

LIBYAN INTERNATIONAL MEDICAL UNIVERSITY

Form Name : Block Catalogue

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Basic information:

Program on which the Block is offered	PharmD
Qualification Awarded	BPharmD
Block title - Code - Year	Hospital Pharmacy– 3405– Professional Year II
Block Type	Professional
Total contact Hours / week [50 hrs.]	(Clinical Skills Session: 2, Tutorials: 3, TBL: 6, Field Visits: 1, Self-study: 36, Exams: 2)
ECTS Hours	16
Pre-requisites for this Block	Fundamentals of Clinical Pharmacology, Therapeutics, Pharmaceutical Calculation, and Drug Formulation/Drug Delivery.
Week period	8

Block Description:

This block introduces students to hospital pharmacy practice and the pharmacist & pharmacy technician's role in providing pharmacy services. Topics include policies and procedures, drug distribution systems, record keeping, sterile compounding, first aid, drug chain management & health care economics. Course also Focuses on patient nutrition/ fluid/ electrolyte requirements. Team-based learning strategies are utilized in this block to assist in combining clinical expertise, patient characteristics and medical evidence for clinical decision-making.

Block Objectives:

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

- Provide proper health care services to patients.
- Demonstrate comprehensive knowledge, clear understanding and essential skills in Pharmaceutical, medical, clinical, social, management, and health sciences.
- Attain multi-disciplinary professional skills required for pursuing their careers.
- Be critical thinkers and decision and policy makers.
- Be a self- and life-long learner.
- Communicate effectively with patients and caregivers.
- Function as key members with interprofessional teams working to optimize patient health outcomes.
- Demonstrate ethical behaviors and adhere to professional rules and legal requirements.

Learning and Teaching Methods, & Assessment Methods

Learning and Teaching Methods:

- Team-Based Learning (TBL)
- Tutorials

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- Self-learning
- Clinical teaching: Clinical skills lab, Simulation and Field trips.

Assessment methods:

- **Continuous assessment:**
 - Assignment
 - Individual reassurance test (IRAT): MCQs
 - Group reassurance test (GRAT): MCQs
 - Problem solving (mini cases)
 - Clinical sessions
 - Open-book/open-web exam
 - Mid-block exam (MCQs, problem solving, short notes)
- **End-Block exam:**
 - Written
- **Final-Block exam:**
 - Written
 - Objective structured clinical examination (OSCE)

Weighting of Assessment:

Continuous assessment:	70%
• TBL sessions	• 35%
• Clinical sessions and Assignments	• 20%
• Mid-block exam	• 5%
• End-block exam	• 10%
Final Exam:	30%
• Written	• 20%
• OSCE	• 10%
Total:	100%

Assessment Schedule:

Continuous assessment:	During the block
• TBL sessions	Weeks 1-8
• Clinical sessions	Weeks 1-8
• Assignments	Weeks 3, 5 & 6
• Mid-block exam	Week 4
• End-block exam	At the end of the block
Final exam:	At the end of the year
• Written	At the end of the year
• OSCE	At the end of the year

Examination Regulations:

- If the student absenteeism is more than 25 % he/she cannot attempt the final exam.

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- 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.
- First Aid Manual for PharmD Students

- **Essential Books(Text Books):**

- The Supply Chain Manager's Handbook, a Practical Guide to the Management of Health Commodities, 2017, John Snow, Inc.
- Understanding nutrition Whitney, E., Rolfes, S.R., Crowe, T., Cameron-Smith, D., Walsh, 3rd edn, Cengage Learning, 2017.
- Oxford Handbook of Nutrition and Dietetics, Joan W G, Angela M, and Michelle H. 2nd edn, Oxford University Press, Inc., New York. 2012.
- Clinical Nutrition in Practice, Nikolaos Katsilambros et al., (Editors), John Wiley & Sons, Jun 9, 2011.
- Basics of Clinical Nutrition, Y. K. Joshi, Joshi, (Editors), Jaypee Brothers Publishers, Nov 30, 2008.
- Health: Systems – Lifestyle – Policies Jacobs Verlag, Forum for Public Health in South Eastern Europe
- A Handbook for Teachers, Researchers and Health Professionals (2nd edition) Volume I.
- Objectives, C. (n.d.). Sterile and Nonsterile Compounding.
- Kastango, E. S. (2016). USP 797-US Sterile Compounding Standard.
- Xavier Martinez-Giralt. (2008). Principles of Health Economics for non-economists.
- Bioethics Core Curriculum, Section 1. (2008). UNESCO.
- Bioethics Core Curriculum, Section 2. (2011). UNESCO.
- Bruce Berger Communication Skills for Pharmacists: Building Relationships, Improving Patient Care. American Pharmacists Association 3rd Edition

- **Recommended Books:**

- Williams' Basic Nutrition & Diet therapy, Staci Nix MS, 12th ed., Elsevier, India. 2012.
- Nutrition :Applied approach, Thompson J, Manore M, 1st ed., Daryl Fax San Francisco Boston New York, 2005.
- Health Planning and Management For Health Extension Workers
- Ethiopian Hospital Management Initiative FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA MINISTRY OF HEALTH Chapter 10: Pharmacy Service Version 1.0 August, 2017 (page 3)
- Inventory Management in Pharmacy Practice: A Review of Literature, volume 2, journal = {Journal of Pharmacy Practice} page: 151-153

