> Develop a theme based on group discussion, mind mapping, and brain storming.

Colour board

> Spotting theme board, mood board and inspiration board arrive to the colour board.

Flat sketch board

- > Develop front, side and back views.
- > Construct the garments for anyone above categories.

Outcomes	The students get insight knowledge
	Prepare own portfolio which exhibits their creative skills.
	> Update the fashion knowledge about the fabric colour and trim forecasting.



Theory

Semester – IV							
Course Code: 9MF4G2 Visual Merchandising Credits: 6 Hours							
Objectives	> To give a precise knowledge about visual merchandising and it importance in						
	_	garment retailing.					
		erstand the material used in visual mercha	indising and eff	fective display			
	manager						
Unit-I	Introduction		C : 1 1	1			
		Visual merchandising and display, purpose		•			
		et customers, seasonal visual merchandise f design in visual merchandise - Introduction					
	1 *	e, line; Principles - balance, emphasis, propo	, ,	C			
Unit-II	Strategic Pl		ition, mytiin, ic	pennon.			
Cint-II		target audience. Segmentation of market, A	Analysis of buy	ing motives &			
		ences. Understanding Marketing & Sales M		-			
	_	lesigns, showroom, boutique display. C	-	_			
		with music, lighting and mannequins.	J	J			
Unit-III	Display and	Display Settings					
	Types of d	lisplay, one - item, line of goods, rela	ted merchandis	e, assortment,			
	promotional	vs. institutional; Type of display settings - l	Realistic, enviro	nmental, semi-			
		atasy, abstract. Store and window settings		_			
		utdoor lightning, banners, planters, awning;					
		t, the arcade front, the corner, display, cle					
	shadow boxes, elevated, deep, tail. Music & Lighting - Selection of music. Advantages						
	& disadvantages of using music, understanding lighting patterns. Role of lighting in						
TI		nandising, Colours and types of lightings.	D:1				
Unit-IV	_	, Attention Drawing Devices & Merchandi : Types of mannequins - realistic, semi realistic, sem		sami abstraat			
	_	essing up of mannequin.	ansuc, abstract,	seiiii austract,			
		Irawing devices: Attention drawing devices	ces color ligh	ting line and			
	1	Scale, contrast, repetition, humor, mirrors,		•			
	shock, props	-		, F			
		se display: Introduction, objectives, p	olanning a di	isplay, visual			
	merchandiser in store promotion, scheduling the promotion.						
Unit-V	Visual Mero	chandising					
	_ ^ ^	g clients. Develop according to client r	•	•			
		Developing them and idea for client presenta					
		Marketing consideration for every mercha					
		of the contract. Assignments & Evaluation.	Planning & inv	ventory control			
	system.						
Reference an	d Text Rooks	' _					

Reference and Text Books:-

Gini Stephens Frings, (2004). Fashion Concept to Consumer. New Jersey: Prentice Hall.

Jay Diamond & Ellen Diamond. (2006). *Contemporary Visual Merchandising and Environmental Design*. New Jersey: Prentice Hall.

Martin M. Peglar. (2010). Visual Merchandising and Display. New York: Fairchild Publishers.



Outcomes	The students are able to			
	➤ Learn and know the store image, window display, mannequin and interior &			
	exterior design.			
	Understanding the marketing and sales management and Visual merchandising.			

Practical / Viva Voce

Semester - IV				
Course Code: 9MF4MR	Core – XV – Industrial Internship with Credits: 18 H		Hours: 18	
	Project Work			
O. 4			1 - 1:	

Objectives

The objective of M.Voc Fashion Technology Programme is to produce Fashion designers and they are able:

 To get employment in industry, government, or entrepreneurial endeavors to demonstrate professional advancements through significant theoretical and practical knowledge and expanded leadership responsibilities.

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 entire semester 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. During this Internship period there will be two 'Project Reviews' conducted by the Department and the students must present themselves in person and present the project progress in the form of presentation in front of the internal guide. 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 internal guide will award for 100 marks based on the performance in two reviews and the quality of the project documentation report. The external guide (industry personnel) of the particular student will award for 50 marks. The cumulative of these two marks for 150 will be considered as internal mark. The final project viva-voce for 50 marks will be conducted by the Department with two examiners and the cumulative 200 marks will be given by the Department.

Description	Department	Industry	Total marks
Internal marks	100	50	150
Viva-Voce	50		50
Total	150	50	200

Outcomes

The students gain knowledge in

- Experience in the garment industry which supports their knowledge updating.
- Encourage students to start up their career in apparel and garment industry.

Theory

Semester - I						
Course Code	Course Code: 9MF1E1 Elective – I - Home Textiles Credits: 4 Hours					
Objectives	> To understand the importance of household materials and it application areas.					
		ow about the varieties of Home textile perturing the products.	products and	libre used for		
Unit-I	Introduction	<u> </u>				
		ile in India: Introduction to home textile – D	omestic and Gl	obal market for		
		es - Major production centres in India. Home				
		g materials: woven and nonwoven - Factor	_			
	furnishing:	fiber, yarn, fabric & finishes - Finishes	for home fu	rnishings: soil		
	repellency,	mosquito repellency, flame proofing, dust rep	ellency, anti mi	crobial finish.		
Unit-II	Window Tr	reatment				
	Doors and	Windows: types - Window treatment - exte	erior, interior -	hard and soft -		
	Curtains and	d Draperies – types, parts, factors for selection	n and constructi	ion, accessories		
		Coverings: Requirements, benefits, types	•	•		
	Materials and manufacturing of fabrics – Application, end use – colour concepts.					
Unit-III		Bed Room Furnishing				
		m: types - sofa, sofa covers, cushion / cushi				
	covers. Bed linen: types - Bed spread, bed sheets, mattress and mattress covers, pillow					
	and pillow covers – process sequence for bed linen - use and care - Quilt: types - Hand					
	quilting.					
Unit-IV	Floor Covering and Bath Linen					
	Floor covering: definitions – fibre used – classification of floor covering - Types of					
	_	omparison of carpets - Carpet cushions - M	_	_		
	T -	gs - uses and care of floor covering. Bath L	_			
		sign elements - Terry towels - Classificati	_			
	Standard sizes – Manufacturing flow chart – Construction of terry towels – Market					
Unit-V	share - Production centers. Care and maintenance of bath linen.					
Unit-V	Table Linen & Kitchen Linen Table Linens - Place mats and table cloths - Definition - Placemats - Varieties of					
	placemats – Making process flow – Instruction – tips & warnings – Reversible placemats – Stone placemats — table cloths – Types, material & manufacturing.					
	_	nens - Introduction - Material used – Kitchen		_		
		oron – Napkins – Doilies – Kitchen mats – E	-			
	1	ain – Table runner – Kitchen rugs – Types of	-			
	Kitchen curt	an racio familio intronon rago Types of	strones and sec	iiib ubcu.		

