Mapping Program Educational Outcomes (PEOs) to Key Performance Criteria (KPC) in Professional Pharmacy Courses

iviappin	g Program	II Euucatii	onal Outc	onies (Fi	EUS) IU K	ey Performance Criteria (KPC) in Professional Pharmacy Courses																	
Stream I	Stream II	Stream III	Stream IV	Stream V	Stream VI																		
tice	ral tive	S	-a	λd																			
raci	ial, behavio administra Sciences	e e	s dic	hera	Library and Educational resources																		
5	ninis eno	Scien	Pharmaceutic Sciences	cot	any		308 309	212 314	215	PHA PH.	IA PHA P	HA PHA PHA	230 333	240 397	298 396	421 4	HA PHA PHA PHA PH 122 430 441 442 43	HA PHA PHA RS 443 444	A PHA 4 445	PHA PH	HA PHA PHA PHA PHA 52 557 560 570 571	PHA PHA PHA PHA 515 572 670 671	672 673 650
E E	adh Sci	Basic	arm	E.	Educ		308 309	312 314	313	320 32	.2 323	,13 310 317	330 333	340 337	338 333	421	122 430 441 442 4.	3 443 44	, ,,,,	445	32 337 300 370 371	313 372 070 071	072 073 030
Pharmacy Practi	Soci	ĕ	듄	Pharmacother	1 - "																		
_						PEO 1: Gather, interpret, and evaluate needed patient-related data to identify actual or potential drug therapy problems (Rx				_								_					
						and OTC) and develop a complete medical and drug therapy problem list																	
						KPC 1.A: Gather and present patient-specific information KPC 1.B. Interpret and present patient and days patient date.		-		1 1	1	1	T				I I R R	R			R R A A		
						KPC 1.B: Interpret and evaluate patient- and drug-related data KPC 1.C: Develop complete medical and drug therapy problem list				i		-			· i		RR				R R A A		
						PEO 2: Select and recommend appropriate drug and non-drug therapy to design patient centered treatment plans																	
						KPC 2.A: Identify goals of therapy for patient's medical problem(s) KPC 2.B: Demonstrate appropriate pharmaceutical and therapeutic knowledge		1 1		1				1	1		I R R	R R	R	RI	R R A A	AAAA	AAAA
						KPC 2.C: Recommend appropriate drug therapy plan		ì		1		i	1	1			I R R	R R	R	R	R R A A A R A A	A A A	A A A
						KPC 2.D: Recommend appropriate non-drug therapy plan	+			1	+			ı			R R	R R	R	R I	R R A	A A A	A A A
						PEO 3: Devise and implement a patient monitoring plan to ensure achievement of desired therapeutic outcomes • KPC 3.A: Monitor patient-specific parameters for drug efficacy and safety				1				_			I R R	R R	R	R I	R R A A	A A A	A A A
						 KPC 3.B: Assess appropriate parameters in a timely manner 				1							I R	R R	R	R I	R R A A	A A A	A A A
						KPC 3.C: Anticipate and report adverse effects and drug interactions PRO 4.6. U.S. Anticipate and report adverse effects and drug interactions.		ı		1 1		1	1	_	1	1	I I R R	R R	R	Ri	R R A A	A A A	A A A
						PEO 4: Collaborate and communicate with other health-care professionals to engender a team approach to patient care • KPC 4.A: Interact with healthcare professionals				1 1	1				1 1					R I	R R A A	A A A	A A A
						 KPC 4.B: Participate in the daily activities of the medical team 					1				1 1						R A		
						KPC 4.C: Communicate drug information to the healthcare team related to patient care KPC 4.D: Listen to other team members	+				I I				1 1				+	R I	R R A A	A A A	A A A
						PEO 5: Educate patients, caregivers, other health care professionals and the public about drug therapy, medical goods and	1 1 1		\Box	•						Ė						2 2 2	A A A
						devices		_	1		1.1		\vdash			\vdash	++++	+	1				
						KPC 5.A: Interact with patients, caregivers and health care professionals KPC 5.B: Inform the patient and caregivers about the use of drugs, medical goods and devices		1		1 1	I		+		1	+	R	I R	+	R		A A A	AAAA
						 KPC 5.C: Instruct health care professional about drug therapy, medical goods and devices 		ì		1 1	1	1			1			R		R I	R R A A	AAAA	A A A
						 KPC 5.D: Educate the public about drug therapy, medical goods and devices 	$+\Box$		H	1 1	1	- 1	$\sqcup \Box$		1	H	$++\mp$	R	+	R I	R R A	A A A	A A A
						PEO 6: Prepare, dispense, and store medications appropriately and accurately according to professional standards and/or supervise their preparation																	
