

**POST-GRADUATE DIPLOMA PROGRAMME**

in

**FASHION DESIGNING**

*under*

**CHOICE BASED CREDIT SYSTEM (CBCS)**

**&**

**CREDIT FRAMEWORK FOR SKILL DEVELOPMENT (CFSD)**

**COURSE PATTERN**

(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 Designing for better employment possibilities and to open avenues for self-employment.
- To empower the students in terms of career goals, decision making and livelihood options.

## OUTCOME

The curriculum of the PG Diploma in Fashion Designing Programme enables the students to become any of the below mentioned Jobs

- Assistant Fashion Designer
- Export Assistant
- Assistant Supervisor
- Fabric checker
- Sampling designer



## 1. For Admission

Eligibility: For getting admission to the PG Diploma in Fashion Designing programme: Students completed any under-graduate of this University or any recognized University or who has passed an examination accepted by the Syndicate, as equivalent thereto 10+2+3 pattern with 55% marks in Part III (for SC/ST candidates 50%)

## 2. For the Degree

The candidates shall have subsequently undergone the prescribed PG Diploma in Fashion Designing of study in Alagappa Institute of Skill Development, Alagappa University.

**Table A. PG Diploma in Fashion Designing - Duration and credit framework with exit points**

NSQF Level	Normal duration in years	Semester	Credits per semester	Exit point / Awards
8	I	I	30	<b>Post-Graduate Diploma in Fashion Designing</b>
		II	30	
<b>Total Credits</b>			<b>60</b>	

- i. **For the Post-Graduate Diploma:** The candidates shall have subsequently undergone the prescribed course of study for a period of not less than **one academic year**, passed the examinations prescribed and fulfilled such conditions as have been prescribed therefore.

## I. DURATION

**The course is for a period of one year with two semesters.** Each academic year shall comprise of two semester viz. Odd and Even semesters. Odd semesters shall be from June / July to October / November and Even Semesters shall be from November / December to April / May. There shall be not less than 90 working days which shall comprise 540 teaching clock hours for each semester. (Exclusive of the days for the conduct of University end-semester examinations)



**ALAGAPPA INSTITUTE OF SKILL DEVELOPMENT**  
**ALAGAPPA UNIVERSITY, KARAIKUDI.**  
 SYLLABUS UNDER CBCS PATTERN (w.e.f. 2019-20)  
**PG Diploma in Fashion Designing**

Degree	Sem	Subject code	Course Name	Credits		Hrs./ Week	Marks		Total	
				Skill	General		Int.	Ext		
Post-Graduate Diploma in Fashion Designing	I	9FD1C1	<b>Core – I –</b> Fiber to fabric	5	--	5	25	75	100	
		9FD1C2	<b>Core – II –</b> Basic Sewing Techniques	4	--	4	25	75	100	
		9FD1P1	<b>Core- III –</b> Practical - Fashion Designing - Lab	5	--	5	25	75	100	
		9FD1P2	<b>Core – IV –</b> Practical - Sewing Techniques - Lab	4	--	4	25	75	100	
		9FD1G1	<b>General – I –</b> Fashion Designing	--	4	4	25	75	100	
		9FD1G2	<b>General – II –</b> Fashion Business communication	--	4	4	25	75	100	
			<b>Elective – I</b>	--	4	4	25	75	100	
		<b>Sub-Total</b>			<b>18</b>	<b>12</b>				
		<b>Total for Semester - I</b>			<b>30</b>		<b>30</b>	--	--	<b>700</b>
	II	9FD2C1	<b>Core – V –</b> Textile Dyeing and printing	4	--	4	25	75	100	
		9FD2C2	<b>Core – VI –</b> Garment Quality Testing and Assurance	4	--	4	25	75	100	
		9FD2C3	<b>Core – VII –</b> Garment Manufacturing Technology	4	--	4	25	75	100	
		9FD2P1	<b>Core – VIII –</b> Practical - CAD – Lab	3	--	4	25	75	100	
		9FD2MP	<b>Core – IX –</b> Mini-Project	3	--	3	100	--	100	
		9FD2G3	<b>General - III –</b> Practical - Garment Construction for Kids and Adult Wear – Lab	--	4	3	25	75	100	
			<b>Elective – II – Lab</b>	--	4	4	25	75	100	
			<b>Elective – III</b>	--	4	4	25	75	100	
		<b>Sub-Total</b>			<b>18</b>	<b>12</b>				
	<b>Total for Semester – II</b>			<b>30</b>		<b>30</b>	--	--	<b>800</b>	

**Elective – I**

1. Fashion and Apparel Merchandising – 9FD1E1
2. Fashion Clothing Psychology – 9FD1E2
3. Visual Merchandising – 9FD1E3

**Elective – II – Lab**

1. Surface Ornamentation and Accessories Lab – 9FD2E1
2. Textile Testing - Lab – 9FD2E2
3. Textile Dyeing and Printing - Lab – 9FD2E3

**Elective – III**

1. Corporate Etiquette Skills – 9FD2E4
2. Indian Traditional Textiles and Embroidery – 9FD2E5
3. Textile Finishing – 9FD2E6



## Skill Component

## Theory

Semester - I			
Course Code : 9FD1C1	Core - I- Fiber to Fabric		Credits: 5
		Hours: 5	
<b>Objectives</b>	<ul style="list-style-type: none"> <li>➤ To understand the properties of fiber and its application in various end uses.</li> <li>➤ To get an insight about the fabrication process and methods involved in process.</li> </ul>		
<b>Unit-I</b>	<b>Introduction to the field of textiles</b> Classification of fibres –natural and chemical – primary and secondary characteristics of textile fibres.		
<b>Unit-II</b>	<b>Manufacturing process, properties and uses of natural fibres</b> Cotton, linen, Jute, silk, wool, man-made fibres –Viscose rayon, acrylic. Nylon, polyester. Recent innovation in minor fibers.		
<b>Unit-III</b>	<b>Spinning</b> Definition, Classification – Chemical – wet, dry and melt and mechanical spinning – blending, opening, cleaning, doubling, carding, combing, drawing, roving, spinning. Yarn classification – definition, classification – simple and fancy yarns, Sewing threads and its properties.		
<b>Unit-IV</b>	<b>Weaves</b> Weaving, parts of loom - loom motions and basic process, basic weaves –plain, twill, satin. Fancy weaves- pile, double cloth, leno, swivel, dobby and jacquard.		
<b>Unit-V</b>	<b>Knitting</b> Introduction about knitting, classification of warp and weft knitting and end uses. Non-Woven- felting, fusing, bonding, lamination, netting, braiding and crocheting.		
<b>Reference and Text Books:-</b>			
Corbmann, B.P. (2005). <i>Textiles – Fibre to Fabric</i> . New Delhi: McGraw - Hill International Edition.			
Joseph J. Pretal. (1990). <i>Fabric Science</i> . New York: Fairchild Publications, inc.			
Marjory L. Joseph. (1988). <i>Essentials of Textiles</i> . New York: Holt Rinehart & Winston publishers.			
Seema Sekhri, (2016). <i>Text book of fabric Science - Fundamentals of finishing</i> . New Delhi: PHI Publication Private Ltd.			
<b>Outcomes</b>	The students are able to <ul style="list-style-type: none"> <li>➤ Understand raw materials and production process involved in both natural and manmade fibre.</li> <li>➤ Identifying the different types of fabric available in market.</li> </ul>		



Skill Component

Theory

Semester – I			
Course Code : 9FD1C2	Core - II - Basic Sewing Techniques	Credits: 4	Hours: 4
<b>Objectives</b>	<ul style="list-style-type: none"> <li>➤ To study about the parts and function of sewing machine.</li> <li>➤ To study the seam, fullness and other garment parts and its importance in garment designing.</li> </ul>		
<b>Unit-I</b>	<b>Parts and functions of a single needle machine, essential tools</b> Cutting tools, measuring tools, marking tools, general tools, pressing tools, seams and seam finishes – types, working of seams and seam finishes. Hems – types, stitches used.		
<b>Unit-II</b>	<b>Fullness</b> Definition, types. Darts, tucks, pleats, flares and godets, gathers and shirrs, frills or ruffles, flounces, facings – bias facing, shaped facing and decorative facing. Binding – single bias binding, double bias binding.		
<b>Unit-III</b>	<b>Plackets</b> Definition, characteristics of a good placket, types – inconspicuous placket and conspicuous plackets. Fasteners – conspicuous (Button and button-holes, button loops, button with holes, shank buttons, eyelets and cords). Inconspicuous (press buttons, hooks and eyes, zips). Yoke and its types.		
<b>Unit-IV</b>	<b>Sleeves</b> Definition, types, set-in-sleeves – plain sleeve, puff sleeve, bishop sleeve, bell, circular. Sleeve and bodice combined – raglan, kimono and dolman. Collars – definitions, types, peter pan, scalloped, sailor, square, full shirt collar, Chinese, shawl collar. Pockets – types – patch pocket, bound pocket, pocket in a seam, front hip pocket.		
<b>Unit-V</b>	<b>Body Measurements</b> Importance, tools used for clothing construction, fabric preparation for sewing. Pattern layout. Methods of pattern making, commercial pattern. Pattern grading and computerised grading. Pattern alteration and its principles.		
<b>Reference and Text Books:-</b> Mary Mathews, (1986). <i>Practical Clothing Construction – Part I and II</i> . Chennai: Cosmic Press. Chris Jeffreys, (2006). <i>The Complete Book of Sewing</i> . London: Dorling Kindersley Limited. Chris Jefferys, (2015). <i>101 Essential Tips Basic Sewing</i> . London: DK Publishing, inc. Besty Hosegood, (2008). <i>The Complete Book of Sewing</i> . London: Dorling Kindersley Ltd. Reader's Digest Association, (1993). <i>Sewing and Knitting – A Reader's Digest Step by Step</i> .			



*Guide.* Australia: Reader's Digest Pvt Ltd.

