

## Course Overview

### Graduation Project

<b>Course code :</b>	<b>GMT 802</b>
<b>Course title:</b>	<b>Graduation Project</b>
<b>Level/semester:</b>	<b>Eighth Semester</b>
<b>PRECEDING COURSES</b>	-
<b>Credit hours: 4</b>	<b>Theoretical: 2</b>
	<b>Practical: 10</b>

#### **Overview:**

This course is offered to the students of 4<sup>th</sup> year. The course is of 10 credit hours and completed in two semesters; each semester is of 15 weeks duration.

In the first semester, students select their research projects and start working on it under the guidance of their supervisor(s). During the first semester students spend substantial time to obtain relevant information through literature search. They also start collecting the required samples and performing practical research work.

Students take series of lectures on research methodology. Each lecture is of two hours duration per week that also includes an introduction on research ethics on humans and animals and the process of obtaining ethical approval. The practical research work is continued in the second semester. They obtain desired data and perform its analysis. Simultaneously, students write the different chapters of their thesis under the guidance of supervisor(s). At the end of second semester, students need to submit their thesis for final oral examination.

Students are also trained for preparation of their presentation for final examination and do rehearsal before examination. Finally, each group of students are asked to prepare their research work to be presented at the annual University Student Conference for the preparation for the annual National Student Conference set by the Ministry of Higher Education and other national scientific conferences.

#### **Course Objectives:**

**By the end of this course, students will be able to:**

1. *Recognize* the importance of research in biomedical field.
2. *Familiar* with research ethics and the general process of obtaining ethical approval for their study if applicable.

3. *Recognize* the importance of literature search and various resources and methods to acquire desired information for their research.
4. *Differentiate* various types of study designs, sampling methods and choose appropriate techniques required to achieve the objectives of their research.
5. *Define* several data collection and data analysis methods including biostatistical methods.
6. *Perform* experimental research work, collect data and analyse data.
7. *Interpret* the results of their research in logical manner.
8. *Choose* different formats of presentation of research results for thesis and oral presentation.
9. *Develop* scientific writing skills and use department research guidelines for preparing, formatting and submission of a thesis.
10. *Demonstrate* skills in preparation of research presentation for final examination and discussion.

طريقة التقييم الطالب : حسب نماذج تقييم مشروع التخرج