				1	1	 KPC 6.A; Correctly count, measure, mix, reconstitute, and calculate the quantity of medications to dispense 		- 1	1			1 1			1		R			R	A A	A	A A
					I	 KPC 6.B: Correctly prepare the label for the finished prescription including beyond-use date of the extemporaneously compounded pharmaceutical products 		1	1			1 1								R	A A	A	A
						KPC 6.C: Educate patients or caregivers on the drug dosage, indication, adverse drug reactions, action to be taken in				-	. —						I I R			R			
						the event of a missed dose, and proper administration technique		1	1	_ '		1 1	1		1		I I R	'		R	A A	A A	A A A
						PEO 7: Develop skills to collaborate with policy makers, payers, members of the community, health providers, other																	
						stakeholders and decision-makers to promote public health and resolve public health problems KPC 7.A: Determine the pharmacist practice activity domains in public health initiaties and promoting safe														R I			
						medication use in society				' '	' '				•	'							
						 KPC 7.B: Formulate strategies to offer disease detection and prevention programs in the public KPC 7.C: Provide disease prevention and prevention health care services (e.g., smoking cessation, weight reduction, 	+		+	1 1	1				1				+	RI	R R R A		
						diabetes screening, blood pressure screening, immunization services (e.g., snoking cessarion, weight reduction,				1 1	ı				1		R		R	R I	R R R A	A A	A A A
						background of a given audience																	
						 KPC 7.D: Collaborate with policy makers, payers, members of the community, health providers and decision makers in the development of pharmacy related public health initiatives 				- 1	1				1					R	R R A		
						PEO 8: Apply patient- and population-specific data, quality assurance strategies, and research processes to assure that																	
						medication use systems minimize drug misadventuring and optimize patient outcomes			\vdash	_							-						
						 KPC 8.A: Integrate evidence from the literature with clinical expertise and consideration of patient preference to optimize patient outcomes 	1 1			1			1		1 1	1	I I R R	R	R	R I	R R R A A	A A A	A A A
						 KPC 8.B: Identify and minimize or avoid drug interactions, adverse effects, and contraindications associated with 									1 1		I I R R	R	R	R I	R R A A	A A A	A A A
						the recommended drug therapy KPC 8.C: Apply pharmacist practice activity domains in public health initiatives to promote safe medication use in	+		+	_									+				
						RPC 8.C. Apply pharmacist practice activity domains in public health influences to promote safe medication use in society				1					1 1	1	R	R		R I	R R A A	A A A	A A A
						PEO 9: Assure efficient, cost-effective utilization of human, physical, medical, informational, and technological resources																	
						in the provision of patient care KPC 9.A: Apply principles of pharmacoeconomics in making pharmaceutical care decisions.			+	_							R	R	R	R	A R A	A A A	A A A
						KPC 9.8: Recognize distinguishing characteristics of drug distribution systems in a variety of settings, including								i		1				R	A A	A A A	-
						technological and informational resources			\vdash	_						+ +	-						
						 KPC 9.C: Develop and utilize policies and procedures that provide assurance for improving the efficiency and effectiveness of a given drug distribution system 							1	- 1		1					R R A	A A A	A A A
						PEO 10: Describe and demonstrate appropriate utilization of management principles and use of health care resources in the																	
				1		American and Lebanese health care system			++	1 .	1	+	-	1			++++	++	+	R	R A A	Δ Δ	A A A
						KPC 10.A: Define the role of the pharmacist in providing medication therapy management KPC 10.B: Identify key features of private and public payers of health care					1		i			Ľt			±Π		R R A		AAAA
				l		 KPC 10.C: Describe the roles of the American and Lebanese government in financing health care programs (Medicare, 					1			1							R A A	A A	A A A
