

University of 21 September for Applied and Medical Sciences

Faculty of Clinical Pharmacy

Master Degree in Clinical Pharmacy

Course Specification of Master Thesis

Course No. (CPh202)

2021/2022



This template of course specifications was prepared by CAQA, Yemen, 2017.

Prepared by:

Reviewed by:

Head of the Department:

Quality Assurance head

Dean:

Prof. Ali Alkaf

Dr. Ali Alyahawi

I. Course Identification and General Information:

| | | | | | |
|----|--|------------------------------------|------------------------------|----------|----------------------|
| 1 | Course Title: | Master Thesis | | | |
| 2 | Course Code & Number: | CPh202 | | | |
| 3 | Credit Hours: | Credit Hours | Theory Hours | | Lab/.Practical Hours |
| | | | Lecture | Exercise | |
| | | 6 | Through Research Work Period | | |
| 4 | Study Level/ Semester at which this Course is offered: | -Level 2 / Semester 3 | | | |
| 5 | Pre –Requisite (if any): | All Level 1 Courses | | | |
| 6 | Co –Requisite (if any): | None | | | |
| 7 | Program (s) in which the Course is Offered: | Master Degree in Clinical Pharmacy | | | |
| 8 | Language of Teaching the Course: | English | | | |
| 9 | Study System: | Semester based System | | | |
| 10 | Mode of Delivery: | Full Time | | | |
| 11 | Location of Teaching the Course: | Faculty of Clinical Pharmacy | | | |
| 12 | Prepared by: | Prof. Ali Alkaf | | | |
| 13 | Date of Approval: | | | | |

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II. Course Description:

The course content aims to improve students' knowledge and skills in order to use properly and efficiently quantitative and qualitative methods during conducting scientific graduation research work. This course will provide an overview of the important concepts of research design, data collection, statistical and interpretative analysis, and final report presentation.

III. Course Intended Learning Outcomes (CILOs) Upon successful completion of the course, students will be able to:

Referenced PILOs

Learning out of program

A. Knowledge and Understanding:

| | | |
|-----|--|----|
| a.1 | Define the types of research designs, their advantages, and drawbacks. | A3 |
| a.2 | Discuss the research tools and methods of data collection | A3 |

B. Intellectual Skills:

| | | |
|-----|--|--------|
| b.1 | Construct a research question, develop a hypothesis, and select the most appropriate research method, data collection tools for the question of interest, and data entry platform. | B1, B2 |
| b.2 | Analysis evidence-based literature to answer question of interest. | B2 |

C. Professional and Practical Skills:

| | | |
|-----|--|----|
| c.1 | Use properly the most appropriate knowledge, techniques, and skills in preparing a research. | C3 |
| c.2 | Present written research work correctly and using data to make rationale clinical decisions | C3 |

D. Transferable Skills:

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| | | |
|-----|--|----|
| d.1 | Improve students skills of time management and self-learning during performing research works. | D2 |
| d.2 | Communicate effectively and ethically with his/her colleagues | D1 |

| (A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods: | | | |
|--|--|--|--------------------------------|
| Course Intended Learning Outcomes | Teaching Strategies | Assessment Strategies | |
| a.1 | Define the types of research designs, their advantages, and drawbacks. | <ul style="list-style-type: none"> - Weekly discussions - Self-reading articles - Textbooks | Assignments |
| a.2 | Discuss the research tools and methods of data collection | <ul style="list-style-type: none"> - Weekly discussions - Self-reading articles - Textbooks | Assignments |
| (B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods: | | | |
| Course Intended Learning Outcomes | Teaching Strategies | Assessment Strategies | |
| b.1 | Construct a research question, develop a hypothesis, and select the most appropriate research method, data collection tools for the question of interest, and data entry platform. | <ul style="list-style-type: none"> - Weekly discussions - Self-reading articles - Feed-back learning - Textbooks | Assignments and written report |
| b.2 | Analysis evidence-based literature to answer question of interest. | <ul style="list-style-type: none"> - Weekly discussion - Self-reading articles - Textbooks | Assignments and written report |
| (C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods: | | | |
| Course Intended Learning Outcomes | Teaching Strategies | Assessment Strategies | |

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| | | | |
|--|--|--|--------------------------------------|
| c.1 | Use properly the most appropriate knowledge, techniques, and skills in preparing a research. | <ul style="list-style-type: none"> - Weekly discussions - Self-reading articles - Feed-back learning - Textbooks | Oral presentation and written report |
| c.2 | Present written research work correctly and using data to make rationale clinical decisions | <ul style="list-style-type: none"> - Weekly discussions - Self-reading articles - Feed-back learning | Oral presentation and written report |
| (D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods: | | | |
| Course Intended Learning Outcomes | | Teaching Strategies | Assessment Strategies |
| d.1 | Improve students skills of time management and self-learning during performing research works. | <ul style="list-style-type: none"> - Weekly discussions - Self-reading articles - Seminars | Oral presentation and written report |
| d.2 | Communicate effectively and ethically with his/her colleagues | <ul style="list-style-type: none"> - Weekly discussions - Self-reading articles - Seminar | Oral presentation |

