هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

# Course Specifications

| | |
|---|---|
| **Course Title:** | **Graduation Project** |
| **Course Code:** | **2064205-3** |
| **Program:** | **Bachelor in Food Science and Nutrition** |
| **Department:** | **Food Sciences and Nutrition Department** |
| **College:** | **College of Science** |
| **Institution:** | **Taif University** |

## Table of Contents

## A. Course Identification

| |
|---|
| **1. Credit hours: 3 Hours** |
| **2. Course type**<br>**a.** University ☐ College ☐ Department ☑ Others ☐<br>**b.** Required ☑ Elective ☐ |
| **3. Level/year at which this course is offered: 12 th Level / 4 nd year** |
| **4. Pre-requisites for this course** (if any)**: None** |
| **5. Co-requisites for this course** (if any)**: None** |

**6. Mode of Instruction** (mark all that apply)

| No | Mode of Instruction | Contact Hours | Percentage |
|---|---|---|---|
| 1 | **Traditional classroom** | 6h/ Weeks | 100% |
| 2 | **Blended** | --- | --- |
| 3 | **E-learning** | --- | --- |
| 4 | **Distance learning** | --- | --- |
| 5 | **Other** | --- | --- |

**7. Contact Hours** (based on academic semester)

| No | Activity | Contact Hours |
|---|---|---|
| 1 | **Lecture** | 30 |
| 2 | **Laboratory/Studio** | 30 |
| 3 | **Tutorial** | --- |
| 4 | **Others** (specify) | --- |
| | **Total** | **60** |

## B. Course Objectives and Learning Outcomes:

**1. Course Description**

This course deals with studying the definition of the research problem and plan–steps of research plan- Design of articles and dissertation – Writing the introduction - Preparation of literature review - Design the experiment - Collecting results- Data Analysis- Reviewing the paper and thesis elements- Writing thesis in final form. Scientific Publication.

**2. Course Main Objective:**

- Explain the importance of research for country development.
- Recognize principles of scientific research.
- Solve a problem with scientific thinking.
- Choose up to date research points.
- Downloading of multimedia tools explaining the research procedures in concern.
- Describe how to write a scientific article.
- Understand the ethics and rules of scientific research.

### 3. Course Learning Outcomes:

| CLOs | | Aligned PLOs |
|---|---|---|
| 1.0 | **Knowledge and Understanding** | |
| 1.1 | Student identifies the principles and concepts of scientific research. | **K 3** |
| 1.2 | Student recognizes the components of scientific paper. | **K 2** |
| **2.0** | **Skills :** | |
| 2.1 | Student describes a problem in an executable form for solution. | **S 3** |
| 2.2 | Student applies concepts and disciplines studied in current and future career. | **S 2** |
| **3** | **Values:** | |
| 3.1 | Student cooperates in work group for applied part of project and preparation the final form and presentation. | **V 1** |
| 3.2 | Student reacts with using modern technology and computer applications in food science and nutrition. | **V 2** |

## C. Course Content:

| No | List of Topics | Contact Hours |
|---|---|---|
| 1 | Definition of scientific research | 3 |
| 2 | How to choose the point of research? | 3 |
| 3 | Design the research plan for article or dissertation | 3 |
| 4 | Preparation and discussion of the proposal | 3 |
| 5 | Method of collecting previous literature | 3 |
| 6 | Design of experiments and estimating the methods | 3 |
| 7 | Collecting and tabulating the results and their analysis | 3 |
| 8 | Write and discuss the results | 3 |
| 9 | Revise the manuscript and provide its final form | 3 |
| 10 | Scientific publication | 3 |
| **Total** | | **30** |

