Subject Description Form

Subject Code	**SFT317KD**
Subject Title	**Knitwear Technology**
Credit Value	**3**
Level	**3**
Pre-requisite/ Co-requisite/ Exclusion	Co-requisite: SFT316KD Knitted Structure Design Exclusion: ITC3226K Knitwear Technology I
Objectives	The subject provides an outline of knitwear manufacturing based on the electronic power knitting technique. It includes the use of materials, basic knitted structures and garment styles, and the methods of garment assemble accordingly.
Intended Learning Outcomes	Upon completion of the subject, students will be able to: (a) classify and analyse the materials used in knitwear production; (b) define and explain the essential terms in fabrics/panels manufactured by flat knitting techniques; (c) demonstrate and integrate design and technical skills of computer design software and electronic flat knitting machine for creating different stitches and knitted structures; (d) communicate effectively with industrial practitioners; (e) identify and apply the safety and ethical practices in the industry.
Subject Synopsis/ Indicative Syllabus	**(I) Advanced V-bed Hand Knitting Techniques** Partial knitting, plating knitting and fully-fashioned knitting techniques by using v-bed hand knitting machine **(II) Advanced Computerised Knitting Techniques** Specification, configuration, operation and safety instructions for electronic flat knitting machines. Advanced knitted structures, including intarsia and different types of jacquard.

<table>
<tr><td>Subject Synopsis/ Indicative Syllabus</td><td>

(III) Basics of fully fashion knitting

Advanced stitch development method (package method and colour arrangement)

(IV) Developing Skills for Knitted Structures

Mix and combination of yarn, basic fabric structure and knitting technique.
Creative fabric structure design project.

(V) Safety and Ethical Practices in the Industry

General safety and general ethical practices when operating the machines in knitwear industry

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<tr><td>Teaching/Learning Methodology</td><td>Lectures will be conducted to provide background knowledge of specific computer design software and electronic flat knitting machines for knitwear production. More time will be spent in the knitting laboratory for demonstration and hands-on experience aiming to provide a solid understanding of knitted structures and designs. An elementary stitch design project will form the core assignment serving as a student-centered learning platform.</td></tr>
<tr><td>Assessment Methods in Alignment with Intended Learning Outcomes</td><td>

<table>
<tr><td rowspan="2">Specific assessment methods/tasks</td><td rowspan="2">% weighting</td><td colspan="6">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><td></td></tr>
<tr><td>Continuous Assessment</td><td>100%</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td></td></tr>
<tr><td>1. Assignment</td><td>50%</td><td>✓</td><td>✓</td><td></td><td></td><td></td><td></td></tr>
<tr><td>2. Project</td><td>50%</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td></td></tr>
<tr><td>Total</td><td>100%</td><td colspan="6"></td></tr>
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Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:

Assignments will assess students' understanding on principles of hand flat knitting techniques and fabric structures. Electronic knitting projects will assess students' manipulative skills and creativities in more comprehensive means.

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<tr><td rowspan="6">Student Study Effort Expected</td><td colspan="2">Class contact:</td></tr>
<tr><td>• Workshop</td><td>39 Hrs.</td></tr>
<tr><td colspan="2">Other student study effort:</td></tr>
<tr><td>• Assignment</td><td>36 Hrs.</td></tr>
<tr><td>• Project</td><td>30 Hrs.</td></tr>
<tr><td>Total student study effort</td><td>105 Hrs.</td></tr>
<tr><td>Reading List and References</td><td colspan="2"><u>Recommended Textbooks</u>

Brackenbury, T. (1992), Knitted Clothing Technology. Blackwell Scientific Publications, UK.

Gligorijevic, V. (2016), Technology of knitting: theoretical and experimental analysis. LAP Lambert Academic Publishing.

Raz, S. (1993), Flat knitting technology. Universal Maschienfabrik, Westhausen.

Spencer, D. (2001), Knitting technology a comprehensive handbook and practical guide. 3rd Edition, Woodhead publishing Ltd, Cambridge, UK.

Tellier-Loumagne, F. (2005), The art of knitting: Inspirational stitches, textures and surfaces. Thames & Hudson, London.

<u>Electronic Resources</u> WGSN

<u>www.wgsn.com</u>
Qiliabc
<u>www.qiliabc.com</u>
<u>www.shimaseiki.com</u>
<u>www.stoll.de</u>
Help file for computer design software (shimaseiki, stoll)</td></tr>
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