Course unit title:	**Computer Aided Flat Pattern Design I**			
Course unit code:	AFDI 212			
Type of course unit:	Required			
Level of course unit:	Bachelor			
Year / Semester of study:				
Number of ECTS credits allocated :	6	Lectures p/w: -		Labs p/w: 3
Instructor(s)	Doris Kailos			
Aim of the Course	**Aim of the course and core objectives are to :** 1. Provide students with the necessary knowledge in computer aided techniques which are fundamental to the application of the latest Gerber software. 2. Introduction to Accumark Explorer and Pattern Design Systems (PDS). 3. Familiarize students to digitizing patterns using Gerber's digitizing table. 4. Introduce students to pattern development and pattern modifications using PDS.			
Learning outcomes of the course unit:	1. Understand the proper use of Gerber applications; 2. Explain and practice basic computer skills, using Accumark explorer and PDS; 3. Demonstrate the proper use of a digitizing table and how patterns can be developed and modified, ready for industry; 4. Produce simple patterns, using Computer Aided Design.			
Prerequisites:	None		Co-requisites:	None
Course contents:	1. **Knowledge of Gerber Software:** With in this course students will be introduced to Gerber Software technologies and its importance and use to the fashion industry. They will develop the necessary computer skills required to use certain Gerber software. 2. **Introduction to Accumark Explorer and PDS:** Students will be introduced to Accumark Explorer and its use in the fashion industry, as well as learning to navigate correctly though PDS. This will include using the Gerber Launch Pad, creating storage areas for new patterns, rule tables and the correct use of PDS menu bar. 3. **Digitizing of patterns:** Attention will be given the digitization of patterns. Students will be demonstrated the proper use of the digitizing table and how patterns are digitized and transferred into Accumark Explorer, ready to be modified in PDS.			

	4. **Pattern production, using Computer Aided Design:** Students will be introduced to the correct use of PDS. With the computer skills acquired the student will be able to produce simple patterns as well as make simple modifications to their digitized patterns.
Recommended and/or required reading:	
References:	1. Espinoza – Alvarado, J, D. (2007) *Computer Aided Design Using Gerber Technology.* Fairchild Publishing: USA. 2. Beazley, A. & Bond, T. (2003) *Computer – Aided Pattern Design & Product Development.* Blackwell Publishing: Oxford. 3. Sharp, J. & Henchen Elsasser, V. (2007) *Introduction to Accumark, Pattern Design & PDM*. Fairchild Publishing: USA.
Planned learning activities and teaching methods:	Short lectures, accompanied with technical demonstrations in computer labs are delivered in all topics mentioned above. Printed learning guides are also provided to students for a better understanding of the course content. Students have the opportunity to apply and demonstrate their understanding with practical computer exercises provided in every lecture. Their skills and knowledge are continually assessed with small projects throughout the semester and a class test at the end of the semester.
Assessment methods and criteria:	1. Computer skills in Accumark Explorer gained though practical exercises. 40% 2. Understanding of digitizing procedure and PDS evident in mini projects. 30% 3. Demonstration of skills and knowledge of Accumark Explorer evident in class test. 30%
Language of instruction:	English
Work placement(s):	No