



## Pharmaceutical Analytical chemistry Department Courses

<b>Bachelor's in Pharmacy program-pharm D-credit hours system (Clinical Pharmacy)</b>			
Course Title	Course Code	Semester	Prerequisite
Pharmaceutical Analytical Chemistry I	PA 101	1	Registration
Pharmaceutical Analytical Chemistry II	PA 202	2	Pharmaceutical Analytical Chemistry I
Instrumental Analysis	PA 303	3	Registration
Drug Quality Control	PA 604	6	Instrumental Analysis
Elective Course: Food Analysis	PA E06	7,8,9,10	
Elective Course: Green Chemistry	PA E07	7,8,9,10	

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Course Title	Course Code	Semester	Prerequisite
Pharmaceutical Analytical Chemistry I	PA 101	1	Registration
Pharmaceutical Analytical Chemistry II	PA 202	2	Pharmaceutical Analytical Chemistry I
Pharmaceutical Analytical Chemistry III	PA 303	3	Pharmaceutical Analytical Chemistry I
Instrumental Analysis	PA 404	4	Registration
Drug Quality Control	PA 005	10	Instrumental Analysis
Elective Course: Food Analysis	PA E06	7,8,9,10	
Elective Course: Green Chemistry	PA E07	7,8,9,10	



<b>Bachelor of pharmacy</b>			
<b>Course title</b>	<b>code</b>	<b>semester</b>	<b>Academic year</b>
Pharmaceutical Analytical Chemistry	1012	first	Prepharmacy
Analytical Chemistry	1112	second	
Analytical Chemistry	2112	second	First year
Instrumental Analysis	3012	first	Second year
Elective course: Food Chemistry	5402	first	Fourth year
Drug Control	5152	second	

<b>Bachelor of clinical pharmacy (credit hour system) (unified program)</b>			
<b>Course Title</b>	<b>code</b>	<b>semester</b>	<b>Prerequisite</b>
Physical & Inorganic Chemistry	PC101	1	Registration
Pharmaceutical Analytical chemistry-1	PC205	2	Registration
Pharmaceutical Analytical chemistry-2	PC306	3	Analytical pharmaceutical chemistry-1
Instrumental Analysis	PC407	4	Registration
Pharmaceuticals analysis and quality control	PC808	8	Pharmaceutical Analytical chemistry.-2
Elective course: Advanced Pharmaceutical Analysis- Spectroscopy	PCE12	8,9,10	Registration



<b>Master's in Pharmacy program (Pharmaceutical Analytical Chemistry)</b>		
<b>Semester</b>	<b>Course</b>	<b>Code</b>
First	Instrumental analysis	TU10-6123
	Advanced medicinal chemistry	TU10- 8163
Second	Bioanalytical methods	TU10- 8213
	Separation techniques	TU10- 8253
	New trends in drug analysis	TU10- 8223
	Advanced analytical chemistry	TU10- 8233
	Seminar	TU10- 8263

<b>Drug quality control diploma</b>		
<b>Semester</b>	<b>Course</b>	<b>Code</b>
First	Instrumental analysis	TU10-6123 <sup>b</sup>
	Concept of drug quality control, quality assurance	TU10- 6113 <sup>b</sup>
	Method development and validation	TU10- 6133 <sup>b</sup>
Second	Chemical quality control	TU10- 6213 <sup>b</sup>
	Seminar	TU10- 6253 <sup>b</sup>