



PHD Program of Clothing & Textiles

Courses' Description of PHD program of Clothing & Textiles

Firstly : General Courses

Course Code	Course Title	Credits	Prerequisite
2601701-3	Reading and Research in the Field Specialization	3	-
Course Description	This Course includes studying and reading researches, scientific periodicals, books and various articles in the area of specialization in both languages Arabic and English from multiple sources with making a discussion throughout them and finds the scientific terms. Also, it includes training to use the social media and express using linguistic terms in writing reports and scientific research.		

Course Code	Course Title	Credits	Prerequisite
2601702-3	Clothing Psychology	3	-
Course Description	This Course interest in identifying the nature of the environment and study the environmental, historical, geographical, social and economic factors as well as psychological factors and their impact on the clothing styles and methods of adornment.		

Course Code	Course Title	Credits	Prerequisite
2601711-2	Research seminar	2	-
Course Description	The seminar helps postgraduate students to practice the regular skills and scientific methods in solving the daily and general problems. This course helps also students to be perfect in scientific research skills and to be capable of analyzing the profession and the necessary skills to perform them. Also the way to use the scientific method in thinking and necessary scientific methods to improve the lifestyles and personal, psychological, social and economic situations.		



Course Code	Course Title	Credits	Prerequisite
2601712-3	Applied Project in the Field Specialization	3	-
Course Description	This Course aims to identify the fashion trends and choose a product from one of the specialization sections, then planning to make an applied project that can be actually implemented, determining the raw materials, machinery and preparing a feasibility study for the project to determine the expectation of the project success.		





Secondly: Mandatory Courses

1- Fashion Design Pathway

Course Code	Course Title	Credits	Prerequisite
26017102-3	Creative Designing on Mannequin	3	-
Course Description	This Course concerns to learn how to trigger your inspiration and visualize ideas quickly by simply working with fabric and pins on a dummy. Explore how by twisting, folding, gathering and layering fabric you can get the most amazing results. Whether you are a beginner or have some experience, you'll discover how to develop fashion ideas and garments in an intuitive, playful and enjoyable way.		

Course Code	Course Title	Credits	Prerequisite
2601713-2	Functional Clothing Design	2	-
Course Description	This Course aims to be able to know the functional and aesthetic characteristics of the clothing of the special categories, and to identify the types of fabrics and smart materials that suit the special categories. In addition to identifying the functional characteristics and comfort characteristics required for this type of clothing. Functional requirements for clothing of special categories.		

Course Code	Course Title	Credits	Prerequisite
2601714-2	Technology of the fashion industry	2	-
Course Description	This Course aims to identify and utilize the technology of the fashion and fashion industry in the design and implementation of innovative products based on modern developments in machinery, patterns and textiles.		





2- Clothing Manufacturing Pathway

Course Code	Course Title	Credits	Prerequisite
2601704-3	Design and Draping on a mannequin	3	-
Course Description	This Course deals with the study of modern technologies in modulation techniques on mannequin engineering methods, geometric and employment in the fashion design and development of innovative designs of the art Origami suit the with contemporary fashion in the Arab world and the nation		

Course Code	Course Title	Credits	Prerequisite
2601715-2	Functional Garment	2	-
Course Description	The aim of this Course is to study different types of functional clothing for special groups and certain professions (workers clothes, doctors, clothes with special needs) (men, women, children) and to identify the special requirements of designs and types of fabrics and their suitability to the nature of those categories.		

Course Code	Course Title	Credits	Prerequisite
2601716-2	Textile Industry Economics	2	-
Course Description	<p>This Course aims to study the economic concepts related to apparel industry and also the modern technological transformations and consequently constructing of advanced industrial structures. Stablishing new sophisticated consumer markets and create new customer models for clothing industry.</p> <p>The course aims also to study the promotion and advertising methods for apparel industry and their role in increasing sales, as well as study the standardization of concepts and their role in improvement and development of industrial production.</p>		





Course Code	Course Title	Credits	Prerequisite
2601717-4	Global Traditional Costumes	4	-
Course Description	This Course aims to identify the traditional fashion all over the world. Also study some models of clothing pieces from different countries with implementation of some innovative clothing garments, which inspired from traditional costumes.		





