

Pharmacovigilance & Regulatory Affairs Diploma (29 Cr. h)

Professional Diplome

First semester (15 Cr. h)

No.	Course code	Courses	L	Р		
1	0601632	Pharmacovigilance –I	3	1		
2	0609601	Pharmacoepidemiology	2	-		
3	0609602	Pharmacotherapy	3	2		
4	0609603	Adverse drug reactions and drug interactions		-		
5	5 0601633 Ethics and regulations					
	Total credit hours					

*1 credit hour practical is 2 hours session weekly

Second semester (14 Cr. h)

No.	Course code	Courses	L	Р
6	0601634	Pharmacovigilance –II	3	1
7	0601635 Biostatistics		2	2
8	0601636	0601636 Capstone Project		3
9	0 0609604 Evidence based medicine		2	-
10		Elective course	1	-
	Total credit hours			

Elective courses

No.	Course code	Courses	L	Р
1	0609605	Pharmacovigilance of special products	1	-
2	0609606	Care of special populations	1	-



Course Description

First semester (15 Cr. h)

Course Name	Teach h/wee	0	Credit	Code No.	
	L	Р	hours		
Pharmacovigilance –I	3	1	4	0601632	
Description: The course aims to pro-	ovide basic	knowl	edge of prin	nciples for good	
pharmacovigilance practice, highlight	ing the criti	ical requ	uirement for	the spontaneous	
reporting of adverse drug events, to en	sure drug a	nd patie	ent safety. It o	demonstrates the	
different reporting forms including	Individual	Case S	Safety Repor	ts (ICSRs) and	
CIOMS forms, the proper application of	of MedDRA	A (Medi	cal Dictionar	y for Regulatory	
Activities) and causality assessment.	It also pro	ovides 1	basic skills t	for benefit- risk	
evaluation, signal management, how to deal with emerging safety issues, as well as risk					
management and risk minimization me	easures. Fin	ally, it v	will guide on	communicating	
safety information to healthcare profes	sionals and	consur	ners.		

Course Name	Teach h/we L	0	Credit hours	Code No.
Pharmacoepidemiology	2		2	0609601

Description: Pharmacoepidemiology is the fundamental science in drug safety and a corner stone in making patient safety decisions. By the end of the course, the student should be able to define pharmacoepidemiology and related concepts. To distinguish between different types of pharmacoepidemiology studies. To identify various sources used for collecting data and judge the quality of these data. To outline methodological approaches and statistical methods used in pharmacoepidemiology studies. And finally, to develop a surveillance program for drug use.



Course Name	Teaching h/week		Credit	Code No.
	L	P	hours	
Pharmacotherapy	3	2	5	0609602

Description: In this course, the students will gain knowledge about retrieval & overview of different guidelines for cardiovascular, nephrology, neuropsychiatric, gastrointestinal, hematological endocrine and oncological disorders and the most encountered conditions in intensive care units. Problem-based learning approach will be used with an emphasis on the most frequently reported adverse drug reactions & medications errors in different settings. The students will also be able to design & monitor therapeutic plans for these patients to ensure proper use of drugs in addition to preventing & solving drug-related problems.

Course Name	Teac h/w	0	Credit	Code No.	
	L	P	hours		
Adverse drug reactions and drug	2	_	2	0609603	
interactions	2		2	0007003	
Description: This course aims to prov	ide bas	ic knov	wledge abou	t adverse drug	
reactions and medication errors, their of	classifica	ations,	and types a	s well as drug	
interactions. It will help identify the impor	tance of	monit	oring the adve	erse drug events	
and decrease or prevent drug interactions as well as skills required for taking the					
	required measures to improve drug safety.				

Course Name	Teaching h/week		Credit hours	Code No.
	L	P	nours	
Ethics and regulations	2		2	0601633
Description: The course aims to provide the students with ethical regulatory guidelines of pharmacovigilance nationally and internationally. Medical products law, data protection and patent protection, insurance coverage, and informed consent. It will also cover security of database.				



Second semester (14 Cr. h)

e No.	Code No	Credit	Teaching h/week		Course Name	
		hours	P	L		
1634	0601634	4	1	3	Pharmacovigilance –II	
	06016	4	1	3	Pharmacovigilance –II	

Description: This Course aims to provide the knowledge and hands on training from the pharmaceutical industry point of view, to prepare candidates to serve as Qualified Person for Pharmacovigilance (QPPV) in various national, international and multinational pharmaceutical companies. It consists of several chapters that are drawn up to implement the good pharmacovigilance practice in accordance with the national and international guidelines. It will also provide knowledge on different Pharmacovigilance systems, including Pharmacovigilance System Master File (PSMF), Periodic Safety Update Report (PSUR) and the Addendum of Clinical Overview (ACO), as well as the Risk Management Plan (RMP). It will also help to understand the key messages on handling pharmacovigilance audits and inspections.

Course Name	Teaching h/week		Credit	Code No.	
	L	P	hours		
Biostatistics	2	2	4	0601635	

Description: This course aims to provide basic knowledge about descriptive statistics that would include description, measures of location and spread, standard deviation and normal distribution. Different study designs and calculation methods of probability will be addressed. Concept of confidence interval and difference of two population means will be discussed. The student should be able to interpret biostatistics differences in clinical trials. The students will be trained on how to choose the power of the study, to perform sample size calculations. The use of the R programming language as a tool for analyzing data will also be introduced.

Course Name		Teaching h/week		Code No.	
	L	Р	hours		
Capstone Project		3	3	0601636	
Description: students will conduct research projects within academic, clinical, industrial, regulatory, or private body. Students will give presentation and/or submit a hard copy of the project.					



Course Name	Teaching h/week		Credit	Code No.	
	L	P	hours		
Evidence based medicine	2		2	0609604	

Description: During this course student will use concepts obtained in epidemiology course to help solving clinical problems. Students need to acquire knowledge and develop skills to determine the validity of decision taken when they provide care to patients from the best evidence available sound clinical research and patients' values and preferences.

Elective courses

Course Name	Teaching h/week		Credit	Code No.
	L	P	hours	
Pharmacovigilance of special products	1		1	0609605

Description: The course introduces the students to pharmacovigilance activities for special products including vaccines, biological products, herbal remedies, or supply & devices. The students will gain general knowledge about the three types of post-marketing pharmacovigilance (drug safety surveillance, drug abuse and adverse effects monitoring and safety monitoring of these special products). The performance of pharmacovigilance activities in Egypt and its application on applies on marketing authorization holders based on the Egyptian Drug Authority (EDA) regulations will be discussed. Guidelines with pharmacovigilance requirements for these products shall also be considered including immunogenicity and adulteration which are included in the safety specification of biologicals & herbal products, respectively.

Course Name	Teaching h/week		Credit	Code No.
	L	Р	hours	
Care of special populations	1		1	0609606

Description: The course reinforces general principles pertaining to the care of the special populations including geriatric, paediatrics, obese, pregnant & lactating females' patient. The goal is to enhance the student pharmacist's competence in caring for these populations. Topics will focus on the physiological, psychological, physical, ethical, social, economic and therapeutic issues. Monitoring & preventing drugs misadventures in these populations will be thoroughly discussed. Each lecture incorporates topics and activities pertinent to providing patient-centered care in these populations.