**Outcomes**

The students gain knowledge

- Garment industry production process and its management process.
- Familiarize the different types of machines and special attachments used in garment industry.



## Skill Component

## Practical

Semester – I			
Course Code : 9FD1P1		Core - III - Fashion Designing - Lab	Credits: 5 Hours: 5
<b>Objectives</b>	<ul style="list-style-type: none"> <li>➤ To study the elements &amp; principles of design and its application in garment designing.</li> <li>➤ Design the garments based on theme and apply different rendering techniques.</li> </ul>		
	<ol style="list-style-type: none"> <li>1. Introduction to fashion drawing Pencil shading and smudging techniques - Human figures in proportion using 8-head theory.</li> <li>2. Drawing of eyes, nose, ears and lips.</li> <li>3. Drawing of Hands and legs – Different poses.</li> <li>4. Drawing of face and hair style.</li> <li>5. Sketching of Necklines and collars (3)</li> <li>6. Drawing of sleeves and, pockets, yokes (3)</li> <li>7. Sketching of pants shirt and tops (3)</li> <li>8. Elements, principles of design and its application in dress design.</li> </ol>		
<b>Outcomes</b>	<p>The students are able to</p> <ul style="list-style-type: none"> <li>➤ Draw the different head theory which helps them to do the illustration.</li> <li>➤ Illustrate the face, nose, ears, lips, hands and legs, face and hair style which helps them to do the illustration.</li> <li>➤ Know the different types of collars sleeves, pockets, yokes, neck designs which make them to do unique designs.</li> </ul>		

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Skill Component

Practical

Semester – I			
Course Code : 9FD1P2		Core - IV - Sewing Techniques - Lab	Credits: 4
			Hours: 4
<b>Objectives</b>	<ul style="list-style-type: none"> <li>➤ To study and prepare sample for basic hand and machine stitches</li> <li>➤ To prepare the samples for different garment finishes such as seams, fullness, neckline finishes etc.</li> </ul>		
<ol style="list-style-type: none"> <li>1. Preparation of samples for Seams and Seam Finishes.</li> <li>2. Preparation of samples for Hems.</li> <li>3. Preparation of samples for Fullness.</li> <li>4. Preparation of samples for Facings and Binding.</li> <li>5. Preparation of samples for Plackets and Fasteners.</li> <li>6. Preparation of samples for Sleeves - Plain Sleeve/Puff Sleeve (any one type)</li> <li>7. Preparation of samples for Yokes -with and without Fullness.</li> <li>8. Preparation of samples for Collar- Peter Pan Collar, Full Shirt Collar and Shawl Collar.</li> <li>9. Preparation of samples for Pocket - Patch, Bound and Side Seam .</li> <li>10. Preparation of basic kids garments .</li> </ol>			
<b>Outcomes</b>	<p>The students get insight knowledge</p> <ul style="list-style-type: none"> <li>➤ Function and proper care of all the small sewing tools/equipment.</li> <li>➤ Practical skills in the proper handling of fabrics and made into samples.</li> </ul>		

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General Component

Theory

Semester – I			
Course Code : 9FD1G1	General – I – Fashion Designing	Credits: 4	Hours: 4
<b>Objectives</b>	<ul style="list-style-type: none"> <li>➤ To understand the elements and principles of design and its application in garment design.</li> <li>➤ To impart knowledge about wardrobe planning and figure irregularities.</li> </ul>		
<b>Unit-I</b>	<b>Fashion</b> Definition, Fashion terminologies – fad, chic, knock off, avant garde – Fashion cycle – Fashion forecasting – Factors influencing in fashion.		
<b>Unit-II</b>	<b>Design elements</b> Introduction to design – Types of design – Elements and their importance in a design – Line, size, shape, colour and texture.		
<b>Unit-III</b>	<b>Principles of design in fashion</b> Balance and its types – Proportion and its application in garment design – Emphasis – Creating emphasis in a garment using various techniques – Harmony and its impact in garment design – Rhythm – Application of rhythm in garment design.		
<b>Unit-IV</b>	<b>Colour</b> Introduction to colour theories (Prang and Munsell) – Dimensions of colour – Warm and cool colours – colour schemes – colour psychology.		
<b>Unit-V</b>	<b>Designing dress for different figure personality</b> Unusual figures becoming and unbecoming, for the following Figure Types - Stout Figure, Thin Figure, Narrow Shoulders, Broad Shoulders, Round Shoulders, Large Bust, Flat Chest , Large Hip, Large Abdomen. Wardrobe planning and its importance.		
<b>Reference and Text Books:-</b>			
Sumathi, G.J. (2007). <i>Elements of Fashion and Apparel Design</i> . New Delhi: New Age International (P) Ltd.			
Injoo Kim, & Mykyung Uh. (2016). <i>Apparel Making in Fashion Design</i> . New York: Fairchild Publications.			
Bride M. Whelan. (1997). <i>Color Harmony – A Guide to Creative Color Combinations</i> . USA: Rockport Publishers.			
James Stockton, (1985). <i>Color</i> . California, San Francisco: Chronicle Book Publishers.			
Axel Venn, (1997). <i>Color Kaleidoscope – Creating Color Harmonies</i> . UK, London: Mode... information Group.			



<b>Outcomes</b>	The students are able to <ul style="list-style-type: none"><li>➤ Understand elements and principles of design.</li><li>➤ Learnt about colour theory and application in dress designing.</li><li>➤ Understand the importance of figure types in garment designing.</li></ul>
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General Component

Theory

Semester –I			
Course Code : 9FD1G2	General – II - Fashion Business Communication	Credits: 4	Hours: 4
<b>Objectives</b>	<ul style="list-style-type: none"> <li>➤ To study about the importance fashion business communication techniques.</li> <li>➤ To understand the different promotional skills and fashion communication.</li> </ul>		
<b>Unit-I</b>	<b>Fashion Marketing and communication</b> Introduction, components of fashion marketing communications. Theoretical frameworks - communication strategies within the fashion industry, the significance of marketing communications to fashion marketing activity.		
<b>Unit-II</b>	<b>Fashion marketing process</b> The process of marketing communications development, models of mass communication, the role of marketing communication in consolidating brand position and influencing consumer perception of fashion brands. Globalization of fashion communication in terms of legal, social and cultural implications.		
<b>Unit-III</b>	<b>Advertising</b> The role of advertising -encoding messages, advertising control bodies, creating and designing appropriate marketing communications strategies. Media planning, market research and account planning the advertising brief print advertising, editorial, photography. Creating a market position through strategic marketing communication.		
<b>Unit-IV</b>	<b>Marketing promotion</b> The role of communication in promoting sales - of public relations, sponsorships and endorsements, exhibitions, tradeshow and fashion shows. The role of communication in personal selling - direct marketing and e-marketing.		
<b>Unit-V</b>	<b>International fashion marketing</b> Communications, implementation and evaluation of fashion communication methods, impact of technology in fashion communication, regulatory and ethical issues in fashion marketing communication.		
<b>Reference and Text Books:-</b> Smith, P. R. & Taylor, J. (2005). <i>Marketing Communications - An Integrated Approach</i> . London: Kogan Page Publishers. Agins, T. (2010). <i>The end of Fashion - How Marketing Changed the Clothing Business Forever</i> . New York: Harper Collins publishers.			



Hines, T. & Bruce, M. (2012). *Fashion Marketing - Contemporary Issues*. UK, Oxford: Butterworth – Heinemann.

George E. Belch., Michael A. Belch. (2003). *Advertising and Promotion - An Integrated Marketing Communication Perspective*. New Delhi: Tata Mcgraw Hill India.

Malcolm Barnard, (2013). *Fashion as Communication*. London: Routledge Publishers.

**Outcomes**

The students are able to

- Understand the significance of fashion communication.
- Acquire knowledge about on international fashion marketing communication.



Skill Component

Theory

Semester – I			
Course Code : 9FD1E1	Elective – I - Fashion and Apparel Merchandising	Credits: 4	Hours: 4
<b>Objectives</b>	<ul style="list-style-type: none"> <li>➤ To study the basic concepts in fashion and fashion merchandising.</li> <li>➤ To understand the roles and responsibilities of merchandiser and export promotion council roles in merchandising.</li> </ul>		
<b>Unit-I</b>	<b>Merchandising</b> Introduction, Meaning- Apparel Merchandising – Concepts of Six Rights” – Organisation structure of an apparel industry – Classification of Exporters – Classification of buyers – Export merchandising and retail merchandising, Types of merchandiser - Functions of a merchandiser – Essential requisites of a good merchandiser.		
<b>Unit-II</b>	<b>Process flow in apparel industry</b> Buyer sourcing & communication – Enquiry – Order confirmation – order review and its importance – Planning & programming: Master planning, Schedule route card – Samples: Meaning & importance – Types of samples – expedition of samples.		
<b>Unit-III</b>	<b>Inspection and its types</b> Testing – Check points before cutting - Pilot run or trial run and its importance – Approvals - Types of approvals – Shipping marks – Final inspection procedures – Self, Second and Third party inspection - Effective expedition procedures.		
<b>Unit-IV</b>	<b>Order sheet and its contents</b> Packing list and its contents – Document formats: order sheet, packing list, invoice, inspection and testing reports etc., - Assortment and its types. Documents recording and maintenance – Claims and reasons for claims - Factory audits – Buyer’s code of conducts.		
<b>Unit-V</b>	<b>Principles of costing</b> Requirements of good costing system - cost unit - types of costs. Elements of cost - direct material cost - direct expenses - direct wages - indirect materials - indirect expenses - indirect labour - overheads - - prime cost - work cost - cost of production - total cost.		
<b>Reference and Text Books:-</b> Krishnakumar, M. (2010). <i>Apparel Merchandising - An Integrated Approach</i> . Chandigarh: Abhishek publications. Jeremy A. Rosenau. (2017). <i>Apparel Merchandising</i> . New York: Fairchild Publications.			

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Robin Mathew, (2017). *Apparel Merchandising*. Jaipur: Book Enclave publishers.

