

Document code	Mapping course intended learning outcomes into program outcomes and level descriptors of JNQF	Approval date
CC-2023-07		03-2023

Program	Bachelor of Pharmacy	Department	Pharmacy
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		Program intended learning outcomes required to be achieved according to JNQF									
		Knowledge	Skills				Competencies				
			K1	S1	S2	S3	S4	C1	C2	C3	C4
First Year	Course Name										
	General Biological Sciences 1	✓									
	General Chemistry 1	✓									
	Practical General Chemistry 1	✓									
	Mathematics pharmaceutical statistics	✓	✓	✓	✓		✓				
	Arabic Language 1	✓									
	English Language 1	✓									
	Human Anatomy	✓									
	Human Anatomy	✓									
	Human Physiology	✓									
Pharmaceutical analytical Chemistry	✓	✓			✓			✓			
Pharmaceutical analytical Chemistry Practical	✓	✓					✓	✓			

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			K1	S1	S2	S3	S4	C1	C2	C3	C4
Second Year	Pharmaceutical Organic Chemistry 1	✓	✓			✓			✓		
	Biochemistry for pharmacy 1	✓	✓					✓	✓		
	Physical Pharmacy and pharmaceutics	✓	✓			✓			✓		
	Physical Pharmacy Practical	✓	✓					✓	✓		
	Instrumental analysis	✓	✓			✓			✓		
	Instrumental analysis Practical	✓	✓					✓	✓		
	Pharmaceutical Microbiology and immunology 1	✓	✓			✓			✓		
	Microbiology and Immunology Practical	✓	✓					✓	✓		
	Pharmaceutics (I)	✓	✓			✓			✓		
	Pharmaceutics Practical (I)	✓	✓			✓	✓				
	Pharmaceutical Organic Chemistry (II)	✓	✓			✓			✓		
	Pharmaceutical Organic Chemistry Practical	✓	✓					✓	✓		
	Biochemistry for pharmacy (2)	✓	✓			✓			✓		

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Course Name		K1	S1	S2	S3	S4	C1	C2	C3	C4	C5
Third Year	Pathophysiology for pharmacy	✓	✓	✓	✓		✓		✓		✓
	Clinical Biochemistry for pharmacy	✓	✓			✓					
	Pharmacology (I)	✓	✓						✓		
	Pharmaceutical Microbiology and immunology (II)	✓	✓						✓		
	Medicinal chemistry (I)	✓	✓	✓			✓				
	Pharmaceutics 2	✓	✓	✓	✓	✓	✓	✓			
	Pharmaceutics practical (II)	✓	✓			✓			✓		
	Simulation pharmacy practical	✓	✓		✓		✓	✓	✓		
	Pharmacology (II)	✓	✓						✓		
	Medicinal chemistry (II)	✓	✓								
	Biopharmaceutics and Pharmacokinetic	✓	✓	✓						✓	
	Applications in pharmacokinetics	✓	✓	✓				✓		✓	

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		K1	S1	S2	S3	S4	C1	C2	C3	C4	C5
Fifth Year	Pharmaceutical care and pharmacy practice	✓	✓	✓			✓	✓	✓		
	Clinical Pharmacy and therapeutics (III)	✓	✓	✓				✓	✓	✓	✓
	Pharmacoeconomics	✓	✓	✓	✓	✓	✓		✓		✓
	Pharmaceutical quality and regulatory affairs	✓	✓	✓	✓		✓		✓	✓	✓
	Toxicology for pharmacy	✓	✓	✓			✓	✓	✓		
	Ethics and legislation for pharmacy	✓	✓	✓			✓	✓			
	Pharmaceutical marketing and promotion	✓	✓	✓	✓		✓		✓		✓
	Pharmaceutical biotechnology and pharmacogene	✓	✓	✓		✓	✓	✓	✓	✓	✓
F	Industrial Pharmacy Practical	✓					✓	✓	✓		
	Clinical Pharmacy and therapeutics (II)	✓	✓	✓	✓						
	Case studies in therapeutics (II)	✓	✓	✓			✓	✓			
	Herbal medicine	✓	✓	✓			✓		✓		
	Nonprescription Medication (OTC)	✓	✓				✓	✓			
	Practical Training in Pharmacy	✓	✓	✓			✓	✓	✓		