



Sohag University



Faculty of pharmacy

Quality Assurance Unit

## Course Specifications

University: Sohag

Code: (PT 402)

Title: Hospital Pharmacy

### Course Specifications

Program (s) on which the course is given : Bachelor degree of clinical and Pharmaceutical Sciences.

Department offering the program: Pharmaceutics and Clinical Pharmacy

Academic year / Level : .....Fifth year.

Date of specification approval: Fall 2019

#### A- Basic Information

Title: Hospital Pharmacy      Code: PT 402

Prerequisites: Biopharmaceutics and pharmacokinetics

Credit Hours: 3

Lecture: 2

Tutorial: 0

Practical: 1

Total: 3

#### B- Professional Information

##### 1- Overall aims of course

Illustration of the importance of Pharmaceutical skills to the pharmacy profession such as, drug information, Dose adjustment, I.V admixture preparation, Total parenteral nutrition (TPN), Drug Therapy monitoring and drug distribution systems.

##### 2- Intended learning outcomes of course (ILOs)

###### a- Knowledge and understanding:

By the end of this course the student must be able to:

- 1) Explain Pharmacy and therapeutics committee and different in-patient pharmacy services
- 2) List different pharmacy services and facilities in the hospital.
- 3) Recognize abilities of pharmacist working in hospital.
- 4) Identify responsibilities of clinical pharmacists.
- 5) Describe structure of staff working in different areas of the hospital.
- 6) Memorize the basic principles of GMP regarding storage of drugs.
- 7) Discuss inventory turnover rate and mechanisms of drug-drug interactions.
- 8) Define methods for calculating doses from stock solutions and define terms previously studied in the course.

###### b- Professional and practical skills

By the end of this course the student must be able to:

- 1) Distinguish between dispensing and clinical pharmacy services.

- 2) Practice problems on powder reconstitution and isotonicity.
- 3) Illustrate the design of pharmacy area.
- 4) Choose suitable facilities for the pharmacy and appropriate drug distribution systems for each hospital
- 5) Propose answers to oral questions.
- 6) Demonstrate patient cases with high risk of developing drug-induced problems

**c- Intellectual skills**

- 1) Compare between drug distributions systems and recommend the best one.
- 2) Apply equations for milliosmole calculations and presentation skills regarding patient medication profile.
- 3) Analyze data collected on patients and drugs.
- 4) Differentiate between patient characteristics and drug characteristics.
- 5) Demonstrate patient cases with high risk of developing drug-induced problems
- 6) Criticize the presentations.
- 7) Recommend improvements in developing a PMProfile

**d- General & transferable skills**

At the end of this course the student must be able to:

- 1) Design a preliminary drug therapy monitoring program
- 2) Plan to operate a drug inventory.

**3- Contents**

Week NO.	Topic	NO. of Hours	Tutorial / Practical
W1	General Introduction to Hospital pharmacy	2	1
W2	Roles of pharmacists in the hospital	2	1
W3	Pharmacy and therapeutics committee	2	1
W4	Facilities required for pharmacy department	2	1
W5	Drug distribution services	2	1
W6	I.V. admixtures and TPN	2	1
W7			
W8	Total Parenteral Nutrition	2	1
W9	Drug therapy monitoring	2	1
W10	Pharmaceutical procurement and control services	2	1
W11	Patient medication profile	2	1
W12	Rational drug use	2	1
W13	Essential drug list	2	1

W14	Drug-drug interactions	2	1
W15	Student activity (patient medication profiles and drug-drug interaction presentations	2	1
W16			
<b>Total</b>		<b>30</b>	<b>15</b>

#### 4- **Teaching & learning methods**

- 1- Lectures
- 2- presentations
- 3- Discussions
- 4- Practical sessions

#### 5- **Student assessment methods**

- a- Periodical sheets to assess knowledge and understanding
- b- Research papers to assess intellectual, professional, transferable and practical skills
- c- Mid-term to assess knowledge, understanding, professional and practical skills
- d- Final exams to assess knowledge and understanding plus practical and professional skills

#### **Assessment schedule**

1st practical Exam ..... 8th week

2nd practical Exam..... 15th week

Med – Term Exam..... 7th week

Written final Exam ..... 16th to 16th week \*

Oral Exam ..... 16th to 16th week\*

#### **Weighing of assessments**

Periodical examination	5 <sup>th</sup> week	20 %
Mid-term examination	7 <sup>th</sup> week	20 %
Practical Examination	14 <sup>th</sup> week	20 %
Oral examination	16 <sup>th</sup> week	10 %
Final – term examination		30 %
Total		100 %

Any formative only assessments

#### 6- **List of references**

##### **6.1- Course notes**

Published slides on the university website ([nahadauniversity.org/els](http://nahadauniversity.org/els))

##### **6.2- Essential book (text books)**

Hand book of Hospital pharmacy

Aulton's pharmaceutics

##### **6.3- Recommended books**

Pharmaceutical practice (A. J. Winfield and R.M. E. Richards)

#### **6.4- Periodicals, Web sites ....etc**

[www.pharmaceuticalpractice](http://www.pharmaceuticalpractice.com) .com, googlescholar.com, www.FDA.com

#### **7- Facilities required for teaching & Learning**

**Teacher name: Dr. Mahmoud M. Ahmed Elsayed, Dr. Amany Abd Elkader**

**Dr.Mohamed Sherif Sedik**

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**Course coordinator:- Ass.Prof. Dr/ Mahmoud M. Ahmed Elsayed**

**Date: 15/9/2019**