|  |  |  |  |
| --- | --- | --- | --- |
| **Lab NO.** | **Date** | **Title** | **Supervision** |
| **1** | 3/2/2013  5/2/2013 | - Introduction to the microscope & its applications  - Identification of different types of starch  e.g. potato, rice, wheat & maize | Dr. Taghreed |
| **2** | 10/2/2013  12/2/2013 | Microscopical drug analysis (part I):  Identification of Ca- oxalate crystals and stomata  e.g. Quillaia, rhubarb, senna, datura, squill, belladonna, digitalis & mentha |
| **3** | 17/2/2013  19/2/2013 | Microscopical drug analysis (part II):  Identification of trichomes, pollen grains and fibers  e.g. Pyrethrum, clove, lavender, senna, cannabis, datura, digitalis, mentha, hyoscyamous, cinnamon & cinchona |
| **4** | 24/2/2013  26/2/2013 | - Microscopical examination of powdered leaves containing volatile oils (e.g. mentha)  -Microscopical examination of powdered flowers containing volatile oil (e.g. clove, lavender & chamomile)  - Isolation of volatile oil |
| **5** | 3/3/2013  5/3/2013 | - Microscopical analysis of powdered fruits containing volatile oils ( e.g. anise, coriander & caraway) - Microscopical analysis of powdered barks containing volatile oils (e.g. cinnamon)  -Examination of abnormal growth parts (e.g. gall) |
| **6** | 10/3/2013  12/3/2013 | **Revision** |
| **7** | 17/3/2013  19/3/2013 | **Practical Exam I** |
| **8** | 31/3/2013  2/4/2013 | Qualitative determination of carbohydrates:  -Monosaccharides (e.g. glucose & fructose)  -Disaccharides (e.g. maltose, lactose & sucrose) | Dr. Ghada |
| **9** | 7/4/2013  9/4/2013 | Physical characters and chemical tests of unorganized drugs e.g. gums ( acacia & tragacanth) and colophony |
| **10** | 14/4/2013  16/4/2013 | Unorganized drugs continued  e.g. aloe, agar and gelatin |
| **11** | 21/4/2013  23/4/2013 | Introduction to chromatography (PART 1):  column, TLC and paper chromatography |
| **12** | 28/4/2013  30/4/2013 | - Introduction to chromatography (PART 2):  column, TLC and paper chromatography  **-** Disscussion of activities |
| **13** | 5/5/2013  7/5/2013 | **Revision** |
| **14** | 12/5/2013  14/5/2013 | **Practical Exam II** |

**PHG 222 – Practical Course**