

Course Description Form

Course Description - Nutritional Experiments - Fourth Stage

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, proving whether he or she has made the most of the available learning opportunities. It must be linked to the description of the programme.

1.Educational Institution	University of Baghdad / College of Education for Girls
2. Scientific Department / Center	Department of Home Economics
3.Course Name/Code	Nutritional experiments / Theory 437HENX
4. Available Attendance Forms	daily
5.Semester/Year	Yearly 2021/2022
6. Number of academic hours (total)	30 weeks with 2 theoretical hours and 2 practical hours 4 weekly * 30=120 hours per year
7.Date of preparation of this description	10/11/2021
8. Course Objectives	
Identify the importance of water and its components that are closely related to the field of cooking foodstuffs and the impact of crop types on them	
Identify the components of some food mods such as eggs and milk and know their impact on the specifications of the products that go into their preparation	
Identify the effect of meat components of all kinds on meat quality specifications after conducting various transactions on them	

10. Required Program Outcomes and Teaching, Learning and Assessment Methods
<p>A- Cognitive objectives</p> <p>A1- Identify the importance of water and its flow in food and types of solutions</p> <p>A2- Identify the components of eggs and their effect on the products in which eggs are included in their preparation</p> <p>A3- Identifying the components of milk and their effect on the products in which milk is included in its preparation</p> <p>A4- Identify the components of meat of all kinds and their impact on the specifications of the meat produced after treatment</p> <p>A5- Identifying the components of fruits and vegetables and their impact on the specifications of the outputs</p> <p>A6- Identify the components of oils and fats and their effect on products</p> <p>A7- Identify the components of flour and their effect on products</p>
<p>B - Skills objectives of the course.</p> <p>B1 - Developing the student's ability to convert information into methods of work and activity in the practical field of food experiments</p> <p>B2 – Developing and employing the acquired skills for the development of food products</p>
Teaching and learning methods
<p>1. Explanation and clarification</p> <p>2. Lecture method</p> <p>3. View ways of working</p> <p>4. Self-learning method</p>
Evaluation methods
<p>1- Performing exams</p> <p>2- Direct answer to the questions posed</p> <p>3- Use the Open book exam system to obtain information with the source</p> <p>4- Preparing reports according to the latest relevant information</p> <p>C. Emotional and value goals</p>

C1- Observation, perception and thinking C2- Conclusion and evaluation C3. Implementation and evaluation
Teaching and learning methods
1. Explanation and clarification 2. Lecture method 3. View ways of working 4. Self-learning method
Evaluation methods -Performance of exams 2- Direct answer to the questions posed 3- Use the Open book exam system to obtain information with the source 4- Preparing reports according to the latest relevant information
(d) General and qualifier skills transferred (other skills related to employability and personal development).
D1- Empowerment Skill D2- Achievement skill D2- D3-

. Course structure					
The week	Hours	Required Learning Outcomes	Unit / Subject Name	Method of education	Evaluation method
1	2	The student gets to know	Water, its importance definition, the chemical composition of water	Lecture	Achievement Test
2	2	The student gets to know	Physical states of water and its physicochemical properties, hard water	Lecture	Achievement Test
3	2	The student gets to know	Lotions. Definition of solution, types, properties	Lecture	Achievement Test
4	2	The student gets to know	Colloids, definition, name, general properties, sedimentation, main colloidal diffusion cases in foods, properties	Lecture	Achievement Test
5	2	The student gets to know	Emulsifiers, their definition, types, factors affecting their formation, emulsifying theories of action. Foams, definition, importance, factors affecting its construction and demolition	Lecture	Achievement Test
6	2	The student gets to know	Gels, definition, properties, factors affecting their formation, separation phenomenon, factors affecting them	Lecture	Achievement Test
7	2	The student gets to know	Eggs, their nutritional and manufacturing importance, the composition of the shell, yolks and whites and their chemical contents	Lecture	Achievement Test
8	2	The student gets to know	Qualitative properties of eggs, methods of handling and storage, functional properties and uses in the kitchen	Lecture	Achievement Test

9	2	The student gets to know	The basic methods of cooking eggs, products in which eggs enter, egg foam, egg preservation	Lecture	Achievement Test
10	2	The student gets to know	Milk, its nutritional and manufacturing importance, the nature of the organization of its components, types of milk and its products	Lecture	Achievement Test
11	2	The student gets to know	Supplement of types of milk and milk products, cooking milk, thermal pasteurization, whey proteins, effect of heat in casein	Lecture	Achievement Test
12	2	The student gets to know	Effect of heat on milk color and flavor Effect of acid in casein, effect of resonance enzyme in it, effect of polyphenolic compounds on milk proteins, Homogenized milk and its sensitivity to heat, circulation of processed foods from milk	Lecture	Achievement Test
13	2	The student gets to know	Fruits, their importance, plant tissue structure	Lecture	Achievement Test
14	2	The student gets to know	Chemical content of fruits, fruit smell, post-harvesting changes, enzymatic tanning, changes due to cooking	Lecture	Achievement Test
15	2	The student gets to know	Vegetables, their importance, vegetable composition and chemical content	Lecture	Achievement Test
16	2	The student gets to know	The same applies to fruits in terms of cellular structure, tenderness, enzymatic tanning, quality characteristics of fresh vegetables	Lecture	Achievement Test

17	2	The student gets to know	Meat, its importance and types, chemical content, muscular structure of meat	Lecture	Achievement Test
18	2	The student gets to know	Practicum Classroom Practices	Lecture	Achievement Test
19	2	The student gets to know	Practicum Classroom Practices	Lecture	Achievement Test
20	2	The student gets to know	Practicum Classroom Practices	Lecture	Achievement Test
21	2	The student gets to know	Practicum Classroom Practices	Lecture	Achievement Test
22	2	The student gets to know	Practicum Classroom Practices	Lecture	Achievement Test
23	2	The student gets to know	Practicum Classroom Practices	Lecture	Achievement Test
24	2	The student gets to know	Practicum Classroom Practices	Lecture	Achievement Test
25	2	The student gets to know	Tenderness of meat, hardness of meat and bond fabric, ageing, cooking meat	Lecture	Achievement Test
26	2	The student gets to know	Poultry, its importance, types, preparation for marketing, composition and chemical content, cooking, freezing, cooked poultry flavor, B group vitamins in it	Lecture	Achievement Test
27	2	The student gets to know	Fish, types and nutritional value, maintaining its quality, finfish muscle structure and content, fish resilience towards frozen storage, evaluation of fish cooking completeness and changes	Lecture	Achievement Test
28	2	The student gets to know	Fats, their importance, types, chemical composition, functions in food, types of	Lecture	Achievement Test

			fatty products		
29	2	The student gets to know	Flour, its types, the quality of its components, fluffing agents, yeast and fermentation and its role in the production of bread and bread	Lecture	Achievement Test
30	2	The student gets to know	Cakes, pastries, the effect of blending and manufacturing conditions on production quality	Lecture	Achievement Test