Reference and Text Books:-

Anita Tyagi, (2011). *Textiles for Apparel and Home Furnishing*. New Delhi: Sonali Publications. Caroline Lebea, (1994). *Fabrics the Decorative Art of Textiles*. London: Thames and Hudson Ltd. Cheryl Mendelson, (2005). *Home Comforts the Arts and Science Keeping House*. New York: Scroper Publisher.

David Holloway, (2000). *The Essential Book of Home Improvement Techniques*. London: Marshals Publications.

Ghosh Dr. Ashis Kumar. (2011). *Traditional Knowledge of Household*. New Delhi: Daya Publishing House.



Hamlym, (2001). Bed and Table Linen. New York: Octopus Publishing Group Ltd.

James Merrell, (1995). Living with Decorative Textiles. London: Thames and Hudson Ltd.

Jay Diamond & Ellen Diamond. (2007). Fashion Apparel, Accessories & Home Furnishings. New Jersey: Pearson Prentice Hall.

Karthik, T. (2016). Home Textiles. New Delhi: Astral International Pvt Ltd.

Outcomes

The students are able to

- ➤ Generalize knowledge about the varieties of home furnishing materials and finishing methods.
- Analyze the knowledge on suitability of furnishings and care & maintenance of home furnishing materials.

Skill Component Theory

	Semester – I					
Course Code: 9MF1E2 Elective – I - Knitting Clothing Credits: 4						
Objectives	> To know	v about the knitting industry growth and it c	ontribution in Inc	dian Economy.		
	> To get	insight knowledge about the knitting me	thod and fabric	manufacturing		
	process,	quality management.				
Unit-I	Introduction	to knitted fabrics - Difference between knit	s and woven's –	Indian knitting		
	industry: pa	st, present and future.				
Unit-II	Hand knittii	ng, terms used in knitting, weft knitting &	warp knitting –ii	ntroduction and		
	comparison	Parts and functions of weft knitting and w	arp knitting - ca	lculations used		
	in knitting.					
Unit-III	Wefts knit structures - single jersey or plain - rib - purl - interlock - Knit float-tuck					
		tructures - designing of weft structures.	•	rics -warp knit		
	structures – under lap – overlap – closed lap and open lap stitches.					
Unit-IV	Latest Knitt	ing machines, weft knitting machines: Flat	bar, straight bar,	Circular- warp		
	_	chines: Raschel, Tricot-Knitted fabric defe	-			
	Streakiness, Imperfections, Contaminations, Surface hairiness & pilling, Dyeing					
		ins, Colour fading, Shade variations, High s				
Unit-V	_	nent manufacture: marker planning, spreadi		-		
	quality control, pressing(or)ironing, packing, final inspection, shipping- knit wear					
	garment designs and developments.					
Reference an	nd Text Books	:				
Ajgaonkar, D	B. (1998). <i>Kr</i>	itting Technology. Mumbai: Universal Publ	ication Corp.			
Cegielka, L.	(1989). <i>The kn</i>	itting Industry - Present Needs, Future Requ	<i>uirements</i> . Mancl	nester: The		
Textile In	stitute.					
David J. Sper	ncer. (2014). K	nitting Technology. London: Pergamon pres	SS.			
_						

Jonh Arthur, (2009). An Introduction to Weft Knitting. UK, Watford: Merrow Publications.

Samuel Raz, (1993). Flat Knitting Technology. Germany: Universal Maschinenfabrik.

Terry Brackenbury, (2005). Knitted Clothing Technology. Oxford: Blackwell Science.

Outcomes	The students get insight knowledge			
	Knitting and principles involved in making knitted fabric.			
	Latest machines used in knit manufacturing.			

Theory

Semester - I						
Course Code	Course Code: 9MF1E3 Elective – I - Clothing Appearance and Fit Credits: 4 Hours: 4					
Objectives	> To understand the perception of body appearance and it relation to clothing.					
		v the assessment of clothing appearance and f				
77.4.7		about the sizing system and importance of b		ystem.		
Unit-I	_	of body appearance and its relation to cloth	0	a hadriimaaa		
		 Beauty - Facial attractiveness, body physic of body appearance by dressing, fabric 				
	appearance		properties relate	ed to clothing		
Unit-II	* *	of Clothing Appearance				
		- Assessment of fabric surface smoothne	ess, seam appea	arance, crease		
		ppearance retention of finished garments				
		Objective evaluation of fabric wrinkling,	fabric pilling,	seam pucker,		
		ent appearance.				
Unit-III		of Clothing Fit	1 6 1:	1.64 1.4		
		f fit - Influences on clothing fit, testing methors, subjective fitting guide, Objective evaluation				
	_	praic evaluation of clothing fit, clothing wa				
	clothing fit, 3D modelling of pressure fit. Pattern alteration for fit, prediction of garment patterns from body measurements.					
Unit-IV	3-D Body S	•				
	Introduction - global development of body scanners, principles and operations of body scanning technologies and bench marking - Challenges of 3D body scanning - Latest national size survey using 3-D body scanner - Garment drape - measurement of fabric drape, empirical prediction of fabric drape, dynamic and seamed fabric drape, modelling fabric and garment drape, drape models in commercial CAD and internet systems.					
Unit-V	Human An	thropometrics and Sizing Systems				
	Terms and definitions - Traditional anthropometry - Historical development of sizing system, international sizing, principles of sizing systems - Tech packs preparation for men, women and children. Three-dimensional (3-D) apparel design systems for pattern generation and garment fit - virtual fitting on the internet.					
Reference an	d Text Books	:-				
	Hunter, L. (200	04). Clothing Appearance and Fit - Science a	nd Technology.	Netherland:		
Elsevier.						
Jay Calderin,	Jay Calderin, (2004). Form and Fit. Netherland: Elsevier Publications.					
Sarah Veblen	, (2012). The (Complete Photo Guide to Perfect Fitting. Min	neapolis MN: C	Creative		
Publishing International.						
Vincent G. D	Vincent G. Duffy. (2016). Digital Human Modelling. Florida: CRC Press.					
Deepti Gupta, & Norsaadah Zakaria. (2014). Anthropometry, Apparel Sizing and Design. Cambridge:						
Woodhead Publ. Pvt. Ltd.						
Outcomes	The studen	s are able to				
		nowledge in perception of body appearance a		o clothing.		
	> Analys	e the clothing appearance and fit &body scan	ning system.			

