Subject Description Form

Subject Code	**SFT318KD**
Subject Title	**Yarn Design Project**
Credit Value	**3**
Level	**3**
Pre-requisite/ **Co-requisite/** **Exclusion**	Pre-requisite: SFT316KD Knitted Structure Design Exclusion: ITC3036K Yarn Design Project
Objectives	The subject develops the creative competence and provides the technical knowledge required in the design and manufacture of yarns for knitted fabrics used in the knitwear industry. It studies the fundamental knowledge of yarn design and formation, possible variations in yarn structures, yarn properties, yarn specifications and the effect of yarn on the properties of knitted structures.
Intended Learning Outcomes	Upon completion of the subject, students will be able to: (a) explore the structure and characteristics of yarn for knitting; describe and produce knitting yarn with different fibre contents and constructions; (b) analyse the relationship between the knitwear product and yarn selection and determine yarn parameters including fibre type, twist level, structure and weight for a specific knitting purpose; (c) put together a portfolio and carry out effective presentation for yarn design projects; (d) demonstrate an ability to communicate with confidence and express individual innovative and creative concepts; (e) commit to learning and improving self-esteem.

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<tr>
<td>Subject Synopsis/ Indicative Syllabus</td>
<td>
(I) Fundamentals of Knitting Yarn Design and Formation
Elements of yarn design; overview of yarn types suitable for knitwear including yarn construction and fibre contents; essential technological aspects in the formation of blended yarns, ply yarns and fancy yarns for knitwear.

(II) Analysis and Experimentation on Yarn Formation
Hands-on experience on yarn spinning; experimentation on the effect of spinning parameters on yarn properties; production of fancy yarn.

(III) Yarn Design Portfolio
Carry out a yarn design project; put together a yarn design portfolio; presentation of design project.
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<td>Teaching/Learning Methodology</td>
<td>Project base learning will be adopted for this subject. Due to the nature of the subject, classroom teaching will be necessary to provide the basic knowledge of the subject before projects start. Learning will essentially be student-centred through projects. Their learning will be enhanced and their experience will be reinforced by tutorials and seminars.</td>
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<td>Assessment Methods in Alignment with Intended Learning Outcomes</td>
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<table>
<tr><td rowspan="2">Specific assessment methods/tasks</td><td rowspan="2">% weighting</td><td colspan="5">Intended subject learning outcomes to be assessed (Please tick as appropriate)</td></tr>
<tr><td>a</td><td>b</td><td>c</td><td>d</td><td>e</td></tr>
<tr><td>Continuous Assessment</td><td>100%</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr>
<tr><td>1. Assignment</td><td>30%</td><td>✓</td><td>✓</td><td></td><td>✓</td><td>✓</td></tr>
<tr><td>2. Project Presentation</td><td>70%</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr>
<tr><td>Examination</td><td>0%</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>Total</td><td>100%</td><td colspan="5"></td></tr>
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Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:

The assignment report will provide an assessment of understanding of yarn design and production. Presentation and portfolio will provide assessments for learning outcomes a to e.
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Student Study Effort Expected	Class contact:	
	▪ Lecture	12 Hrs.
	▪ Studio	27 Hrs.
	Other student study effort:	
	▪ Presentation and portfolio	20 Hrs.
	▪ Assignments	46 Hrs.
	Total student study effort	105 Hrs.

Reading List and References	**Books** Black, S., (2002), *Knitwear in Fashion.* Thames & Hudson. Brown, C. (2013), *Knitwear design*. Laurence King Publishing, London. Wilson, J., (2001), *Handbook of Textile Design: Principles, Processes and Practice*. Woodhead Pub. Gong R. H., Wright R. M., (2002), *Fancy Yarn: their Manufacture and Application.* CRC Press, Woodhead Pub. Johnson N. A. G., Russell I. M., (2009), *Advances in Wool Technology*. CRC Press, Woodhead Pub. Lawrence, C. A., (2003), *Fundamentals of Spun Yarn Technology*. CRC Press, Boca Raton, FL. Lawrence, C. A., (2010), *Advances in Yarn Spinning Technology*. CRC Press, Woodhead Pub. Ng, A., (2002), *Contemporary Knitwear Handbook. from Fibre to Finished Garment.* The Hong Kong Productivity Council. **Websites** WGSN www.wgsn.com Style www.style.com