

## Courses Description

**College:** Applied Medical Sciences

**Department:** Clinical Nutrition &Dietetics

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**Couse ID:** 2105021700      **Description:** Applied Statistics

**Full Course Description:** This course deals with statistical concepts and data analysis used in biological sciences: descriptive statistics, probability, sample distributions, confidence intervals, parametric and non-parametric methods, one-way ANOVA, correlation, regression, and categorical data.

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**Couse ID:** 2105021710      **Description:** Legislation and Policies in Food and Nutrition

**Full Course Description:** This course will provide an overview of local and international legislation, policies and guidelines related to food safety and nutrition. Students will learn to critically evaluate the impact of these legislation, policies, and guidelines on consumer's health and its relationships with chronic disease.

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**Couse ID:** 2105021711      **Description:** Advanced Nutrient Metabolism

**Full Course Description:** This course deals with the integration of biochemical, physiological, and hormonal processes involved in the metabolism and functions of nutrients including carbohydrates, lipids, proteins, vitamins and minerals.

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**Couse ID:** 2105021712      **Description:** Recent Methods of Nutritional Assessment and Counseling

**Full Course Description:** This course covers recent assessment methods and interpretation of results to assess and diagnose the nutritional status of individuals and groups. Assessment techniques for measuring diet, blood glucose, insulin, plasma lipids, minerals and vitamins are reviewed. Additionally, techniques for assessing body composition and energy expenditure are covered. Students will also learn theoretical and empirical principles from motivational interviewing and practice the clinical skills needed to use this approach in healthcare settings to promote healthy behavior change.

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**Couse ID:** 2105021720      **Description:** Therapeutic Nutrition and Nutritional Care Process

**Full Course Description:** In this course, the nutritional care process framework will be integrated with evidence-based guidelines and other recommendations for medical nutritional therapy for patients diagnosed with cardiovascular disease, diabetes, cancer, gastrointestinal diseases, and kidney disease. In addition, topics such as weight management, treatment of patients before and after bariatric surgery, nutritional support, trauma and burns will be covered.

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**Couse ID:** 2105021721      **Description:** Therapeutic Nutrition Applications Throughout Lifecycle

**Full Course Description:** The aim of this practical course is to provide students with supervised practice training in clinical nutrition for adults, the elderly, mothers, infants, children, and adolescents. The practice will include the application of the nutritional care process in a selected clinical setting. The student selects a patient each week and makes a case study presentation

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**Couse ID:** 2105021722      **Description:** Implementation of the nutritional care process in community nutrition

**Full Course Description:** The aim of this practical course is to provide students with supervised practice training in community nutrition. The practice will include the application of the nutritional care process in the community. The student selects a nutritional problem prevalent in the community and develops a case study presentation using evidence-based guidelines, nutrition assessment, diagnosis, intervention, monitoring and evaluation. for a certain age group of community.

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**Couse ID:** 2105021730      **Description:** Laboratory methods for analyzing and examining food components

**Full Course Description:** This course deals with the study of the most important chemical and biochemical laboratory methods used in food and nutrition science research, and advanced modern analytical techniques such as different chromatography methods, electrophoresis and spectroscopy.

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**Couse ID:** 2105021731      **Description:** Developing Healthy Food Products

**Full Course Description:** This course aims to study how to design experiments to improve and develop food ingredients, using modern technologies in manufacturing, and evaluating factors related to the production and manufacture of new healthy food products so that they fulfill the sensory desires and nutritional needs of the consumer.

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**Couse ID:** 2105021740      **Description:** Food Safety and Quality Management

**Full Course Description:** The course will present some topics related to food safety and quality and methods of controlling biological, chemical and physical hazards in foods. Applications of the HACCP system to control food safety will also be studied. Modern sterilization and disinfection systems and pest control methods will also be studied, as well as some statistical methods related to quality control. Food will also study good manufacturing systems and standard operating methods in order to ensure the quality of food

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**Couse ID:** 2105021741      **Description:** Epidemiology of Foodborne Diseases

**Full Course Description:** To know the principles of epidemiology and its applications in studying foodborne diseases and poisonings, researching and evaluating the epidemiological patterns of food diseases, the severity and distribution of these diseases, in addition to studying methods for verifying their sources, analyzing risks, methods of transmission and controlling food diseases.

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**Couse ID:** 2105021742      **Description:** Evolution of Pathogenic Food Microbes

**Full Course Description:** Study the emergence and development of pathogenic microbes transmitted through food, and study the environment of microbes and their transmission in the food chain.

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**Couse ID:** 2105021790      **Description:** Research Methods

**Full Course Description:** This course discusses the basic approaches and techniques used in nutrition research on human populations, and therefore this course will include the formation and critique of different research designs, sampling techniques, methods of information collection and data analysis, and the ethics of human research. In addition, the student will write a research project

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**Couse ID:** 2105021791      **Description:** Seminar

**Full Course Description:** Each session focuses on a topic related to nutrition or food safety. The student will provide an evidence-based review of a relevant topic, and give an oral presentation of the topic using a slide show

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**Couse ID:** 2105021793      **Description:** Special Topics in Therapeutic Nutrition

**Full Course Description:** The aim of this course is to provide a basic understanding of modern topics in clinical nutrition such as genetic interaction with nutrition, nutritional psychology, nutrition and the immune system.

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**Couse ID:** 2105021799      **Description:** Thesis

**Full Course Description:** The student will carry out a clinical study in the field of therapeutic nutrition or experiments in the field of food safety

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**Couse ID:** 2105023799      **Description:** Thesis

**Full Course Description:**

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**Couse ID:** 2105026799      **Description:** Thesis

**Full Course Description:**

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**Couse ID:** 2105029799      **Description:** Thesis

**Full Course Description:**