Practical

Semester – II					
Course Code: 9MF2E1 Elective – II - Home Textiles – Lab Credits: 5 Hours: 5					
Objectives To learn about the pattern making procedure of household textile products. The students are able to design and construct the item.					
iles - Fibers f	abric used in home textile products.				
d stitch sampl	es -Mitten, potholder, apron, napkins.				
aft and stitch	the home textile products - Bed Linens, tab	le linens.			
4. Design, draft and stitch the home textile products - Curtains & Draperies.					
5. Interior Decorations for Home - Diwan set, kitchen Linen.					
6. Hangings / mats - Wall and Door, fridge covers.					
Outcomes The students are able to					
Design and stitch and home textile products in creative manner.					
➤ Get experience in selecting the fabric which is suitable for making home text products.					
	To learn The studiles - Fibers for distitch sample aft and stitch aft and stitch ecorations for mats - Wall The student Design Get exp	Elective – II - Home Textiles – Lab To learn about the pattern making procedure of house The students are able to design and construct the iterities - Fibers fabric used in home textile products. d stitch samples -Mitten, potholder, apron, napkins. aft and stitch the home textile products - Bed Linens, table aft and stitch the home textile products - Curtains & Drape ecorations for Home - Diwan set, kitchen Linen. mats - Wall and Door, fridge covers. The students are able to Design and stitch and home textile products in creaters.	Elective – II - Home Textiles – Lab Credits: 5 ➤ To learn about the pattern making procedure of household textile procedure. The students are able to design and construct the item. Iteles - Fibers fabric used in home textile products. Iteles - Fibers fabric used in home textile pro		

Practical

		Semester – II						
Course Code	: 9MF2E2	Elective – II	- CAD in Fashion Designing	- Credits: 5	Hours: 5			
			Lab					
Objectives	To illustra	ite the different	type of design in computer by	adopting the so	ftware.			
	To design	the garment fo	r different age group of people					
1. Design di	fferent types of	border patterns						
2. Design an wear.	2. Design and illustrate the children's wear – Casual wear, party wear, Executive wear and formal							
3. Design an wear.	d illustrate the	Women's wear	- Casual wear, party wear, Exe	ecutive wear and	l formal			
4. Design an	d illustrate the	Men's wear-	Casual wear, party wear, Execu	ntive wear and f	ormal wear.			
5. Select the	5. Select theme and Design the garments – Develop portfolio.							
6. Create weave designs.								
Outcomes	The students	gain knowledg	e in					
	> Practical	experience on	design and illustrate the childre	en's, women's, i	nen's wear.			
	Learn an	d develop portf	folio and own weave designs.					

Practical

Semester – II							
Course Code	Course Code: 9MF2E3 Elective – II - Advanced Fashion Credits: 5 Hours: 5						
		Illustration – Lab					
Objectives	Objectives > To learn the basic principle and techniques used in drawing.						
	> To understand the colour combination and apply on garment designing.						

A. Fashion Sketching

- 1. Basic colour, theories of colour, colour scheme, colour application.
- 2. Still Drawing by different shading techniques.
- 3. Developing flesh figure from stick figuring with different poses.
- 4. Model drawing with different poses.
- 5. Garment Sketching Men, Women & Kid.
- 6. Creating Checked effects in a garment one colour and multiple colour.
- 7. Creating Printed effects in a garment one colour and multiple colour.
- 8. Fabric rendering on Croquis (Printed cotton, silk chiffon, velvet, denim, wool and knit).
- 9. Introduction to children's Croquis Different postures, stylization, developing theme based design illustration for kid's collection.

B. Fashion Illustration

- 1. Drawing from Photographs any 2 garment designs.
- 2. Stylized illustration Collage work, Cutwork illustration, 3D illustrations.
- 3. Group illustration with different backgrounds.

1	č					
Outcomes	The students are able to					
	Acquire knowledge about the colour, theories of colour, colour scheme and colour					
	application.					
	Familiarize students with different garment sketching, body figures, movements of					
	figures and various fashion techniques.					

Practical/Viva Voce

Semester – II						
Course Code	: 9MV2E4	Elective – III - Corporate Etiquette Skills	Credits: 5	Hours: 5		
Objectives		ance and sharpen the required skills and proper b	•	•		
	the students to build good corporate relationship with the customers and their					
	colleagues.					
	To learn to build a consistent professional image with respective organization's					
		and mission.				
Unit-I	Professional			10		
		approach & behaviour – rational vs. emotional de		ysis of self-		
	_	and self confidence – qualities of an effective exec	cutive.			
Unit-II	Corporate F	•	T (* 1.1	1.1. TO 1.1		
	_	casions – formal – semi formal and informal	– Eating hal	bits— Table		
11 2 111		ody language: Kinesics and proximity.				
Unit-III	House Keep	9	Chalvas Cm	atial I Itility		
		at work place – Organizing the Work Table and	-	-		
	and Energy Saving habits – Office Files and Personal Computer / Laptop management.					
	Front Office Skills: Reception and Greeting – Telephone manners – effective visitor appointments management – Preparation to attend office meetings – preparation to hold					
	office meetir		iligs – prepara	tion to nota		
Unit-IV	Communica					
CIIIC-I V		spoken communication. Soft skills for academic	presentations	- Effective		
		ion skills – Structuring the presentation - Choosing	•			
		OHP – Power Point presentation – Clarity and 1				
	_	Interview skills – Group Discussions.	,			
Unit-V	Documentat					
	Objectives,	Report writing, writing minutes, Preparation n	nethods, and	Report for		
	media.					
Reference an	d Text Books	:-				
Lesikar, R.V.	& Flatley, M.l	E. (2007). Basic Business Communication. New D	elhi: Tata Mc	graw Hill		
Publication	ıs.					
Naveen Kuma	Naveen Kumar, & Sudan, A. S. (2015). Managerial Skill Development. New Delhi: Anmol					
Publication	Publications.					
Outcomes	The students	are able to				
	➤ Build a p	professional behaviour and standards for appearance	ce, actions and	d attitude in		
	_	environment.				
	> Prepare	participants to handle a variety of social and	business situ	uations and		
	enhance	confidence on you.				

