

**Special Courses of Master Degree in Pharmaceutical
Sciences
Pharmacy Practice Department**

- 1-General Courses :(0600700) (12 cr. h)
2- Specialized Courses: (12 cr. h)

First Semester (6 cr. h)

No.	Course code	Courses	Credit hours	
			L	P
1	0602701	Advanced Pharmacotherapeutics I	3	--
2	0609701	Clinical Research	2	--
3		Elective Course	1	--
Total			6	

Second Semester (6 cr. h)

No.	Course code	Courses	Credit hours	
			L	P
4	0609702	Health Informatics and Management	3	--
5	0609703	Supply Chain Management	2	--
6		Elective Course	1	--
Total			6	

Elective Courses

No.	Course code	Courses	Credit hours	
			L	P
1	0609704	Social, Behavioral and Administrative Pharmacy	1	--
2	0609705	Applied Statistics for Biomedical Research	1	--
3	0609706	Communication Skills	1	--

**Course Description of Master Degree in Pharmaceutical
Sciences**
Pharmacy Practice Department

First Semester (6 cr. h)

Course Name	Credit hours		Code No.
	L	P	
Clinical Research	2	--	0609701
<p>Description: The course will introduce the students to the principles and ethics of clinical research based on adequate awareness of the prevailing health policies and the economic, social and cultural context of the population. The course will enable students to critically evaluate and apply knowledge for products and processes in prevention, diagnosis, prognosis, treatment and cure of diseases in humans to improve the health of patients. The principles, methodologies, ethics, guidelines and critical evaluation of the main types of clinical research will be covered. These include: a) Patient-oriented research which involves the mechanisms of human diseases, effects of drug therapies and other interventions and the use of technologies and devices in humans; b) Epidemiological and behavioral research which relates to the distribution of and factors associated with diseases, health behavior, and health in general and c) Health services research which evaluates the effectiveness and efficiency of treatment, interventions and services in real-world practice to improve the quality of pharmaceutical care.</p> <ul style="list-style-type: none"> • http://www.imu.edu.my/imu/programmes/postgraduate/master-in-pharmacy-practice/ 			

Second Semester (6 cr. h)

Course Name	Credit hours		Code No.
	L	P	
Health Informatics and Management	3	--	0609702
<p>Description: The course will introduce students to information and information technology (IT) concepts for improving the quality and efficiency of healthcare and health reforms. The health informatics course will allow students to combine medical knowledge with engineering, informatics and communication for collecting, storing and analyzing medical information in a digital format. This will qualify pharmacists to manage electronic records of patients, explore patient data to identify trends in disease and treatment and to keep up-to-date with the latest IT-based innovations in healthcare. In addition, the course will enable pharmacists to gain an in-depth understanding of the healthcare industry, information system design and networking, optimization of access to information and to develop strong strategic planning and management abilities. Topics covered include mainly: basics of healthcare informatics, administrative and clinical software applications, healthcare systems acquisition, electronic health records, change management and organizational behaviour, healthcare information exchanges, and evidence based medicine.</p> <ul style="list-style-type: none"> • https://potomac.edu/degree-programs/graduate/master-science-healthcare-informatics-degree/ 			

Course Name	Credit hours		Code No.
	L	P	
Supply Chain Management	2	--	0609703
<p>Description: The course will provide students with a better understanding of the principles, regulations and legislation specifically underlying Supply Chain Management (SCM) and emphasize the role of pharmacists in increasing the efficacy and quality of pharmaceutical supply chains. The course will enable students to further acquire requisite skills in public finance management and administration. Topics including SCM principles, systems and resources and how to secure and manage supplier contracts will be covered. Information on the elements of SCM in Egypt; including demand, procurement (acquisition), logistics, disposal, performance management, guidelines to the legislative framework and policies of the Ministry of Health and Population will be provided</p> <ul style="list-style-type: none"> • http://www.guc.edu.eg/en/academic_programs/faculties/faculty_details.aspx 			

Elective Courses

Course Name	Credit hours		Code No.
	L	P	
Social, Behavioral and Administrative Pharmacy	1	--	0609704
<p>Description: The course introduces students to the study of the social, psychosocial, political, legal, historic, and economic factors that impinge upon the perception of health and the use, non-use and abuse of drugs. It will also introduce students to pharmacy administration as a multidisciplinary field which applies principles and theories from epidemiology, education, economics, mass communication, psychology, sociology, and management sciences to address health care problems at both the individual patient and population level. Students will learn to dispense medications, provide medication-related information and manage disease states within a population-based public health framework. They will be also given the opportunity to expand their knowledge and skills to develop their public health role in health promotion and disease prevention. This will be achieved by giving examples of pharmacists' involvement in public health issues such as smoking cessation, weight management, travel, sexual, mental and women's health in addition to educating and assisting patients to manage diseases such as diabetes and medications including self-medication and possible drug interactions.</p> <ul style="list-style-type: none"> • http://www.imu.edu.my/imu/programmes/postgraduate/master-in-pharmacy-practice/ 			

Course Name	Credit hours		Code No.
	L	P	
Applied Statistics for Biomedical Research	1	--	0609705
<p>Description: The course will cover selected important topics in biostatistical concepts and reasoning and survey of data and data types arising in public health and clinical studies. Specific topics include tools for describing central tendency and variability in data; methods for performing inference on population means and proportions via sample data; statistical hypothesis testing and its application to group comparisons; issues of power and sample size in study designs; and random sample and other study types. Students will be able to describe different kinds of studies, understand confounding and interaction in studies and use of SPSS package for different hypothesis testing procedures.</p> <ul style="list-style-type: none"> • https://minicourses.ucsf.edu/bms-270-applied-statistics-biomedical-research-2017 			

Course Name	Credit hours		Code No.
	L	P	
Communication Skills	1	--	0609706
<p>Description: This course is designed to teach strategies pharmacists can use to communicate more effectively and build more positive relationships with patients and other health care providers. As health care is currently undergoing a shift to more patient-centered models of care whereby patients are actively involved in making decisions about treatments, pharmacists/patient. Interpersonal communication skills must be strengthened systematically. The course will expand the students' knowledge of the different types of pharmacist / patient professional relationships, the evaluation, and selection of appropriate communication theories to apply to different patient counseling scenarios, the conduction of patient interviews, and empathic response to patient concerns within the framework of shared decision-making. The course will enable students to recognize the emotional/psychological aspects of illness that patients often experience and to examine and criticize their own communication to improve therapeutic outcomes.</p> <ul style="list-style-type: none"> • http://file.cop.ufl.edu/studaff/syllabi/PHA%205742C%20Syllabus.pdf • http://www.marshall.edu/pharmacy/files/FA14_PHAR_622_Drug_Information_and_Communication_Skills_Syllabus.pdf 			