FS 3470 - CAD PRODUCTION PATTERNMAKING

Credits: 3

This advanced-level course expands the knowledge of CAD design technologies used in manufacturing production to include the development of production patterns, pattern grading, zero waste markers, laser cutting, and inventory control. Students will experience the full capacity of pattern design software systems to understand the process of a product's mass production cycle along with the skills to make decisions of cost efficiency. Upon successful completion of this course, students will have the knowledge to develop and supervise the engineering of mass pattern parts prepared for construction in production manufacturing.

Prerequisites: F52.411 - Digital Design I and F52321. Technical Studio II or F51350 - Construction II: Draping + Drafting

Communication Outcomes

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Course Learning Outcomes:	Exceeding	Meeting	Developing	Not meeting	Program Outcomes	New Institutional Outcomes
Discuss CAD design						
technologies with a focus on	Student work displayed an	Student work displayed a	Student work displayed a			
creative potential and	excellent degree of	satisfactory degree of	limited degree of	Student work displayed no		Critical Thinking, Cultural
industry-standard	competence in CAD	competence in CAD	competence in CAD	degree of competence in		Competence, Design
techniques.	technologies	technologies	technologies	CAD technologies	FS1	Competence
Develop production	Student work displayed an	Student work displayed a	Student work displayed a			Critical Thinking,
patterns, pattern grading,	excellent degree of	satisfactory degree of	limited degree of	Student work displayed no		Communication
efficient markers, and	competence in production	competence in production	competence in production	degree of competence in		Competence, Design
inventory control.	patterns	patterns	patterns	production patterns	FS4	Competence
Calculate actual and						Critical Thinking,
estimated costs of garment						Communication
construction and identify	Student work displayed an	Student work displayed a	Student work displayed a	Student work displayed no		Competence, Design
opportunities for cost	excellent degree of	satisfactory degree of	limited degree of	degree of competence in		Competence, Cultural
efficiency.	competence in costing	competence in costing	competence in costing	costing	FS1, FS6	Competence
Develop skills in mass	Student work displayed an	Student work displayed a	Student work displayed a			Critical Thinking,
pattern engineering for	excellent degree of	satisfactory degree of	limited degree of	Student work displayed no		Communication
construction in production			competence in mass pattern	degree of competence in		Competence, Design
manufacturing.	engineering	engineering	engineering	mass pattern engineering	FS4	Competence

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	- CAD PRO	DDUCTION	PATTE	RNMAKIN	1G						
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Prerequisites: F Course Learning	S 2411 - Digital De g Outcomes:	in production manu esign I and FS2321-1 Exceeding	Technical Stu	udio II or FS 1350 Meeting	- Construction De	n II: Draping + eveloping	Drafting I	Not meeting		Program Outcomes	New Institutional Outcomes

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