Elaine Stone, & Jean A. Samples. (1985). *Fashion Merchandising*. New York: Mcgraw Hill Book Company.

**Outcomes**

The students are able to

- Understand Concept of merchandising and get an idea about the procedure involved in the export and retail merchandising.
- Learn export documents and knowledge about on inspection and testing.



Skill Component		Theory	
<b>Semester – I</b>			
<b>Course Code : 9FD1E2</b>		<b>Elective – I - Fashion and Clothing Psychology</b>	
		<b>Credits: 4</b>	<b>Hours: 4</b>
<b>Objectives</b>	<ul style="list-style-type: none"> <li>➤ To know the psychology needs of consumer to purchase of clothing.</li> <li>➤ To study about the national and international fashion designer.</li> </ul>		
<b>Unit-I</b>	<b>Terms related to the Fashion Industry</b> Fashion, Style, Fad, Classic, Collection, Chic, Mannequin, Fashion Show, Trend, Haute Couture. Fashion Forecasting.		
<b>Unit-II</b>	<b>Factors influencing Fashion Changes</b> Psychological Needs of Fashion, Social Psychology of Fashion, Technological, Economical, Political, Legal and Seasonal Influence. Role of Costume as a Status Symbol, Personality and Dress, Repetition of Fashion.		
<b>Unit-III</b>	Fashion Leaders, Fashion Innovators, Fashion Motivation, Fashion Victim, Fashion followers. Adoption of fashion – Trickle Down, Trickle Up and Trickle Across Theory. Fashion Forecasting - Market Research, Evaluating the Collection, Fashion Services, Colours Services, Video Services, Newsletter Services, Websites, Directories and references.		
<b>Unit-IV</b>	<b>Indian Designers</b> Rohit Khosla, Gitanjal Ksshyap, Hemant Trivedi, J.J. Valaya, Ritu Kumar, Rohit Bal, Tarun Tahiliani, Sangeethe Chopra, Bhamini Subramaniam, Anju Modi, Ravi Bajaj, Ritu Beri.		
<b>Unit-V</b>	<b>World fashion Centres</b> France, Italy, England, Germany, Canada, New York.		
<b>Reference and Text Books:-</b>			
Axel Venn, (1997). <i>Color Kaleidoscope – Creating Color Harmonies</i> . London: Mode... information Group.			
Sumathi, G.J. (2008). <i>Elements of Fashion and Apparel Design</i> . New Delhi: New Age International (P) Ltd.			
Patrick John Ireland, (2006). <i>Fashion Design Drawing and Presentation</i> . London: B.T. Batsford Ltd.			
Jenny Davis, (2010). <i>A Complete Guide to Fashion Designing</i> . Chandigarh: Abhishek Publication.			
<b>Outcomes</b>	The students are able to <ul style="list-style-type: none"> <li>➤ Understand the fashion industry and fashion forecasting.</li> <li>➤ Able to learn fashion leader, Fashion environment and adoption</li> <li>➤ Acquire knowledge about on Indian and World fashion designers.</li> </ul>		





Skill Component

Theory

Semester – I				
Course Code : 9FD1E3		Elective – I - Visual Merchandising	Credits: 4	Hours: 4
<b>Objectives</b>	<ul style="list-style-type: none"> <li>➤ To know about the retailing, store plan and importance of marketing strategies.</li> <li>➤ To acquire knowledge about visual merchandising and planning to set up the display in the apparel sector.</li> </ul>			
<b>Unit-I</b>	<b>Visual merchandising</b> Introduction, concepts and role, importance in store planning and utilizing basic visual merchandising techniques; Role of atmosphere in garment retailing – immediate effects and simulation types, visual merchandisers in garment retailing.			
<b>Unit-II</b>	<b>Store Exterior And Interior</b> Store exterior – marquee, facade, exterior display, surrounding stores and displays; Store interior – store atmospheric, aesthetic, execution of store lay out - selection of display locations, lifts, staircase, elevators, utilization of store space; Display composition: Elements and principles of design, tools and materials.			
<b>Unit-III</b>	<b>Store layout</b> Factors considered in organizing effective display – balance, rhythm, proportion, texture, harmony and emphasis. Store layout planning- grid, race track, free form – direction of flow and planogram; Design elements to create mood and impression – colour, angle, motion, simplicity, and repetition.			
<b>Unit-IV</b>	<b>Display</b> Seasonal and trend decision for point of emphasis – creativity in display; Planning of assortment, theme, ensemble, racks, shelves, bins, etc. and balance of display in a show room. Wall as retail selling tool – types of materials used merchandise display and effective wall planning. Application of colour schemes, colour psychology, creating mood by colour.			
<b>Unit-V</b>	<b>Lightings</b> Lights types, selection, advantages and disadvantages, music. Using effective Graphics and signage for theme, campaign and promotional aspects - safety and security; Theme, interior and exterior displays used in garment retail outlet, boutique and haute couture, accessories show rooms, mannequins, fabric and paper displays.			

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**Reference and Text Books:-**

Martin M. Peglar (SVM). (2018). *Visual Merchandising and Display*. New York: Fairchild Publication.

Marian L. Davis. (1996). *Visual Design in Dress*. New Jersey: Prentice Hall inc.

Mike Easey, (2009). *Fashion Marketing*. UK, Oxford: Wiley – Blackwell.

Lamba, A.J. (2003). *The Art of Retailing*. New Delhi: Tata Mcgraw-Hill India.

**Outcomes**

The students are able to

- Learn the store image, window display, mannequin and interior & exterior design.
- Acquire knowledge about on visual merchandising and principles,



## Skill Component

## Theory

Semester – II			
Course Code : 9FD2C1	Core - V - Textile Dyeing and Printing	Credits: 4	Hours: 4
<b>Objectives</b>	<ul style="list-style-type: none"> <li>➤ To study the fabric preparatory process in textile processing industry.</li> <li>➤ To know the different types of dyeing and printing methods, technological advancement in the above process.</li> </ul>		
<b>Unit-I</b>	<b>Water</b> Water hardness, types, quality required for wet processing industries, softening process, Ion exchange, sequestering agent methods, role of textile auxiliaries, types of auxiliaries, preparatory process sequence for woven and knitted fabrics.		
<b>Unit-II</b>	<b>Preparatory process</b> Desizing -objectives and various types of desizing, scouring- objectives, scouring method and process. Bleaching – types of bleaching agents, bleaching process, optical brighteners. Mercerization- objectives, types of mercerization, yarn and cloth mercerization, advantages, changes occur during mercerization.		
<b>Unit-III</b>	<b>Dyeing</b> Definition, classification of dyes – Natural and synthetic dyes, stages of dyeing. Basic dye, Direct, Reactive, Vat, acid, Disperse, sulphur. Dyeing machines used for different stages of dyeing. Jigger, Winch, HTHP machines. Natural dyes- types, advantages and disadvantages. Colour fastness testing.		
<b>Unit-IV</b>	<b>Printing</b> Definition, types, methods of printing, dye paste preparation, after treatment. Direct printing – Block, Stencil, screen, roller printing, Duplex printing. Discharge printing; Resist printing – Batik, Tie and dye. Flock printing, photo printing, warp printing, air brush printing. Other printing – flock, transfer, digital.		
<b>Unit-V</b>	<b>Finishing</b> Objectives of finishing, temporary and permanent finish. Methods – mechanical finish - Calendaring, tentering, stiffening, glazing, embossing, Moiring, napping, singeing, sanforising, enzyme finish. Chemical finish - biopolishing, flame retardant finish, and wrinkle free finish, waterproofing, water repellency, wash and wear finish.		
<b>Reference and Text Books:-</b>			
Nalankilli, G. (2000). <i>Fabric Finishing</i> . New Delhi: New Age International publishers. Shenai, V.A. (2019). <i>Technology of Textiles Processing</i> . Mumbai: Sevak Publications.			



Trotman, E.R. (1985). *Dyeing and Chemical Technology of Textile Fibers*. London: Charles Griffen & Co.

Datye, K.V. & Vaidya, A.A. (1984). *Chemical Processing of Synthetic Fibers and Blends*. New York: John Wiley and Sons.

<b>Outcomes</b>	The students are able to <ul style="list-style-type: none"><li>➤ Learn about the Dyeing and printing methods and principles of colour application.</li><li>➤ Develop knowledge in textile and garment processing sector.</li></ul>
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Skill Component

Theory

Semester – II			
Course Code : 9FD2C2	Core –VI - Garment Quality Testing and Assurance	Credits: 4	Hours: 4
<b>Objectives</b>	<ul style="list-style-type: none"> <li>➤ To know the importance of testing parameters followed in garment industry.</li> <li>➤ To understand the fabric inspection system, AQL standards and QC Tools.</li> </ul>		
<b>Unit-I</b>	<b>Definition and Scope of Quality Control</b> Establishing Merchandising Standards– Establishing Raw Material Quality Control specifications – Quality Control of Raw Material. Importance of Quality & Testing Laboratories – Standards – objectives of Testing – atmospheric conditions for testing lab.		
<b>Unit-II</b>	<b>Quality terminologies</b> Sources of international standards. Quality Parameters of yarn: Yarn evenness & hairiness and their effect on fabric quality. Quality parameters of fabric. Colour fastness and dimensional stability. Testing of sewing threads, zippers, fusible interlinings, buttons and fasteners.		
<b>Unit-III</b>	<b>Inspection</b> Definition – Types and stages of inspection. Incoming material inspection: Fabric inspection as per 4 point & 10 point system. Process inspection: Assessment of spreading, cutting, sewing room – detailed study on sewing and seaming defects – control of fusing & embroidery operation.		
<b>Unit-IV</b>	<b>Final inspection and its specification as per AQL standards</b> Risks involved. Basic concepts of TQM, quality Principles of Total Quality Management (TQM), Barriers to TQM, TQM Implementation in manufacturing and service sectors. Basics of PDCA, Kaizen, and 5'S. Application of seven QC tools in apparel industry.		
<b>Unit-V</b>	<b>ISO 9000 Standards</b> Meaning & Definition –Elements– Study on ISO 9001:2000 Guidelines and Standard Clauses. Need for ISO 9001-2008. Quality system - elements, Documentation, Quality auditing, QS9000. ISO 14000- concepts requirement and benefits, ISO 8000- social audit. Quality Manual and its contents - Accreditation and Certification agencies - Quality audit: Types of quality audit - Audit procedure Requirements and characteristic of a Quality auditor.		