Practical/Viva Voce

		Semester – II		
Course Code	: 9MV2E5	Elective – III - Competitive	Credits: 5	Hours: 5
		Examination Skills		
Objectives	> To learn a	about Social skills and Conflict skills to bed	come a successfu	ıl person.
	1	re interpersonal skills in order to improve	the relationship	ps with human
	behaviou	. .		
Unit-I	Social Skills	and Conflict Management Skills		
	Component of	f Social Skills, effective ways of dealing	with people - Ty	pes of conflict
	, -	, intra group and inter group conflicts) -	_	_
	*	secrets of body language - Signifi	•	
		on and assertiveness training Conflict stin	nulation and cor	iflict resolution
	_	r effective conflict management		
Unit-II	Interpersona			
	1 *	eam in work situation, promotion of team	•	
		areness of one's own leadership style	-	~
		ualities - Emotional intelligence and	-	
	1	elf management, self motivation, empathy		•
		ration and planning, definition of gro		
Unit-III	-	pargaining and problem solving, closure an		n
	_	Creativity & Application, Testing & Assess	sment	
Unit-IV	• •	Abilities & Fluency, Numerical Ability	T . M	1 7 1
Unit-V	1 *	Perceptual Abilities, Situation reaction	lest, Memory	and Inductive
Defenence on	Reasoning			
	d Text Books:			
		ew Manual. New Delhi: Ramesh publishir	_	
• •	,	e Tests. New Delhi: Sterling Publishers Ind		
		Placement Interviews. New Delhi: Tata Mc	graw Hill Public	ations.
1 1	Success Review	e		
	, ,	ality Development. New Delhi: Tata McG1	aw Hill Publicat	ions.
Outcomes	The students			
	_	knowledge about the social, conflict manage		•
	Familiar	ize students with verbal, numerical and spa	tial and Perceptu	ıal Abilities.

Practical/Viva Voce

Semester – II							
Course Code	e : 9MV2E6	Elective – III - Soft Skills and	Credits: 5	Hours: 5			
		Entrepreneurial Skills					
Objectives	➤ To famili	arize the students with the latest program	ns of the governm	ent authorities			
	in promot	ing small and medium industries.					
	> To impar	> To impart knowledge regarding how to start new ventures.					
Unit-I	Self Concept, Self Esteem and Leadership						
	Self Concept	- Definition and Characteristics of Self	Concept – Defin	nition of Self-			
	Esteem - Fact	tors influence Self Esteem - Low Vs High	n Self Esteem - Ste	ep to raise Self			
	Esteem - Le	eadership and Goal setting: Emergence	e and Functions	of Leader -			
	Characteristic	s of Leadership - Types of Leadership	- Characteristics	of Successful			
	Leadership.						
Unit-II	O. 1	eaking and Reading					
		ctive listening - Barriers to listening	_				
		ord stress and rhythm -Pauses and sense		_			
	1	- Fluency and pace of delivery - Art of small talk - Participating in conversations -					
	_	Making a short formal speech.					
	Reading: Reading with a purpose – Making predictions – Understanding text structure						
	- Locating main points - Making inferences.						
Unit-III	Writing Mod						
		ume and Covering letters - e-mail - Filling					
		kills for academic presentations - Structu	ring the presentati	on - Choosing			
T1 *4 TX7		edium – Clarity and brevity.					
Unit-IV	1 -	entrepreneur	ontropped our Class	ification of			
	Entrepreneur-		entrepreneur-Class				
	_	Entrepreneurial traits- Entrepreneurial fu development- Entrepreneurship - Mea		-			
		Programmes- Objectives of EDP-Metho	-	-			
	1 *	agencies which support entrepreneurship	•	lases of EDF -			
Unit-V		upport and incentives to entrepreneurs- I		SIDCO NSIC			
Cint- v		STEDP, NEDB, NIESBUD. Functions of					
		- Techno park-Functions of techno					
	, , ,	of incentives- Subsidy- Types of Su	-	-			
		Government schemes: Start-up India –	*	-			
		Non-Government schemes – other relate		_			
	1 ~	any one enterprise/entrepreneur, prepa	•				
	_	of case study report.		1			
	<u> </u>	V 1					

Reference and Text Books:-

http://startupindia.gov.in/

Marilyn Anderson, Pramod K. Nayar. & Madhucchandra Sen. (2010). Critical Thinking, Academic Writing and Presentation Skills. India: Pearson Education & Mahatma Gandhi University.
Sangram Keshari Mohanty, (2005). Fundamentals of Entrepreneurship. New Delhi: PHI Publication.
Sasikumar V. Kiranmai., Dutt, P. & Geetha Rajeevan. (2014). Communication Skills in English. India:



Cambridge University Press & Mahatma Gandhi University.

Shukla, M.B. (2010). *Entrepreneurship and Small Business Management*. Allahabad: Kitab Mahal. Xavier Alphones, S.J. (2004). *We Shall Overcome - A Textbook on Life Coping Skills*. Chennai: ICRDCE Publication.

Outcomes

The students are able to

- Acquire knowledge on self concept, self esteem and leadership and develop listening, speaking, reading skills.
- > Learn and understand the concepts of entrepreneur.

Theory

	Semester- III						
Course Code	: 9MF3E1 Elective – IV - Fashion Photography Credits: 5 Hours: 5						
Objectives	To give a precise knowledge about colour, light in fashion photography.						
	To understand the various techniques used in fashion photography.						
Unit-I	Introduction						
	Camera types – 35mm, SLR, Digital camera - Working principle of camera	ı -					
	Accessories: general accessories - lenses, lens filters, film types, flashlights- lighting						
	accessories – power accessories, system accessories - Care and maintenance of camera	a.					
Unit-II	Techniques						
	Camera techniques: Basic techniques - fundamentals of composition, depth of field	eld,					
	shutter speed, focusing, using exposures. Equipment techniques – filter techniques, le	ens					
	techniques, flash techniques, studio flash techniques, lighting techniques. Subje	ect					
	techniques - landscape, night photography, portrait, action photography and speci	cial					
	effects - Outdoor and Indoor Photography – equipments.						
Unit-III	Lighting and Film						
	Lighting - concept and importance - Types of lighting - front light, side light, ba	ıck					
	light, revealing light, controlling light, flash and studio lighting. Film types – Black as	ınd					
	White, Colour. Film speed- Film format.						
Unit-IV	Subject Photography						
	Fashion Photography in different media – modeling, newspaper, magazines and fashion						
	shows - Concept/theme based photography along with its application and acceptabili	ity					
	in marketing and commercialization/branding.						
Unit-V	Developing and Printing						
	Basics of developing and printing – image mixing and printing – Latest developmen	nts					
	in printing – Computer application in photography - Video photography.						

Reference and Text Books:-

John Hedge, (1992). Photography Course. New York: John Hedge Co.

Miller, W.R. (1978). *Basic Industrial Arts, Plastics, Graphic Arts, Photography*. Illinois: McKnight Publishing Company.

Nirmal Pasricha, (2002). *A Professional's Basic Photography*. New Delhi: Black Rose Publications. Peter Cattrell, (2005). *Photography*. London: Octopus Publishing Group Ltd.

