

LIBYAN INTERNATIONAL MEDICAL UNIVERSITY

Form Name : Block Catalogue

Revision No. :01/2020

Form No. : QAO-OP.17

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Basic information:

Program on which the Block is offered	PharmD
Qualification Awarded	BPharmD
Block title - Code - Year	General Basic Sciences – 3103– Foundational Year I
Block Type	Foundational
Total contact Hours / week [33 hrs.]	(Lectures: 7, Lab: 4, Tutorials: 3, Seminars: 2, PBL: 9, Self-study: 6, Exams: 2)
ECTS Hours	12
Pre-requisites for this Block	Fundamentals of Analytical Chemistry, Pharmaceutics, Organic Chemistry, and English Language.
Week period	6

Block Description:

This block outlines fundamental principles of human physiology, anatomy and histology of different body systems, organs & tissues. This block also deals with nomenclature, stereochemistry, physical & chemical properties of heterocyclic compound. This block also covers main microbiological concepts & principles in addition to practicing different titration methods. Problem-based learning strategies are used for this block delivery.

Block Objectives:

By the end of this Block the student should be able to:

- Explain concepts of stereochemistry.
- Discuss nitrogen containing compounds and heterocyclic compounds regarding their nomenclature, properties, preparation and chemical reaction mechanisms.
- Recognize and practice different methods of drug analysis (acid –base titration of aqueous and non- aqueous solvents).
- Explain the physiological principles of muscles, blood and respiratory systems.
- Discuss the anatomical structure of muscles, skeleton, cartilage, reproductive and respiratory systems.
- Differentiate the histological structure of the human body cells, tissues, organs and systems.
- Discuss the aerosol dosage forms.
- Discuss the general concepts of microbiology.
- Discuss the different biochemical aspects of proteins, lipids, hemoglobin and carbohydrates.
- Apply the roles of biochemistry in medical sciences.
- Develop skills of observation and critical reading.
- Analyze, interpret, and evaluate data from various sources.

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Learning and Teaching Methods, & Assessment Methods

Learning and Teaching Methods:

- Problem-Based Learning (PBL)
- Lectures
- Tutorials
- Practice in lab
- Independent study assignments
- Presentations
- Seminars

Assessment methods:

- **Continuous assessment:**
 - Problem Based Learning sessions (Brain-storming/Debriefing)
 - Reports
 - Report Discussion
 - Individual reassurance test (IRAT): MCQs
 - Group reassurance test (GRAT): MCQs
 - Presentations (oral/ poster)
 - Practice in lab
 - Open-book/open-web exam
- **End-Block exam:**
 - Written
- **Final-Block exam:**
 - Written
 - Objective structured practical examination (OSPE)

Weighting of Assessment:

Continuous assessment:	60%
• PBL sessions	• 30%
• Practical sessions	• 10%
• Other Activities (Tutorial/Seminar/Assignments/Moodle Activities)	• 10%
• Mid-block Exam	• 5%
• End-block exam	• 5%
Final Exam:	40%
• Written	• 30%
• OSPE	• 10%
Total:	100%
Assessment Schedule:	
Continuous assessment:	During the block

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• PBL sessions	Weeks 1-6
• Practical sessions	Weeks 1-6
• Other Activities (Tutorial/Seminar/Assignments/Moodle Activities)	Weeks 1-6
• Mid-block exam	Week 3
• End-block exam	At the end of the block
Final exam:	At the end of the year
• Written	At the end of the year
• OSPE	At the end of the block

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 60 %

List of textbooks and references:

- **Course Notes:**
 - PowerPoint presentations, videos and other materials related to lectures, tutorials and practical sessions are uploaded to the Moodle by experts on weekly basis according to teaching schedule.
- **Essential Books (Text Books):**
 - Christian,G., Dasgupta, P., Schug, K.(2014) Analytical Chemistry. 7th edition. Wiley, USA.
 - Costanzo L. S. (2011) BRS Physiology. 5TH edition. Lippincott Williams & Wilkin.
 - Drake, R. L. Vogl, A.W. (2015) Gray's Anatomy. Churchill Livingstone, Elsevier.
 - Fisher B. D., Nau Cornelissen C., Harvey R. A. (2013) Lippincott's Illustrated Reviews: Microbiology. 3rd Edition. Lippincott Williams & Wilkins.
 - Hall J. E. (2011) Guyton and Hall Textbook of Medical Physiology.12th edition. Saunders, an imprint of Elsevier In.
 - Harvey, R.A., Ferrier, D. R. Lippincott's illustrated Reviews Biochemistry. 3rd edition. Lippincott Williams & Wilkins.
 - Jeffery, G.H., Bassett, J., Mendham, J, Denney, R. C. (1989) Vogel's Textbook of Quantitative Chemical Analysis. 5th edition. Lngman scientific and technical.
 - Junqueira L.C., Carneiro J., Kelly, R. *Basic Histology*. 11th edition.
 - Kumar, S. (2016) Essentials of Microbiology. 1st edition. Jaypee Brothers Medical Publishers (P) Ltd.
 - Mescher, A. L. (2013) Junqueira's Basic Histology text and atlas, 13th edition. McGraw-Hill Education.
 - Miller, S., Karen C. Carroll, Morse, S.A., Meitzner, T.A. (2013) Jawetz, Melnick, & Adelberg's Medical Microbiology. Twenty-Seventh Edition. McGraw-Hill Education.

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- Murraray, R.A., Radwell, V.W., Granner, D. K., Mayes, P. A. (2003) Harper's Illustrated Biochemistry. 26th edition. Mcgraw Hills companies.
- Peckham, M. (2011) Histology at a Glance.1ST edition. Wiley Blackwell.
- RYAN K. J., RAY C. G. (2014) Sherris Medical Microbiology. 6th Edition. McGraw-Hill Education.
- Satyajit D. Sarker, Lutfun Nahar. (2007) Chemistry for Pharmacy Students General, Organic and Natural Product Chemistry, UK: John Wiley & Son, Ltd.

- **Periodicals and websites:**

- Sarker, S. D., & Nahar, L. (2013). Chemistry for Pharmacy Students: General, Organic, and Natural Product Chemistry. Chemistry for Pharmacy Students: General, Organic, and Natural Product Chemistry. <http://doi.org/10.1002/9781118687529>.

Block Policies:

Code of conduct

Please refer to LIMU code of ethics <http://limu.edu.ly/images/11/ethcode.pdf>

Academic integrity

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