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**Reference and Text Books:-**

Pradeep V. Metha., Satish K. Bharadwaj. (2006). *Managing Quality in Apparel Industries*. New Delhi: New Age International Publications.

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

Billie J. Collier., Helen H. Epps. (1999). *Textile Testing and Analysis*. New Jersey: Prentice Hall.

Elliot B. Grover., Hamby, D.S. (1988). *Hand Book of Textile Testing & Quality Control*. New Delhi: Wiley Eastern India Ltd.

**Outcomes**

The students gain knowledge in

- Yarn and fabric properties of textile material.
- Tools and techniques of quality management for manufacturing and service processes.



Skill Component

Theory

Semester – II			
Course Code : 9FD2C3	Core –VII - Garment Manufacturing Technology	Credits: 4	Hours: 4
<b>Objectives</b>	<ul style="list-style-type: none"> <li>➤ To understand the importance of machineries and technology in garment construction.</li> <li>➤ To study the different types of machines and stitch standards followed in industry.</li> </ul>		
<b>Unit-I</b>	<b>Introduction to garment manufacturing processes</b> Spreading machine: Types and working procedures. Cutting machines: Types of cutting machines and its application – Detailed study on band knife, straight knife, round knife & Die cutting machines. Computerized cutting machines. Auxiliary cutting devices – Drills, notches.		
<b>Unit-II</b>	<b>Classification of sewing machines &amp; applications</b> Lock stitch machine - function & its types - Features of advanced lock stitch machines. Over lock machine - Function & its functions. Flat lock machines. Feeding mechanism, importance & its types. Needle mechanism, Stitching mechanism. . Bar tacking machine. Picoting Machine.		
<b>Unit-III</b>	<b>Concept of Stitch &amp; its classification</b> Federal standard & British standards. Concept of stitch geometry. Detailed study on Stitch classes and its function – advantages and disadvantages.		
<b>Unit-IV</b>	<b>Requirements</b> Guides – Types (edge & curve guide) - Compensating foot - Specialized presser foot – Stitching jig- hem folders - Slack feeding and elastics – Cutting aids (threads, elastic and tapes) - Stacker. Simple automatics - Button hole – Button sew – Label sewers. Types and parts of machine needles - Needle sizes.		
<b>Unit-V</b>	<b>Introduction to various machines for garment finishing</b> Fusing – Sucking – Ironing - Packing. Pressing - Purpose of pressing – Categories of pressing - The means of pressing-pressing equipment and methods - Iron and steam presses. Packaging - Types of package forms - Types of packaging materials - Quality specification of packaging materials - Merchandising packaging- Shipment packaging - Selection of package design.		

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**Reference and Text Books:-**

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

David J. Tyler. (2008). *Harold Carr & Barbara Latham's - The Technology of Clothing Manufacture*. UK, Oxford: Blackwell Publishing.

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

Dora S. Lewis., Mabel Goode Bowers & Marietta Kettunen. (1960). *Clothing Construction and Wardrobe Planning*. New York: The Macmillan Company.

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

Ruth E. Glock., & Grace I. Kunz. (2005). *Apparel Manufacturing*. New Delhi: Pearson Education India.

Prasanta Sarkar, (2015). *Garment Manufacturing – Processes, Practices & Technology*. India: Online Clothing Study.

**Outcomes**

The students get insight knowledge

- In garment industry production and its management process.
- Different types of machines and special attachments used in garment industry.





Skill Component

Practical

Semester – II	
Course Code : 9FD2P1	Core – VIII – CAD – Lab
	Credits: 3 Hours: 4
<b>Objectives</b>	<ul style="list-style-type: none"> <li>➤ To study the software applications and create designs for different garments.</li> <li>➤ To learn the Corel Draw and Photoshop and CAD Pattern making and develop the textile designs and patterns by using the software.</li> </ul>
	<ol style="list-style-type: none"> <li>1. Development of motif, colour application and create design from developed motif. Horizontal stripes, Border pattern and Brick pattern, Diamond pattern, diaper pattern.</li> <li>2. Create different textures and patterns. Develop different backgrounds. Prepare theme board, colour board, customer focus and dress designing.</li> <li>3. Drafting Basic patterns for children and adult apparel.</li> <li>4. Drafting, Lay planning and pattern grading of Kids apparel.</li> <li>5. Drafting, Lay planning and pattern grading of Adult apparel.</li> </ol>
<b>Outcomes</b>	<p>The students are able to</p> <ul style="list-style-type: none"> <li>➤ Gain practical experience on pattern making in different garment marker planning and grading.</li> <li>➤ Able to design and making pattern for kids, women's and men's wear by CAD Pattern Making Software.</li> </ul>

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Skill Component

Practical / Viva Voce

Semester – II										
Course Code : 9FD2MP	Core – IX - Mini Project	Credits: 3	Hours: 3							
<b>Objectives</b>	<p>The Head of the Department / Director will assign a faculty member as the Mini-project Guide to a particular student concerned in the beginning of the second semester. The student has to fix the project theme / title by submitting a proposal. The work flow of the chosen project and other related guidelines can be had from the Mini-project Guide. During this second semester, there will be two 'Reviews' conducted by the Department and the students must present themselves in person and present the mini-project progress in the form of presentation in front of the mini-project guide. At the end of the semester, the student should prepare and submit a mini-project documentation report (not less than 30 pages, A4 size). The guide will award for 75 marks based on the performance in two reviews and the quality of the mini-project documentation report. The final mini-project viva-voice for 25 marks will be conducted by the Department with two examiners (one mini-project guide and another one designated by the COE) and the cumulative marks for 100 will be given by the Department to the COE.</p>									
	<table border="1"> <thead> <tr> <th>Description</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>Internal marks</td> <td>75</td> </tr> <tr> <td>Viva Voce</td> <td>25</td> </tr> <tr> <td><b>Total</b></td> <td><b>100</b></td> </tr> </tbody> </table>			Description	Marks	Internal marks	75	Viva Voce	25	<b>Total</b>
Description	Marks									
Internal marks	75									
Viva Voce	25									
<b>Total</b>	<b>100</b>									
<b>Outcomes</b>	<p>The students are able to</p> <ul style="list-style-type: none"> <li>➤ Take-up their own project in garment production industry.</li> <li>➤ Gain knowledge in various departments in garment industry.</li> </ul>									



General Component

Practical

Semester – II			
Course Code : 9FD2G3	General – III – Garment Construction for Kids and Adult Wear – Lab	Credits: 4	Hours: 3
<b>Objectives</b>	<ul style="list-style-type: none"> <li>➤ The students are able to design and construct the garment for different age group of kids and adult wear.</li> <li>➤ To learn about the theme based design garments.</li> </ul>		
	<ol style="list-style-type: none"> <li>1. Construction of garments for Kids – Jhabla, panty, bib.</li> <li>2. Construction of garments for kids – Summer frock /Yoke frock, knicker.</li> <li>3. Construction of garments for women – Saree petticoat, blouse, night dress.</li> <li>4. Construction of garments for women – Kameez/ Kurti, salwar/ chudidhar.</li> <li>5. Construction of garments for Men – Shirt /Kurta and pant.</li> </ol>		
<b>Outcomes</b>	<p>The students will be able to</p> <ul style="list-style-type: none"> <li>➤ Understand the basic concepts of patternmaking for kids and adult wear.</li> <li>➤ Develop the designs by own and construct the garment.</li> </ul>		

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## Skill Component

## Practical

Semester – II			
Course Code : 9FD2E1	Elective – II - Surface Ornamentation and Accessories – Lab	Credits: 4	Hours: 4
<b>Objectives</b>	<ul style="list-style-type: none"> <li>➤ To understand the basic embroidery Stitches and its application in designing.</li> <li>➤ To enable the student to develop design and practice the stitches to embellish the fabric surface.</li> </ul>		
	<ol style="list-style-type: none"> <li>1. Hand embroidery outline stitches – Any seven stitches.</li> <li>2. Hand embroidery stitches (Filling and Knot) – Any Seven stitches.</li> <li>3. Other surface embellishment – Sequence, bead work.</li> <li>4. Other surface embellishment - Appliqué, cut and mirror work.</li> <li>5. Accessories – Hand bag, Pouch, Hat / Foot wear.</li> <li>6. Preparation of fashion Jewellery - Earring, bangles and Neck chain (clay, paper, beads and other accessories)</li> </ol>		
<b>Outcomes</b>	<p>The students are able to</p> <ul style="list-style-type: none"> <li>➤ Make sample of hand embroidery stitches.</li> <li>➤ Get experience in preparing accessories and fashion jewellery.</li> </ul>		

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Skill Component

Practical

Semester – II				
<b>Course Code : 9FD2E2</b>		<b>Elective – II - Textile Testing - Lab</b>	<b>Credits: 4</b>	<b>Hours: 4</b>
<b>Objectives</b>	<ul style="list-style-type: none"> <li>➤ To learn testing methods of different fibre and its properties.</li> <li>➤ To understand the relationship of quality parameters with fabric end use.</li> </ul>			<b>CREDIT FRAME</b>
	<ol style="list-style-type: none"> <li>1. Fibre test - fibre length, fibre fineness, fibre strength.</li> <li>2. Yarn test – Yarn twist, yarn count and strength.</li> <li>3. Fabric test – Fabric Length, width, count, weight.</li> <li>4. Fabric test – Fabric thickness, crease recovery, stiffness, drape.</li> <li>5. Fabric test – Air permeability and water absorbency.</li> <li>6. Fabric test – Tensile strength and Tear strength.</li> </ol>			
<b>Outcomes</b>	<p>The students gain knowledge in</p> <ul style="list-style-type: none"> <li>➤ Testing different types of textile materials by using testing equipment.</li> <li>➤ Test the fibre, yarn and fabric with respective properties by using the instrument.</li> </ul>			

