



**COURSE  
REPORT**

**Sterile solutions**

**2019-2020**

## Course report of sterile solutions

**University:** Zagazig

**Faculty:** Pharmacy

**Department:** pharmaceutics

### A- Basic Information:

1. Title and code: sterile solutions Code: D1011
2. Programme(s) on which this course is given: Clinical Pharmacy diploma
3. Year/ Level of programme: ----semester 2
4. Units/Credit hours:

Lectures  Tutorial/Practical  Total

5. Names of lecturers contributing to the delivery of the course
  - i. Prof. Hanan El Nahas
  - ii. Prof. Hanaa ElGhamri
  - iii Assis. Prof. Gehan Balata
  - iv. Assis. Prof. Shereen Sabri

Course co-ordinator: Assis. Prof. Gehan Balata

External evaluator: Prof. Gamal El Maghrabi –Tanta University

### B- Statistical Information:

No. of students attending the course:	No.	<input style="width: 50px; text-align: center;" type="text" value="205"/>	%	<input style="width: 50px; text-align: center;" type="text" value="100"/>
No. of students completing the course:	No.	<input style="width: 50px; text-align: center;" type="text" value="204"/>	%	<input style="width: 50px; text-align: center;" type="text" value="99.5"/>
Results:				
Passed:	No.	<input style="width: 50px; text-align: center;" type="text" value="170"/>	%	<input style="width: 50px; text-align: center;" type="text" value="83.3"/>
Failed:	No.	<input style="width: 50px; text-align: center;" type="text" value="34"/>	%	<input style="width: 50px; text-align: center;" type="text" value="16.7"/>
Grading of successful students:				
Excellent:	No.	<input style="width: 50px; text-align: center;" type="text" value="58"/>	%	<input style="width: 50px; text-align: center;" type="text" value="28.4"/>
Very Good:	No.	<input style="width: 50px; text-align: center;" type="text" value="81"/>	%	<input style="width: 50px; text-align: center;" type="text" value="39.7"/>
Good :	No.	<input style="width: 50px; text-align: center;" type="text" value="30"/>	%	<input style="width: 50px; text-align: center;" type="text" value="14.7"/>
Pass:	No.	<input style="width: 50px; text-align: center;" type="text" value="1"/>	%	<input style="width: 50px; text-align: center;" type="text" value="0.5"/>

**C- Professional Information:****1 - Course teaching**

<b>Week</b>	<b>Lecture content (2 hr/w)</b>	<b>Lecturer</b>
<b>1<sup>st</sup></b>	Chapter 1: Introduction to Parenteral Solutions: General description Characteristics of parenteral dosage forms	Prof. Hanan ElNahas
<b>2<sup>nd</sup></b>	Chapter 1: Introduction to Parenteral Solutions: Parenteral Administration Routes Guide line for needle selection	
<b>3<sup>rd</sup></b>	Chapter 1: Introduction to Parenteral Solutions: Advantages of parenteral preparations Disadvantages of parenteral preparations Safety, Accuracy, and Attitude	
<b>4<sup>th</sup></b>	Chapter 2: Parenteral formulations: 1- Solutions	Assis. Prof. Shereen sabri
<b>5<sup>th</sup></b>	Chapter 2: Parenteral formulations: 1- suspensions 2- emulsions	
<b>6<sup>th</sup></b>	Chapter 3 : Large and Small Volume Parenteral Manufacturing:	
<b>7<sup>th</sup></b>	Calculations involved in preparation of isotonic parenteral solutions	Assis. Prof. Gehan Balata
<b>8<sup>th</sup></b>	Calculations involved in preparation of isotonic parenteral solutions	
<b>9<sup>th</sup></b>	Chapter 4: Packaging of parenteral preparation	
<b>10<sup>th</sup></b>	Chapter 5: Total Parenteral Nutrition (TPN)	
<b>11<sup>th</sup></b>	Chapter 6: I.V Drug Incompatibilities	Prof. Hanaa El Ghamri

12 <sup>th</sup>	Chapter 7: Sterilization	
13 <sup>th</sup>	Chapter 8: Pharmacopeia requirements for compounding of parentals	
14 <sup>th</sup>	Chapter 8: Pharmacopeia requirements for compounding of parentals	
15 <sup>th</sup>	Final written exams	<b>Delivery of self- assessment sheet (problem solving)</b>

Topics taught as a percentage of the content specified:

>90%       70-90%       <70%

Reasons in detail for not teaching any topic

.....

If any topics were taught which are not specified, give reasons in detail

**2- Teaching and learning methods:**

Lectures	<input type="text" value="**"/>
Practical training/ laboratory:	<input type="text"/>
Seminar/Workshop:	<input type="text" value="-"/>
Class activity: Report	<input type="text" value="**"/>
Case Study:	<input type="text" value="**"/>

***Other assignments/homework***

The students were asked to solve different problems about parental compounding

If teaching and learning methods were used other than those specified, list and give reasons:

Because of Corona pandemic, e-learning through telegram channel was applied since 15 March

**3- Student assessment:**

Assessment method	Marks	Percentage
Written exam	60	60 %
Students report	20	20 %

<b>Oral exam</b>	<b>20</b>	<b>20 %</b>
<b>TOTAL</b>	<b>100</b>	<b>100%</b>

**Members of examination committee:**

- Written exams preparation: **Prof / Hanan El Nahas**

**Prof. Hanaa ElGhamri**

**Assis. Prof / Gehan Balata**

**Assis. Prof. Shereen Sabri**

Oral exam: Prof. Fakhar Ghazi, Prof. Mahmoud Abd ElGhani, Prof. Hanaa ElGhamri, Prof. Nagia ElMeghrab, Prof. Hanan ElNahas, Assis. Prof. Gehan Balata, Assis. Prof. Azza Hasan, Assis. Prof. Shereen Sabri

**4- Facilities and teaching materials:**

Totally adequate	-
Adequate to some extent	**
Inadequate	-
List any inadequacies	

**5- Administrative constraints**

List any difficulties encountered  
No difficulties encountered

**6- Student evaluation of the course:**

List any criticisms	Response of course team
Students were satisfied about the course and exam questions	.....

**7- Comments from external evaluator(s):**

Comment	Response of course team
Well structured course with clear ILOs	

**8- Course enhancement:**

Progress on actions identified in the previous year's action plan

Actions required	Completion	Person responsible
Updating Students Notes	completed	Course team
<b>Add application cases</b>	<b>completed</b>	Course team

#### 9- Action plan for academic year 2020 - 2021

Actions required	Completion date	Person responsible
Updating course references	2020-2021	Course team
<b>Add weakly assignments</b>	<b>2020-2021</b>	Course team

- **Course Coordinator: Assis. Prof. Gehan Balata**