				l		Medicaid, National Social Security Foundation)	+		++			-		- 1		++	++++	++	+				
			<u> </u>	<u></u>		 KPC 10.D: Recognize distinguishing characteristics of drug distribution systems in a variety of settings, included automated systems 			⊥ l	- 1	╙		1		1		<u></u>			R	R A A	A A	A A A
						PEO 11: Retrieve, analyze, and interpret the professional and scientific literature to make informed, rational and evidence-																	
						based decisions KPC 11.A: Effectively and efficiently select pertinent scientific literature	+ + + +	-	++	1	++	-	\vdash		1 1	+	, ,	R	+	R	R R A A	A A A A	ΑΑΑ
						 KPC 11.B: Critically analyze primary literature with regard to study design, methodology, findings, and conclusions 	iii			1					1 1	1		R		R	RRAA	A A A A	AAA
						 KPC 11.C: Integrate evidence from the literature with applicability to patient case to draw a conclusion 	1 1			1	$+$ \Box	$\perp \Gamma$	$\vdash \vdash$		1 I 1 I		R	R	R	R	R A A	R A A A	A A A
						KPC 11.D: Properly cite reference sources utilized PEO 12: Explain the moral standards and professional conduct and discuss the ethical obligations related to the profession		-	1 1	+	++			-		+	- - - - - - - - - - 			n	n A A	A A A A	AAAA
				1		of pharmacy in order to resolve ethical conflicts and dilemmas										Ш							$\sqcup \sqcup \bot$
				1		KPC 12.A: Develop a sense of pride, dignity and purpose concerning pharmacy KPC 13.P. February 14. Febr	$+\Box$				Α .	+ T	\Box		1 1		$++\mp$	$+ \top$	$+ \exists$		R A		
				1		KPC 12.B: Explain the ethical obligations of a pharmacist KPC 12.C: Demonstrate communications that would be helpful when there are ethical conflicts		-			A	+			1 1			+	+		R A	A A A	A A A
						 KPC 12.D: Resolve ethical and moral decisions faced by pharmacists 					A			1	1 1						A	A A	A A A
						PEO 13: Demonstrate compliance with local, state, federal and international regulations affecting pharmacy practice	$+\Box$	$-\Gamma$	HĪ	$-\Gamma$	$+$ \mp	+T			H	$+ \top$	++	+T	$+ \exists$	$-\mathbb{T}$	++T	\Box	
						 KPC 13.A: Identify local and international regulations affecting pharmacy practice (accreditation, education, licensures) 	1	1		- 1		1		1	1						R A A	A A	A A A
						 KPC 13.B: Recognize professional, ethical, and moral practice situations that may give rise to liability under civil 				- 1	1			1	1						R A A	A A	A A A
						law KPC 13.C: Identify the local and U.S. regulations related to medication use and controlled substances. (filling,			++	+	+	+	+			+	+++	++	+	-			
						refilling, dispensing, storage, inventory)			- 1			1		- 1	1	Ш					A A	A	A
						 KPC 13.D: Demonstrate ability to counsel patients while guaranteeing the confidentiality of their prescriptions and 	$I \cup I \cup I$	1	T	- 1	1			1	1	ΙT		R			R A	A A	A A A
						medical records PEO 14: Exhibit intellectual curiosity and personal commitment to ensure ongoing professional competency by identifying		-	1 +	+	++			-	\vdash	++	++++	+		-+			
						and analyzing emerging issues, products, and services that may impact patient-specific and population-based	1																
						pharmaceutical care KPC 14.A: Developed retrieval skills and critical thinking	1 1		++	-	++	+	\vdash		1 1	+	R	B ~	В	⊢.	R R R A A	P A A A	Δ Δ Δ
						KPC 14.A: Developed retrieval skills and critical thinking KPC 14.B: Identify her/his learning preferences and describe their strengths and self-limitations	iii			i	1	\pm			- 1	ĽŤ	R	R R	R		R R R A A A R	A A A	A A A
						 KPC 14.C: Develop strategies for overcoming the weaknesses 				1				1	1 1		R	RR	R		R A	AAAA	AAAA
						KPC 14.D: Manage time appropriately and efficiently KPC 14 E: Display confidence and self-motivation					I	+			1 1		R	R	R		R A A	I A A A	A A A
						Ki C 14.L. Dispiay confidence and sen-monyation	1											, K			n A A	. A A A	AAAAA

I = Introduce, R = Reinforce, and A = Apply (levels).

The colors assigned to the professional courses numbers courses represent the professional year (P1 = green, P2 = red, P3 = brown, P4 = blue).