

Master

Course	Code	Hours			Aim
		Lectures	Practical	Total	
Applied experimental pharmacology	0902704	3	-	3	<p>The course is considered as an aid for experimental pharmacologists to pave a way for the performance of the various protocols and techniques used in the field of research in pharmacology.</p> <p>The course will cover various therapeutic classes of drugs and adopted prototype methods of screening and biological assays using in vitro or in vivo models.</p> <p>The course demonstrate an in-depth understanding of basic laboratory techniques used to support clinical research</p> <p>It also provides the bases for pharmacologists in the field of research and industry to search for new drugs of potential use for human therapy.</p>
Quality control of pharmaceutical products and validation of	0907704	3	-	3	<p>The course aims to :</p> <ul style="list-style-type: none"> ●Provides postgraduates with basic and advanced knowledge in the area of

analytical methods					<p>quality control and validation of analytical methods.</p> <ul style="list-style-type: none"> •Equip post graduates with skills and experience to benefit across their studies and / or their current work. Based on the cited theoretical knowledge, the acquisition of analytical research skills for the control of bulk products and of finished medicament preparations
Natural products chemistry: nature, isolation and fractionation techniques	0906701	3	-	3	Education of graduate students with the essential knowledge on the nature of plant and animal metabolites. The isolation methodologies and fractionation techniques in the light of recent developments and advancements in these areas.
Quality control of crude drugs and phytopharmaceuticals	0906703	3	-	3	To enhance the students capabilities and basic understanding of the principles and methodologies of the quality control of botanicals and herb-derived products.
Spectral and chemical characterization of natural products	0906702	3	-	3	- The course introduces different spectroscopic techniques to students, exposes the student to theoretical backgrounds for each analytical

					<p>technique, explains how each technique can contribute to the process of structure elucidation. Also it explains how all these techniques can comprehensively used to elucidate the structure of natural products and exposes the student to real problems in structural elucidation.</p>
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