



UNIVERSITI TEKNOLOGI MARA

FDT304: PATTERN DEVELOPMENT :CAM

<b>Course Name (English)</b>	PATTERN DEVELOPMENT :CAM <b>APPROVED</b>
<b>Course Code</b>	FDT304
<b>MQF Credit</b>	3
<b>Course Description</b>	This course will expose students to the uses of higher technology aided system incorporating with the apparel industry standards. Students are guided through learning the technical aspects of garment production processes using pattern design system.
<b>Teaching Methodologies</b>	Lectures, Lab Work, Demonstrations, Computer Aided Learning
<b>CLO</b>	CLO1 Identify knowledge in pattern development using CAD/CAM and the processes of apparel production. CLO2 Develop skill in technical aspect of garment production with pattern design system. CLO3 Produce a technical portfolio in line with clothing industrial needs.
<b>Pre-Requisite Courses</b>	No course recommendations
<b>Topics</b>	
<b>1. 1. Introduction to CAD/CAM System</b> 1.1) 1.1 CAD/CAM work station 1.2) 1.2 System and function in apparel production	
<b>2. 2. Pattern Design System</b> 2.1) 2.1. Pattern drafting and manipulation 2.2) 2.2. Pattern digitizing 2.3) 2.3. Pattern records and library	
<b>3. 3. Grading</b> 3.1) 3.1. Measurement and size chart 3.2) 3.2. Basic manual grading 3.3) 3.3. Grading nest and graded pattern	
<b>4. 4. Marker lay-out plan</b> 4.1) 4.1 Manual and auto lay-out plan 4.2) 4.2 Scale marker 4.3) 4.3 Marker lay-out efficiency and fabric consumption	
<b>5. 5. Apparel production flow</b> 5.1) 5.1. Technical board 5.2) 5.2. Production pattern and pattern chart 5.3) 5.3. Marker lay-out 5.4) 5.4. Garment assembly workflow 5.5) 5.5. Costing	

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	This project requires student to identify knowledge in pattern development using Computer Aided Manufacturing (CAM) specifically in pattern drafting and manipulation	15%	CLO1 , CLO2
	Assignment	This project requires student to identify knowledge in pattern development using Computer Aided Manufacturing (CAM) specifically in pattern digitising	15%	CLO1 , CLO2
	Assignment	This project requires student to identify knowledge in pattern development using Computer Aided Manufacturing (CAM) specifically in pattern grading	15%	CLO1 , CLO2
	Assignment	This project requires student to identify knowledge in pattern development using Computer Aided Manufacturing (CAM) specifically in marker lay-out plan	15%	CLO1 , CLO2
	Assignment	This Project requires student to produce an apparel production flow of their final design	15%	CLO3
	Assignment	This project requires student to produce a complete technical board contain important information of their final design	25%	CLO2 , CLO3

Reading List	Reference Book Resources
	<ul style="list-style-type: none"> <li>• Alison Beazley, Terry Bond 2003, <i>Computer-Aided Pattern Design and Product Development</i>, Wiley-Blackwell United Kingdom [ISBN: 1405102837]</li> <li>• David J. Tyler 2008, <i>Carr and Latham's Technology of Clothing Manufacture</i>, 4th Edition Ed., Wiley-Blackwell United Kingdom [ISBN: 9781405161985]</li> <li>• Sue Jenkyn Jones 2005, <i>Fashion Design</i>, 2nd Edition Ed., Laurence King Publishing United Kingdom [ISBN: 9781856694360]</li> <li>• Winifred Aldrich 2008, <i>Metric Pattern Cutting for Women's Wear</i>, 5th Edition Ed., Wiley-Blackwell United Kingdom [ISBN: 9781405175678]</li> </ul>

<b>Article/Paper List</b>	This Course does not have any article/paper resources
<b>Other References</b>	This Course does not have any other resources