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Skill Component

Practical

Semester – II			
Course Code : 9FD2E3	Elective – II - Textile Dyeing and Printing – Lab	Credits: 4	Hours: 4
<b>Objectives</b>	<ul style="list-style-type: none"> <li>➤ To understand the preparatory process of textile materials.</li> <li>➤ To learn about the dyeing and printing methods of different textile fabric materials.</li> </ul>		
	<ol style="list-style-type: none"> <li>1. Preparation of samples for processing – Desizing, Scouring, Bleaching, Mercerising.</li> <li>2. Dyeing the fabric with direct dyes, Sulphur dyes, Vat dyes, Disperse dyes.</li> <li>3. Dyeing the fabric with acid dyes, basic dyes, Reactive dyes.</li> <li>4. Dyeing the fabric with Natural dyes.</li> <li>5. Dyeing the fabric with any pattern using Tie and Dye technique.</li> <li>6. Develop a batik motif and print the given sample.</li> <li>7. Prepare the printing paste and develop sample from different printing method.</li> <li>8. Testing the colour fastness test, washing, shrinkage.</li> </ol>		
<b>Outcomes</b>	<p>The students are able to</p> <ul style="list-style-type: none"> <li>➤ Understand the process of desizing, bleaching, dyeing and printing of the fabric with different chemicals and colorants.</li> <li>➤ Able to analyze the colour fastness, washing and shrinkage test of dyed fabric.</li> </ul>		

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Skill Component		Practical / Viva Voce	
<b>Semester – II</b>			
<b>Course Code : 9FD2E4</b>		<b>Elective – III - Corporate Etiquette Skills</b>	<b>Credits: 4 Hours: 4</b>
<b>Objectives</b>	<ul style="list-style-type: none"> <li>➤ To enhance and sharpen the required skills and proper business etiquettes among the students to build good corporate relationship with the customers and their colleagues.</li> <li>➤ To learn to build a consistent professional image with respective organization's vision and mission.</li> </ul>		
<b>Unit-I</b>	<b>Professionalism</b> Professional approach & behaviour – rational vs. emotional decisions – analysis of self-competence and self confidence – qualities of an effective executive.		
<b>Unit-II</b>	<b>Corporate Etiquette</b> Dressing occasions – formal – semi formal and informal – Eating habits– Table manners – Body language: Kinesics and proximity.		
<b>Unit-III</b>	<b>House Keeping Skills</b> Cleanliness at work place – Organizing the Work Table and Shelves Utility and Energy Saving habits – Office Files and Personal Computer / Laptop management.		
<b>Unit-IV</b>	<b>Front Office Skills</b> Reception and Greeting – Telephone manners – effective visitor appointments management – Preparation to attend office meetings – preparation to hold office meetings.		
<b>Unit-V</b>	<b>Documentation</b> Objectives, Report writing, writing minutes, Preparation methods, and Report for media.		
<b>Website or Text Books:-</b>			
Naveen Kumar, & Sudan, A.S. (2004). <i>Managerial Skill Development</i> . New Delhi: Anmol Publications.			
Lesikar, R.V. & Flatley, M.E. (2004). <i>Basic Business Communication</i> . New Delhi: Tata McGraw Hill India.			
www.executiveworld.com			
www.selfconfidence.co.uk			
www.senselang.com			
<b>Outcomes</b>	The students are able to <ul style="list-style-type: none"> <li>➤ Build a consistent professional image with organization vision and mission.</li> <li>➤ Help out to maintain good corporate relationships with your customers.</li> </ul>		



Skill Component		Theory	
<b>Semester – II</b>			
<b>Course Code : 9FD2E5</b>		<b>Elective – III - Indian Traditional Textiles and Embroidery</b>	
		<b>Credits: 4</b>	<b>Hours: 4</b>
<b>Objectives</b>	<ul style="list-style-type: none"> <li>➤ To learn the origin of costumes and study the ancient to modern time costume.</li> <li>➤ To get an idea about the Indian traditional textiles and embroideries.</li> </ul>		
<b>Unit-I</b>	<b>Indian costume</b> Introduction, Indian Costumes from the earliest times to the beginning of the historical period – Indus valley civilization costumes, Indo Aryans and Vedic Ages, Mauryan and the Sunga period, Satavahana period, Kushan period Mughal period.		
<b>Unit-II</b>	<b>Introduction to traditional Indian dress</b> Costumes of Punjab, Himachal Pradesh, Gujarat, Rajasthan, Uttar Pradesh, Madhya Pradesh, Jammu and Kashmir, Kutch and Savarashtra.		
<b>Unit-III</b>	<b>Kashmir Embroidery</b> Kanthas of Bengal, Chamba rummal of Himachal Pradesh, Chickenkari of Uttar Pradesh, Pulkhari of Punjab, Kasuthi Embroidery, Kutch Embroidery.		
<b>Unit-IV</b>	<b>Introduction to woven textiles of India</b> Brocades of Banaras, Patola, Baluchari, Pithambar, Tamilnadu Saree. Types of woven Kashmir shawls – Do- shala, Do- rookha, Kasubha shawl, Ruffle.		
<b>Unit-V</b>	<b>Printed textiles</b> Kalamkari, Block printing, Roghan printing and other printed and painted textiles (Mata-mi-pachedi, Pabuji-ka-pad) Dyed textiles – Ikat, Patola, Bandhani, Laharia, Mashru.		
<b>Reference and Text Books:-</b>			
Arabinda Biswas, (2003). Indian Costumes. New Delhi: Ministry of Information and Broadcasting, Govt. of India, Publications Division.			
Shailaja D. Naik. (2018). <i>Traditional Embroideries of India</i> . New Delhi: APH Publishing Corporation.			
Parul Bhatnagar, (2004). <i>Traditional Indian Costumes and Textiles</i> . Chandigarh: Abhishek Publications.			
Manmeet Sodhia, (2007). <i>History of Fashion</i> . New Delhi: Kalyani Publishers.			
<b>Outcomes</b>	The students gain knowledge <ul style="list-style-type: none"> <li>➤ History of costumes and garments of India.</li> <li>➤ Get insight knowledge of the traditional textiles and embroideries in India.</li> </ul>		





## Skill Component

## Theory

Semester – II			
Course Code : 9FD2E6	Elective – III - Textile Finishing	Credits: 4	Hours: 4
<b>Objectives</b>	<ul style="list-style-type: none"> <li>➤ To learn about the different finishing methods and its application.</li> <li>➤ To get an idea about different types of finishes which suit to fabric</li> </ul>		<b>POST-GRADUATE CHOICE CREDIT FRAMEWORK</b>
<b>Unit-I</b>	<b>Introduction to Finishing</b> Purpose and Importance, Classification of Finishing , Converting Grey Goods, Kinds of Finishing Processes, Preparatory Processes – Singeing – Desizing – Scouring – Bleaching, Stabilizing Processes- Mercerizing – Slack Mercerizing.		
<b>Unit-II</b>	<b>Types of Finishing</b> Calendaring, Tentering, Stiffening, Decanting, Beetling, Glazing, Schreinerizing, Embossing, Moiering, Ciering, Raising, Napping, Giggling, Shearing. Water Proofing, Water repellency, Sanforizing, Wash and Wear, fire proofing silk, weighing, Crepe and Crinkle effect.		
<b>Unit-III</b>	<b>Functional finish</b> Shape-Retentive Finishes, Wrinkle Resistant Finishes, Wash-and-Wear Finishes, Durable Press Wool Finishes, Water Proofing, Absorbency Finishes, Soil repellency, Water repellent finish.		
<b>Unit-IV</b>	<b>Special finish</b> Anti-microbial – procedure, evaluation and its importance. Anti-bacterial – procedure and its importance. Insect repellent finish – procedure, evaluation and its importance - Flame retardant finish, fireproof finish, Bullet proof finish, Antistatic Finishes.		
<b>Unit-V</b>	<b>Equipment used in Finish</b> Padding Mangle – mechanism and procedure, Sonicator techniques – mechanism and procedure, plasma – mechanism and procedure, Nano application – mechanism and procedure, Microencapsulation – mechanism and procedure.		
<b>Reference and Text Books:-</b>			
Pacific Mills, Boston. (2018). <i>The Manufacture, Dyeing, Printing and Finishing of Textiles</i> . USA: Sagwan press publishers.		Chandigarh: Abhishek Publications.	
Smith, J.L. (2006). <i>Textile Processing, Printing Dyeing, Finishing</i> .		New Jersey: Noyes Publications.	
Needles, H.L. (2011). <i>Textile Fibers, Dyes, Finishes and Processes</i> .			



Mittal, K.L. (2017). *Textile Finishing Recent Developments and Future Trends*. New Jersey: John Wiley and sons.

**Outcomes**

The students are able to

- Learn about the finishing and functional finishing methods.
- Develop knowledge in textile and garment processing sector.