IV. Topic Outline and Schedule:

This course has general framework and objectives. However, the timetable is both project- and instructor-dependent. The following timetable represents an example:

| Order | Units/Topics List | Number of Weeks | Contact hours | Aligned CILOs |
|-------|--|-----------------|---------------|---------------------|
| 1 | Introduction: Development of specific research question, literature search | Week 1-3 | Week 1-3 | a 1, a2 |
| 2 | Study design and methodologies in clinical research, design of data collection tools | Week 1-3 | Week 1-3 | b 1, b2 |
| 3 | Data collection and entry | Month 3-9 | Month 3-9 | c1, c2 |
| 4 | Sample statistical analysis | Week 1-3 | Week 1-3 | b 1, b2 |
| 5 | Written research project submission | Month 1-3 | Month 1-3 | a 1, a2, b1, b2, d1 |
| 6 | Oral presentations | Week 1-3 | Week 1-3 | d 2 |

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V. Teaching strategies of the course:

- Written research project
- Oral Discussions
- Feed-back learning
- Homework and assignments
- Oral Presentation

VI. Schedule of Assessment Tasks for Students During the Research Work:

| No. | Assessment Method | Week Due | Mark | Proportion of Final Assessment | Aligned Course Learning Outcomes |
|--|--------------------------------|-----------------------------|------|--------------------------------|----------------------------------|
| 1 | Attitude and attendance | Through the Research Period | 5 | 5 % | a 1, a2, b1, b2, d, d2 |
| 2 | Weekly discussions | Through the Research Period | 5 | 5 % | a 1, a2, b1, b2, d, d2 |
| 3 | Final written research project | Through the Research Period | 20 | 20 % | a 1, a2, b1, b2, d1 |
| 4 | Oral presentation (PPT) | Through the Research Period | 20 | 20 % | d 2 |
| Total (Project supervisor Mark) | | | 50 | 50 % (of Total) | |

Each project will be assessed by a committee of three member as following:

| Items | Weight |
|---|------------|
| Project supervisor | 50 % |
| Internal examiner : a member of the department teaching staff. | 25 % |
| External examiner : a qualified external examiner from another university | 25 % |
| Total | 100 |

Assessment of the Project by the Project Supervisor

| Items | Mark |
|--------------------------------|-----------|
| Attitude and attendance | 5 |
| Weekly discussions | 5 |
| Final written research project | 20 |
| Oral presentation | 20 |
| Total | 50 |

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| Assessment of the project by the internal examiner | |
|--|-----------|
| Items | Mark |
| Research methodology | 5 |
| Research writing | 10 |
| Presentation | 5 |
| Discussion | 5 |
| Total | 25 |

| Assessment of the project by the external examiner | |
|--|-----------|
| Items | Mark |
| Research methodology | 5 |
| Research writing | 10 |
| Presentation | 5 |
| Discussion | 5 |
| Total | 25 |

| VII. Learning Resources: | |
|---|--|
| <ul style="list-style-type: none"> Written in the following order: (Author - Year of publication - Title - Edition - Place of publication - Publisher). | |
| 1- Required Textbook(s) (maximum two). | |
| | Variable |
| 2- Essential References. | |
| | <ol style="list-style-type: none"> Hulley S. B., Cummings S. R., Browner W. S., et al. (2013). Designing Clinical Research. Fifth Edition. Pennsylvania, USA: Lippincott Williams & Wilkins. Friedman L. M., Furberg C.D., DeMets, D. L., (2010). Fundamentals of Clinical Trials. Fifth edition. New York, USA. Springer. |
| 3- Electronic Materials and Web Sites etc. | |
| | Selected Journal articles depending on the project |

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| VIII. Course Policies: | |
|------------------------|--|
| 1 | <p>General Requirements:</p> <ul style="list-style-type: none">❖ Each student is assigned to do an practical based research supervised by a supervisor of the department teaching staff or outside the college. <p>➤ The title of research can be suggested by :</p> <ul style="list-style-type: none">• The supervisor• Or the students after supervisor evaluation and acceptance <p>➤ The research subject must be approved by the college and the department of the university then by the setting of practicing research.</p> <p>➤ The research is to be carried out with the period of framework and must be delivered to the department within that period.</p> |
| 2 | <p>Course Attendance: Attendance is mandatory.</p> |
| 3 | <p>Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of preparing the research set by the Department, Faculty and University Administration.</p> |

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