Subject Description Form

Subject Code	SFT316KD					
Subject Title	Knitted Structure Design					
Credit Value	3					
Level	3					
Pre-requisite/ Co-requisite/ Exclusion	Pre-requisite: SFT202FY Introduction to Fashion Material Co-requisite: SFT315KD Knitwear Design Exclusion: ITC3222K Knitted Structure Design					
Objectives	The subject provides the foundation knowledge on knitting techniques and fabrics through hands-on exercises on V-bed hand knitting machine, basic Circular and Warp knitting. It covers the essential elements of the formation, properties and end-uses of knitted fabrics for the production of knitwear.					
Intended Learning Outcomes	 Upon completion of the subject, students will be able to: (a) describe and elaborate the basic principles of knitted fabric formation; (b) define and explain the essential terms in weft/warp knitting fabrics/panels manufacture; (c) identify and compare the different knitted fabric structures and properties; (d) communicate effectively with industrial practitioners; (e) develop a foundation for further study and engage in liferong learning; and (f) identify and apply the safety and ethical practices in the industry. 					
Subject Synopsis/ Indicative Syllabus	(I) Basic V-bed Hand Knitting Machine and Suitable Yarn for Knitwear Specification, configuration and operation of V-bed hand knitting machines. Overview of the yarn types suitable for the non-jacquard fabrics and the relationship between yarn type, fabric property and fabric application. Basic and complicated flat knitting fabric structures, including ribs, plain double jersey and single jersey, lace, cable, racking, terry; fringe.					

	(II) Basic Electronic Flat Knitting Machine and Suitable Yarn for Knitwear						
	Basic specification, configuration and operation of electronic flat knitting machine						
	Overview of the drawing tools and colour-code for elementary knitting structures.						
	Option lines for knitting process control, including yarn carrier, stitch length and fabric take-down tension.						
	(III) Developing Skills for Knitted Structure						
	Mix and combination of yarn, fabric structure and knitting technique.						
	Creative fabric structure design project.						
	(IV) Safety and Ethical Practices in the Industry						
	General safety and general ethical practices when operating the machines in knitwear industry.						
Teaching/Learning Methodology	Laboratory work will be carried out in the knitting workshop with demonstration and guidance from lecturer/technician.						
	Students will work on a project base and will need to submit their designed fabrics at the end for the final assessment.						

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Assessment Methods in Alignment with Intended Learning Outcomes	Specific assessment methods/tasks	% weighting	Inte outo (Ple	_					
			a	b	c	d	e	f	
	Continuous Assessment	100%	✓	✓	√	✓	√	✓	
	Coursework	50%	✓	✓	✓	✓	✓	✓	
	Individual Project	50%	✓	√	✓	✓	✓		
	Examination	0%							
	Total	100%			l		l		
	in assessing the intended learning outcomes: Assignments will assess students' understanding of knitting principles and fabric structures. Projects will assess students' manipulative skills and creativity more comprehensively.								
Student Study Effort Expected	Class contact:								
	 Laboratory 						3	39 Hrs.	
	Other student study effort:								
	Assignments and Projects						6	66 Hrs.	
	Total student study effort						10	105 Hrs.	
	Books								
	Brackenbury, T. (1992), <i>Knitted Clothing Technology</i> . Clackwell Scientific Publications, Oxford.								
	Lee, R. (2003), <i>Creative machine knitting</i> . Guild of Master Craftsman, Lewes England.								
	Raz, S. (1993), <i>Flat knitting technology</i> . Universal Maschienfabrik, Westhausen.								

ncer, D. J. (2001), <i>Knitting technology a comprehensive</i> dbook and practical guide. 3 rd Edition, Woodhead publishing
, K. H. (1995), <i>Knitting Handbooks No.7</i> , No. 9 & 10. The Hong g Polytechnic University.