

# LIBYAN INTERNATIONAL MEDICAL UNIVERSITY

Form Name : Course Catalogue

Revision No. :01/2021

Form No. : QAO-OP.17

Page :1 of 3

## Basic information:

Program on which the Course is offered	PharmD
Qualification Awarded	Bachelor of Pharmacy (BPharmD)
Course title - Code - Year	Calculus– 3107– First Year
Course Type	Foundational Stage
Total contact Hours / week [3 hrs.]	(Lectures: 2, Tutorial: 1)
ECTS Hours	1
Pre-requisites for this Course	Mathematics in secondary school.
Week period	10

## Course Description:

Elementary calculus course introduces students to the basic concepts and topics related to mathematics. This course covers, the definition and applications of derivatives, rules for differentiation and definition and applications of the integral.

## Course Objectives:

### By the end of this Course/Subject the student should be able to:

- Learn basic mathematics related to real numbers, and its properties, operations on fractions, powers, decimals, Percentage.
- Know the concept of functions, elementary functions and their properties: linear, quadratic, trigonometric exponential and logarithmic functions.
- Understand the definition of derivative, and the derivatives using the rules of the differentiation.
- Understand the concept of integral and use the basic techniques of integration to compute integrals.
- Apply integrals in solving some geometric problems.
- Understand the relationship between the integral and derivative.

## Learning and Teaching Methods, & Assessment Methods

### Learning and teaching methods:

- Lectures.
- Assignments.
- Activities

### Assessment methods:

- **Continuous assessment:**
  - Attendance
  - Quizzes
  - Assignments
  - Assessments

# LIBYAN INTERNATIONAL MEDICAL UNIVERSITY

Form Name : Course Catalogue

Revision No. :01/2021

Form No. : QAO-OP.17

Page :2 of 3

- **Final assessment:**
  - Theoretical

## Weighting of Assessment:

Assessment	%
• Attendance	10 %
• Assessments	30 %
• Activities	20 %
• Final Exam	40 %
<b>Total</b>	<b>100%</b>

## Assessment Schedule:

Assessment	Week
• Assessment 1(Written Exam)	Week 4
• Assessment 2(written Exam)	Week 8
• Activities	Every week
• Final Exam	According to the Announced Academic Agenda

## Examination Regulations:

- If the student absenteeism is more than 25 % he/she cannot attempt the final exam.
- The total required percentage to pass this course is at least 50 %

## List of textbooks and references:

### Course Notes:

- PowerPoint presentations, videos and other materials related to lectures are uploaded to the Moodle by experts on weekly basis according to the teaching schedules.

### Essential Books (Text Books):

- Krantz S. G. 2003. *Calculus demystified*. McGraw- Hill. USA.
- Khan M. A. and Reddy I. K. 2005. *Essential math and calculations for pharmacy technicians*. CRC press.
- Keisler H. J.2005. *Elementary calculus: An infinitesimal approach*. Second edition.

## Block Policies:

### **Code of Ethics**

Please refer to the below LIMU code of ethics

<http://limu.edu.ly/images/11/ethcode.pdf>

## LIBYAN INTERNATIONAL MEDICAL UNIVERSITY

**Form Name** : Course Catalogue

**Revision No.** :01/2021

**Form No.** : QAO-OP.17

**Page** :3 of 3

### **Code of Conduct**

Please refer to the below PharmD program code of conduct

<http://repository.limu.edu.ly/handle/123456789/2135>

### **Academic integrity**

Please be aware that cheating, plagiarism, in-class disruption and dishonesty are vigorously prosecuted and that LIMU has a zero-tolerance policy.