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| Faculty: Pharmacy | |
| Department: Pharmaceutical Sciences | Program: MSc. |
| Semester: 1st | Academic year: 2021-2022 |

Course Plan

First: Course Information

| | | |
|-------------------------------|--|---|
| <i>Course Number:</i> 1101707 | <i>Course Name:</i> Research Projects in Pharmaceutical Sciences | <i>Credit Hours:</i> 1 |
| <i>Prerequisite:</i> None | <i>Section Number:</i> 1 | <i>Lecture Time:</i> 6:30-7:30 pm (Wed) |
| <i>Course Nature:</i> | <input type="checkbox"/> <i>University Obligatory Requirements</i> <input type="checkbox"/> <i>Faculties Obligatory Requirements</i> <input type="checkbox"/> <i>Department Obligatory Requirements</i> <input type="checkbox"/> <i>Department Elective Requirements</i> <input checked="" type="checkbox"/> <i>Specialization Elective Requirements</i> | |
| <i>Type of Education:</i> | <input type="checkbox"/> <i>Fully Direct (fully Face-to-Face Education)</i> <input type="checkbox"/> <i>Blended Learning (2 Face-to-Face + 1Asynchronous)</i> <input checked="" type="checkbox"/> <i>Fully Electronic Education (2 Synchronous + 1 Asynchronous)</i> | |

Second: Instructor's Information

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|-------------------------------------|---|-----------------------------------|
| <i>Name:</i> Dr. Mohammed Abu Assab | <i>Academic Rank:</i> Assistant Professor | |
| <i>Office Number:</i> 225 D | <i>Phone Number:</i> 1447 | <i>Email:</i> mabuassab@zu.edu.jo |
| <i>Office Hours:</i> | Sunday, Tuesday, Thursday: 12-1 pm Monday: ____ Wednesday: 3:30 – 4:30 pm | |

Third: Short Description of the Course

Individual (or group) research under the direction of faculty member (s) and committee leading to preparation, completion, and oral defense of a research project.

Fourth: Learning Source

| | | |
|---|---|-----------------|
| Designated Book: | Not Applicable (NA) | |
| Author: NA | Print: NA | Year: NA |
| Additional Sources: Website: | Videos, demonstrations | |
| Teaching Type: | <input checked="" type="checkbox"/> Classroom <input type="checkbox"/> Laboratory <input checked="" type="checkbox"/> Workshop <input type="checkbox"/> MS Teams Moodle <input checked="" type="checkbox"/> | |

Fifth: Learning Outcomes

| Number | Course learning output | Associated Program Outcome Code |
|--------------------|---|---------------------------------|
| Knowledge | | |
| *K1 | To learn updated research methods to find research ideas, articles and projects. | **P.K1 |
| K2 | To integrate and to apply knowledge and understanding of scientific research in pharmaceutical research projects. | P.K2 |
| Skills | | |
| *S1 | To play his/her role effectively either as independent researchers or within research teams. | **P.S1 |
| S2 | To actively participate and to engage as a researcher with colleagues and to demonstrate mutual respect, understanding, and values of others. | P.S2 |
| S3 | To effectively communicate when interacting with others in various settings. | P.S3 |
| Competences | | |
| *C1 | To be able to read, write, understand, interpret and criticize research articles. | **P.C1 |
| C2 | To suggest ideas and write research proposals in the assigned area of pharmaceutical sciences. | P.C2 |
| C3 | To engage in innovative activities by using creative thinking to envision better ways of accomplishing professional goals. | P.C3 |

*K: knowledge,

** P.K: Program Learning Outcome Knowledge,

P.C: Program Learning Outcome Competence.

S: skills,

P.S: Program Learning Outcome Skill,

C: competencies.