Simon Joinson, (2004). *Get the most from your Digital Camera*. UK, Exeter, Devon: David and Charles Book.

Steve Bavister, (2004). 35 mm Photography - The Complete Guide. UK, Exeter, Devon: David and Charles Book.

Sue Hillyard, (2003). *The Photography Handbook - A Step by Step Guide*. London: New Holland Publishers.

Outcomes	The students gain knowledge in					
	> Types of camera, principles of camera and the various accessories and equipment					
	techniques of various cameras in photography.					
	> Importance of lighting, types of lighting, film types and film speed and film					
	format.					
	Developing and printing, image mixing, printing and computer application in					
	photography.					



Theory

Semester – III							
Course Code	: 9MF3E2	Elective – IV - Lean Manufactur	e in	Credits: 5	Hours: 5		
		Apparel Industry					
Objectives	> To impart knowledge on the basics of lean manufacturing, various tools of lean						
		manufacturing.					
	> To understand strategy formulation and implementation of lean in textile and						
	apparel in	dustries.					
Unit-I	Introduction			(TDG) I			
	1	ean manufacturing, Toyota production	•	` //	•		
		siness practices, three types of wa		-			
	_	to wastages, over production, higher i		•			
		and motion of materials, over proc	essing	, rework, repai	rs, rejections,		
	wastage of pe	•	hiteuka	Housekeening	r practices in		
	Concept of 5s: Seiri, seiton, seisō, seiketsu, shitsuke. Housekeeping practices in spinning, weaving, processing and garment industries for cleaner production.						
Unit-II		uality and Value Stream Mapping	103 101	eleaner producti			
	Tact Time, calculation of time for producing exact quantity required, pull and push						
	system of manufacturing, concepts of JIT, identifying non-value activities, eliminating						
	non-value activities through value stream mapping (VSM) in garment industry.						
Unit-III	Statistical To		,	, 2			
	Defect / def	ective distribution measurement u	sing n	normal distribu	tion. DMAIC		
	(Define-Meas	ure-Analyze-Improve-Control) mod	lel in	world class	zero defect		
	programme (ZED model). Sampling: Sampling	plan f	for attributes an	nd continuous		
	variables. AQ	L levels.					
Unit-IV	Lean Concep	ts in Inventory Control					
	_	s applied in transparent flow of in		-			
	_	d customers, reduction of invento	•	•			
		OQ) and batch production models					
	1	Application of KAIZEN in §	garmen	nt industry fo	r continuous		
77 4. 77	improvement						
Unit-V		or Garment Industry		1 /	CMED) 4 4 1		
	_	l applications of single piece flow,	_	-			
		aintenance (TPM), heijunka, cellular	_	· ·			
		a-yoke, super market concept, kanba apparel industry, case studies of lean		-			
		essing and garment industries.	111411111	acturing in spilii	mig, weaving,		
	Kinting, proc	cosing and garment moustiles.					

Reference and Text Books:-

Askin Ronald, G. & Goldberg Jeffrey, B. (2003). *Design and Analysis of Lean Production Systems*. New Jersey: John Wiley & Sons Inc.

Colenso Michael, (2002). *Kaizen Strategies for Successful Organizational Change*. London: Pearson Education Pvt. Ltd.

Creveling, C M., Slutsky, J L. & Antis, D. (2004). *Design for Six Sigma Technology and Product Development*. India: Pearson Education India Pvt. Ltd.



Gopalakrishnan, N. (2010). Simplified Lean Manufacture - Elements, Rules, Tools and Implementation. New Delhi: Prentice Hall of India Learning Pvt. Ltd.

Hobbs Dennis, P. (2009). Lean Manufacturing Implementation - A Complete Execution Manual for any Size Manufacturer. New Delhi: Cengage Learning India Private Ltd.

Rajmanohar, T P. (2008). *Cost of Poor Quality - Concept and Applications*. Telangana: ICFAI Press. Rajmanohar, T P. (2009). *Lean Product Development - Concept and Models*. Telangana: ICFAI Press.

Outcomes

The students are able to

- ➤ Understand the lean implementation in garment industry and evaluation of its effectiveness in the process.
- ➤ Get experience about the various lean tools and its appropriateness for various textile industries.

Theory

		Semester – III				
Course Code	: 9MF3E3	Elective – IV - Apparel Brand Management	Credits: 5	Hours: 5		
Objectives	> To impar	tand the brand management concepts. t knowledge on brand building, globag business.	al branding, a	dvertising and		
Unit-I	positioning -c	nding ge, identity, loyalty - Brand name – type competitive positioning, product positionir s Trademark and brand registration.	•			
Unit-II		nding, technology branding, corporate broncept, evaluation of opportunities, fa	-	-		
Unit-III	Global Branding Rationale: advantages / disadvantages - International branding strategy - planning system, leadership, cross-country relationship. Brand Management Systems: Role of Product managers / brand managers - Trends in brand management - brand culture - Brand alliances – co branding, licensing.					
Unit-IV	Advertising Definition, advertising objectives, benefits, economic aspects and ethics in advertising - Advertising and marketing mix - Advertising Appeal: Message - reach, frequency, impact and effectiveness Media Overview: Types of media, media selection, media plan, media cost and availability - Matching media and market - Media strategy - media mix, media scheduling - Comparative evaluation.					
Unit-V	Advertising Business Organization, advertising manager, advertising agency, advertising plan, basic principles and agency compensation - Public relations - Advertising Budget: Allocation of budget for various components of advertising. Methods of determining budget for advertisement. Administering the advertisement budget.					
	Reference and Text Books:- Chandrasekhar, K.S. (2002). <i>Product Management - Text and Cases</i> . Mumbai: Himalaya Publishing House					
Chunnawala, S.A. (1998). <i>Product Management</i> . Mumbai: Himalaya Publishing House. Harsh V. Verma. (2005). <i>Brand Management - Text and Cases</i> . New Delhi: Excel Books. Kevin Lane Keller, (2006). <i>Strategic Brand Management</i> . New Jersey: Prentice Hall. Moorthi, Y L R. (2004). <i>Brand Management</i> . Mumbai: Vikas Publications House Pvt. Ltd.						
Sengupta, S. (Outcomes	The students > Branding	get insight knowledge strategy, brand management, and global bang types, business and budgeting.		ues.		