3- Textiles Pathway

Course Code	Course Title	Credits	Prerequisite
2601706-2	Yarns and fabrics tests	3	
Course Description	<p>This Course concerns with training students on methods of testing some yarns properties and fabric properties using special tests specialized devices according to standard specification and under standard conditions.</p> <p>Yarns properties tests: Measuring of yarn count, Measuring the Twist number, The Regularity of yarn, Yarns tensile strength and elongation.</p> <p>Fabric properties tests: Fabric Shrinkage, Fabric Thickness, Fabric Bending stiffness, Fabric Drapeability, Air permeability, Fabric tensile strength and elongation.</p>		

Course Code	Course Title	Credits	Prerequisite
2601718-3	Smart Textiles Technology	2	
Course Description	<p>This Course aims to Know the concepts : passive smart, active smart, very smart; gives examples of smart suits of the future, concepts, micro-encapsulation , release mechanisms, Phase change materials; colour change; Shape memory materials, and electronics textile. Obtain an understanding of nanotechnology and its applications in the smart textile industry.</p>		

Course Code	Course Title	Credits	Prerequisite
2601719-2	Textile Industry Economics	2	
Course Description	<p>This Course concerns with Studying the factors that optimize the use of fabrics and supplies control – The ability to analyze designs – Cost Analysis and putting productivity alternatives – Cost analysis of weaving preparations – Cost analysis of square meter of fabrics (weights and colours) – Cost of dyeing and printing – Cost of operating stages – Study the fabrics defects related to the operation and use – Study alternatives of machines and study time.</p>		





Thirdly: Optional Courses (3 Courses per semester – 6 credits)

Course Code	Course Title	Credits	Prerequisite
2601707-2	Digital Fashion plates	2	
Course Description	Student learns in this course the role of global fashion houses in creating the fashion plates and how to benefit from them in developing innovative designs; through preparing of variety plates fashion from different environments (industrial environment, heritage environment, desert environment).		

Course Code	Course Title	Credits	Prerequisite
2601720-2	Magazines Design Principles	2	-
Course Description	This subject focuses on a comprehensive study of the methodology of designing a fashion magazine and identifying the principles and the basics of designing the magazine parts (The cover – Pages – the order of content – Exporting magazine for printing) and applying these roles practically in producing a fashion magazine with a professional manner.		

Course Code	Course Title	Credits	Prerequisite
2601708-2	Leather Industry Technology	2	
Course Description	This Course concerns about study the history of the leather industry and the types of natural and artificial leather production and the stages of the leather industry and the types of machines and tool used in their manufacture contain.		





Course Code	Course Title	Credits	Prerequisite
2601721-2	Smart clothes	2	-
Course Description	This course contents of techniques to turn ordinary clothes to smart clothes it contains with integrated electronics with fabrics or clothing for the purpose of sensing and activation and processing of data on a continuous basis from the user and his environment and physical link Smart Labs for recharging and data transfer and the development of a basic system for the management of clothing as a sign of the perception that the desired function appears in monitoring smart clothes and linked to smart devices.		

Course Code	Course Title	Credits	Prerequisite
2601709-2	Quality control in manufacturing the traditional fashion	2	
Course Description	This Course concentrates in the concept of total quality, which considered the key of the progress of civilization. The systematic study of the methods of modern total quality management (TQM), dealing with local and international standards and measurements to achieve the required quality in heritage fashion design in terms of aesthetic appearance, usage efficiency, right price, the competition ability and the marketing. It includes making quality control on all elements of the organization and production.		

Course Code	Course Title	Credits	Prerequisite
2601722-2	Traditional Decoration Models	2	
Course Description	Folklore is the treasures inherited by Saudi Arabia from different ages, therefore the importance of the Saudi folklore refers to exclusivity and excellence. This course aims to collect the heritage and record the popular styles from their native habitat, study, classify archive them. Beside that studying the general features of popular decorative models in Saudi Arabia.		





Course Code	Course Title	Credits	Prerequisite
2601710-2	Textile Finishing	2	
Course Description	In this Course, the students will study the principles, mechanisms, and methods of different mechanical and chemical finishing processes, like chemical softening, easy-care finishes, water – and oil- repellent finishes, flame retardant finishes, soil release finishes, UV protection finishes, antimicrobial finishes. The course includes also the application of nanotechnology in the field of textiles finishing.		

Course Code	Course Title	Credits	Prerequisite
2601723-2	Nonwoven Fabrics	2	
Course Description	Designing fashion collections for different occasions based on studying the factors affecting the selection of women's clothes and materials and employing them according to personal characteristics and contemporary fashions to express the customs and traditions of society.		