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- Purchasing and inventory management by pharmacist of a private hospital in northeast of thailand, International Journal of Pharmacy and Pharmaceutical Sciences, ISSN- 0975-1491 Vol 6, Issue 5, 2014
- Drug and Therapeutics Committee Training Course—Participants’ Guide
- Medication Use Quality Committee Cross Index: : SHR Region-Wide Policies & Procedures Manual- # 7311-60-020 High Alert Medications - Identification, Double Check and Labeling; #7311-60-004 Ordering of Medications
- Ensuring good dispensing practice chapter 30 (30.6)
- Guideline for Repackaging and Labelling of Medicines, MCA-GL-101, Version 1.0, 13 December 2017
- Controlled Drugs and Substances in Hospitals and Healthcare Facilities: Guidelines on Secure Management and Diversion Prevention
- Akande, T. M., Olubiyi, K. S., & Adebajo, A. (2007). Health Economics. National Open University of Nigeria.
- Arnold, R.A. (2011). Principles of Economics (10th ed.). China: South-Western, Cengage Learning.
- Bunker, J.P. (2001). The role of medical care in contributing to health improvements within societies. International journal of epidemiology, 30(6), pp.1260-1263.
- Conover, C.J., 2004. Health care regulation. Policy Analysis, 527.
- Cooper, Z., Gibbons, S., Jones, S. and McGuire, A., 2012. Does competition improve public hospitals’ efficiency?: evidence from a quasi-experiment in the English National Health Service.
- Dewar, D.M., 2017. Essentials of health economics. Jones & Bartlett Publishers
- Greaney, T.L., 2008. Economic Regulation of Physicians: A Behavioral Economics Perspective. Louis ULJ, 53, p.1189.
- Guinness, L., & Wiseman, V. (2011). Introduction to health economics. McGraw-Hill Education (UK).
- Health Economics and Policy, 2nd Edition. James W. Henderson. (Cincinnati, OH: South-western, 2002).
- Himanshu SR, Narayana CN. Health and health economics a conceptual frame work, “Health Economics in India” edited by Himanshu Sekhar Rout and Prasant Kumar Panda, New Century Publications, New Delhi, 2007, pp. 13-29.
- Jack, W. (1999). The demand for health care services. Principles of health economics for developing countries. Washington: The World Bank, 55-90.
- Mills, A. and Gilson, L., 1988. Health economics for developing countries: a survival kit.
- Mills, A., Improving the Efficiency of Public Sector Health Services in Developing Countries: Bureaucratic versus Market Approaches.
- Mutter, R.L., Wong, H.S. and Goldfarb, M.G., 2008. The effects of hospital competition on inpatient quality of care. INQUIRY: The Journal of Health Care Organization, Provision, and Financing, 45(3), pp.263-279.

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- OECD/Eurostat/World Health Organization (2017), "Classification of Health Care Providers (ICHA-HP)", in *A System of Health Accounts 2011: Revised edition*, OECD Publishing, Paris.
- Pauly M (1988) Is medical care different? in Greenberg W (ed) *Competition in the health care sector: ten years later*. Durham, NC: Duke University Press
- Samuelson, P.A. and W. D. Nordhaus (2000): *Economics*, McGraw-Hill, New York.
- Scott, G., 2016. *Health economics for health professionals: An Aotearoa/New Zealand perspective*. Massey University.
- Wonderling, D., 2011. *Introduction to health economics*. McGraw-Hill Education (UK).
- **Periodicals and websites:**
 - www. Appliednutrition.com
 - www. skillyouneed.com
 - <https://www.semanticscholar.org/paper/Part-1-Introduction-to-Health-Policy-and-Systems-Gilson/d8b314bcd46eec38e8287f3539411cf6d2c2f56b>
 - https://www.who.int/healthinfo/country_monitoring_evaluation/who-hmn-framework-standards-chi.pdf
 - https://www.who.int/healthinfo/statistics/toolkit_hss/EN_PDF_Toolkit_HSS_InformationSystems.pdf
 - <https://www.semanticscholar.org/paper/Health-Planning-and-Management-For-Health-Extension-Jira-Feleke/0446960744ea98a4ec8d1df8d36b14a980ffc375>
 - http://www.unam.edu.na/sites/default/files/cpd-regional1/cpd_me_framework.pdf
 - [1-https://www.usaid.gov/documents/1864/child-survival-and-health-grants-program-cshgp](https://www.usaid.gov/documents/1864/child-survival-and-health-grants-program-cshgp)
 - [2.https://www.healthpolicyproject.com/pubs/225_ManualDistrictBlockManagers.pdf](https://www.healthpolicyproject.com/pubs/225_ManualDistrictBlockManagers.pdf)
 - [3.https://www.researchgate.net/publication/47798100_Analysing_Health_Systems_to_make_them_stronger](https://www.researchgate.net/publication/47798100_Analysing_Health_Systems_to_make_them_stronger)
 - <https://www.msh.org/sites/msh.org/files/mds3-ch45-hospitalpharmacymgmt-mar2012.pdf>
 - [*The Advantages & Disadvantages Of Automated Machines Used To Administer Medicine By Shevlin Smith | January 07, 2016*](#)
 - [*World Health Organization, WHO Technical Report Series, No. 902, 2002Annex 9, Guidelines on packaging for pharmaceutical products \(Page 120-121\)*](#)
 - Kelley E, Hurst J. *Health Care Quality Indicators Project conceptual framework paper*. Paris, Organisation for Economic Co-operation and Development, 2006 (OECD Health Care

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- WHO. Health service delivery. 2010. Available from:www.who.int/healthinfo/systems/WHO_MBHSS_2010_section1_web.pdf [Access in March 6, 2020].

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.