## **Bachelor of Pharmacy**

Course	ourse Code Hours				Aim
		Lectures	Practical	Total	
Applied Pharmacognosy		2 hrs/week	2 hrs/week	4 hrs/week	<ul> <li>The course aims to provide the student with knowledge of different chromatographic techniques used in the analysis of phytopharmaceuticals and herbal preparations especially HPLC and GC, and of structure elucidation of the natural products using differentspectroscopic techniques.</li> <li>The course also aims to provide the student with knowledge of quality control of herbal drugs in general, quality assessment of botanical dietary supplements with special emphasis on plant raw material specifications, role of good manufacturing and good storage practices for the production of safe and efficacious plant products, genetically engineered medicines and the production of natural drugs (cultivation of medicinal plants, genetic engineering and the production of important secondary metabolites).</li> <li>The course covers the fundamental processes in biosynthesis of secondarymetabolites.</li> </ul>
Phytochemistry		3 hrs/week	3 hrs/week	6 hrs/week	• The course provides an understanding of the chemical constituents of crude drugs focusing on methods of extraction, identification, qualitative and quantitative

				determination; besides information about their medicinal uses and structural activity relationship.  • The course covers also the basic principles of chromatography and provides basic knowledge about plant tissue culture and its biotechnological application in production of secondary metabolites.
Pharmacognosy	2 hrs/week	3 hrs/week	5 hrs/week	<ul> <li>The course aims to give intensive precise background about the essential fundamentals of how to identify medicinal Pharmacopoeial crude drugs of natural origin with special emphasis on their active constituents, medicinal uses and misuse of some herbs.</li> <li>The course aims also at giving the students strong information about the recent concepts and approaches of modern phytotherapeutics, phytopharmaceuticals, food drugs and recent and renewed interest in some old remedies.</li> </ul>
Pharmacognosy and medicinal plants	2 hrs/week	2.5 hrs/week	4.5 hrs/week	• The course is designed to provide an understanding of crude medicinal drugs, their biological origin, geographical sources, systems of their classification and their importance in medicine and in daily life.