**MEMEBERS IN BROAD BASED BOARD OF STUDIES**

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

**Members Present:**

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



- |    |  |  |
|----|--|--|
| 8  | <b>Mr. A. Arockia Arulnathan</b><br>Senior Automation Developer<br>K7 Computing Pvt.Ltd, Chennai   | Co-opted Member from<br>the Industry<br>(Software Development) |
| 9  | <b>Dr. KM. Pachiyappan</b><br>Head, Department of Costume Design & Fashion<br>PSG College of Arts & Science, Coimbatore-14                   | Special Invitee<br>(Fashion Technology)                        |
| 10 | <b>Dr. A. Senthilrajan</b><br>Professor & Director<br>Department of Computational Logistics<br>Alagappa University, Karaikudi.               | Special Invitee<br>(Software Development)                      |
| 11 | <b>Dr. S. Rajaram,</b><br>Professor Dept. of Tamil<br>Head <i>i/c</i> , Dept. of Fine Arts<br>Alagappa University, Karaikudi                 | Special Invitee<br>(Tamil)                                     |
| 12 | <b>Dr. P. Madhan</b><br>Associate Professor and Head <i>i/c</i><br>Dept of English and Foreign Languages,<br>Alagappa University, Karaikudi. | Special Invitee<br>(English )                                  |
| 13 | <b>Ms. J. Jenita Mary</b><br>No.3/436, Vairavapuram 3 <sup>rd</sup> Street,<br>Karaikudi.  | Student Alumni<br>Special Invitee                              |
| 14 | <b>Dr. E. Kannapiran</b><br>Director, Curriculum Design and Development Cell<br>Alagappa University, Karaikudi                               | Ex-Officio Member  |



***CURRICULUM VITAE*****Name: Dr. B. Dharmalingam**

Designation: Professor &amp; Director

Address: Alagappa Institute of Skill Development, Alagappa University

Phone: 9443850902

Fax: -----

Email: dharmaws@yahoo.co.in

**Educational qualification:**

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

**Professional experience:**

- 25 Years

**Honours and Awards:**

- Created four Vocational / Skill training units under Alagappa Institute of Skill Development, namely,
  - a. UG-B.Voc. programmes
  - b. Garment Training Unit
  - c. Alagappa University-IL&FS Institute of Skills (AU-IIS)
  - d. Small Industries Services Unit (SISU) to offer Vocational / Skill training programmes.
- Participated UK Seminar and Study tour on 'Improving Employer and Learner Engagement in Vocational Education' during 15th – 17th November 2016 at Birmingham, United Kingdom in response to the invitation of British Council - India, New Delhi
- Got approval and financial assistance of Rs. 1.85 Cr from UGC, New Delhi to start UG-B.Voc. Degree programmes in 1). Fashion Technology and 2). Software Development from the academic year 2014-'15.
- Signed eight MoUs. (Six with Industry partners, one MoU with IL&FS Institute of Skills, New Delhi to establish AU-IIS and another with Entrepreneurship Development Institute, Chennai to offer various Skill training programmes).
- Applied for DDU-KAUSHAL Kendra scheme to UGC, New Delhi for the tune of Rs. 5 Cr to offer PG and Research programmes beyond B.Voc. Degrees.
- Got approval by SSC-NASSCOM as Training partner to offer 'Web Developer' and 'Software Developer' certificate programmes.
- Produced 100% result in the skill assessment carried out by SSCs 1). Apparel Made ups & Home furnishing Sector Skill Council and 2). NASSCOM to the B.Voc. students.
- In B.Voc. programmes, 16,30,32 and 24,43,50 students were admitted during the academic years 2014-'15, 2015-'16 and 2016-'17 into the respective B.Voc. programmes in Fashion Technology and Software Development. Among them, 7 –



B.Voc. Fashion Technology and 5 – B.Voc. Software Development second year students have got placement in the first year of their studies itself.

- Through, Garment Training Unit under AISD, during the period of April-2013 to January-2017 totally 300 trainees were trained in the short-term certificate courses in 'Industrial Sewing Machine Operation' and 'Embroidery' with University certificate and very minimal course fee. Rs. 2 lakhs of fund is generated from the course fee of the trainees.
- Prior to this 30 trainees were trained in Fashion Designing with the financial assistance of Rs. 1 lakh by the Entrepreneurship Development Institute (EDI), Tamil Nadu and 218 trainees were given training in Repairing of Refrigeration & AC machines, Welding Technology and other Entrepreneurship Development programmes through the 'Entrepreneurship cum Skill Development Centre'.
- Established Alagappa University-IL&FS Institute of Skills (AU-IIS), Karaikudi in October 2013 under the aegis of Alagappa University, by signing MoU with IL&FS Institute of Skills, New Delhi as India's first skills institute offering university recognized and NOS compliant placement linked short term High-end employable Technical training programmes and handhold support to start Income Generating Activities on various trades. The courses offered at AU-IIS are mapped to the NOS designed by the industry-led SSCs. During the period of The AISD/AU-IIS is offering various Certificate / Diploma programmes in Welding / CNC Machine Operator / Electrician / Patient Care Assistant / Mechatronics (both Diploma & PG Diploma) / Solar P.V. Technician / Assistant Mason / Application Development in Android / Front-End Design and Development / Banking Executive for the duration of two / three months. Within a short span of three years (2013 – 2016), AISD/AU-IIS acclaimed 81% of placement record among the 1101 candidates trained. The AU-IIS is augmented with CNC turning machine, CNC Milling machine, Welding simulator, TIG/MIG Welding machines, AG-4, AG-7 grinding machines, Electrical Working board and healthcare equipments for providing training in the above said programmes.
- In particular, we have a specialized Mechatronics Training Centre with latest equipments such as, PLC kit, Scada PLC kit, HMI & Sensor training kit, Pneumatic with PLC and Hydraulic with PLC. We have trained 24 final year students of Alagappa Chettiar College of Engineering Technology, Karaikudi in Mechatronics. We also give training to the newly recruited faculty of ACCET in Welding, CNC and Mechatronics. As a result of our quality of training and latest amenities, the Alagappa Chettiar College of Engineering Technology, Karaikudi expresses its interest to sign MoU for extending the training to all its Students and Faculty.
- Mobilized the machineries worth of 2.25 Cr to the AISD for offering various skill / vocational training.

Recent publications:

National



- Dharmalingam. B; Empowering Rural Women And Youth Through Skill Development: The experiments of Alagappa University, in Best Practices in Rural Development, Shanlax Publications, Madurai, (ISBN 978-9385977-85-5, Nov, 2016 P.No: 267-286.
- Dharmalingam. B; Skill Development Curriculum - Possible role of Universities: A case study of Practices in Alagappa University, in Health Indicators for Physical and Cognitive Fitness Education, Universal Publishers, Chennai, (ISBN: 978-81-836868-84) 2016 P.No: 12-20.
- Dharmalingam. B; Critical Analysis of Health and Cognitive issues of Information Technology Professionals, in Health Indicators for Physical and Cognitive Fitness Education, Universal Publishers, Chennai, (ISBN: 978-81-836868-8-4) 2016 P.No: 2126.
- Dharmalingam. B; Inculcation of Soft skills during Academic persuasion towards Professional Sustainability of Information Technocrats, in Health Indicators for Physical and Cognitive Fitness Education, Universal Publishers, Chennai, (ISBN: 97881-836868-8-4) 2016 P.No: 243-247.
- Dharmalingam. B; பழ்தமிழ் தொழிற்சா 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
- Dharmalingam. B; Changing Gender Representation in Indian Mass Media: Myths and Realities, Harms of Media Violence on Women and Children, Department of Women's Studies, Alagappa University, (ISBN 978-81-927063-3-7), 2013

#### International

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

#### Cumulative Impact factor:



Total Citation: 34

h- index: 02

i10- index: 01





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**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, 19<sup>th</sup> - 20<sup>th</sup> 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, 19<sup>th</sup> - 20<sup>th</sup> 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, 19<sup>th</sup> - 20<sup>th</sup> 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, 19<sup>th</sup> - 20<sup>th</sup> 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., 19<sup>th</sup> 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, 10<sup>th</sup> - 11<sup>th</sup> 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, 10<sup>th</sup> - 11<sup>th</sup> 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, 10<sup>th</sup> - 11<sup>th</sup> 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, 26<sup>th</sup> - 27<sup>th</sup> 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, 15<sup>th</sup> - 16<sup>th</sup> 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, 15<sup>th</sup> - 16<sup>th</sup> February 2017.

### National Publications

- Ashwini Joshi, D.Anitha and G.Mahesh and Physical properties of organic and non organic cotton: comparative study, Manmade Textiles in India, Vol. XLVI No. 7 July 2018.
- G.Mahesh and Anitha Eco friendly fabrics from bamboo. The Indian textile Journal.Vol124 No.7 April 2014
- Anitha and G.Mahesh Utility of herbal products in Antimicrobial finishing of cotton Fabrics. The Journal of Research of ANGRAU. Vol.XLI No.3 July-September 2013.



- Handle properties of enzyme treated bamboo and bamboo blended fabrics. The Journal of Research of ANGRAU. Vol.XL No.2 April-June 2012.
- Natural dye on bamboo and bamboo blended fabrics. International workshop on Natural Dyes 2014, March NAIP-VCND, ICAR, ANGRAU, Hyderabad.

### **International**

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

Cumulative Impact factor:

Total Citation: 01

h- index: 01

i10- index: 0



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- 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, 19<sup>th</sup> - 20<sup>th</sup> 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, 19<sup>th</sup> - 20<sup>th</sup> 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, 19<sup>th</sup> - 20<sup>th</sup> 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, 19<sup>th</sup> - 20<sup>th</sup> 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, 19<sup>th</sup> - 20<sup>th</sup> 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, 19<sup>th</sup> - 20<sup>th</sup> 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, 25<sup>th</sup> - 26<sup>th</sup> 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, 25<sup>th</sup> - 26<sup>th</sup> 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, 25<sup>th</sup> - 26<sup>th</sup> 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, 25<sup>th</sup> - 26<sup>th</sup> 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, 13<sup>th</sup> - 14<sup>th</sup> 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, 10<sup>th</sup> - 11<sup>th</sup> 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, 10<sup>th</sup> - 11<sup>th</sup> 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, 21<sup>st</sup> - 22<sup>nd</sup> 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, 21<sup>st</sup> - 22<sup>nd</sup> 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, 24<sup>th</sup> October, 2016
- D.I. George Amalarethnam and **C. Balakrishnan**, "ElasticPeerDB- An Optimized Approach for Efficient Fragmentation and Re-Allocation in Peer-to-Peer Distributed Databases”, National Conference on Emerging Trends in Software Development, Alagappa University, March 2016.
- M. Priya and **C. Balakrishnan**, "A Critical Study on Agile Software Development Methodologies”, National Conference on Emerging Trends in Software Development, Alagappa University, March 2016.
- M. Rekha and **C. Balakrishnan**, "An Analytical Study of Multimedia User Interfaces in Education”, National Conference on Emerging Trends in Software Development, Alagappa University, March 2016.
- M. Priya and **C. Balakrishnan**, "Analysis of Green Computing Impacts on Environment”, National Conference on Emerging Trends in Software Development, Alagappa University, March 2016.
- Karamchand Gandhi and **C. Balakrishnan**, "The Internet of Things (IOT)-Architecture, Applications, Security and Privacy”, National Conference on Recent Advancements in Software Development, Alagappa University, March 2015.
- **C. Balakrishnan**, "Survey on Tumor based clinical data analysis”, National Conference on Recent Advancements in Software Development, Alagappa University, March 2015.

