

TECNOLOGIAS E PROCESSOS DE FABRICO I

Code: 333062

Main Scientific Area: Product Development

Lecturer: Fábio César Duarte Rodrigues

Language of Instruction: Portuguese

Regime: S2

Contact Hours: 60h Total Workload: 90h

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 production 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 finishing processes and their implications in terms of physical behavior, mechanic and chemical resistency.

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

Course Contents

Fashion: concepts, cycles and its movements.

The languages of Fashion.

Fashion's utility, symbolic, of communication and cultural functions.

The creation of fashion products and their dynamic.

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, Figueiro, 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 Didáticos a utilizar:

Projector

Diapositivos

Textos de apoio

Apresentação de vídeos com as diferentes tecnologias;

Amostras de tecido;

Learning and Teaching Methods

By explaining the different concepts, cycles and movements of fashion, the students can understand the adquisition 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 utility 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 utility , of communication and cultural functions.

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

Assessment Methods

The evaluation of the students it is continuous, and will be composed by exercises during the classes, three written 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 punctuality: 5%

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

-Theoretical-practical works: 35%;

-Class participation: 5%;

-Classes exercises: 10%;

The written 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 materials, types of seams and bounding methods as well as technical representation of garments.