TECNOLOGIAS E PROCESSOS DE FABRICO II

Code: 333064

Main Scientific Area: Product Development

Lecturer: David Catalán Sainz

Language of Instruction: Portuguese

Regime: S1

Contact Hours: 60h Total Workload: 130h

ECTS: 7,0

Objectives

The course of "Technologies and Production Processes I" aims the presentation of the variety of different materials available worldwide for textile industry - from prime-matters as fibres to multi-component materials, its characteristics and properties, advantages and disadvantages.

This course allows students to develop knowledge in terms of textiles, identification and selection of different materials for products development.

The students will acquire know-how to support the identification of technical specifications for samples and product production.

Learning Outcomes

- Identification of fibres and/or materials on different textile articles and products.

- Comprehension of the produciton process of different types of yarns/filaments/fibres to understand the characteristics of the fashion product as physical behavior, mechanic and chemical resistency.

- Identification of the different finnishing processes and their implications in terms of physical behavior, mechanic and chemical resistency.

- Different confeccion processes- types of sews/bounding techniques of materials to be able to create a tridimensional fashion product.

Course Contents

Fashion: concepts, cicles and its movements.

The languages of Fashion.

Fashion's utilitary, simbolic , of communication and cultural functions.

The creation of fashion products and their dinamic.

Fashion Industrie: fashion as a competitive factor on international markets; the added value provided by fashion; the influence of fashion on the functioning of creation/production/commercialization chains.

Recommended Bibliography

Projecto “Qualificação e formação”, do Pólo de Competitividade da Moda;

Araújo, M.D. e Melo e Castro, E.M. (1987), Manual de Engenharia Têxtil, Vol. I e Vol. II; Fundação Calouste Gulbenkian;

Araújo, M.D. de, Fangueiro, R. E Hong, H. (2000), Têxteis Técnicos: Materiais do Novo Milénio, Vol. I, II e III; Edição Williams/DGI, Braga, Portugal.

Urban, Glen L., John R. (1993), Design and Marketing of new products, 2nd Ed., Prentice – Hall International Editions, New Jersey.

Marks, R.; Lawton, J.; Holmes, A. (2001); An introduction to textiles: Volume III – Fabrics; Eurotex; School of Textile Studies, Bolton Institute, UK.

MOURA, M. F., MORAIS, A. B. E MAGALHÃES, A. G. Materiais Compósitos – Materiais, Fabrico e comportamento Mecânico. Porto: Publindústria – Edições Técnicas, 2005. ISBN 972-8953-00-3.

Recursos Didácticos a utilizar:

Projector

Diapositivos

Textos de apoio

Apresentação de vídeos com as diferentes tecnologias;

Amostras de tecido;

Learning and Teaching Methods

By explanning the different concepts, cicles and movements of fashion, the students can

understand the adquation of each textile material to different consumption habits, their advantages and disadvantages from the comfort of the user point of view as well as from the utilitary one.

The presentation of the different production processes, it is allowed to the student to understand the functions and typology of each material on its utilitary , of communication and cultural functions.

The understanding of the behavior of the different materials allows students to understand chronologycal organization of fashion industry and its chaisn of supply.

Assessment Methods

The evaluation of the students it is continuous, and will be composed by exercises during the classes,three writen exams, a theoretical-practical project coming from the Curricular Unity of Project in Fashion Design I, and a theoretical-practical work(conceptual) of a garment.

Formula for percentages management:

-Attendance and ponctuality: 5%

- Writen exams: 45%(15% each);

-Theoretical-practical works: 35%;

- Class participation: 5%;

- Classes exercises: 10%;

The writen exams consist of a quiz of open and closed answer, according to the lectured themes.

On this exams, it is also required to the students to represent graphically and technically knitted mateirals, types of sews and bounding methods as well as technical representation of garments.