### International Journals

- S. Santhoshkumar, **C. Balakrishnan**, R.Muthulakshmi, "A Study of Stress Caused by Social Interactions in Social Networks", International Journal of Computer Engineering and Applications (ISSN 2321-3469), Vol. 12, Issue 5, pp. 142-147, May 2018.
- **C. Balakrishnan**, "An enhanced methodology for efficient Fragmentation and Re-Allocation in P2PDDBS", International Journal of Advanced Research Trends in Engineering and Technology (IJARTET) (ISSN 2394-3777), Vol. 3, Special Issue 20, pp. 590-595, April 2016.
- D.I. George Amalarethnam and **C. Balakrishnan**, "HAADAS- An enhanced approach for Re-allocation of Fragments in Peer-to- Peer Distributed Databases", International Journal of Applied Engineering Research (ISSN 0973-4562) - **Scopus Indexed, Annexure II Journal**, Vol. 10 No.82, pp. 315-320, 2015.





- D.I. George Amalarethnam and **C. Balakrishnan**, "An improved mechanism of clustering the sites for Peer-to-Peer Distributed Databases", International Journal of Fuzzy Mathematical Archive (ISSN- 2320-3242), Vol. 5, No. 2, pp. 57-69, December 2014.
- D.I. George Amalarethnam and **C. Balakrishnan**, "*oDASuANCO* - Ant Colony Optimization based Data Allocation Strategy in Peer-to-Peer Distributed Databases", International Journal on Science, Engineering and Technology, International Journal of Enhanced Research Publications (ISSN NO- 2319-7463), Vol. 2, No. 3, pp. 1-8, March 2013.
- D.I. George Amalarethnam and **C. Balakrishnan**, "A Study on Performance Evaluation of Peer-to-Peer Distributed Databases", IOSR Journal of Engineering (ISSN- 2250-3021), Vol. 2(5) pp- 1168-1176, May 2012.
- D.I. George Amalarethnam and **C. Balakrishnan**, "A Survey on Peer-To-Peer Real Time Object Databases", Published in International Journal on Research and Reviews in Computer Science (IJRRCS) (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, 15<sup>th</sup> - 16<sup>th</sup> 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, 15<sup>th</sup> - 16<sup>th</sup> 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, 15<sup>th</sup> - 16<sup>th</sup> 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, 15<sup>th</sup> - 16<sup>th</sup> 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, 15<sup>th</sup> - 16<sup>th</sup> 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, 15<sup>th</sup> - 16<sup>th</sup> 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, 15<sup>th</sup> - 16<sup>th</sup> 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, 15<sup>th</sup> - 16<sup>th</sup> 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, 26<sup>th</sup> & 27<sup>th</sup> 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, 26<sup>th</sup> & 27<sup>th</sup> 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, 26<sup>th</sup> & 27<sup>th</sup> February, 2016.
- D.I. George Amalarethnam and **C. Balakrishnan**, "HAADAS - An enhanced approach for Re-allocation of Fragments in Peer-to- Peer Distributed Databases", International Conference on Advanced Computing (ICAC 2015), Jamal Mohamed College, Tiruchirappalli, December 3-4, 2015.
- B. Dharmalingam and **C. Balakrishnan**, "Empowering Women through Skill Development- Challenges and Opportunities", International Conference on 'Women and Social Transformation- New Era of Just and Gender- Fair Society (ICWS - 2015)' Alagappa University, Karaikudi, 21<sup>st</sup> & 22<sup>nd</sup> August 2015.
- D.I. George Amalarethnam and **C. Balakrishnan**, "An Optimized Strategy for Data Allocation in Peer-to-Peer Distributed Databases", International Conference on Mathematical methods and Computation (ICOMAC 2015), Jamal Mohamed College, Tiruchirappalli, 22-23, January 2015.

Cumulative Impact factor:

Total Citation: 14

h- index: 03

i10- index: 0





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- B.Tech.,
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## Professional experience:

- 30 Years

## Honours and Awards:

- 

## Recent publications:

## National

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

## International

- Arjun. D L, RenukaTejaswini, J Hayavadana and Susheel “ Effcet of Potassium PermanganateFinish on the Properties of Denim Fabric” European Journal of Advances in Engineering andTechnology, 3(9), December 2016, 28-32
- Arjun. D L. RenukaTejaswini, Vinay Kumar Midha and J Hayavadana“ Potential of NonwovenFabrics as Surgical Gowns” International Research Journal of Medical Sciences, 5(1), February2017,1-4.
- Novel Approach To Apparel Drape measurement- A New Horizon, Prof. Dr.J. Hayavadana, Ayodya Kavitha,Kodamagundla Sreenu, International Journal of Advance Research in Science and Engineering, Vo.No:6, Issue No:3, March 2017



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

Cumulative Impact factor:

Total Citation: 199

h- index: 02

i10- index: 01



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- 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 21<sup>st</sup> century, IE(India), 1997.
- R.Chithra, S.Nickolas, "High Utility Item set Mining based on Clustering", National Conference on Advanced Pattern Mining and Multimedia Computing(APMMC 10), NIT, Tiruchirappalli, February 2010.
- 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.

- Sarena 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  $\lambda\_cut$  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), Vol11-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”, IJIT 12 (2016) 31-46.
- A. Prakasam, N. Savarimuthu, “Novel local restart strategies with hyper populated ant colonies for dynamic optimization problems”, Neural Computing and Applications (2018) 1-14.
- K. Shobha, S. Nickolas, “Analysis of importance of pre-processing in prediction of hypertension”, CSI Transactions on ICT 6 (2) (2018) 209-214.

Cumulative Impact factor:

Total Citation: 347

h- index: 09

i10- index: 07



**CURRICULUM VITAE**

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## Educational qualification:

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

## Professional experience:

- 

## Honours and Awards:

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





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**Educational qualification:**

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

**Professional experience:**

- 22 Years

**Honours and Awards:**

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

**Recent publications:****National**

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

**International**



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

Cumulative Impact factor:

Total Citation:

h- index:

i10- index:



***CURRICULUM VITAE***

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## Educational qualification:

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

## Professional experience:

- 07 Years

## Honours and Awards:

- 

## Recent publications:

## National

- 

## International

- 

## Cumulative Impact factor:

## Total Citation:

## h- index:

## i10- index:



## *CURRICULUM VITAE*

Name: **Dr. KM. Pachiyappan**

Designation: Head

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PSG College of Arts & Science, Coimbatore-14

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Educational qualification:

- M.Tech.,
- Ph.D

Professional experience:

- 30 Years

Honours and Awards:

- 

Recent publications:

National

- 09

International

- 10

Cumulative Impact factor:

Total Citation:

h- index:

i10- index:



***CURRICULUM VITAE*****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 and-Business management October 30th and 31st,2009.
  3. Convenor and organised National conference on Information computing and Management challenges in contemporary business - 21st and 22nd,2011.
- International Conference Organised:
  1. Convenor and organized international Conference on Computing and Information Technology - September 23rd and 24th, 2013. Alagappa University – Karaikudi.
  2. Convenor and organized two days IT Skill Show International Conference on Advancements in Computing Resources (SSICACR – 2017) – 15th & 16th February 2017. Alagappa University – Karaikudi.
- Other Training Programs
  1. Hardware maintenance
  2. S/W Installation



3. Troubleshooting
4. Network administration.
5. Team building
6. (i). Social development program at Sheshaiya homes, Austinpatti, Madurai.  
(ii). Social development (Outreach program), Sumanahalli, Bangalore.
7. Village Extension Programme at Thiruvelangudi, 11-13 October 2018.

Recent publications:

- “Segmentation Chick’s Image Using Artificial Neural Network”, in International Conference on Computing, Communication and Information Technology (CCIT 2018), ISBN: 978-1-63248-162-7, DOI: 10.15224/ 978-1-63248-162-7-06, Page: 11-14. 2. “Multimedia Cloud Computing for Agriculture”, in International Multi - Conference on Computing, Communication, Electrical & Nanotechnology (I2CN-2K18) at Kottayam, Kerala on April 26-27, 2018, presented and published.
- “Removal of Weeds in Agriculture field using Wavelet Transformation in Image Processing” International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), Vol – 6, Issue – 2, ISSN: 2321-8169, Impact Factor: 5.837 Page: 19-26, February 2018.
- Bavithra Matharasi, Dr.A.Senthilrajan , “Sentiment Analysis using a Novel approach to classify sentiments in social networking data”, International Journal of Advanced Research in Computer Science - 2018, Vol – 9, ISSN: 0976-5697, Page: 297-301.
- J.Tamilselvan, Dr.A.Senthilrajan, “Adding Text Document to cluster based on the similarity measures”, International Journal of Pure and Applied Mathematics - 2018, Vol – 118, ISSN: 1314-3395, Page: 3069-3074.
- “Segmentation in Manganethi Plant using Mathematical Morphology”, International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE), Vol – 6, Issue – 10, ISSN 2278-1021, Impact Factor: 5.947, Page: 291-293, October 2017.
- N.Vijayalakshmi, “A hybrid approach for sarcasm detection of social media data”, International Journal of Scientific and Research Publications - 2017, Vol – 7, Issue – 5, ISSN: 2250-3153, Page: 327-336.
- Bavithra Matharasi, Dr.A.Senthilrajan, “Sentiment Analysis of Twitter Data using Naive bayes with Unigran Approach”, International Journal of Scientific and Research Publications - 2017, Vol – 7, Issue – 5, ISSN: 2250-3153, Page: 337-341.