Practical

Semester – III							
Course Code	Course Code: 9MF3E4 Elective – V – Fashion Styling - Lab Credits: 5 Hours: 5						
Objectives	theatre a	ole the students to take up traditional cosund advertisement industry. hands on training to students in under	ŕ	ŕ			

- 1. Costumes of India: traditional costumes of different states of India.
- 2. English Textiles and Costumes- Middle Age and American Costumes-18th-20th Century.
- 3. Introduction to evolution of theatre costumes.
- 4. Sketch and colour: Costume (male & female), Mask, Footwear's, Accessories and Jewellery of the following theatres Greek, Egypt, (One each).
- 5. Sketch and colour: Costume (male & female), Mask, Footwear's, Accessories and Jewellery of the following theatres Roman, Chinese, Japanese and 19th century (One each).
- 6. Study and preparation of any one variety of theatre costume with suitable accessories based on a movie or a book.
- 7. Major Trimmings and Decorations.
- 8. Survey on famous brands available in market for men, women & children.
- 9. Sourcing of fabrics, fasteners and trims.
- 10. Layout, design and illustration for different kinds of store displays.
- 11. Window display for a specific store and boutique.
- 12. Thematic window display.

Outcomes The students are able to ➤ Acquire knowledge in traditional costumes of India, English and American costumes. ➤ Understanding the theatre costumes. ➤ Know the store displays and window displays for special store and boutique.

Practical

Semester – III							
Course Code	: 9MF3E5	Elective – V - Surface Ornamentation	Credits: 5	Hours: 5			
	in Apparels and Textiles - Lab						
Objectives	To understand the basic embroidery Stitches and it application in designing.						
	> To enable the student to develop design and practice the stitches to embellish the						
	fabric sur	face.					

- 1. Introduction and origin of embroidery general rules for hand and machine embroidery.
- 2. Selection of needle, threads & fabrics for embroidery.
- 3. Basic embroidery stitches and its variations -Running stitch, chain stitch, cross stitch, stem stitch.
- 4. Lazy daizy, French knot, Satin stitch, Feather.
- 5. Traditional embroidery stitches Kantha, Kasuthi, Chikankari, Phulkari, Kashida.
- 6. Quilting, and patch work.
- 7. Cut work, couching Mirror work, drawn thread work.
- 8. Special techniques: Smocking, ribbon work, beads and sequence work, hand fabric painting.
- 9. Developing one product based on techniques of Surface Ornamentation (one or more).

Outcomes	The students gain knowledge in		
	➤ Make the sample of basic and traditional embroidery stitches.		
	Experience in preparing frame fitting for hand Aari and stitches.		

Practical

	Semester – III				
Course Code: 9MF3E6		Elective – V - Advanced Garment	Credits: 5	Hours: 5	
		Construction - Lab			
Objectives > To understand and develop garment for special uses.					
	> To analyse the need and develop design based on the need of the wearer.				
1. Single Needle Lock Stitch Machine (SNLS) – Select fabrics of different construction and modify					
the stitche	the stitches per inch and study the effects.				
2. Design and construct the casual and party wear for children.					
3. Design and construct the casual and party wear for women's wear.					
4. Design and construct specialised clothing – pesticide worker.					
5. Design and construct innerwear for men / women / children.					
6. Design and construct garment for Special people.					
7. Design and Construct Gloves / Cap / Socks / Veils.					
Outcomes	Outcomes The students are able to				
	> Acquire	knowledge about the SNLS machine and	analyze the fabri	ics of different	
	construc	tion, modify the stitches and effects.			
	➤ Understa	nding the design and construction of ga	rments for child	dren, men and	
	women.				

Theory

	Semester – II				
Course Code: 9MF2N1		Non - major Elective - I – Fashion	Credits: 2	Hours: 3	
		Designing			
Objectives	> The lear	> The learner will learn the basic fashion, design development, concepts and its			
	applicat	application.			
	> To unde	> To understand the elements and principles of design and apply it with garment			
	design.	design.			
	➤ Will be trained in the fashion design area and make them to be an entrepreneur.				
Unit-I		Fashion - Definition, terminology, Fashion cycle, Famous fashion designers. Design -			
		Definition, Types- Structural and Decorative Design, Requirements of a Good			
	Structural and Decorative Design. Application of Structural and Decorative Design.				
Unit-II	Elements of Design -Line, Shape or Form, Colour, Size and Texture. Principles of				
	Design – Ba	Design – Balance, Rhythm, Harmony, Emphasis and Proportion. Application of these			
		apparel designing.			
Unit-III		Basic sewing, sewing tools used for garment construction, seams and seam finishes,			
		hems, hem types, fullness - definition, types. Darts, tucks pleats, flares and godets,			
	gathers and frills or ruffles, flounces, neckline finishes.				
Unit-IV	Designing of collars and its types, factors to be considered in designing the collars.				
	Yoke designs and its types, Draw different types of yoke, sleeve, skirt, shirt, pant.				
	Plackets, fas				
Unit-V	1	urement – importance, preparation of fa		_	
	_	inciples of pattern making, dart manipulation	n, pattern grading	g, and garment	
	fitting.				
	Reference and Text Books:-				
Mary Mathew	Mary Mathews, (1997). Practical Clothing Construction – Part- I. Chennai: Cosmic Press.			SS.	
Meenakshi N	Meenakshi Narang, (2003). Hand Book of Fashion Technology. New Delhi: Asia Pacific Business			Business	

Press Inc.

Khurana Pooja, & Sethi Monika. (2007). Introduction to Fashion Technology. New Delhi: Fire Well Publication.

Pundir, N. (2007). Fashion Technology Today and Tomorrow. New Delhi: Mittal Publication. Sushma Gupta, (2008). Text Book of Clothing and Textiles and Laundry. New Delhi: Kalyani

Outcomes The students are able to Learn elements and principles of design and application in garment designing.

Publishers.

Theory

	Semester – III				
Course Code	: 9MF2N2	Non - major Elective - I	I – Fashion and	Credits: 2	Hours: 3
		Apparel Mercha	andising		
Objectives	> The learner will learn the basic fashion, fashion theory, fashion show, fashion			show, fashion	
	forecast	forecasting			
	To understand the process flow and structure of an apparel industry.				
	➤ Will be	rained in the merchandising	g and make them t	o be a merchand	liser.
Unit-I	Fashion - definition, classification, Terms related to the fashion industry - Fashion			try – Fashion	
	cycle – Fashion theory – National and international fashion designers. Environment of				
	fashion – Leaders of fashion – Fashion show – Fashion forecasting.				
Unit-II	Process flow in apparel industry - Organization structure of an apparel industry -			rel industry –	
	Rating or G	Rating or Grading of export houses – Classification of Exporters - Classification of			assification of
	buyers - Re	ceiving and warehousing -	– Distribution – S	Sourcing: definit	ion, methods,
	and apparel	sourcing clusters in India.			
Unit-III	Merchandisi	ng: Introduction, Meaning	g- Apparel Merch	andising - Con	cepts of 'Six
	Rights' - Ty	pes of merchandiser - Func	tions of a merchan	ndiser – Essentia	al requisites of
	a good merchandiser. Export merchandising and retail merchandising - Company			g – Company	
	profile and i				
Unit-IV	Buyer source	ing & communication -	sampling: Meani	ng & importan	ice, Types of
	_	samples. Inspection and its types - Approvals: definition, types of approvals -			
	Assortment	and its types. Order sheet a	and its contents –	Packing list and	its contents –
		ormats: order sheet, packing			
Unit-V		scope, importance, types,		_	
	selling - Journals and magazines related to apparel and textiles – Trade shows and Fairs				
	- Export asso	ociations: Apparel Export P	romotion Council.		