## D. Teaching and Assessment

### 1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

| Code | Course Learning Outcomes | Teaching Strategies | Assessment Methods |
|---|---|---|---|
| **1.0** | **Knowledge and Understanding** | | |
| 1.1 | Student identifies the principles and concepts of scientific research. | Lecture | Written exams |
| 1.2 | Student recognizes the components of scientific paper. | Lectures -Discussions | Final evaluation of project |
| **2.0** | **Skills** | | |
| 2.1 | Student describes a problem in an executable form for solution. | Lectures-Labs-Discussions | Continuous Evaluation |
| 2.2 | Student applies concepts and disciplines studied in current and future career. | Lectures-Labs-Discussions- | Final evaluation of project |
| **3.0** | **Values** | | |
| 3.1 | Student cooperates in work group for applied part of project and preparation the final form and presentation. | Small groups | Continuous Evaluation |
| 3.2 | Student reacts with using modern technology and computer applications in food science and nutrition. | Group Discussion | Final evaluation of project |

### 2. Assessment Tasks for Students

| # | Assessment task* | Week Due | Percentage of Total Assessment Score |
|---|---|---|---|
| 1 | Written exam | Continues | 20% |
| 2 | Evaluation Presentation | Continues | 20% |
| 3 | Final exam and Weekly Lab. Reports | 12 | 60% |

***Assessment task** (i.e., written test, oral test, oral presentation, group project, essay, etc.)

## E. Student Academic Counseling and Support:

**Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :**

- There are 6 h per week for this purpose and the students know these hours according to the time of professor who teach the course.
- Student satisfaction surveys are conducted for academic guidance.
- Develop an improvement plan for academic guidance based on the results of the questionnaire analysis.
- Staff are available for individual student consultation during Social media, WhatsApp, Blackboard.

## F. Learning Resources and Facilities

### 1.Learning Resources:

| | |
|---|---|
| **Required Textbooks** | Margaret Cargill and Patrick O'Connor (2009): Writing Scientific Research Articles Strategy and Steps. Blackwell Publishing was acquired by John Wiley & Sons. ISBN 978-1-4051-9335-1.<br>Mike Ashby (2005): How to Write a Paper? Engineering Department, University of Cambridge, Cambridge. 6$^{th}$Edition. |
| **Essential References Materials** | References Materials (Journals, Reports, MSc or PhD thesis .) |
| **Electronic Materials** | Web Sites, google drive, statistic web, etc. All websites related **to the research point**<br>**Science direct** |
| **Other Learning Materials** | Other learning material such as computer-based programs/CD, professional standards or regulations and software. |

### 2. Facilities Required:

| Item | Resources |
|---|---|
| **Accommodation** (Classrooms, laboratories, demonstration rooms/labs, etc.) | - Lecture hall and Food Science and Nutrition Labs |
| **Technology Resources** (AV, data show, Smart Board, software, etc.) | - Laptop- data show |
| **Other Resources** (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list) | - Digital camera-Microphotography unit |

## G. Course Quality Evaluation:

| Evaluation Areas/Issues | Evaluators | Evaluation Methods |
|---|---|---|
| Effectiveness of teaching and assessment | Students, faculty, program leaders and Peer Reviewer | • Continuous monitoring by directors of program and quality assurance unit (Direct).<br>• Applying Questionnaires received from the Deanship of Academic Development for Student evaluation (indirect).<br>• Evaluation of course report (indirect). |
| Extent of achievement of course learning outcomes | Students, faculty, program leaders and Peer Reviewer | • Applying Questionnaires for Student evaluation (indirect).<br>• Evaluation of course report (indirect). |
| Quality of learning resources | Faculty, program leaders, administrative staff, independent reviewers. | • Continuous monitoring by directors of program and quality assurance unit (Direct).<br>• Applying Questionnaires for Student evaluation (indirect).<br>• Evaluation of course report (indirect). |

**Evaluation areas** (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)
**Evaluators** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
**Assessment Methods** (Direct, Indirect)

## H. Specification Approval Data

| | |
|---|---|
| **Council / Committee** | **Department council - Academic Development Committee** |
| **Reference No.** | **Department council NO: 2 Subject NO: 1** |
| **Date** | **30 /02 /1444 H** |

علوم الغذاء والتغذية
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