## **Pharmacognosy I Practical**

Level: 2<sup>nd</sup> Class, 2<sup>nd</sup> Semester

Credit hours/week: 1

**Reference text: Special curriculum prepared for this purpose.** 

No	Lecture Title	Hour(s)
1	Micro measurement and magnification.	2
2	Microscopical identification of crude drugs and cell contents.	4
3	Extraction and separation techniques.	4
4	Chromatography.	4
5	Paper chromatography (circular and horizontal paper chromatography).	4
6	Introduction to tin-layer chromatography.	2
7	TLC on microscope sides.	4
8	Partition chromatography for the separation of volatile oils.	4
9	Effect of activity of adsorbents on Rf values.	2

Practical Pharmacognosy II Level: 3<sup>rd</sup> Class, 1<sup>st</sup> Semester Credit hours/week : 1 Reference text: Lab manual for Practical Pharmacognosy Adopted by the Department.

	Department.	
No	Lecture Title	Hour(s)
1	Cardio-active glycosides	4
2	Anthraquinone glycosides.	4
3	Saponin glycosides.	4

4	Tannins.	2
5	Volatile oils	4
6	Isolation of pipenine from black pepper.	4
7	Isolation of belladonna alkaloids and their identification.	4
8	Isolation of caffeine from tea.	4

Practical Pharmacognosy III Level: 3<sup>rd</sup> Class, 2<sup>nd</sup> Semester

## Credit hours/week: 1

Reference text: Lab Manual for Practical Pharmacognosy Adopted by the Department.

	1	
No	Lecture Title	Hour(s)
1	Isolation of Peganum harmala alkaloids.	4
2	Preparation of Khellin.	4
3	Flavonoids of Ruta graveolens.	4
4	Extraction of hesperidin	4
5	Isolation of pectin.	2
6	Isolation of citric acid from lemon juice.	4
7	Isolation of Podophyllotoxin from <i>Podophyllum emod</i> ; Isolation of Rotenone from <i>Lonchocarpus</i> Spp.	4
8	Isolation of Peganum harmala alkaloids.	4