Sixth: Course Structure

| Lecture Date | Learning Outcome | Topics | *Learning Procedures | ***Teaching Methods | ***References |
|----------------|--------------------------------|--|----------------------|---------------------|---------------|
| Wed 20/10/2021 | K1 | Introduction, Review outline and course objectives | synchronous | Lecture | NA |
| Wed 27/10/2021 | K1, C2 | Suggesting and gathering research ideas | synchronous | Lecture | NA |
| Wed 3/11/2021 | K1, K2, C1, C2 | Hosting faculty members (directors) | synchronous | Lecture | NA |
| Wed 10/11/2021 | K1, K2, S1, S2, C1, C2 | Referral to faculty members, discuss and decide projects | synchronous | Lecture | NA |
| Wed 17/11/2021 | K1, K2, S1, S2, S3, C1, C2, C3 | Presenting Progress report No 1 and discussion | synchronous | Lecture | NA |
| Wed 24/11/2021 | K1, K2, S1, S2, S3, C1, C2, C3 | Presenting Progress report No 2 and discussion | synchronous | Lecture | NA |
| Wed 1/12/2021 | K1, K2, S1, S2, S3, C1, C2, C3 | Presenting Progress report No 3 and discussion | synchronous | Lecture | NA |
| Wed 8/12/2021 | K1, K2, S1, S2, S3, C1, C2, C3 | Presenting Progress report No 4 and discussion | synchronous | Lecture | NA |
| Wed 15/12/2021 | K1, K2, S1, S2, S3, C1, C2, C3 | Presenting Progress report No 5 and discussion | synchronous | Lecture | NA |
| Wed 22/12/2021 | K1, K2, S1, S2, S3, C1, C2, C3 | Presenting Progress report No 6 and discussion | synchronous | Lecture | NA |
| Wed 29/12/2021 | K1, K2, S1, S2, S3, C1, C2, C3 | Presenting Progress report No 7 and discussion | synchronous | Lecture | NA |
| Wed 5/1/2022 | K1, K2, S1, S2, S3, C1, C2, C3 | Presenting Progress report No 8 and discussion | synchronous | Lecture | NA |
| Wed 12/1/2022 | K1, K2, S1, S2, S3, C1, C2, C3 | Delivery and defense of final project proposal | synchronous | Lecture | NA |
| Wed 19/1/2022 | K1, K2, S1, S2, S3, C1, C2, C3 | Delivery and defense of final project proposal | synchronous | Lecture | NA |
| Sun 23/1/2022 | | Final Exams | | | |

Learning procedures: (Direct, synchronous, asynchronous).

*** Reference: (Pages of the book, recorded lecture, video....).

* * Teaching methods: (Lecture, video.....).

Seventh: Assessment methods

| Methods | Fully Electronic Education | Integrated Teaching | Direct Teaching | Material Output to be measured |
|-----------------------|----------------------------|---------------------|-----------------|------------------------------------|
| First Exam | 0 | 0 | 0 | |
| Second Exam | 0 | 0 | 0 | |
| Mid-term Exam | 0 | 0 | 30 | K1, K2, C1,C2 |
| Participation | 0 | 0 | 30 | K1, K2, S1,S2,S3, C1, C2,C3 |
| Asynchronous Meetings | 0 | 0 | 0 | |
| Final Exam | 0 | 0 | 60 | K1, K2, S1,S2,S3, C1, C2, 3 |

Eighth: Course Polices

- Meeting the deadline for the lecture.
- Commitment to interaction and participation.
- Interactive lectures will be given through a platform (MS Teams).
- Duties and tests will be given through a platform (Moodle).
- Commitment to the right appearance in front of the camera with the proper background.
- University regulations for attendance and absence from lectures and examinations are in force.
- Academic Integrity: Fraud or moral impersonation are unacceptable and are punishable according to university regulations and instructions.

| Approval | Name | Date | Signature |
|--------------------|---------------------|------|-----------|
| Head of Department | Dr. Farah Al-Mamory | | |
| Faculty Dean | Dr. Ahlam Al-Kelani | | |