- “Image Reduction Using Edge Based Region of Interest”, IOP conf.series: Materials Science and Engineering - 2017, doi: 10.1088/1757-899X/225/1/012248.
- M.Sangeetha, Dr.A.Senthilrajan, “Super Resolution – A Review”, International Journal of Engineering Research & Technology (IJERT) – 2016, Vol – 4, Issue – 21, ISSN: 2278-0181, Page: 36-40.
- Gopala Krishna Nagasarapu, Dr.A.Senthilrajan, “Robust Image Desoising using Infantile Fixation of Non Local Euclidean Median in Patch Space”, International Referred Journal of Engineering and Science(IRJES) – 2016, Vol – 5, Issue – 8, ISSN: 2319-1821, Page: 24-28.
- M.Sangeetha, Dr.A.Senthilrajan, “Analysis of methods in wavelet domain for image resolution”, International Journal of Advanced Research Trends in Engineering and Technology (IJARTET) - 2016, Vol – 3, ISSN: 2394-3785, Page: 628-631.
- J.Tamilselvan, Dr.A.Senthilrajan, “Constructing and maintaining large web repositories through continuous web crawling”, International Journal of Advanced Research Trends in Engineering and Technology (IJARTET) - 2016, Vol – 3, ISSN: 2394-3785, Page: 605-608.
- Gopala Krishna Nagasarapu, Dr.A.Senthilrajan, “Implementation of speech steganography using spread spectrum with wavelet domain”, International Journal of Advanced Research Trends in Engineering and Technology (IJARTET) - 2016, Vol – 3, ISSN: 2394-3785, Page: 588-594.
- Bavithra Matharasi, N. Vijayalakshmi, Dr.A.Senthilrajan, “A study on Various Techniques and Challenges in Sentiment Analysis”, International Journal of Advanced Research Trends in Engineering and Technology (IJARTET) - 2016, Vol – 3, Special issue – 20, ISSN: 2394-3777, Page: 474-478.
- Bavithra Matharasi, N. Vijayalakshmi, Dr.A.Senthilrajan, “Object Oriented Graph Structure to Represent the Dataset in online Social Network”, 2015, doi: 10.3850/978-981-09-4426-1-086, ISBN: 978-981-09-4426-1, Page: 314-321.
- “Pest Control in Paddy using Segmentation in Image Processing”, Engineering Sciences International Research Journal, Vol – 3, Issue – 2 (2015), ISSN: 2320-4338, ISBN: 978-931-84124-55-7, Page: 82-85.
- Gopala Krishna Nagasarapu, Dr.A.Senthilrajan, “Generalized non-local mean algorithm for De-Speckling of Digital images”, International Journal of Emerging Trends in



Science and Technology (IJETST) - 2015, Vol – 2, Issue – 8, ISSN: 23489480, Page: 3077-3082.

- “Efficient Image Retrieval In Real Time Database Using Grey Model Technique”, Mathematical Sciences International Research Journal – 2015, Vol - 4, Issue - 1, ISSN: 2278 – 8697, ISBN: 978-93-84124-36-6, Page: 216-219.

#### **National Conference:**

- Attended the Indian Cyber Congress (INCYCON) on 28 & 29 September 2018 at Sree Vidyanikethan Engineering College(SVCE), Tirupati, Andhra Pradesh.
- Attended the one day orientation workshop on the roles and responsibilities of the university and its Swayam coordinators on 2nd February 2018 at AICTE office, Nelson Mandela Marg, Vasant Kunj, New Delhi.
- A.Fathima Mubeen, Dr.A.Senthilrajan, “ Optimal Features Selection and Classification of Healthcare Big data in Medical Internet of Things”, National conference on Cyber Security (NCCS – 2018) organized Computer Science, Alagappa University, Karaikudi held on 25th January 2018. Paper was presented
- K.Sheela, Dr.A.Senthilrajan, “Rice quality analysing using Image Processing Technique”, National conference on Cyber Security (NCCS – 2018) organized Computer Science, Alagappa University, Karaikudi held on 25th January 2018. Paper was presented.
- Attended the DIDAC INDIA 2016 on September 28th to 30th at Bangalore International Exhibition Centre.
- Attended the RUSA – One Day Training on 23rd August 2016 at Anna University.
- Attended ICTACT Bridge 2016 Chennai edition on 24th February 2016.
- National conference on “Engineering Applications for Developing Smart Cities” held during March 30, 2015 organized by Dhirajlal Gandhi college of technology, Salem.
- Gopala Krishna Nagasarapu, Dr.A.Senthilrajan, “Generalized non-local mean algorithm for De-Speckling of Digital images”, National conference on Recent Advancements in Software Development (NCRASD-2015) organized by Skill Development Centre, Alagappa University, Karaikudi held on 23rd March 2015.
- National conference on “Comparative Study of Retrieval of Image Using Histogram and Entropy” organized by Skill Development Centre, Alagappa University, Karaikudi held on 23rd March 2015.



**International Conference:**

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





- “Diagnosing Infective Diseases in Paddy Using Mobile Device”, in International Conference on Symposium on Electrical, Electronic Engineering and Digital Technology”(SEDT 2016) at Tokyo, Japan on December 6-8, 2016. 20. “Image Reduction Using Edge Based Region of Interest”, in International Conference on Advanced Material Technologies”(ICAMT 2016) at Visakhapatnam, Andhra Pradesh on December 27-28, 2016.

Cumulative Impact factor:

Total Citation:

h- index:

i10- index:



***CURRICULUM VITAE***

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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 vedu – Sanskritisation, International Seminar on Place names, Tamil Sakthi Research Forum & National College, Trichirapalli, 25.09.2011



- Kalitriyanai Niraiyil Sanskritisation, International Conference on Agananooru, Sangam Literature Research Forum & Ethiraj Women's College, Chennai, 09.12.2011
- Peedandru – Meel Vasippu, 7th International Seminar, AAR All India Research Forum & Sengunthar College of Arts and Science, Thiruchengodu, 17&18.12.2011
- Tholkappiyamum Irayanar Agapporulam- Karpu Marabukal & Tholkappiyamum Maranahapporulam-Ilakkana Valarchi, Workshop on Aspects of Tholkappiam and Later grammatical works on Agam concept, Alagappa University, Karaikudi & CICT, Chennai, 04.01.2012 to 13.01.2012
- Inai Vizhaichu, 43rd All India University Tamil Teachers Association Seminar, Tamil Sangam, Bangalore, 19&20.05.2012
- Silappathikaram Suttum Inthezhuthu Manthiram, VIII th International Seminar on AAR International Research Forum, Karpagam University, Coimbatore, 22.12.2012
- Artrupadai Ilakkia Seiyul Kattamaippil Uyarthinai Suttu, International Research Seminar On Pathupattu, Kongunadu Arts and Science College, Coimbatore, 23.12.2012
- Karkala Padalathil Tamizhar Panpattu Nilaviyal, International Seminar on Kalanthorum Kampan, Kampan Tamil Research Centre, Karaikudi, 23 & 24.03.2013
- Tholkappiyamum Kootru muraikalum, Seminar on Tholkappiya Ilakkiyak kotpadukal, CICT, Chennai & Tamil Research Centre, Ganeshar Arts and Science College, Melaisivapuri, 08.01.2014
- Sanga Ilakkiyathil Manitha Urimaikal, Seminar on Palthurai Thotruvaaikku Sanga Ilakkiyathin Pangalippu, CICT, Chennai & Dep't of Tamil, Alagappa Gov't Arts College, Karaikudi, 09.01.2014
- Vazhipadugalum Thinaikkotpadugalum, Workshop on Chevviyal Ilakkiyangalil Tamizhar Vazhipaattu Marabugal, CICT, Chennai & Alagappa University, Karaikudi, 22.01.2014
- Ra. Ragavaiyanganar Urainadai Thiran, Workshop on Pazhanthamizh Uraiyasiriyarkalin Nadaikkotpadu, CICT, Chennai & Alagappa University, Karaikudi, 03.03.2014
- Tamil Haigoo Kavithaikalil Puthiya Pokkuhal, National seminar on New Trends on 20th Century Tamil Puthu kavithaikal, Urumu Danalakhshmi College, Trichirapalli, 30.09.2015 & 01.10.2015



- Tholkapiathil Neethi, Seminar Collection on Tamil Ilakkiathil Neethi, Ulaga Tamil Sangam, Madurai, 23.01.2016.
- Thiruvagasathil Madurai, International Seminar on Ilakkiya Pathivuhalil Madurai, Meenakshi Govt Womens College, Madurai, 25.02.16 & 26.02.16
- Chitrakooda malai Punaivu – Kambarum Valmikiyum, World Tamil Research Seminar On Kambanil Iyarkai, Karaikudi Kamban Kazhaham & Andaman Tamil Ilaikkiya Mandram, Andaman, 10.04.2016
- Tholkappiyathil Pillai – Collinaiyu Porunmai, International Seminar on Tamil Culture, Center for Tamil Culture , Alagappa University – 22.10.2016 & 23.10.2016
- Vayinum Kaiyinum Vaguththa Kalaihal, National Seminar on the role of Arts in Tamil Culture, Centre for Tamil Culture & Department of Fine Arts, Alagappa University, Karaikudi , 16.12.2016 .
- Barathidasanin Samaththuva kolhai, National Seminar on Contemporary Tamilian and Barathidasan's work, Department of Tamil, Alagappa University, Karaikudi, 20.12.2016 & 21.12.2016 .

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## 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
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Honours and Awards:

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Recent publications:

National

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