Reference and Text Books:-

Daragho' Reilly, Jullian J. Gibbs, Building Buyer Relationships.

Inside the Fashion Business. Mc Millan Publishing Co.

Elian Stone, Fashion Merchandising.

Krishn Kumar M, (2010). Apparel Merchanidising, An integrated Approach. Abishek

Publications.

Robin Mathew, Apparel Merchandising. Jaipur: Book Enclave Publishers.

Jerry A & Rosenau, Apparel Merchandising. London: Fairchild Publications.

Outcomes	The students are able to		
	➤ Learn terms related to fashion industry		
	Familiarise the different types of merchandising, advertising, sales promotion,		
	personal selling.		

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 Chairperson / Convener

Alagappa University, Karaikudi

2 Dr.G.Mahesh

Assistant Professor(Fashion Technology)

Alagappa Institute of Skill Development Member

Alagappa University, Karaikudi

3 Dr.C.Balakrishnan

Assistant Professor(Software Development)

Alagappa Institute of Skill Development

Member

Alagappa University, Karaikudi

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 Subject Expert

National Institute of Technology, Tiruchirappalli (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)



9 Dr. KM. Pachiyappan

Head, Department of Costume Design & Fashion Special Invitee
PSG College of Arts & Science, Coimbatore-14 (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/c, Dept. of Fine Arts

Alagappa University, Karaikudi

Special Invitee

(Tamil)

12 **Dr. P. Madhan**

Associate Professor and Head i/c

Dept of English and Foreign Languages,

Alagappa University, Karaikudi.

Special Invitee

(English)

13 Ms. J. Jenita Mary

No.3/436,Vairavapuram 3rd Street, Student Alumni Karaikudi. Special Invitee

14 Dr. E. Kannapiran

Director, Curriculum Design and Development Cell Ex-Officio Member Alagappa University, Karaikudi

Name: **Dr. B. Dharmalingam**Designation: Professor & Director

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Phone: 9443850902

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; பழதமிழ ெதாழிசா 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 Exterprises 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



Name: Dr. G. Mahesh

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Email: maheshganesan55@gmail.com

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



Name: **Dr. C. Balakrishnan**Designation: Assistant Professor

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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 Amalarethinam 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 Amalarethinam and C. Balakrishnan, "HAADAS- An enhanced approach for Reallocation 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 Amalarethinam 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 Amalarethinam 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 Amalarethinam 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 Amalarethinam and C. Balakrishnan, "A Survey on Peer-To-Peer Real Time Object Databases", Published in International Journal on Research and Reviews in Computer Science (LIRRCS) (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 Amalarethinam and C. Balakrishnan, "HAADAS An enhanced approach for Reallocation of Fragments in Peer-to- Peer Distributed Databases", International Conference on Advanced Computing (ICAC 2015), Jamal Mohamed College, Tiruchirapppalli, 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 Amalarethinam 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, Tiruchirapppalli, 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



Name: Dr. S. Nickolas

Designation: Professor in Computer Application

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Fax: -----

Email: nickolas@nitt.edu

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 herterogenous distributed systems", Int.J.Communication Networks and Distributed Systems, Vol 12,No.2,2014
- R.Eswari and S.Nickolas "Effective task scheduling for herterogenous 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", IJIIT 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



Name: **Dr.Anand Bhojan** Designation: Senior Faculty

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Educational qualification:

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

Professional experience:

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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 Governer 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, "TITAL 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, Akhihebbal 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, Akhihebbal 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



Name: Dr.K.J.Sivagnanam

Designation: Head-Skill Development Initiatives Address: NIFT TEA, Mudalipalayam, Tirupur-641 606

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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 West 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:



Name: **Mr. A. ArockiaArulnathan** Designation: Senior Automation Developer Address: K7 Computing Pvt.Ltd, Chennai

Phone: 9789862971 Fax: -----

Email: arockia.arulnathan@live.in



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:



Name: Dr. KM. Pachiyappan

Designation: Head

Address: Department of Costume Design & Fashion

PSG College of Arts & Science, Coimbatore-14

Phone: 9790034560 Fax: -----

Email: kmpachiyappan@gmail.com



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:



Name: Dr. A. Senthilrajan Designation: Professor & Director

Address: Department of Computational Logistics

Alagappa University, Karaikudi.

Phone: 9443192176 Fax: -----

Email: agni senthil@yahoo.com

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 andmanagement October 30th and 31st,2009.
 - 3. Convenor and organised National conference on Information computing and 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.
 "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.Vijyayalakshmi, "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 Refered 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 Chenai 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.
 "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:



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Designation: Professor

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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 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 Agapporulum- Karpu Marabukal & Tholkappiyamum Maranahapporulum-Ilakkana Valarchi, Workshop on Aspects of Tholkappiam and Later grammatical works on Agam concept, Alagappa University, Karaikudi & CICT, Chennai, 04.01.2012to13.01.2012
- 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 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 Thotruvaaikku Sanga
 Pangalippu, CICT ,Chennai & Dep't of Tamil, Alagappa Gov't Arts College,
 09.01.2014
- Vazhipadugalum Thinaikkotpadugalum, Workshop on Chevviyal Ilakkiyangalil Tamizhar Vazhipaattu Marabugal, CICT, Chennai& Alagappa University, Karaikudi, 22.01.2014



- Ra. Ragavaiyangarin Urainadai Thiran, Workshop on Pazhanthamizh Uraiyasiriyarkalin Nadaikkotpadu, CICT, Chennai& Alagappa University, Karaikudi, 03.03.2014
- Tamil Haigoo Kavithaikalil Puthiya Pokkuhal, National seminor on New Trends on 20 th Century Tamil Puthu kavithaikal, Urumu Danalakhshmi College, Trichirapalli, 01.10.2015
- Tholkapiathil Neethi, Seminar Collection on Tamil Ilakkiathil Neethi, Ulaga Tamil
 Sangam,
 Madurai, 23.01.2016.
- Thiruvasagathil 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:

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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
- Madhan, P. "AN ANALYSIS OF CHALLENGES OF WOMEN IN INDIA AND SUGGESTIVEREMEDIES FOR THEIR EMPOWERMENT" Social Sciences International Research Journal, ISSN: 2395-0544.
- Madhan, P. "IMPACT OF MONEY ON INDIAN HOUSEHOLDER IN RUTH PRAWER JHABVALA'S THE HOUSEHOLDER" International Journal of Law and Social Sciences, ISSN: 2394-4277.

Cumulative Impact factor:

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Educational qualification:

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

Professional experience:

• 18 Years

Honours and Awards:

•

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.
- Kannapiran, E and J. Ravindran, 2011. Phosphate mineralizing bacteria in the coral reefs of Gulf of Mannar. Journal of Basic Microbiology, (Wiley Blackwell, London) 51: 1–8.
- Kalaigandhi V, E. Kannapiran, Hari Muraleedharan and A. Michael, 2011. nifH gene of reference being the source to study the marine Azotobacter sp. J. Sci. Trans. Environ. Technov., 5(1): 37 42.
- Kalaigandhi V and E. Kannapiran, 2011. Qualitative and Quantitative Examination of Plant Growth Hormone Production using Azotobacter Isolated from Seagrass Ecosystem of Thondi. Asian Journal of Microbiol. Biotech. Env. Sc. Vol. 13(4):1-6.
- Sri Ramkumar, V and E. Kannapiran., 2011. Isolation of total heterotrophic bacteria and phosphate solubilizing bacteria and in vitro study of phosphatase activity and production of phytohormones by PSB. Archives of Applied Science Research, 3 (5):581-586 (ISSN 0975-508X).
- Sri Ramkumar V, E. Kannapiran and M. Palanisamy, 2011. Prevalence and distribution of total heterotrophic bacteria from Kottaipattinam coast, Palk Strait, Southeast coast of India, Archives of Applied Science Research, 3 (5):593-598 (ISSN 0975-508X).
- E. Kannapiran and V. Sri Ramkumar, 2011. Isolation of phosphate solubilizing bacteria from the sediments of Thondi coast, Palk Strait, Southeast coast of India Annals of Biological Research, 2 (5): 157-163 (ISSN 0976-1233).
- Sri Ramkumar V, E. Kannapiran and M. Magesh, 2011. Variations in heterotrophic bacteria and phosphate solubilizing bacteria from Karangadu and Devipattinam coast, Palk Strait, Southeast coast of India. Annals of Biological Research, 2 (5): 602-609 (ISSN 0976-1233).
- E. Kannapiran and V. Sri Ramkumar, 2011. Inoculation effect of nitrogen-fixing and phosphate-solubilizing bacteria to promote growth of black gram (Phaseolus mungo Roxb; Eng) Annals of Biological Research, 2 (5):615-621 (ISSN 09761233).
- Ravindran J, E. Kannapiran, B., Manikandan, R Mani Murali and K. Anthony Joseph, 2012. Bleaching and secondary threats on the corals of Palk Bay: A survey and proactive conservation needs. Indian Journal of Geo-Marine Sciences, Vol. 41 (1): 883-890. ISSN 0379-5136, Impact factor 0.183.
- Kannapiran E and N.K. Ahila, 2012. Coral Diseases: An Overview, Proceedings of the National Conference on Aquatic Animal Health and Management held at Faculty of Marine Sciences, CAS in Marine Biology, Annamalai University, Parangipettai, from 14 to 15.09.2012, 32-36.
- Prakash S, S. Ravikumar, K. V. R. Reddy and E. Kannapiran, 2013. Spermicidal activity of Indian seaweeds: an in vitro study, Journal of Andrologia, Andrologia 2013, 1–9. (Wiley Blackwell Publishers). (ISSN: 1439-0272) Impact factor: 1.546.
- Prakash S, NK. Ahila, S. Ravikumar and Kannapiran E, 2013. Phenotypic and Genotypic Probing of Biofertilizing Halotolerant Azosprillum Spp. and Bacillus Spp. Middle-East Journal of Scientific Research 15 (1): 128-133, 2013. ISSN 19909233.



- Ravindran J, E. Kannapiran, B. Manikandan, K. Francis, Shruti Arora, E. Karunya, Amit Kumar, S. K. Singh and Jiya Jose, 2013. UV-absorbing bacteria in coral mucus and their response to simulated temperature elevations, Accepted in Coral Reefs. ISSN 0722-4028, Impact factor 3.662.
- Ahila NK, E. Kannapiran, J. Ravindran and V. Sri Ramkumar, 2013. Studies on methanogenic consortia associated with mangrove sediments of Ennore. Accepted in the Journal of Environmental Biology. ISSN 0254-8704, Impact factor 0.682.
- S. Prakash,R. Ramasubburayan, P. Iyapparaj, N. K. Ahila, V. Sri Ramkumar, A. Palavesam & G. Immanuel, E. Kannapiran, 2015. Influence of physicochemical and nutritional factors on bacterial diversity in mangrove sediments along the southwest coast of Tamilnadu, India, Environ Monit Assess, 187:562
- Sri Ramkumar V, S. Prakash, R.Ramasubburaya, R. Baburajendran and E. Kannapiran, 2016. Seaweeds: A Resource for Marine Bionanotechnology. Enzyme and Microbial Technology, Accepted.
- Prakash S, and E.Kannapiran, 2016. In vitro Scientific evaluation on antimicorbial, antioxidant, cytotoxic properties and phytochemical constituents of traditional coastal medicinal plants. Biomedicine & Pharmacotherapy 83:648–657.
- Ahilaa N.K, V. Sri Ramkumar, S. Prakash, B. Manikandan, J. Ravindran, P.K. Dhanalakshmi, E. Kannapiran. Synthesis of stable nanosilver particles (AgNPs) by the proteins of seagrass Syringodium isoetifolium and its biomedicinal properties Journal: Biomedicine & Pharmacotherapy 84:60–70.

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- Sri Ramkumar V, S. Prakash, R.Ramasubburaya, R. Baburajendran and E. Kannapiran, 2016. Seaweeds: A Resource for Marine Bionanotechnology. Enzyme and Microbial Technology, Accepted.
- Prakash S, and E.Kannapiran, 2016. In vitro Scientific evaluation on antimicorbial, antioxidant, cytotoxic properties and phytochemical constituents of traditional coastal medicinal plants. Biomedicine & Pharmacotherapy 83:648–657.
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